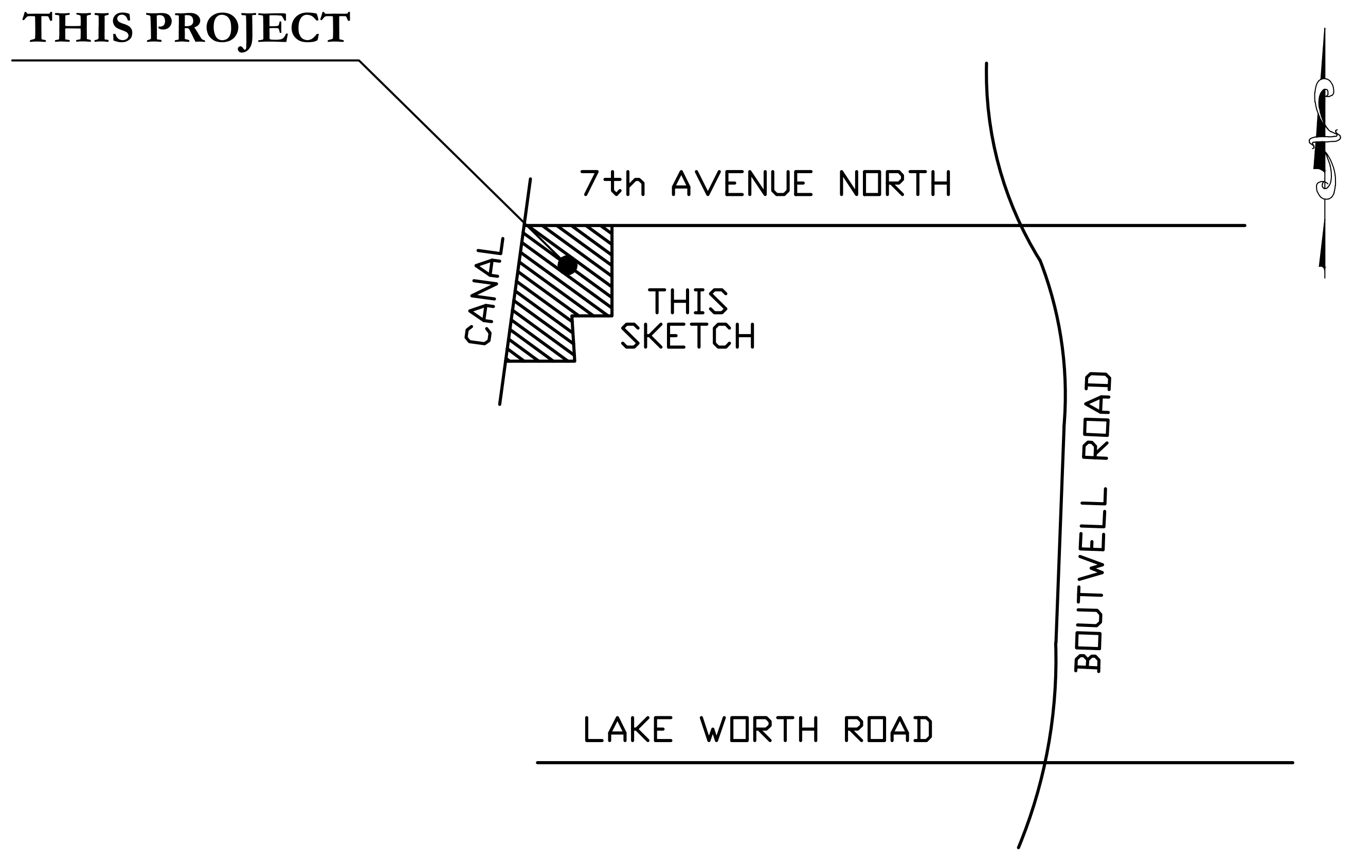
UMDASCH REAL ESTATE USA, LTD

2209 7th Avenue North Lake Worth Beach, Florida



VICINTY MAP

ALL WORK TO COMPLY WITH THE FOLLOWING CODES:

THIS PROJECT IS TO BE BUILT IN ACCORDANCE WITH ALL CITY OF LAKE WORTH BEACH BUILDING DEPARTMENT REQUIREMENTS AND AMENDMENTS, PALM BEACH COUNTY REQUIREMENTS AND FOLLOWING CODES:

- 2017 FLORIDA BUILDING CODE
- NATIONAL ELECTRICAL CODE 2014
- 2017 THE FLORIDA FIRE PREVENTION CODE
- NFPA-101, 2015 EDITION W/ FLORIDA AMENDMENTS
- NFPA 1 UNIFORM FIRE CODE 2015 W/ FLORIDA AMENDMENTS
- FLORIDA STATUES
- FLORIDA ADMINISTRATIVE CODE

NOTES

OWNER:

UMDASCH REAL ESTATE, USA, LTD.
214 Gates Road
Little Ferry, NJ 07463
Contact: Louis Goldberg
T - 201-853-0594
E - louis.goldberg@doka.com

ARCHITECT:

HNM ARCHITECTURE, LLC
3705 North Federal Highway
Delray Beach, FL 33435
Contact: Jaime O. Mayo
T - 561-733-2225
E - jmayo@hnm-architecture.com

CIVIL & LANDSCAPE ARCHITECTURE:

KIMLEY-HORN
600 North Pine Island Road, Suite 450
Plantation, FL 33324
Contact: George Balaban
T - 954-716-8824
E - george.balaban@kimley-horn.com

PROJECT TEAM

SITE DATA TABLE

EXISTING ZONING DISTRICT: I-POC
PROPOSED ZONING DISTRICT: I-POC
EXISTING FLU DESIGNATION: Industrial
PROPOSED FLU DESIGNATION: Industrial

REQUIRED LOT AREA: 13,000 SF
PROPOSED LOT AREA: 419,467 SF
REQUIRED LOT WIDTH: 100 FT
PROPOSED LOT WIDTH: 400 FT

PERMITTED BUILDING HEIGHT: 45 FT (with Sustainable Bonus Incentive Program)
PROPOSED BUILDING HEIGHT: 35'-0"

SETBACKS**	REQUIRED	PROVIDED
FRONT (7TH AVE. NORTH - NORTH)	20-32 feet	20'-0"
SIDE (EAST)	0 feet	191'-11"
SIDE (WEST)	0 feet	88'- 4 3/8"
REAR (SOUTH)*	91 feet*	437'- 11 3/8"

Notes:
* Required Rear Setback is 20ft or 10% of Lot Depth. Lot Depth = 910'-0"
** Refer to Site Plan for proposed setback dimensions/locations

SITE STATISTICS

SITE AREA: 427,562 Sq Ft
less 20ft ROW dedication: - 8,095 Sq Ft
NET SITE AREA: 419,467 Sq Ft or 9.63 acres

GROSS BUILDING AREA: 48,217 Sq Ft

PROPOSED LOT COVEAGE: 10.5 % of Net Site Area
(43,946 sf Ground Floor Area)

MAX. ALLOWED LOT COVERAGE: 55.00%

PROPOSED FLOOR AREA RATIO: 0.11
MAX . ALLOWED FLOOR AREA RATIO: 1.10

LANDSCAPE/PERVIOUS AREA: 167,409.42 Sq Ft or 39.9% of Net Site Area

TOTAL IMPERVIOUS AREA: 208,111.58 Sq Ft

PROPOSED IMPERMEABLE AREA: 49.6% of Net Site Area
MAX. ALLOWED IMPERMEABLE AREA: 65.00%

△1

PARKING STATS

Parking Stalls: 9' x 18'
Parking Reqd: Industrial 1 per 1,000 sf

Totla Parking Required: 49 (48,217 sf @ 1/1,000)
Total Parking Provided: 80 (incld 2 HC)

SITE AND BUILDING STATISTICS

A-0.0	COVER SHEET
SURVEY:	
SURVEY	
ARCHITECTURAL:	
A-0.1	SITE PLAN
A-0.2	PHOTOMETRIC SITE PLAN
A-0.3	SITE DETAILS
A-0.4	SITE DETAILS
A-1.0	OVERALL BUILDING FLOOR PLAN
A-1.1	ENLARGED OFFICE FLOOR PLANS
A-3.0	ROOF PLAN △1
A-4.0	EAST & NORTH ELEVATIONS
A-4.1	WEST ELEVATION
A-4.2	SOUTH ELEVATIONS
A-4.3	SECTIONS
A-4.4	NORTH & EAST RENDERED ELEVATIONS
A-4.5	WEST RENDERED ELEVATION
A-4.6	SOUTH RENDERED ELEVATION
CIVIL:	
C-100	COVER SHEET
C-101	GENERAL NOTES
C-102	DEMOLITION & EROSION CONTROL NOTES
C-103	DEMOLITION & EROSION CONTROL PLAN
C-104	DEMOLITION & EROSION CONTROL PLAN
C-105	DEMOLITION & EROSION CONTROL DETAILS
C-106	GEOMETRY SIGNAGE AND STRIPING PLAN
C-107	GEOMETRY SIGNAGE AND STRIPING PLAN
C-200	PAVING, GRADING, & DRAINAGE PLAN
C-201	PAVING, GRADING & DRAINAGE PLAN
C-202	DRAINAGE PLAN
C-203	DRAINAGE PLAN
C-204	DRAINAGE DETAILS
C-205	PAVING, GRADING, & DRAINAGE DETAILS
C-206	PAVING, GRADING, & DRAINAGE DETAILS
C-207	PAVING, GRADING, & DRAINAGE DETAILS
C-300	UTILITY PLAN
C-301	UTILITY PLAN
C-302	CITY OF LAKE WORTH SEWER DETAILS
C-303	CITY OF LAKE WORTH SEWER DETAILS
C-304	CITY OF LAKE WORTH WATER DETAILS
C-305	CITY OF LAKE WORTH WATER DETAILS
LANDSCAPE:	
L-000	TREE DISPOSITION PLAN
L-001	TREE DISPOSITION PLAN
L-100	LANDSCAPE PLAN
L-101	LANDSCAPE PLAN
L-150	LANDSCAPE DETAILS
L-151	LANDSCAPE NOTES

DRAWING INDEX

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION
△1	2020-11-13 SITE PLAN APPLICATION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM ARCHITECTURE
3705 North Federal Highway ▪ Delray Beach, Florida 33483 ▪ T. 561.733.2225
info@hnm-architecture.com ▪ AA26000726 ▪ www. hnm-architecture.com

MICHAEL W HANLON
AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

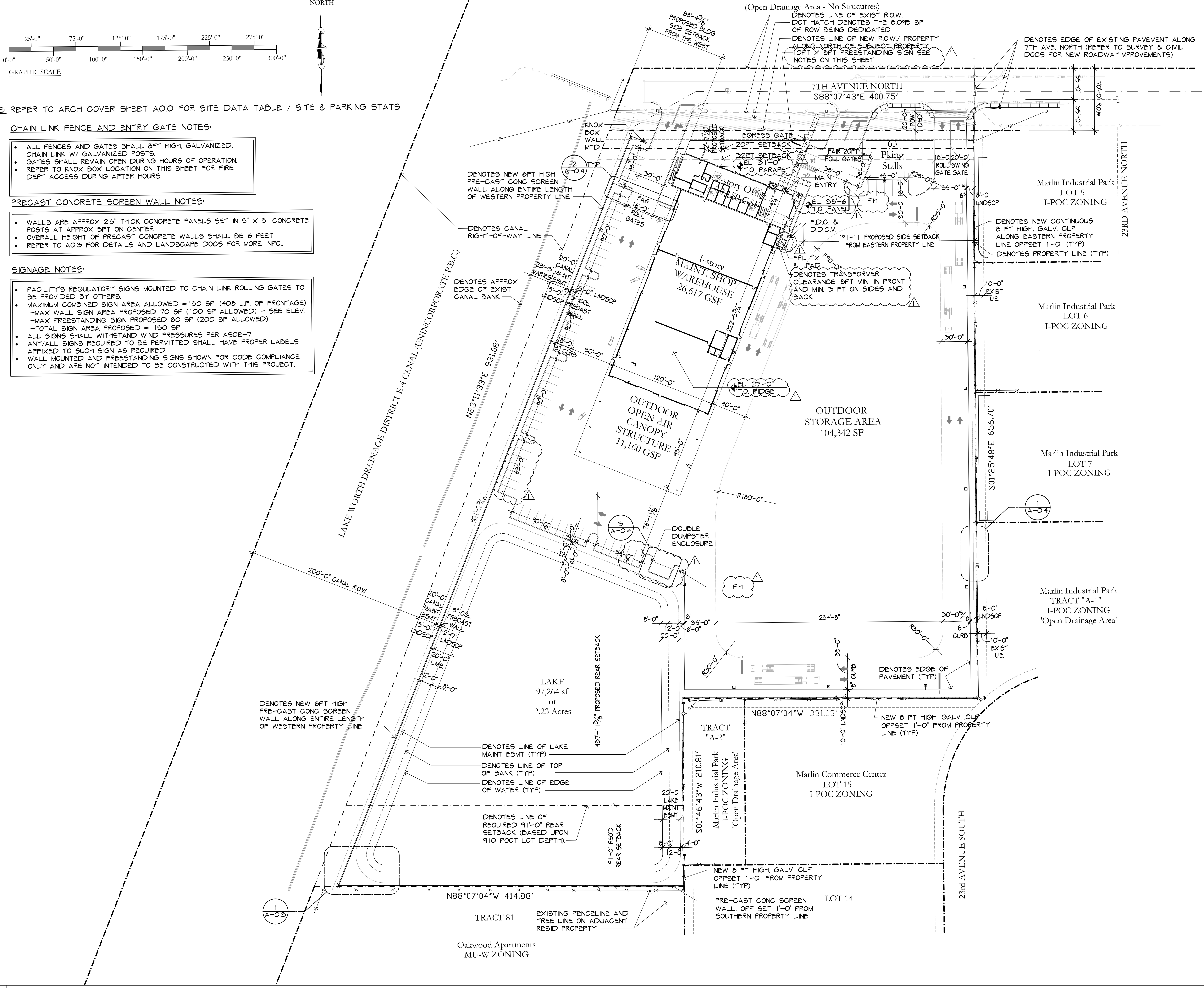
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-11-13

SCALE:
N.T.S.

TITLE:
COVER SHEET

DRAWING NUMBER:
A-0.0


NORTH
25'-0"
75'-0"
125'-0"
175'-0"
225'-0"
275'-0"
0'-0"
50'-0"
100'-0"
150'-0"
200'-0"
250'-0"
300'-0"
GRAPHIC SCALE
(Open Drainage Area - No Strucutres)
DENOTES LINE OF EXIST R.O.W.
DOT HATCH DENOTES THE 8,095 SF OF ROW BEING DEDICATED
DENOTES LINE OF NEW R.O.W./ PROPERTY ALONG NORTH OF SUBJECT PROPERTY
10FT X 8FT FREESTANDING SIGN SEE NOTES ON THIS SHEET
DENOTES EDGE OF EXISTING PAVEMENT ALONG 7TH AVE. NORTH (REFER TO SURVEY & CIVIL DOCS FOR NEW ROADWAYIMPROVEMENTS)
88'-4 3/8" PROPOSED BLDG SIDE SETBACK FROM THE WEST
7TH AVENUE NORTH
S88°07'43"E 400.75'
35'-0"
35'-0"
70'-0" R.O.W.
20'-0" ROW DED.
KNOX BOX WALL MTD
EGRESS GATE
20FT SETBACK
32FT SETBACK
22'-7 7/8" PROPOSED SETBACK
EL. 31'-0" T.O. PARAPET
PAIR 20FT ROLL GATES
63 Pking Stalls
18'-0" ROLL GATE
20'-0" SWING GATE
2 A-0.4 TYP.
45'-0"
30'-0"
35'-0"
36'-0"
45'-0"
R25'-0"
35'-0"
8"
8'-0" LNDSCP
MAIN ENTRY
2-story Office 20,150 GSF
41'-4 1/4"
EL. 38'-6" T.O. PANEL
F.H.
18'-0"
30'-0"
R35'-0"
F.D.C. & D.D.C.V.
191'-11" PROPOSED SIDE SETBACK FROM EASTERN PROPERTY LINE
FPL TX & PAD
R90'-0"
DENOTES TRANSFORMER CLEARANCE. 8FT MIN. IN FRONT AND MIN. 3 FT ON SIDES AND BACK
DENOTES NEW 6FT HIGH PRE-CAST CONC SCREEN WALL ALONG ENTIRE LENGTH OF WESTERN PROPERTY LINE
PAIR 16'-0" ROLL GATES
DENOTES CANAL RIGHT-OF-WAY LINE
DENOTES NEW CONTINUOUS 8 FT HIGH, GALV. CLF ALONG EASTERN PROPERTY LINE OFFSET 1'-0" (TYP)
DENOTES PROPERTY LINE (TYP)
23RD AVENUE NORTH
Marlin Industrial Park LOT 5 I-POC ZONING
90'-0"
20'-0" CANAL MAINT ESMT
23'-3" VARIES
5'-0" LNDSCP
5'-0" LNDSCP
5" COL. PRECAST WALL
DENOTES APPROX EDGE OF EXIST CANAL BANK
1-story MAINT. SHOP/ WAREHOUSE 26,617 GSF
222'-5 3/4"
10'-0" EXIST U.E.
Marlin Industrial Park LOT 6 I-POC ZONING
30'-0"
90'-0"
18'-0"
8" CURB
50'-0"
120'-0"
EL. 27'-0" T.O. RIDGE
40'-0"
LAKE WORTH DRAINAGE DISTRICT E-4 CANAL (UNINCORPORATE P.B.C.)
N23°11'33"E 931.08'
OUTDOOR OPEN AIR CANOPY STRUCTURE 11,160 GSF
93'-0"
63'-0"
OUTDOOR STORAGE AREA 104,342 SF
S01°25'48"E 656.70'
Marlin Industrial Park LOT 7 I-POC ZONING
R180'-0"
901'-7 5/16"
90'-0"
3 A-0.4
76'-11 1/8"
DOUBLE DUMPSTER ENCLOSURE
12'-0"
18'-0"
8'-0"
6'-0"
8"
54'-0"
F.H.
1 A-0.4
200'-0" CANAL R.O.W.
Marlin Industrial Park TRACT "A-1" I-POC ZONING 'Open Drainage Area'
8'-0"
12'-0"
20'-0"
8"
35'-0"
6'-0"
254'-8"
30'-0 5/16"
8'-0" LNDSCP
8" CURB
R30'-0"
10'-0" EXIST U.E.
20'-0" CANAL MAINT ESMT
5'-0" LNDSCP
5" COL. PRECAST WALL
2'-7" LNDSCP
20'-0" L.M.E.
12'-0"
8'-0"
R30'-0"
35'-0"
8" CURB
DENOTES EDGE OF PAVEMENT (TYP)
LAKE 97,264 sf or 2.23 Acres
437'-11 3/8" PROPOSED REAR SETBACK
N88°07'04"W 331.03'
10'-0" LNDSCP
NEW 8 FT HIGH, GALV. CLF OFFSET 1'-0" FROM PROPERTY LINE (TYP)
DENOTES NEW 6FT HIGH PRE-CAST CONC SCREEN WALL ALONG ENTIRE LENGTH OF WESTERN PROPERTY LINE
DENOTES LINE OF LAKE MAINT ESMT (TYP)
DENOTES LINE OF TOP OF BANK (TYP)
DENOTES LINE OF EDGE OF WATER (TYP)
TRACT "A-2"
S01°46'43"W 210.81'
Marlin Industrial Park I-POC ZONING 'Open Drainage Area'
Marlin Commerce Center LOT 15 I-POC ZONING
20'-0" LAKE MAINT ESMT
DENOTES LINE OF REQUIRED 91'-0" REAR SETBACK (BASED UPON 910 FOOT LOT DEPTH).
91'-0" REQ'D REAR SETBACK
8'-0"
4'-0"
12'-0"
NEW 8 FT HIGH, GALV. CLF OFFSET 1'-0" FROM PROPERTY LINE (TYP)
23rd AVENUE SOUTH
1 A-0.3
N88°07'04"W 414.88'
TRACT 81
EXISTING FENCELINE AND TREE LINE ON ADJACENT RESID PROPERTY
PRE-CAST CONC SCREEN WALL, OFF SET 1'-0' FROM SOUTHERN PROPERTY LINE.
LOT 14
Oakwood Apartments MU-W ZONING

NOTE: REFER TO ARCH COVER SHEET A0.0 FOR SITE DATA TABLE / SITE & PARKING STATS

CHAIN LINK FENCE AND ENTRY GATE NOTES:

- ALL FENCES AND GATES SHALL 8FT HIGH, GALVANIZED, CHAIN LINK W/ GALVANIZED POSTS.
- GATES SHALL REMAIN OPEN DURING HOURS OF OPERATION.
- REFER TO KNOX BOX LOCATION ON THIS SHEET FOR FIRE DEPT ACCESS DURING AFTER HOURS

PRECAST CONCRETE SCREEN WALL NOTES:

- WALLS ARE APPROX 2.5" THICK CONCRETE PANELS SET IN 5" X 5" CONCRETE POSTS AT APPROX 5FT ON CENTER
- OVERALL HEIGHT OF PRECAST CONCRETE WALLS SHALL BE 6 FEET.
- REFER TO A0.3 FOR DETAILS AND LANDSCAPE DOCS FOR MORE INFO..

SIGNAGE NOTES:

- FACILITY'S REGULATORY SIGNS MOUNTED TO CHAIN LINK ROLLING GATES TO BE PROVIDED BY OTHERS.
- MAXIMUM COMBINED SIGN AREA ALLOWED =150 SF. (408 L.F. OF FRONTAGE)
  - -MAX WALL SIGN AREA PROPOSED 70 SF (100 SF ALLOWED) - SEE ELEV.
  - -MAX FREESTANDING SIGN PROPOSED 80 SF (200 SF ALLOWED)
  - -TOTAL SIGN AREA PROPOSED = 150 SF
- ALL SIGNS SHALL WITHSTAND WIND PRESSURES PER ASCE-7.
- ANY/ALL SIGNS REQUIRED TO BE PERMITTED SHALL HAVE PROPER LABELS AFFIXED TO SUCH SIGN AS REQUIRED.
- WALL MOUNTED AND FREESTANDING SIGNS SHOWN FOR CODE COMPLIANCE ONLY AND ARE NOT INTENDED TO BE CONSTRUCTED WITH THIS PROJECT.

1
1"=50'-0"

PROPOSED SITE PLAN

UMDASCH REAL ESTATE USA, LTD

Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION
1	2020-11-13 SITE PLAN APPLICATION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

HNM PROJECT NUMBER:
19-009.1

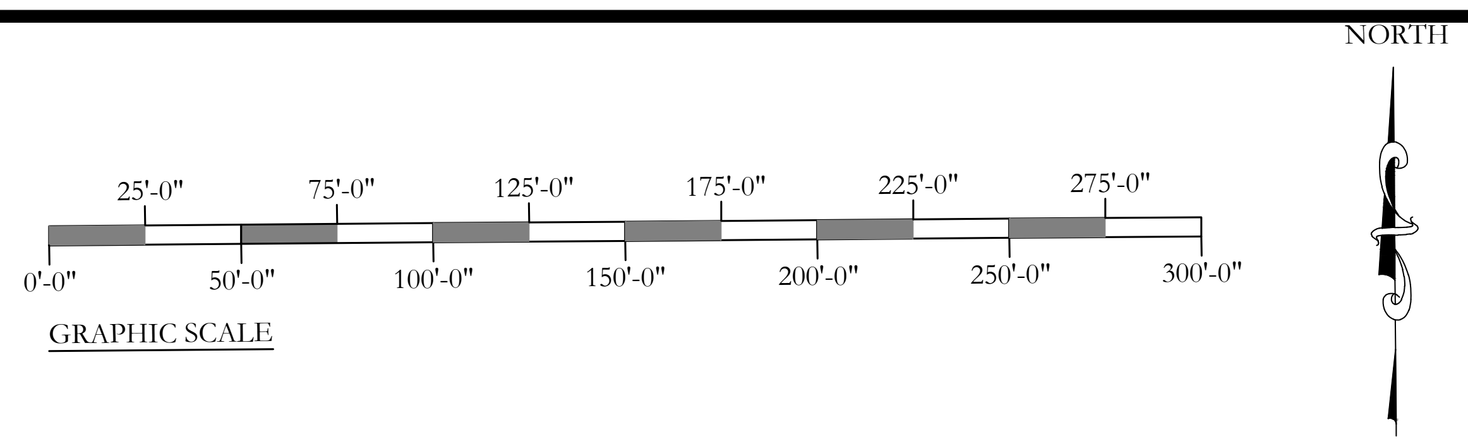
ISSUED DATE:
2020-11-13

SCALE:
1" = 50'-0"

N

TITLE:
SITE PLAN

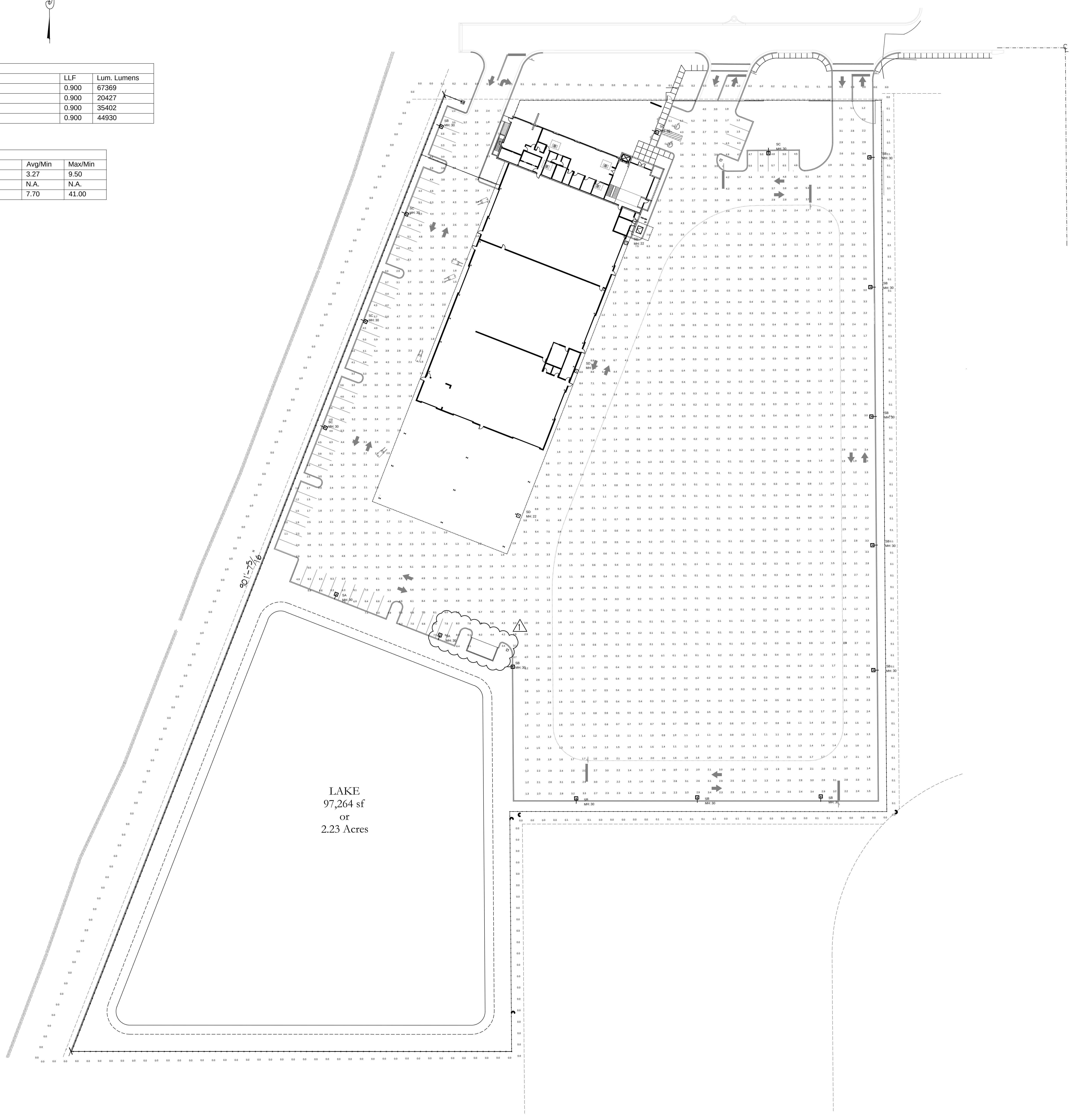
DRAWING NUMBER:
A-0.1



Luminaire Schedule					
Symbol	Qty	Label	Description	LLF	Lum. Lumens
—⊡	2	SA	CREE LTG#: OSQ-HO-A-NM-4ME-65L-40K-UL-BZ / MTD AT 30' AFG	0.900	67369
—⊡	10	SB	CREE LTG#: OSQ-A-4ME-U-40K-UL-BLS / MTD AT 30' AFG	0.900	20427
—⊡	5	SC	CREE LTG#: OSQ-HO-A-4ME-40L-40K-UL--BLSF / MTD AT 30' AFG	0.900	35402
⊡	3	SD	CREE LTG#: OSQ-HO-A-4ME-40L-40K-UL / WALL MTD AT 25' AFG	0.900	44930

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING AREAS	Illuminance	Fc	3.27	9.5	1.0	3.27	9.50
PROPERTY LINE	Illuminance	Fc	0.02	0.3	0.0	N.A.	N.A.
STORAGE LOT AREA	Illuminance	Fc	0.77	4.1	0.1	7.70	41.00

Filename: 2209-Site-2020-08-19.AGI



1
1"=50'-0"

PROPOSED SITE PLAN

UMDASCH REAL ESTATE USA, LTD

Office/Industrial Facility at

2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION
1	2020-11-13 SITE PLAN APPLICATION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

HNM PROJECT NUMBER:
19-009.1

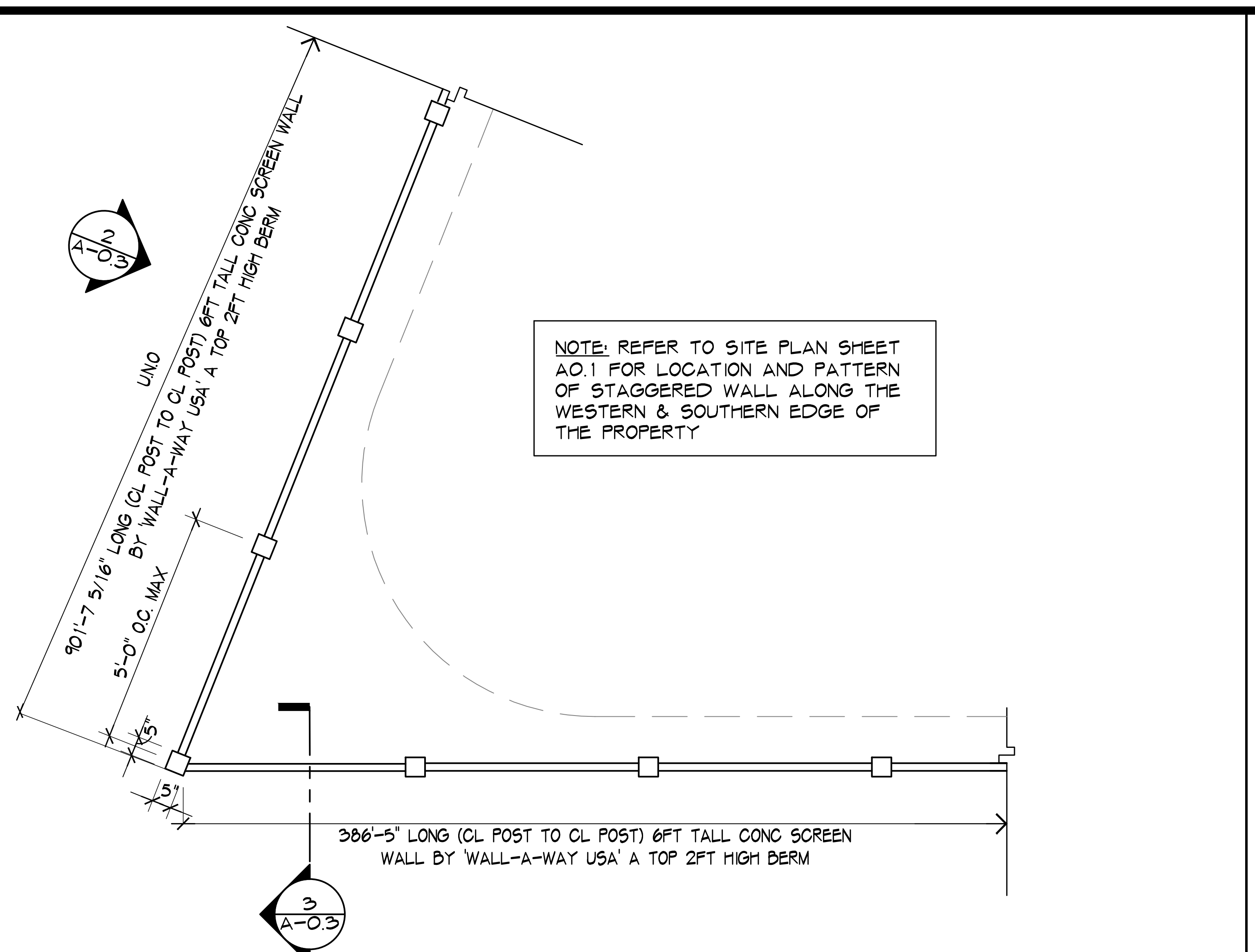
ISSUED DATE:
2020-11-13

SCALE:
1" = 50'-0"

N

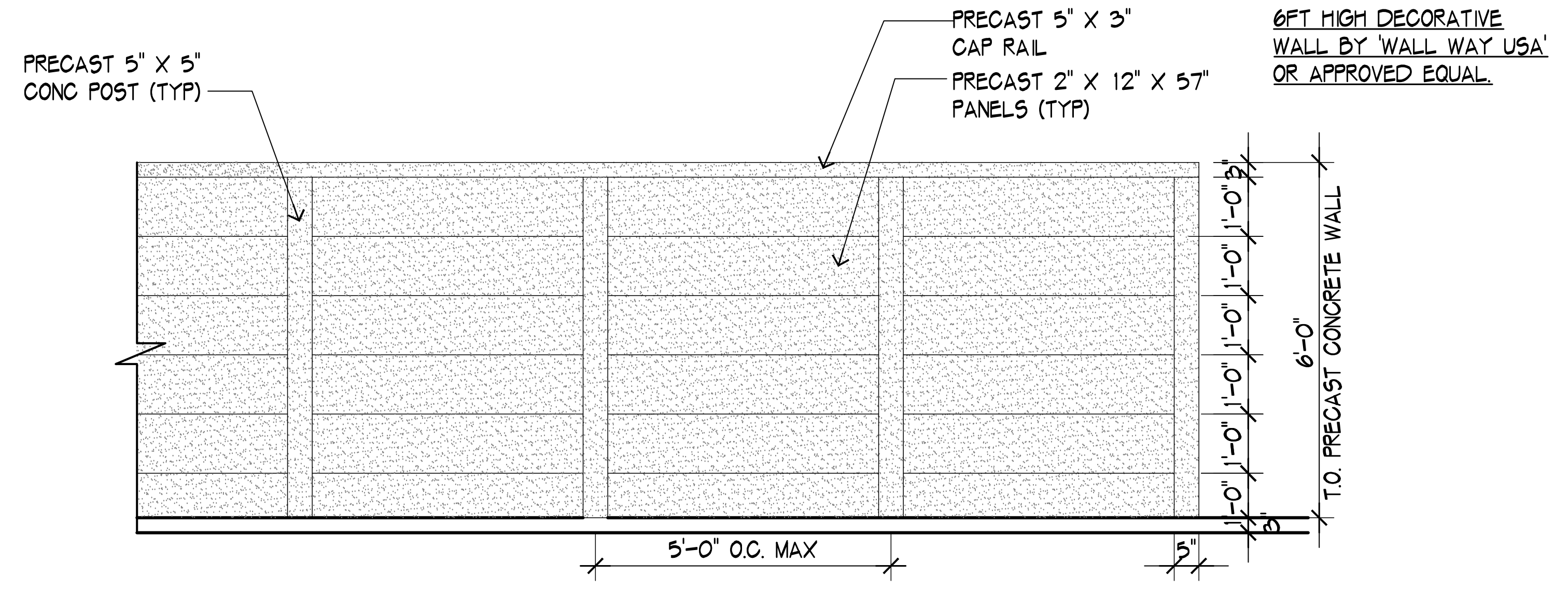
TITLE:
PHOTOMETRICS
SITE PLAN

DRAWING NUMBER:
A-0.2

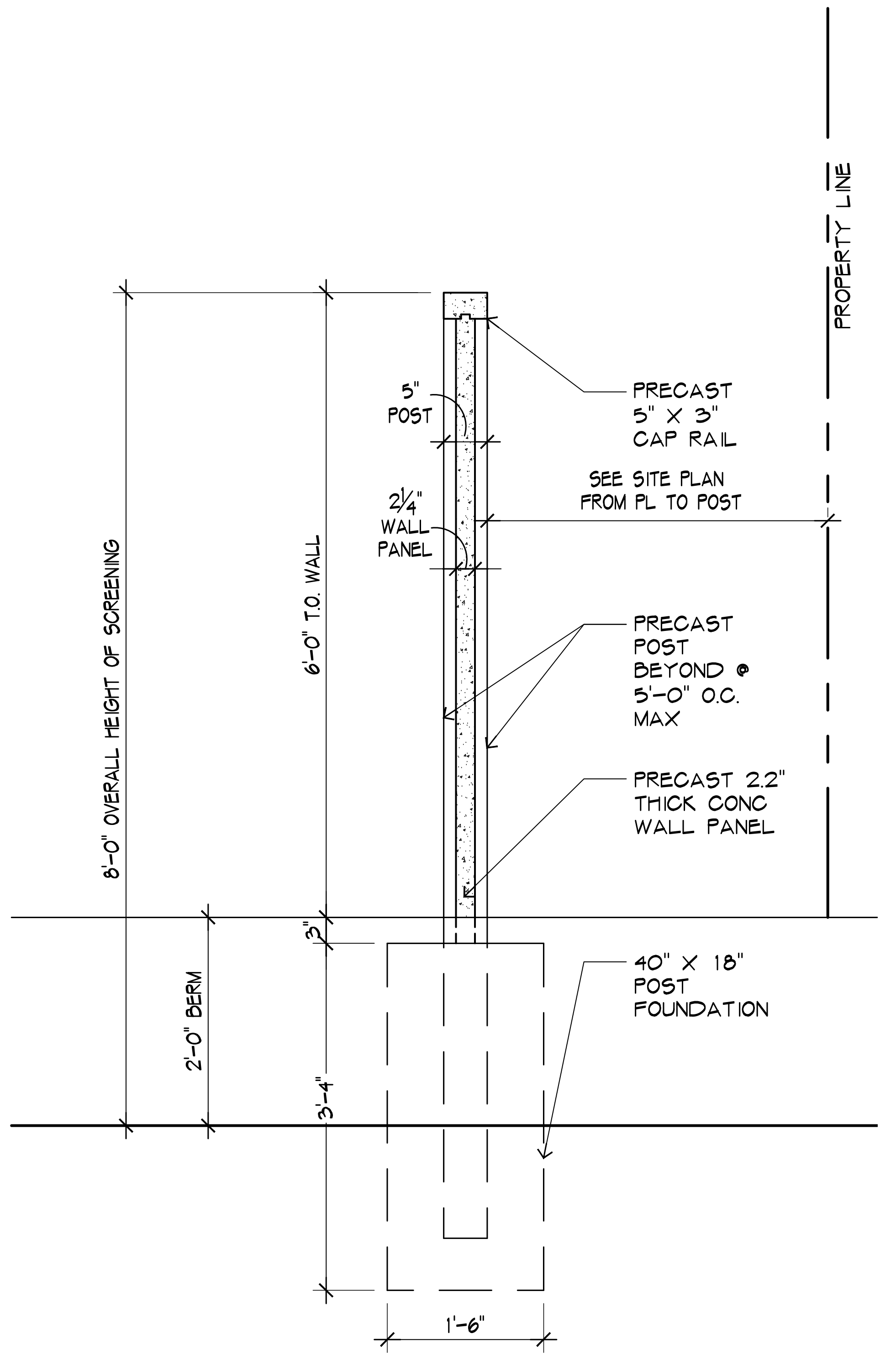

2
A-0.3
U.N.O
901'-7 5/16" LONG (CL POST TO CL POST) 6FT TALL CONC SCREEN WALL BY 'WALL-A-WAY USA' A TOP 2FT HIGH BERM
5'-0" O.C. MAX
5"
5"
386'-5" LONG (CL POST TO CL POST) 6FT TALL CONC SCREEN WALL BY 'WALL-A-WAY USA' A TOP 2FT HIGH BERM
3
A-0.3

NOTE: REFER TO SITE PLAN SHEET AO.1 FOR LOCATION AND PATTERN OF STAGGERED WALL ALONG THE WESTERN & SOUTHERN EDGE OF THE PROPERTY

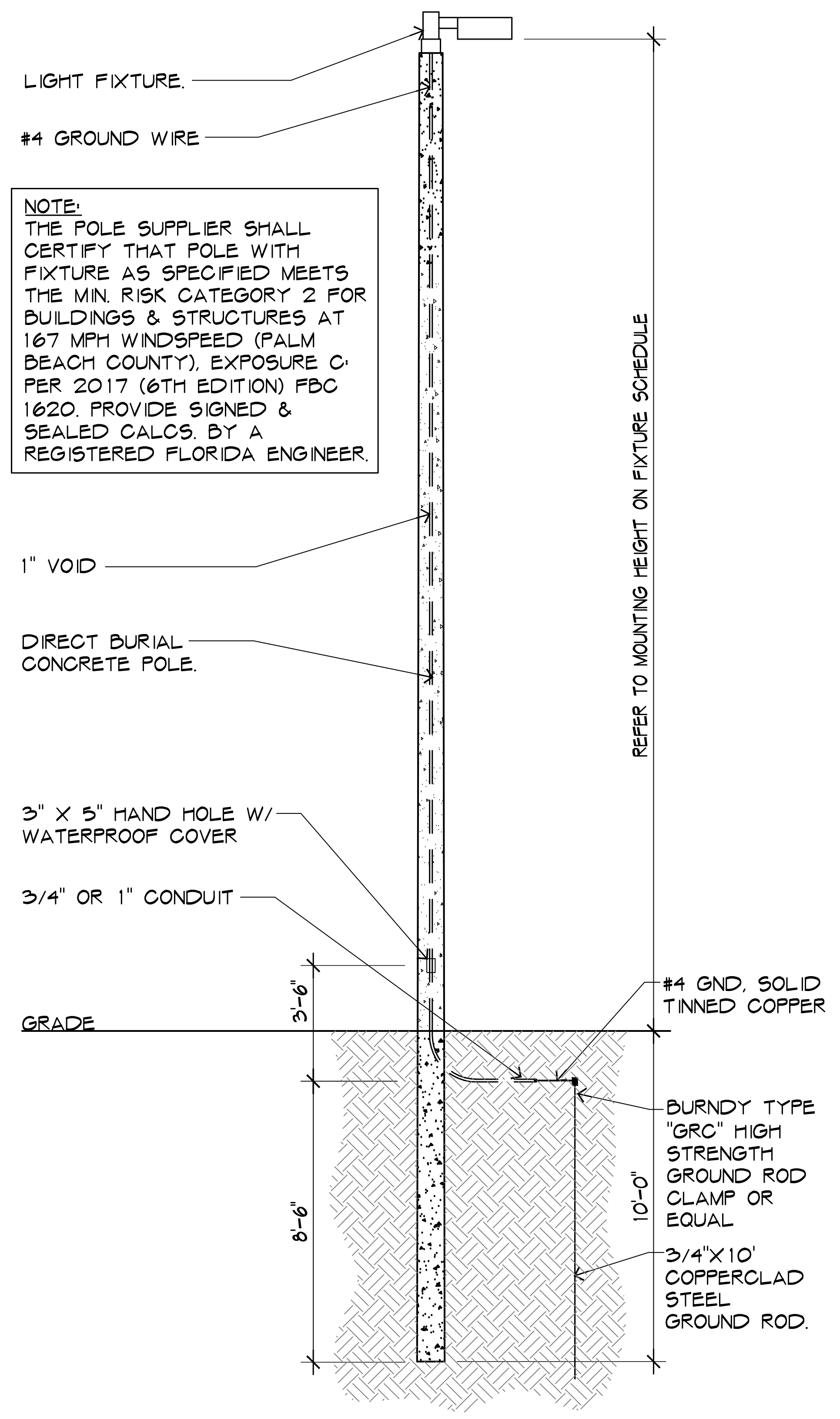
1 — 1/2"=1'-0" PRECAST CONC. WALL - TYP. PLAN DET.


PRECAST 5" X 5" CONC POST (TYP)
PRECAST 5" X 3" CAP RAIL
PRECAST 2" X 12" X 57" PANELS (TYP)
6FT HIGH DECORATIVE WALL BY 'WALL WAY USA' OR APPROVED EQUAL.
3"
1'-0"
1'-0"
1'-0"
1'-0"
1'-0"
1'-0"
3"
6'-0"
T.O. PRECAST CONCRETE WALL
5'-0" O.C. MAX
5"

2 — 3/8"=1'-0" PRECAST CONC. WALL - ELEV. DET.


PROPERTY LINE
PRECAST 5" X 3" CAP RAIL
5" POST
SEE SITE PLAN FROM PL TO POST
2¼" WALL PANEL
PRECAST POST BEYOND @ 5'-0" O.C. MAX
PRECAST 2.2" THICK CONC WALL PANEL
8'-0" OVERALL HEIGHT OF SCREENING
6'-0" T.O. WALL
3"
2'-0" BERM
3'-4"
40" X 18" POST FOUNDATION
1'-6"

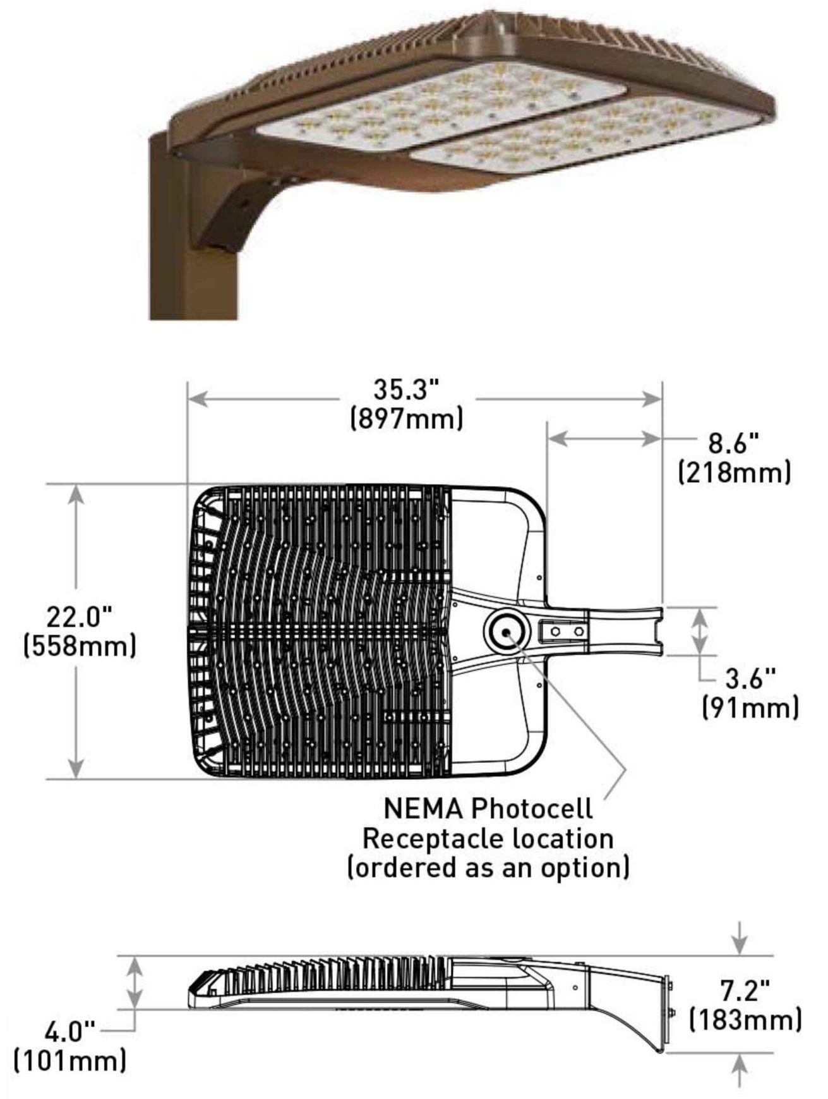
3 — 3/4"=1'-0" PRECAST CONC. WALL- SECTION


LIGHT FIXTURE.
#4 GROUND WIRE
1" VOID
DIRECT BURIAL CONCRETE POLE.
3" X 5" HAND HOLE W/ WATERPROOF COVER
3/4" OR 1" CONDUIT
GRADE
3'-6"
8'-6"
REFER TO MOUNTING HEIGHT ON FIXTURE SCHEDULE
#4 GND. SOLID TINNED COPPER
BURNDY TYPE "GRC" HIGH STRENGTH GROUND ROD CLAMP OR EQUAL
10'-0"
3/4"X10' COPPERCLAD STEEL GROUND ROD.

NOTE:
THE POLE SUPPLIER SHALL CERTIFY THAT POLE WITH FIXTURE AS SPECIFIED MEETS THE MIN. RISK CATEGORY 2 FOR BUILDINGS & STRUCTURES AT 167 MPH WINDSPEED (PALM BEACH COUNTY), EXPOSURE C: PER 2017 (6TH EDITION) FBC 1620. PROVIDE SIGNED & SEALED CALCS. BY A REGISTERED FLORIDA ENGINEER.

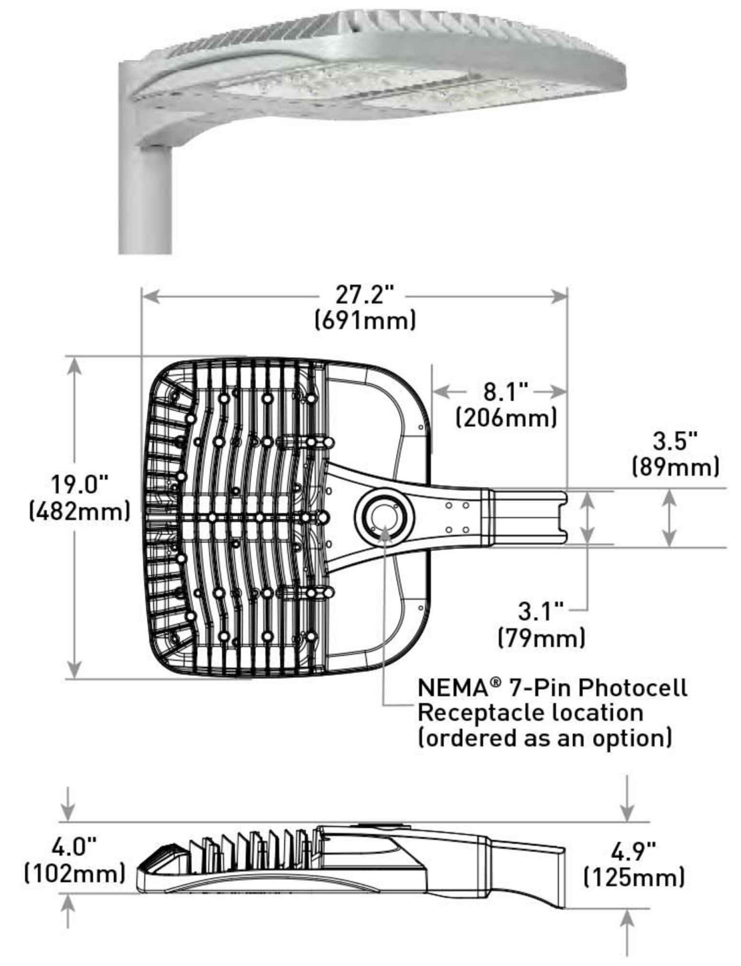
4 — 1/4"=1'-0" TYP. LIGHT POLE DTL.

TYPE SA, SC, SD


35.3"
(897mm)
8.6"
(218mm)
22.0"
(558mm)
3.6"
(91mm)
NEMA Photocell Receptacle location (ordered as an option)
4.0"
(101mm)
7.2"
(183mm)

Lumen Package	Voltage	Weight
40/50L	120-480V	70.0 lbs. (31.8kg)
65L	120-480V	72.0 lbs. (32.7kg)

TYPE SB


27.2"
(691mm)
8.1"
(206mm)
3.5"
(89mm)
19.0"
(482mm)
3.1"
(79mm)
NEMA® 7-Pin Photocell Receptacle location (ordered as an option)
4.0"
(102mm)
4.9"
(125mm)

Weight
32.4 lbs. (14.7kg)

5 — N.T.S. LIGHT POLE HEAD DETAILS

UMDASCH REAL ESTATE USA, LTD

Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

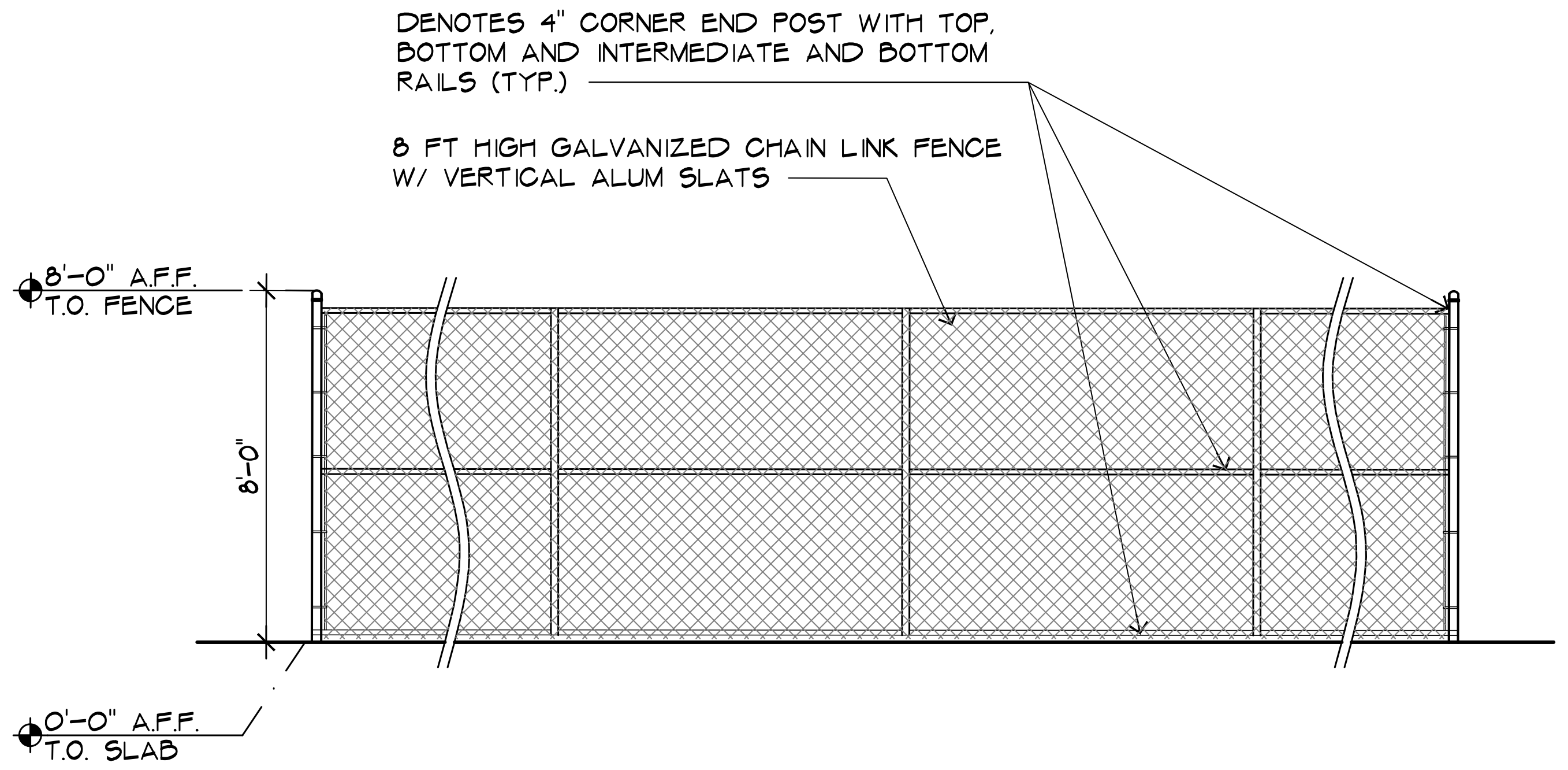
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

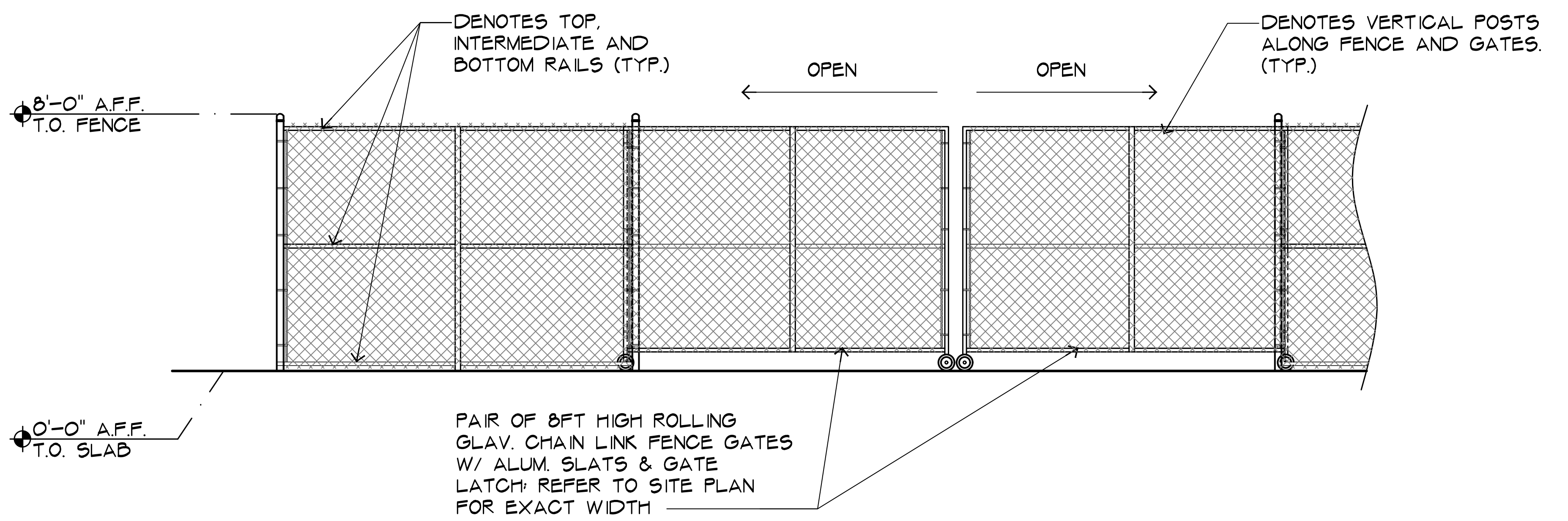
SCALE:
AS NOTED

TITLE:
SITE DETAILS

DRAWING NUMBER:
A-0.3

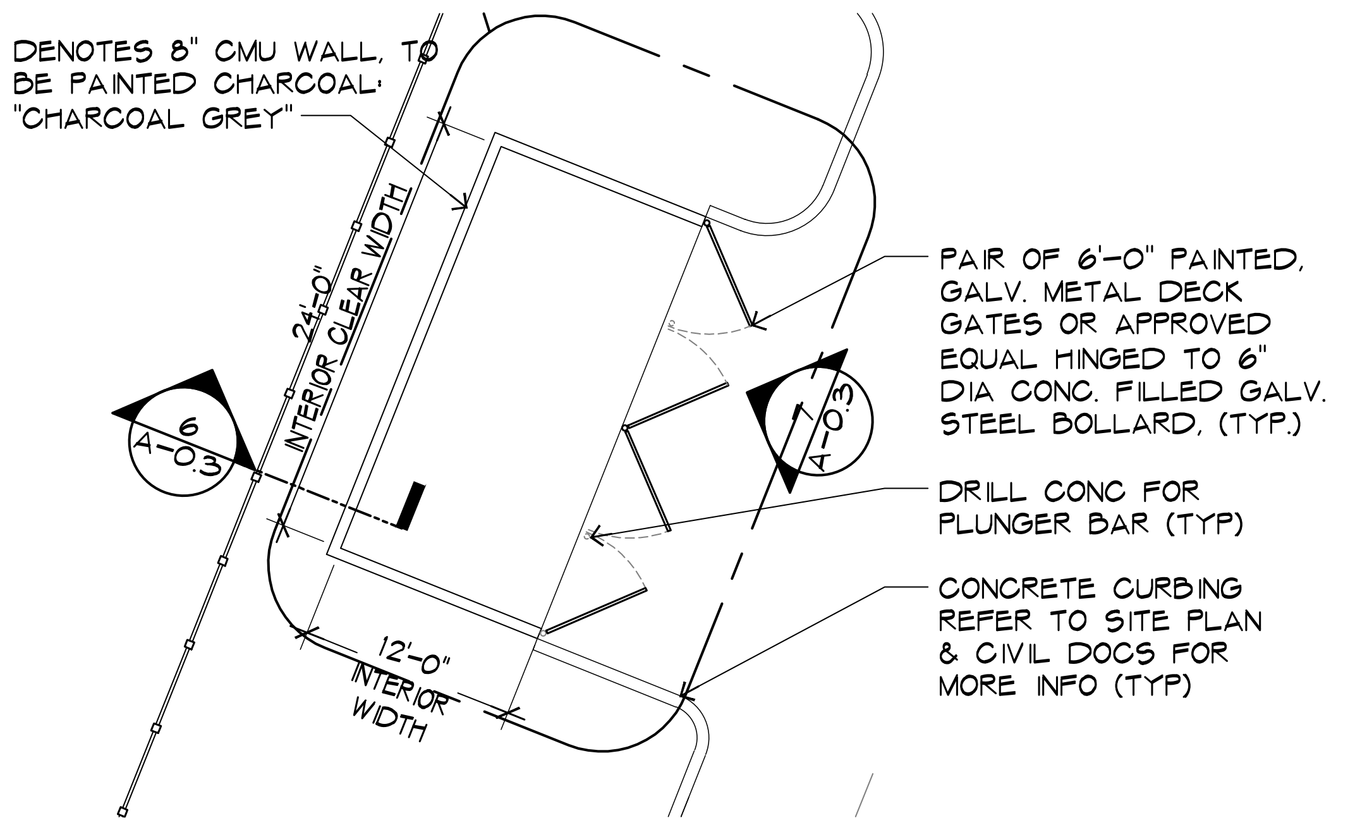

DENOTES 4" CORNER END POST WITH TOP, BOTTOM AND INTERMEDIATE AND BOTTOM RAILS (TYP.)
8 FT HIGH GALVANIZED CHAIN LINK FENCE W/ VERTICAL ALUM SLATS
8'-0" A.F.F. T.O. FENCE
8'-0"
0'-0" A.F.F. T.O. SLAB

1 CHAIN LINK FENCE - TYP. ELEVATION DETAIL
1/4"=1'-0"


DENOTES TOP, INTERMEDIATE AND BOTTOM RAILS (TYP.)
OPEN
OPEN
DENOTES VERTICAL POSTS ALONG FENCE AND GATES. (TYP.)
8'-0" A.F.F. T.O. FENCE
0'-0" A.F.F. T.O. SLAB
PAIR OF 8FT HIGH ROLLING GLAV. CHAIN LINK FENCE GATES W/ ALUM. SLATS & GATE LATCH; REFER TO SITE PLAN FOR EXACT WIDTH

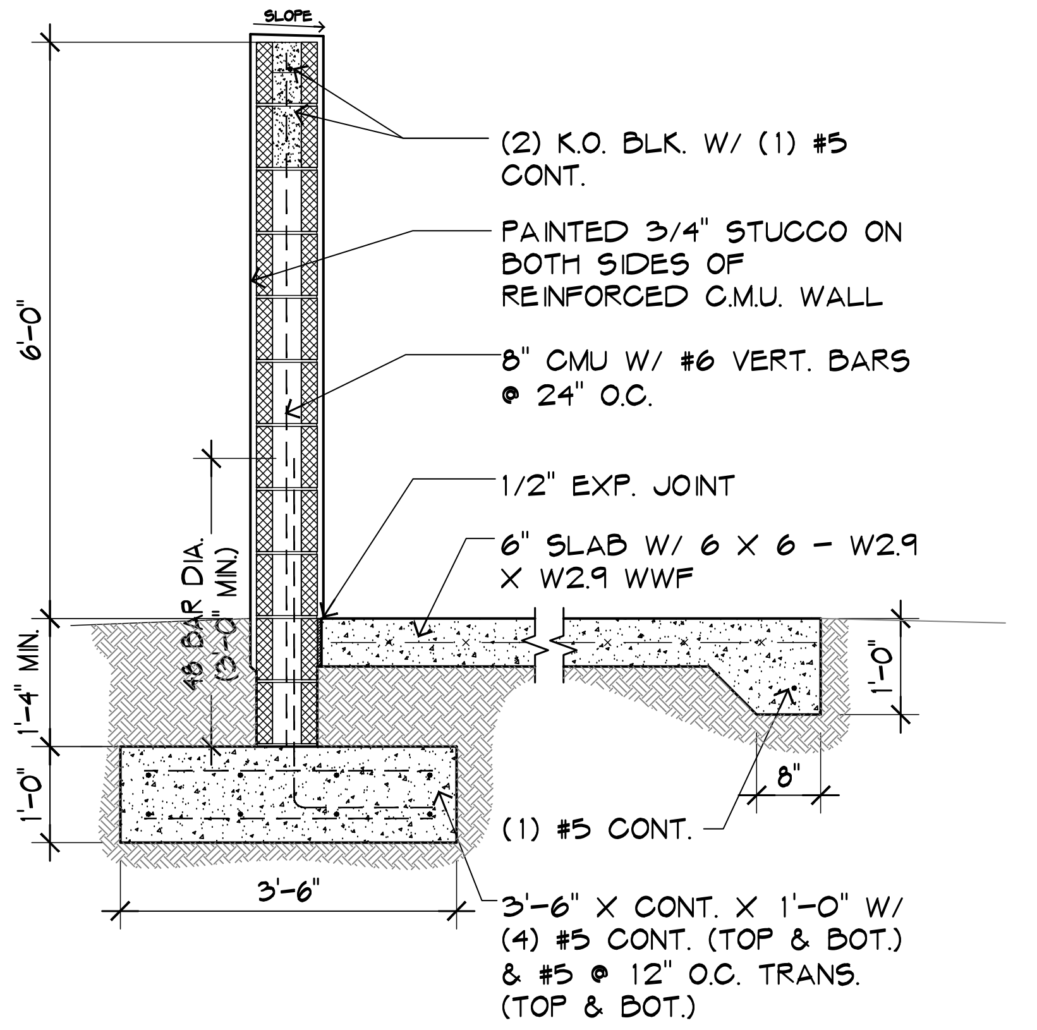
2 ROLLING GATES - TYP. ELEVATION DETAIL
1/4"=1'-0"

NOTE: REFER TO SITE PLAN FOR ORIENTATION OF WALL ENCLOSURE.

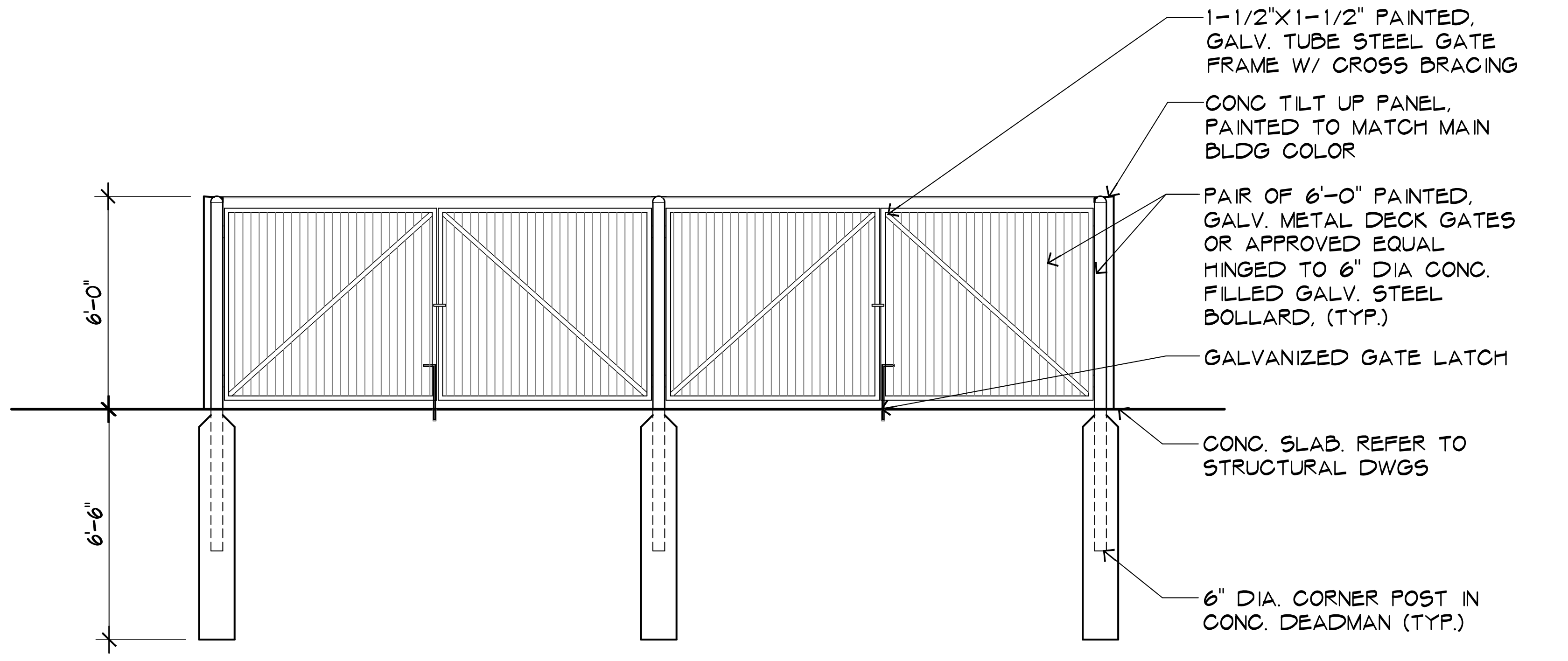

DENOTES 8" CMU WALL, TO BE PAINTED CHARCOAL: "CHARCOAL GREY"
24'-0"
INTERIOR CLEAR WIDTH
6
A-0.3
7
A-0.3
12'-0"
INTERIOR WIDTH
PAIR OF 6'-0" PAINTED, GALV. METAL DECK GATES OR APPROVED EQUAL HINGED TO 6" DIA CONC. FILLED GALV. STEEL BOLLARD, (TYP.)
DRILL CONC FOR PLUNGER BAR (TYP)
CONCRETE CURBING REFER TO SITE PLAN & CIVIL DOCS FOR MORE INFO (TYP)

HARDWARE NOTES:
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DUMPSTER GATES AND HARDWARE.
- LATCHING: LOCKABLE FOR LATCH & BOTTOM PLUNGER BAR
- GATE POST: 3-1/2" DIA. GALV. STEEL TUBE
- GATE FRAMES: 1-1/2"X1-1/2" GALV. STEEL TUBE
- HINGES: NON-LIFT-OFF TYPICAL S.S. PIN OFFSET FOR 180 DEGREE GATE SWING - 3 PER LEAF

3 DUMPSTER ENC. PLAN
3/32"=1'-0"


SLOPE
6'-0"
(2) K.O. BLK. W/ (1) #5 CONT.
PAINTED 3/4" STUCCO ON BOTH SIDES OF REINFORCED C.M.U. WALL
8" CMU W/ #6 VERT. BARS @ 24" O.C.
1/2" EXP. JOINT
6" SLAB W/ 6 X 6 - W2.9 X W2.9 WWF
48 BAR DIA. (3'-0" MIN.)
1'-4" MIN.
1'-0"
1'-0"
8"
(1) #5 CONT.
3'-6"
3'-6" X CONT. X 1'-0" W/ (4) #5 CONT. (TOP & BOT.) & #5 @ 12" O.C. TRANS. (TOP & BOT.)

4 C.M.U WALL SECTION
1/2"=1'-0"


1-1/2"X1-1/2" PAINTED, GALV. TUBE STEEL GATE FRAME W/ CROSS BRACING
CONC TILT UP PANEL, PAINTED TO MATCH MAIN BLDG COLOR
PAIR OF 6'-0" PAINTED, GALV. METAL DECK GATES OR APPROVED EQUAL HINGED TO 6" DIA CONC. FILLED GALV. STEEL BOLLARD. (TYP.)
GALVANIZED GATE LATCH
CONC. SLAB, REFER TO STRUCTURAL DWGS
6" DIA. CORNER POST IN CONC. DEADMAN (TYP.)
6'-0"
6'-6"

5 DUMPATER ELEVATION
1/4"=1'-0"

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

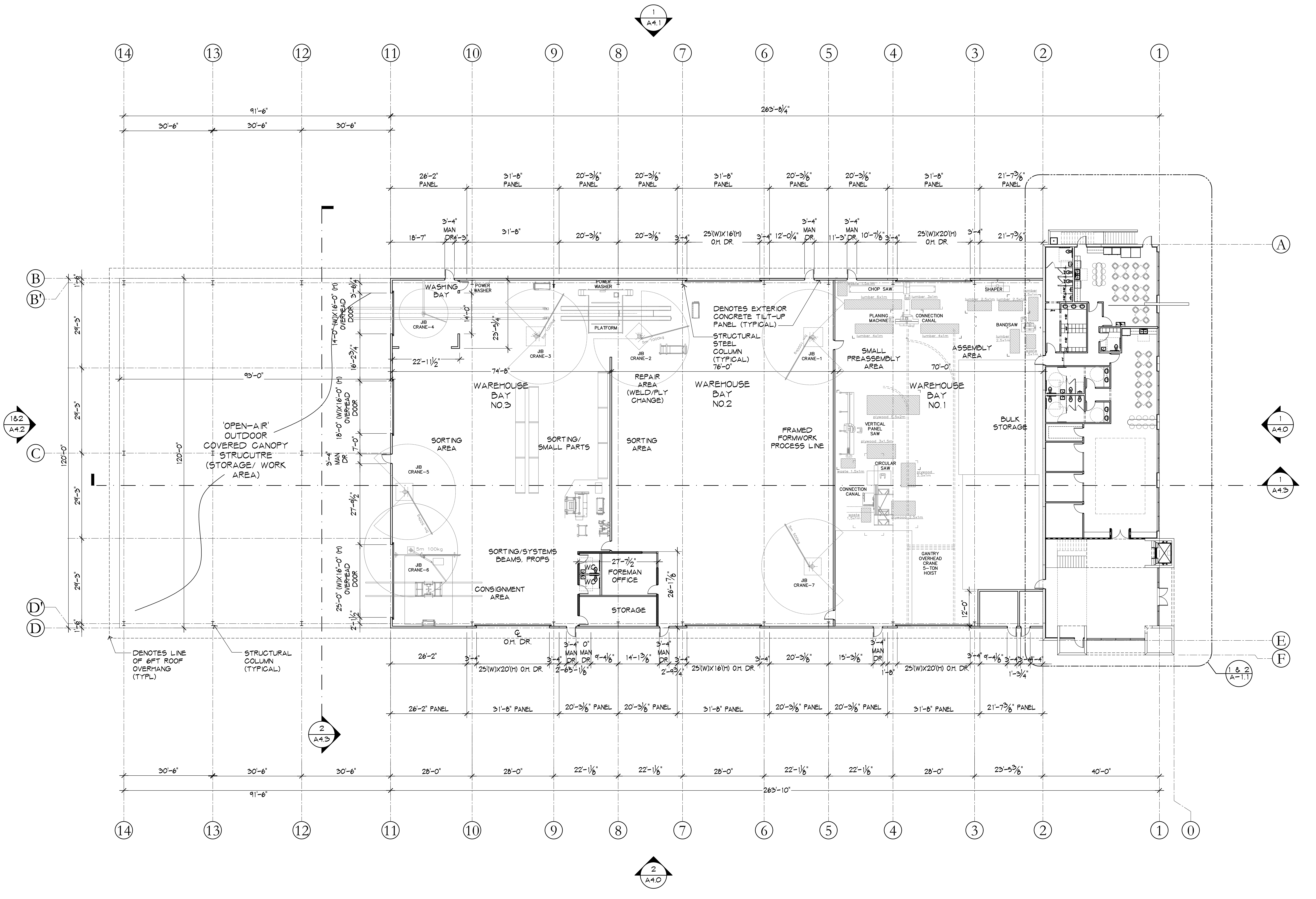
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

SCALE:
AS NOTED

TITLE:
SITE DETAILS

DRAWING NUMBER:
A-0.4



WASHING BAY
POWER WASHER
JIB CRANE-4
JIB CRANE-3
PLATFORM
JIB CRANE-2
JIB CRANE-1
REPAIR AREA (WELD/PLY CHANGE)
WAREHOUSE BAY NO.3
WAREHOUSE BAY NO.2
WAREHOUSE BAY NO.1
DENOTES EXTERIOR CONCRETE TILT-UP PANEL (TYPICAL)
STRUCTURAL STEEL COLUMN (TYPICAL)
CHOP SAW
PLANING MACHINE
CONNECTION CANAL
SHAPER
BANDSAW
SMALL PREASSEMBLY AREA
ASSEMBLY AREA
BULK STORAGE
VERTICAL PANEL SAW
CIRCULAR SAW
CONNECTION CANAL
GANTRY OVERHEAD CRANE 5-TON HOIST
JIB CRANE-7
FRAMED FORMWORK PROCESS LINE
SORTING AREA
SORTING/ SMALL PARTS
SORTING AREA
JIB CRANE-5
JIB CRANE-6
SORTING/SYSTEMS BEAMS, PROPS
CONSIGNMENT AREA
FOREMAN OFFICE
STORAGE
'OPEN-AIR' OUTDOOR COVERED CANOPY STRUCUTRE (STORAGE/ WORK AREA)
DENOTES LINE OF 6FT ROOF OVERHANG (TYPL)
STRUCTURAL COLUMN (TYPICAL)
14'-0" (W)X16'-0" (H) OVERHEAD DOOR
18'-0" (W)X16'-0" (H) OVERHEAD DOOR
25'-0" (W)X16'-0" (H) OVERHEAD DOOR
25'(W)X16'(H) O.H. DR.
25'(W)X20'(H) O.H. DR.
3'-4" MAN DR.
263'-8¼"
263'-10"
91'-6"
30'-6"
120'-0"
93'-0"
74'-8"
76'-0"
70'-0"
14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
A B B' C D D' E F
1 A4.1
2 A4.0
1 A4.0
1 A4.3
2 A4.3
1&2 A4.2
1 & 2 A-1.1
N

UMDASCH REAL ESTATE USA, LTD

Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

HNM PROJECT NUMBER:
19-009.1

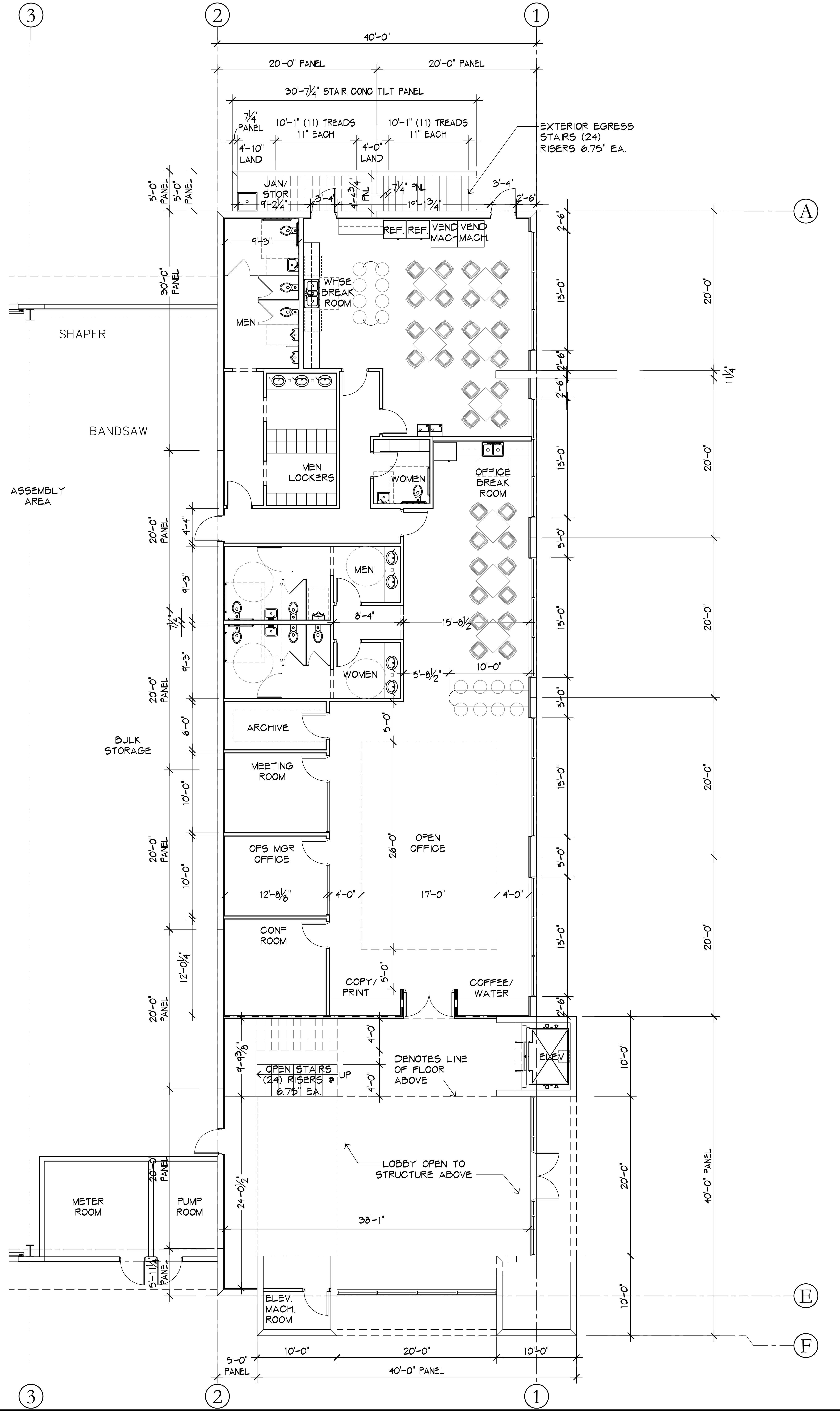
ISSUED DATE:
2020-09-02

SCALE:
1/16" = 1'-0"

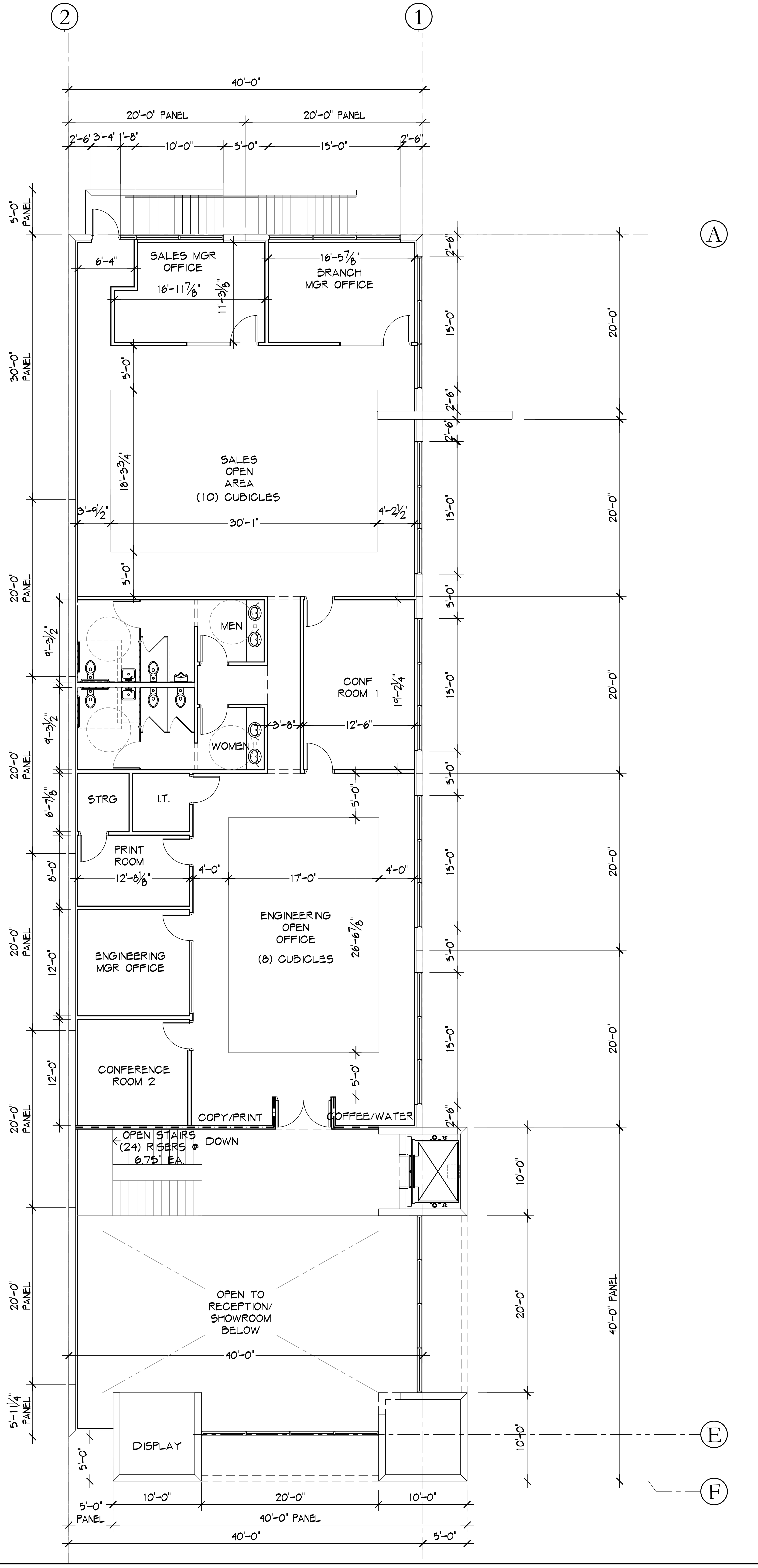
TITLE:
OVERALL
BUILDING
FLOOR PLAN

DRAWING NUMBER:
A1.0

1
1/16" = 1'-0"
FLOOR PLAN


3
2
1
40'-0"
20'-0" PANEL
20'-0" PANEL
30'-7¼" STAIR CONC TILT PANEL
7¼" PANEL
10'-1" (11) TREADS 11" EACH
10'-1" (11) TREADS 11" EACH
4'-10" LAND
4'-0" LAND
EXTERIOR EGRESS STAIRS (24) RISERS 6.75" EA.
JAN/STOR
9'-2¼"
7¼" PNL
19'-1¾"
3'-4"
2'-6"
REF
REF
VEND MACH
VEND MACH.
9'-3"
WHSE BREAK ROOM
MEN
SHAPER
MEN LOCKERS
WOMEN
OFFICE BREAK ROOM
BANDSAW
ASSEMBLY AREA
MEN
WOMEN
8'-4"
15'-8½"
5'-8½"
10'-0"
ARCHIVE
MEETING ROOM
BULK STORAGE
OPEN OFFICE
26'-0"
OPS MGR OFFICE
12'-8⅛"
4'-0"
17'-0"
4'-0"
CONF ROOM
COPY/PRINT
COFFEE/WATER
OPEN STAIRS (24) RISERS @ 6.75" EA.
UP
DENOTES LINE OF FLOOR ABOVE
ELEV
LOBBY OPEN TO STRUCTURE ABOVE
24'-0½"
38'-1"
METER ROOM
PUMP ROOM
ELEV. MACH. ROOM
5'-0" PANEL
30'-0" PANEL
20'-0" PANEL
20'-0" PANEL
20'-0" PANEL
20'-0" PANEL
40'-0" PANEL
10'-0"
20'-0"
10'-0"
40'-0" PANEL
15'-0"
5'-0"
20'-0"
11¼"
A
E
F

1 1/8" = 1'-0" OFFICE FIRST FLOOR PLAN


2
1
40'-0"
20'-0" PANEL
20'-0" PANEL
2'-6"
3'-4"
1'-8"
10'-0"
5'-0"
15'-0"
2'-6"
SALES MGR OFFICE
6'-4"
16'-11⅞"
11'-3⅛"
16'-5⅞"
BRANCH MGR OFFICE
SALES OPEN AREA (10) CUBICLES
18'-3¾"
30'-1"
3'-9½"
4'-2½"
MEN
CONF ROOM 1
19'-2¼"
12'-6"
WOMEN
3'-8"
STRG
I.T.
PRINT ROOM
12'-8⅛"
4'-0"
17'-0"
4'-0"
ENGINEERING OPEN OFFICE (8) CUBICLES
26'-6⅞"
ENGINEERING MGR OFFICE
CONFERENCE ROOM 2
COPY/PRINT
COFFEE/WATER
OPEN STAIRS (24) RISERS @ 6.75" EA
DOWN
OPEN TO RECEPTION/SHOWROOM BELOW
40'-0"
DISPLAY
5'-0" PANEL
30'-0" PANEL
20'-0" PANEL
20'-0" PANEL
20'-0" PANEL
20'-0" PANEL
40'-0" PANEL
10'-0"
20'-0"
10'-0"
40'-0" PANEL
40'-0"
5'-0"
A
E
F

2 1/8" = 1'-0" OFFICE SECOND FLOOR PLAN

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

HNM PROJECT NUMBER:
19-009.1

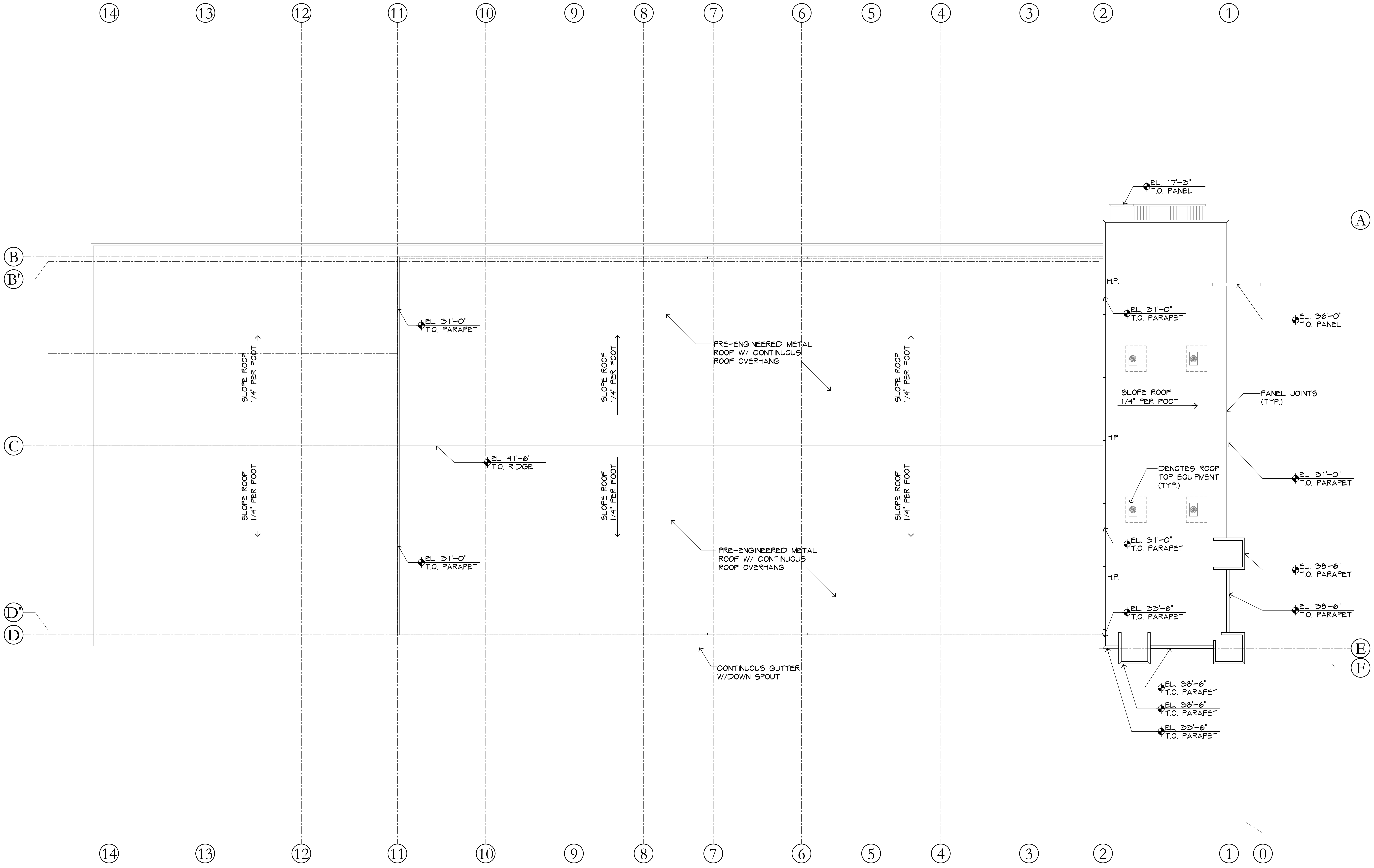
ISSUED DATE:
2020-09-02

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

N

TITLE:
ENLARGED
OFFICE FLOOR PLANS

DRAWING NUMBER:
A1.1


14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
A
B
B'
C
D'
D
E
F
EL. 17'-3"
T.O. PANEL
H.P.
EL. 31'-0"
T.O. PARAPET
EL. 36'-0"
T.O. PANEL
SLOPE ROOF
1/4" PER FOOT
PANEL JOINTS
(TYP.)
PRE-ENGINEERED METAL
ROOF W/ CONTINUOUS
ROOF OVERHANG
EL. 41'-6"
T.O. RIDGE
DENOTES ROOF
TOP EQUIPMENT
(TYP.)
EL. 38'-6"
T.O. PARAPET
EL. 33'-6"
T.O. PARAPET
CONTINUOUS GUTTER
W/DOWN SPOUT

NEW SHEET

1
1/16"=1'-0"
ROOF PLAN

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

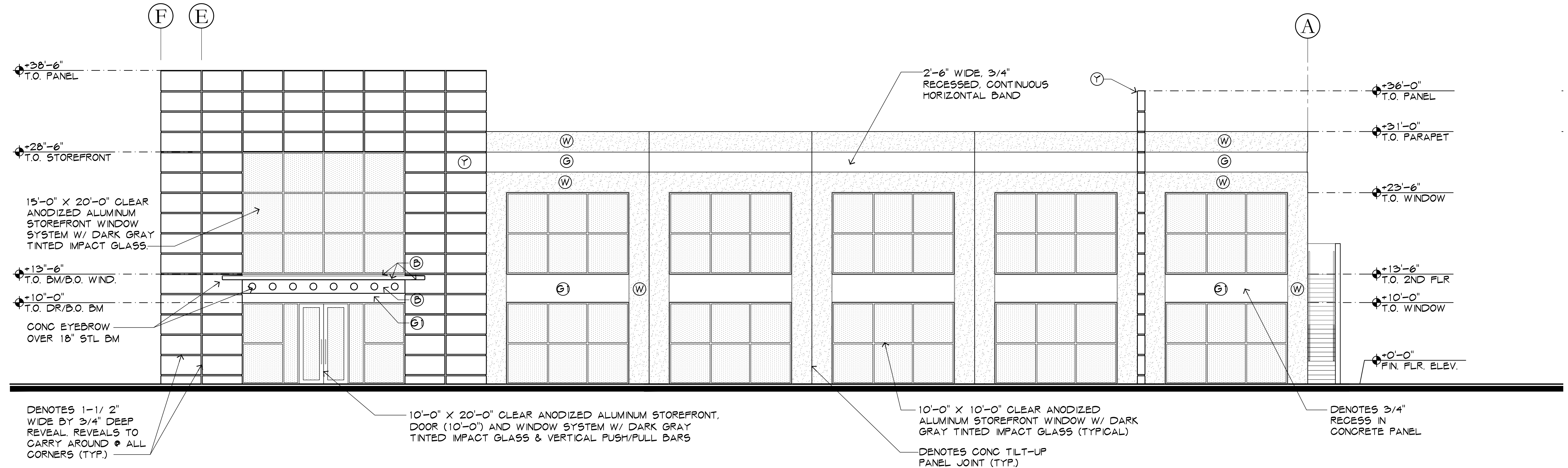
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-11-13

SCALE:
1/16"=1'-0"

TITLE:
ROOF PLAN

DRAWING NUMBER:
A-3.0


F
E
A
+38'-6"
T.O. PANEL
+28"-6"
T.O. STOREFRONT
15'-0" X 20'-0" CLEAR ANODIZED ALUMINUM STOREFRONT WINDOW SYSTEM W/ DARK GRAY TINTED IMPACT GLASS.
+13"-6"
T.O. BM/B.O. WIND.
+10"-0"
T.O. DR/B.O. BM
CONC EYEBROW OVER 18" STL BM
B
B
G1
Y
W
G
W
G1
W
DENOTES 1-1/ 2" WIDE BY 3/4" DEEP REVEAL. REVEALS TO CARRY AROUND @ ALL CORNERS (TYP.)
10'-0" X 20'-0" CLEAR ANODIZED ALUMINUM STOREFRONT, DOOR (10'-0") AND WINDOW SYSTEM W/ DARK GRAY TINTED IMPACT GLASS & VERTICAL PUSH/PULL BARS
2'-6" WIDE, 3/4" RECESSED, CONTINUOUS HORIZONTAL BAND
Y
10'-0" X 10'-0" CLEAR ANODIZED ALUMINUM STOREFRONT WINDOW W/ DARK GRAY TINTED IMPACT GLASS (TYPICAL)
DENOTES CONC TILT-UP PANEL JOINT (TYP.)
DENOTES 3/4" RECESS IN CONCRETE PANEL
+36'-0"
T.O. PANEL
+31'-0"
T.O. PARAPET
+23'-6"
T.O. WINDOW
+13'-6"
T.O. 2ND FLR
+10'-0"
T.O. WINDOW
+0'-0"
FIN. FLR. ELEV.

PAINT COLOR LEGEND:

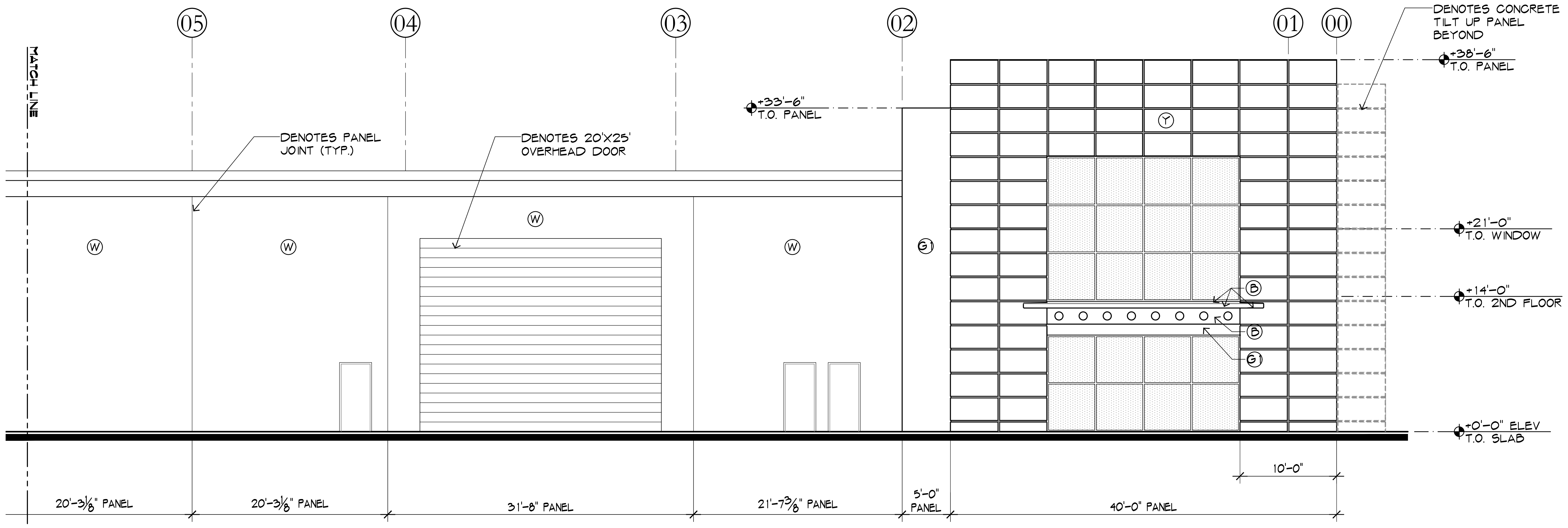
Ⓖ	LIGHT GRAY: SW 7071 "GRAY SCREEN"
Ⓓ	DARK GRAY: SW 2740 "MINERAL GRAY"
Ⓦ	BLUE: SW 2940 "BRIDGEPORT"
Ⓑ	WHITE: SW 7005 "PURE WHITE"
Ⓨ	YELLOW: SW 6910 "DAISY"

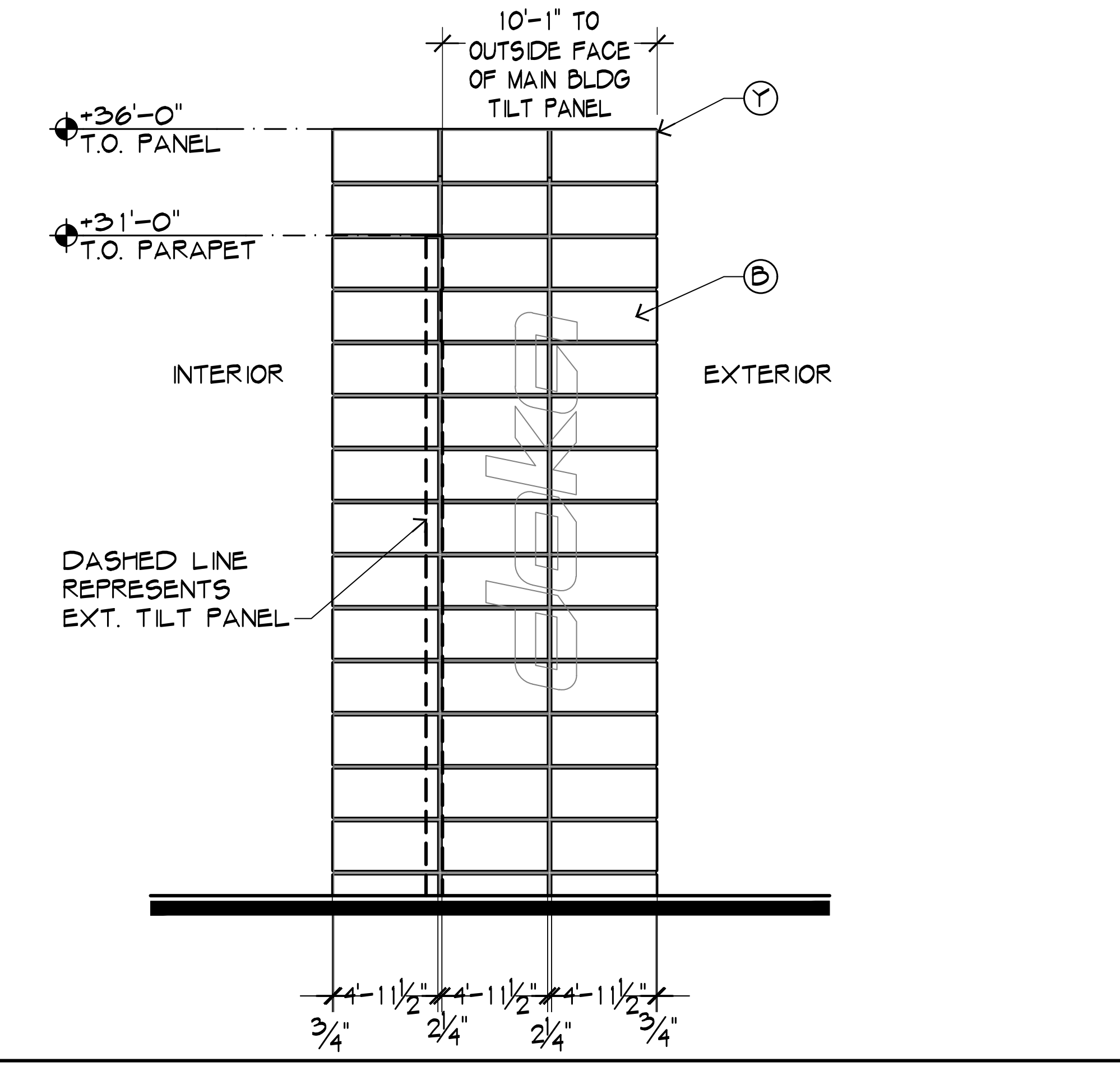
NOTES:

- ALL WINDOWS TO BE WHITE SATIN FINISH ALUMINUM FRAMES WITH TINTED IMPACT GLASS, U.N.O.
- PROVIDE MEDIUM TEXTURED ACRYLIC COATING WITH INTEGRAL BASE BUILDING COLOR (TEXCOTE XL-70 OR A APPROVED EQUAL) ON ALL EXTERIOR WALLS EXCEPT DOCK DOOR WALLS AND UTILITY ROOM WALLS.
- ACCENT COLORS AND DOCK AREA WALLS TO BE PRIMED AND HAVE TWO (2) COATS OF COMMERCIAL QUALITY GRADE LATEX PAINT. WHERE DARK COLORS ARE USED, PROVIDE SATIN FINISH LATEX.
- ALL COLORS TO BE "SHERWIN WILLIAMS" EXTERIOR ACRYLIC LATEX OR APPROVED EQUAL
- MISCELLANEOUS METALS INCLUDING EXTERIOR EXPOSED METALS (I.E. HANDRAILS, LADDERS, BOLLARDS) TO HAVE ONE (1) COAT OF PRIMER AND TWO (2) COATS OF COMMERCIAL QUALITY GRADE ENAMEL PAINT.
- CONTRACTOR TO PROVIDE SAMPLES OF COLORS ON ACTUAL BUILDING FOR OWNER'S FINAL REVIEW.
- RETURN ALL REVEALS @ PANEL OVERLAPS, TYP.
- ALL EXTERIOR TILT UP WALLS TO RECEIVE TEX-COTE XL-70W. FINISHES AS FOLLOWS:
  - ENTRY PANEL: FINE
  - HORIZONTAL BAND: SMOOTH
  - MAIN BLDG PANELS: MEDIUM
  - YELLOW ACCENT WALL: FINE

1
1/8" = 1'-0"

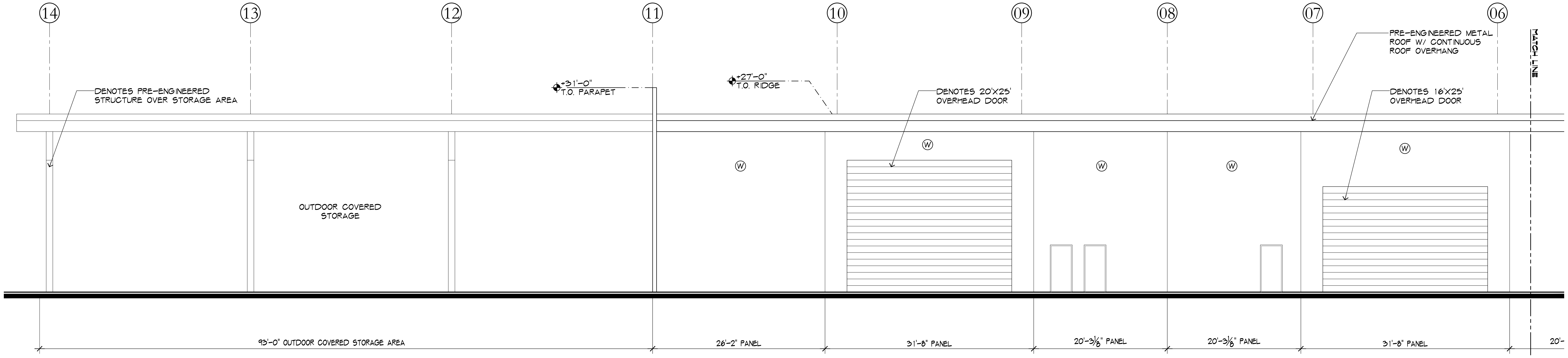
NORTH ELEVATION


05
04
03
02
01
00
MATCH LINE
DENOTES PANEL JOINT (TYP.)
DENOTES 20'X25' OVERHEAD DOOR
W
W
W
W
G1
Y
B
B
G1
+33'-6"
T.O. PANEL
DENOTES CONCRETE TILT UP PANEL BEYOND
+38'-6"
T.O. PANEL
+21'-0"
T.O. WINDOW
+14'-0"
T.O. 2ND FLOOR
+0'-0" ELEV
T.O. SLAB
10'-0"
20'-3⅛" PANEL
20'-3⅛" PANEL
31'-8" PANEL
21'-7⅜" PANEL
5'-0" PANEL
40'-0" PANEL


10'-1" TO OUTSIDE FACE OF MAIN BLDG TILT PANEL
+36'-0"
T.O. PANEL
+31'-0"
T.O. PARAPET
Y
B
INTERIOR
EXTERIOR
DASHED LINE REPRESENTS EXT. TILT PANEL
4'-11½"
4'-11½"
4'-11½"
¾"
2¼"
2¼"
¾"

1
1/8" = 1'-0"

PARTIAL EAST ELEVATION


14
13
12
11
10
09
08
07
06
DENOTES PRE-ENGINEERED STRUCTURE OVER STORAGE AREA
+31'-0"
T.O. PARAPET
+27'-0"
T.O. RIDGE
DENOTES 20'X25' OVERHEAD DOOR
PRE-ENGINEERED METAL ROOF W/ CONTINUOUS ROOF OVERHANG
DENOTES 16'X25' OVERHEAD DOOR
MATCH LINE
OUTDOOR COVERED STORAGE
W
W
W
W
W
W
93'-0" OUTDOOR COVERED STORAGE AREA
26'-2" PANEL
31'-8" PANEL
20'-3⅛" PANEL
20'-3⅛" PANEL
31'-8" PANEL
20'-

2
1/8" = 1'-0"

EAST ELEVATION

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

MICHAEL W HANLON
AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

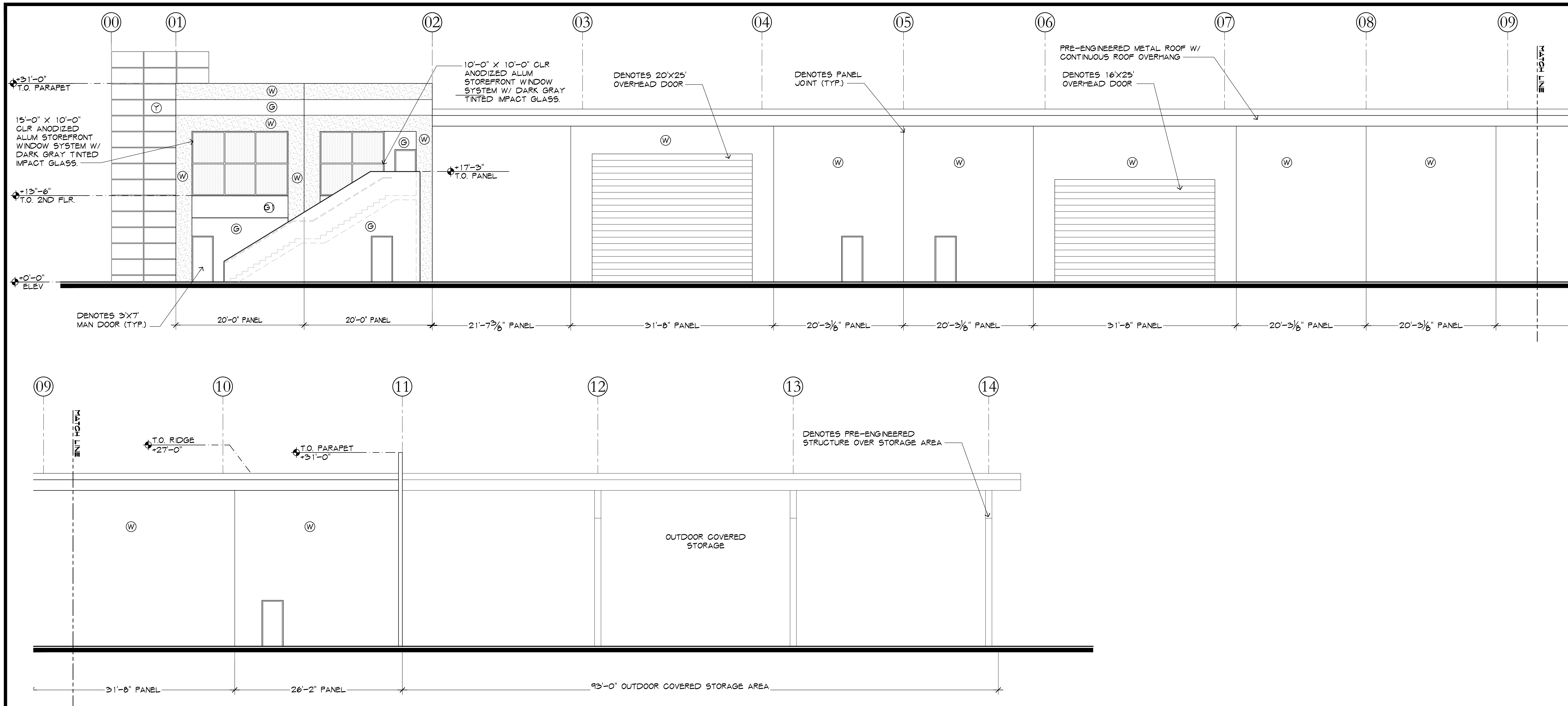
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

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

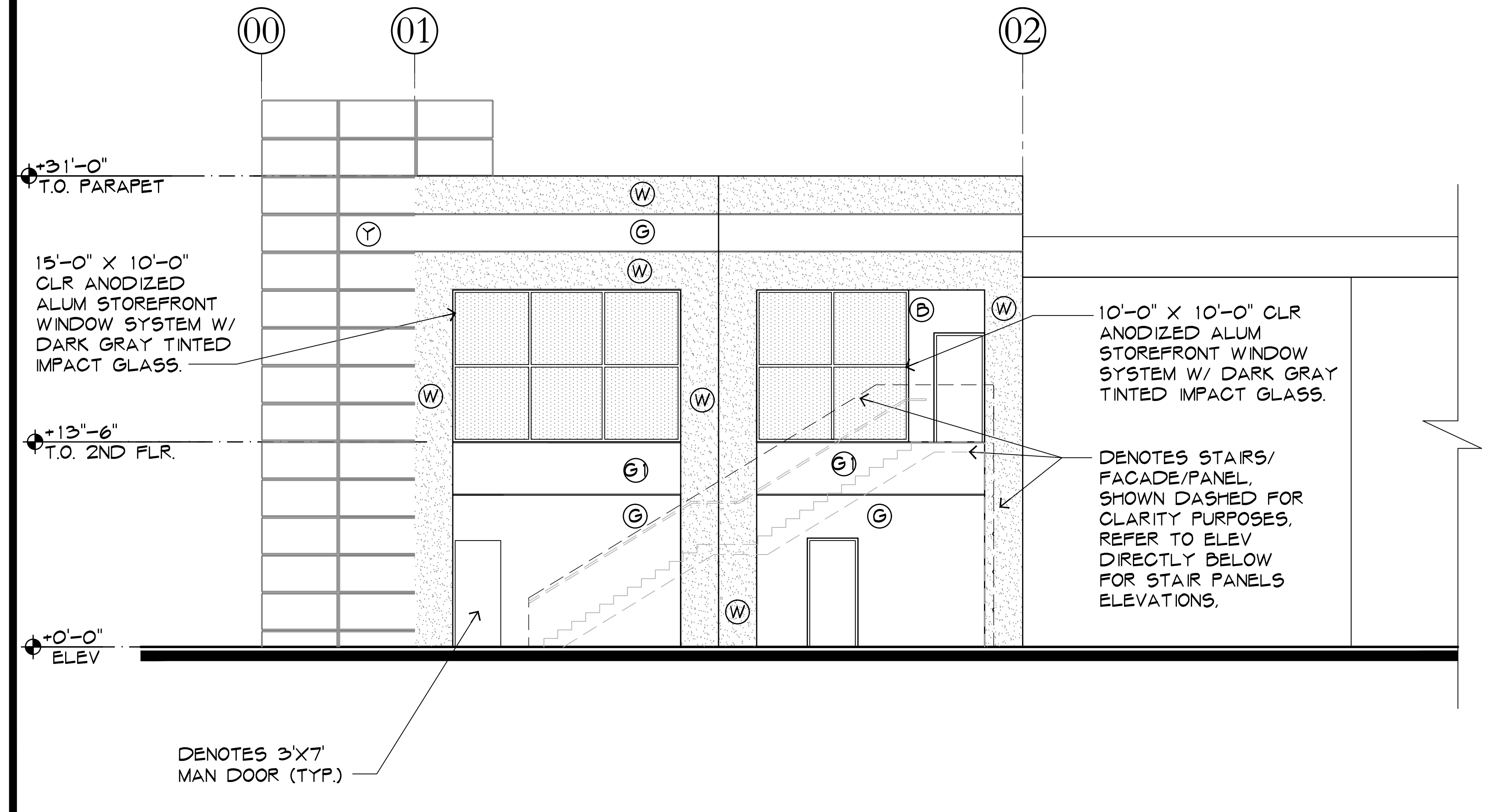
TITLE:
NORTH & EAST ELEVATIONS

DRAWING NUMBER:
A4.0


00
01
02
03
04
05
06
07
08
09
+31'-0" T.O. PARAPET
15'-0" X 10'-0" CLR ANODIZED ALUM STOREFRONT WINDOW SYSTEM W/ DARK GRAY TINTED IMPACT GLASS.
+13"-6" T.O. 2ND FLR.
+0'-0" ELEV
10'-0" X 10'-0" CLR ANODIZED ALUM STOREFRONT WINDOW SYSTEM W/ DARK GRAY TINTED IMPACT GLASS.
+17'-3" T.O. PANEL
DENOTES 20'X25' OVERHEAD DOOR
DENOTES PANEL JOINT (TYP.)
PRE-ENGINEERED METAL ROOF W/ CONTINUOUS ROOF OVERHANG
DENOTES 16'X25' OVERHEAD DOOR
MATCH LINE
W
G
Y
G1
DENOTES 3'X7' MAN DOOR (TYP.)
20'-0" PANEL
20'-0" PANEL
21'-7 3/8" PANEL
31'-8" PANEL
20'-3 1/8" PANEL
20'-3 1/8" PANEL
31'-8" PANEL
20'-3 1/8" PANEL
20'-3 1/8" PANEL
09
10
11
12
13
14
MATCH LINE
T.O. RIDGE +27'-0"
T.O. PARAPET +31'-0"
DENOTES PRE-ENGINEERED STRUCTURE OVER STORAGE AREA
OUTDOOR COVERED STORAGE
31'-8" PANEL
26'-2" PANEL
93'-0" OUTDOOR COVERED STORAGE AREA

1
1/8" = 1'-0"

WEST ELEVATION


00
01
02
+31'-0" T.O. PARAPET
15'-0" X 10'-0" CLR ANODIZED ALUM STOREFRONT WINDOW SYSTEM W/ DARK GRAY TINTED IMPACT GLASS.
+13"-6" T.O. 2ND FLR.
+0'-0" ELEV
W
G
Y
B
G1
10'-0" X 10'-0" CLR ANODIZED ALUM STOREFRONT WINDOW SYSTEM W/ DARK GRAY TINTED IMPACT GLASS.
DENOTES STAIRS/ FACADE/PANEL, SHOWN DASHED FOR CLARITY PURPOSES, REFER TO ELEV DIRECTLY BELOW FOR STAIR PANELS ELEVATIONS,
DENOTES 3'X7' MAN DOOR (TYP.)

1A
1/8" = 1'-0"

WEST ELEVATION - STAIR FACADE

UMDASCH REAL
ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway ▪ Delray Beach, Florida 33483 ▪ T. 561.733.2225
info@hnm-architecture.com ▪ AA26000726 ▪ www. hnm-architecture.com

STATE OF FLORIDA
MICHAEL W HANLON
AR 0017270
REGISTERED ARCHITECT

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

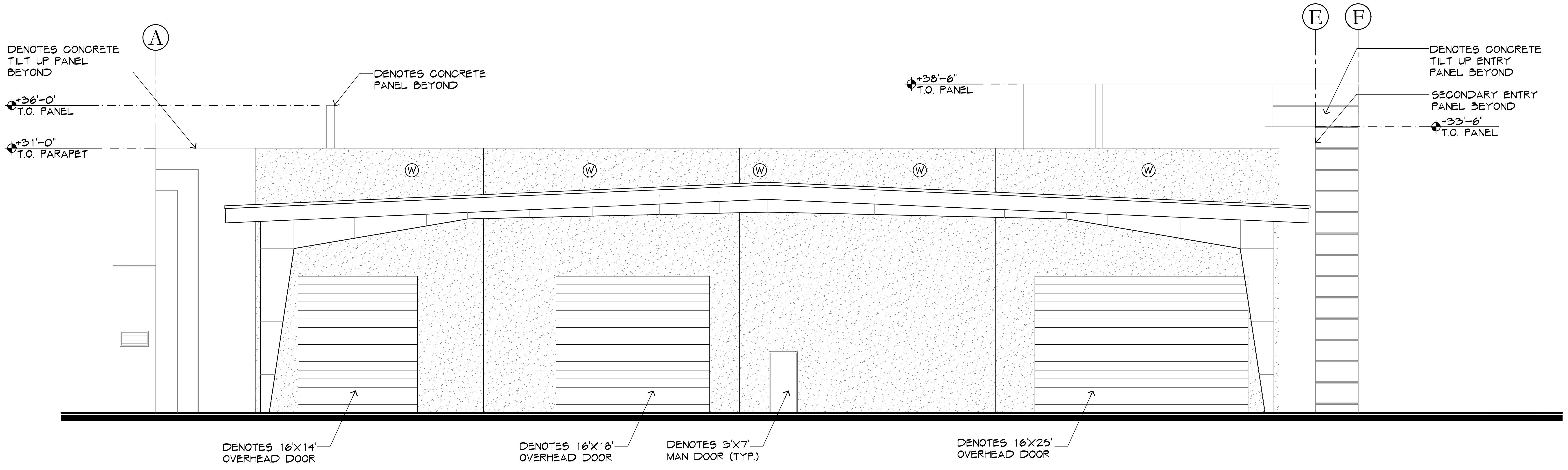
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

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

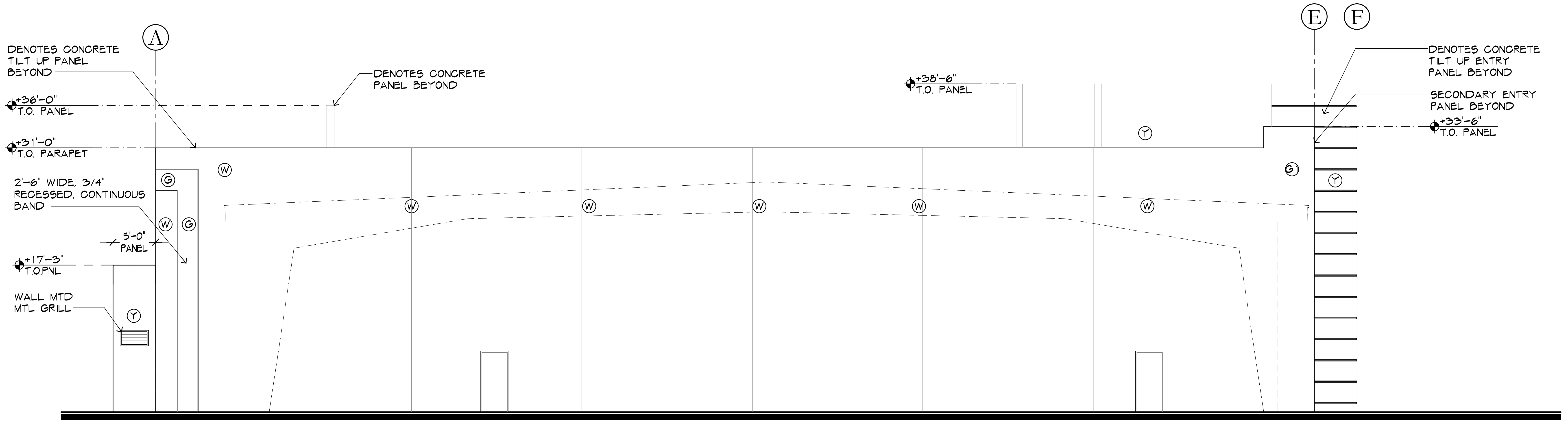
TITLE:
WEST ELEVATION

DRAWING NUMBER:
A4.1


A
E
F
DENOTES CONCRETE TILT UP PANEL BEYOND
DENOTES CONCRETE PANEL BEYOND
+36'-0" T.O. PANEL
+31'-0" T.O. PARAPET
+38'-6" T.O. PANEL
DENOTES CONCRETE TILT UP ENTRY PANEL BEYOND
SECONDARY ENTRY PANEL BEYOND
+33'-6" T.O. PANEL
W
W
W
W
W
DENOTES 16'X14' OVERHEAD DOOR
DENOTES 16'X18' OVERHEAD DOOR
DENOTES 3'X7' MAN DOOR (TYP.)
DENOTES 16'X25' OVERHEAD DOOR

1
1/8" = 1'-0"

SOUTH ELEVATION


A
E
F
DENOTES CONCRETE TILT UP PANEL BEYOND
DENOTES CONCRETE PANEL BEYOND
+36'-0" T.O. PANEL
+31'-0" T.O. PARAPET
+38'-6" T.O. PANEL
DENOTES CONCRETE TILT UP ENTRY PANEL BEYOND
SECONDARY ENTRY PANEL BEYOND
+33'-6" T.O. PANEL
Y
W
G
G
2'-6" WIDE, 3/4" RECESSED, CONTINUOUS BAND
W
G
5'-0" PANEL
+17'-3" T.O.PNL
WALL MTD MTL GRILL
Y
W
W
W
W
W
G
Y

2
1/8" = 1'-0"

SOUTH ELEVATION @ OFFICE AREA

UMDASCH REAL
ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway ▪ Delray Beach, Florida 33483 ▪ T. 561.733.2225
info@hnm-architecture.com ▪ AA26000726 ▪ www. hnm-architecture.com

MICHAEL W HANLON
AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

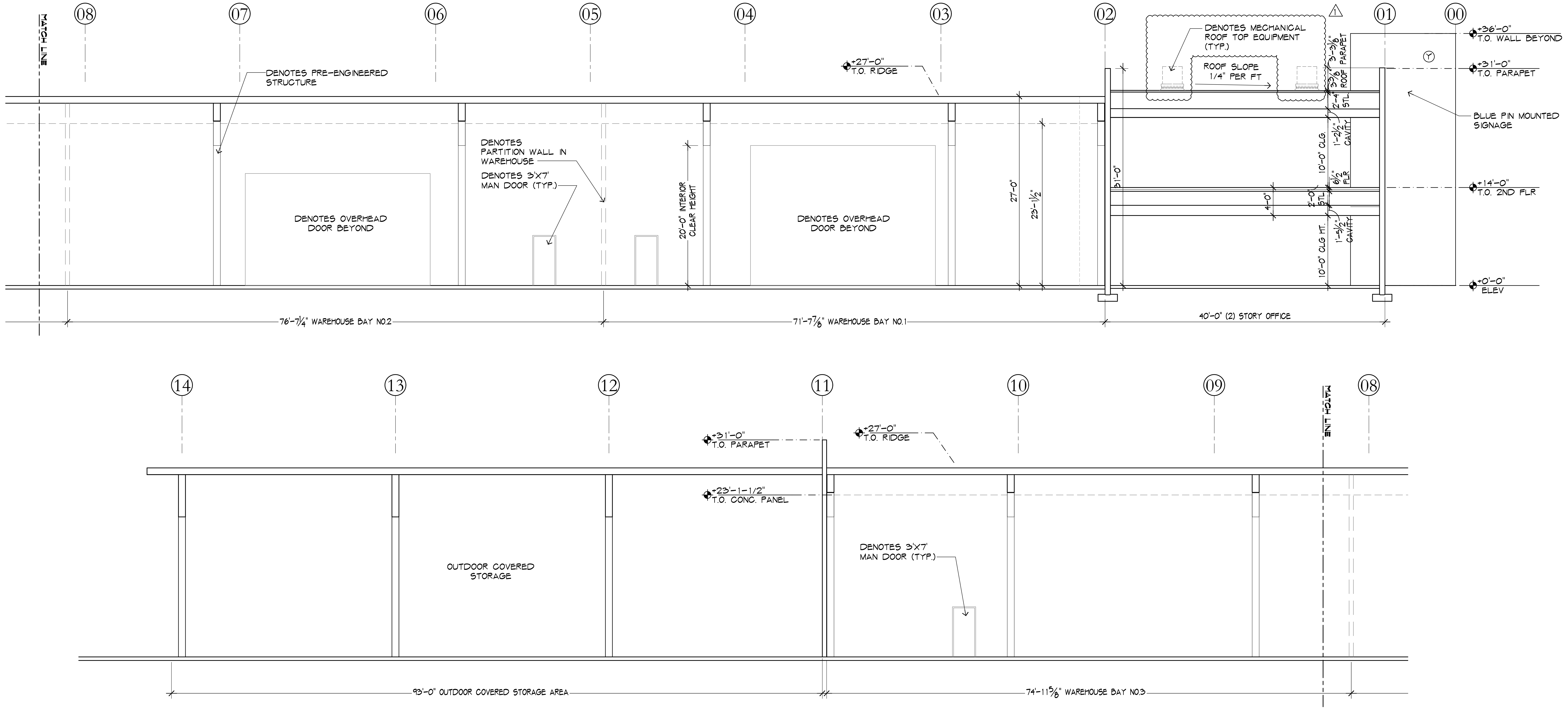
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

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

TITLE:
SOUTH ELEVATIONS

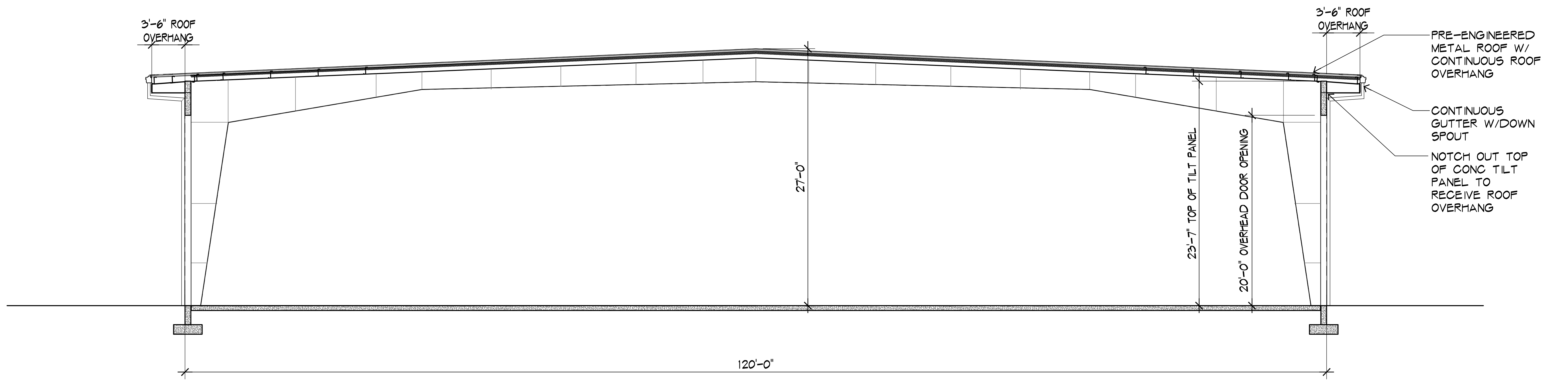
DRAWING NUMBER:
A4.2



MATCH LINE
08
07
06
05
04
03
02
01
00
DENOTES PRE-ENGINEERED STRUCTURE
+27'-0" T.O. RIDGE
DENOTES MECHANICAL ROOF TOP EQUIPMENT (TYP.)
ROOF SLOPE 1/4" PER FT
+36'-0" T.O. WALL BEYOND
+31'-0" T.O. PARAPET
BLUE PIN MOUNTED SIGNAGE
+14'-0" T.O. 2ND FLR
+0'-0" ELEV
DENOTES PARTITION WALL IN WAREHOUSE
DENOTES 3'X7' MAN DOOR (TYP.)
DENOTES OVERHEAD DOOR BEYOND
20'-0" INTERIOR CLEAR HEIGHT
27'-0"
23'-1½"
31'-0"
4'-0"
3'-3⅛" PARAPET
3⅜" ROOF
2'-4" STL.
1'-2½" CAVITY
10'-0" CLG.
6½" FLR
2'-0" STL
1'-5½" CAVITY
10'-0" CLG HT.
76'-7¼" WAREHOUSE BAY NO.2
71'-7⅞" WAREHOUSE BAY NO.1
40'-0" (2) STORY OFFICE
14
13
12
11
10
09
08
+31'-0" T.O. PARAPET
+27'-0" T.O. RIDGE
+23'-1-1/2" T.O. CONC. PANEL
OUTDOOR COVERED STORAGE
DENOTES 3'X7' MAN DOOR (TYP.)
93'-0" OUTDOOR COVERED STORAGE AREA
74'-11⅝" WAREHOUSE BAY NO.3

1
1/8" = 1'-0"

LONGITUDINAL SECTION - OFFICE / PARTIAL WAREHOUSE



3'-6" ROOF OVERHANG
3'-6" ROOF OVERHANG
PRE-ENGINEERED METAL ROOF W/ CONTINUOUS ROOF OVERHANG
CONTINUOUS GUTTER W/DOWN SPOUT
NOTCH OUT TOP OF CONC TILT PANEL TO RECEIVE ROOF OVERHANG
27'-0"
23'-7" TOP OF TILT PANEL
20'-0" OVERHEAD DOOR OPENING
120'-0"

2
1/8" = 1'-0"

CROSS SECTION - WAREHOUSE

UMDASCH REAL
ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION
1	2020-11-13 SITE PLAN APPLICATION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

MICHAEL W HANLON
AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

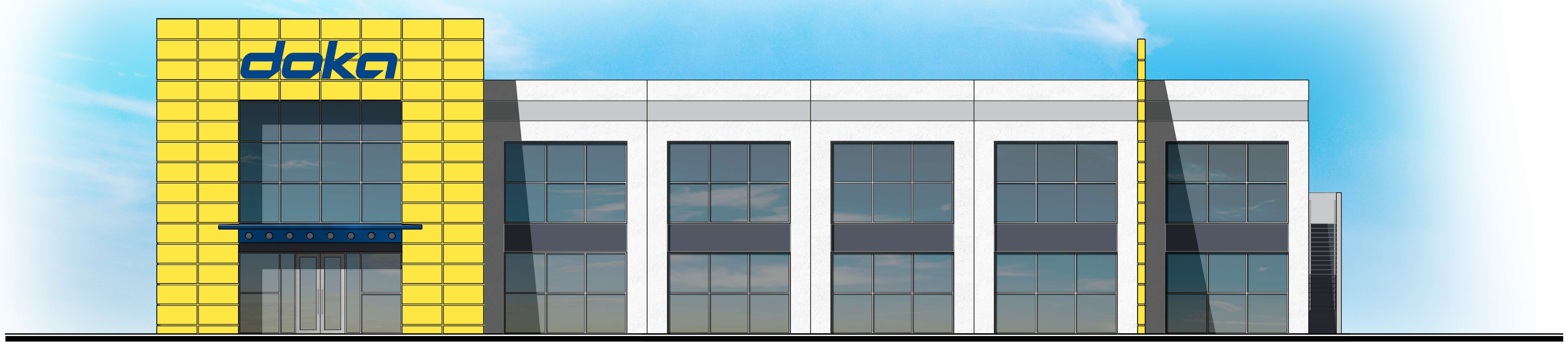
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-11-13

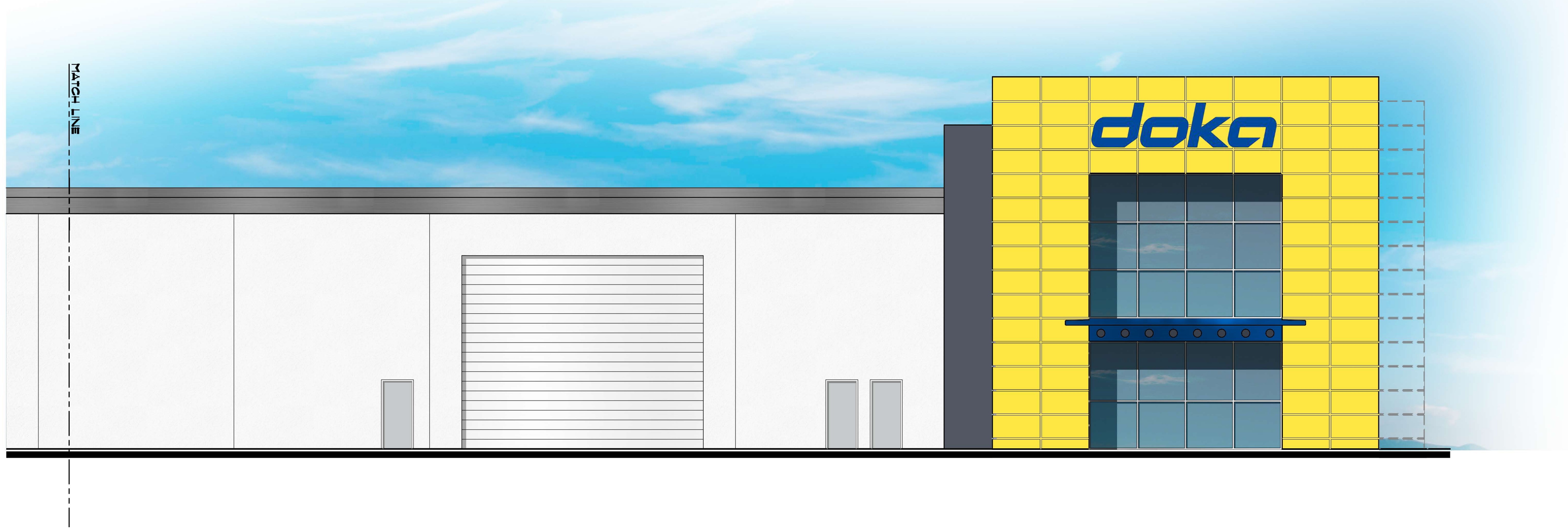
SCALE:
1/8"=1'-0"

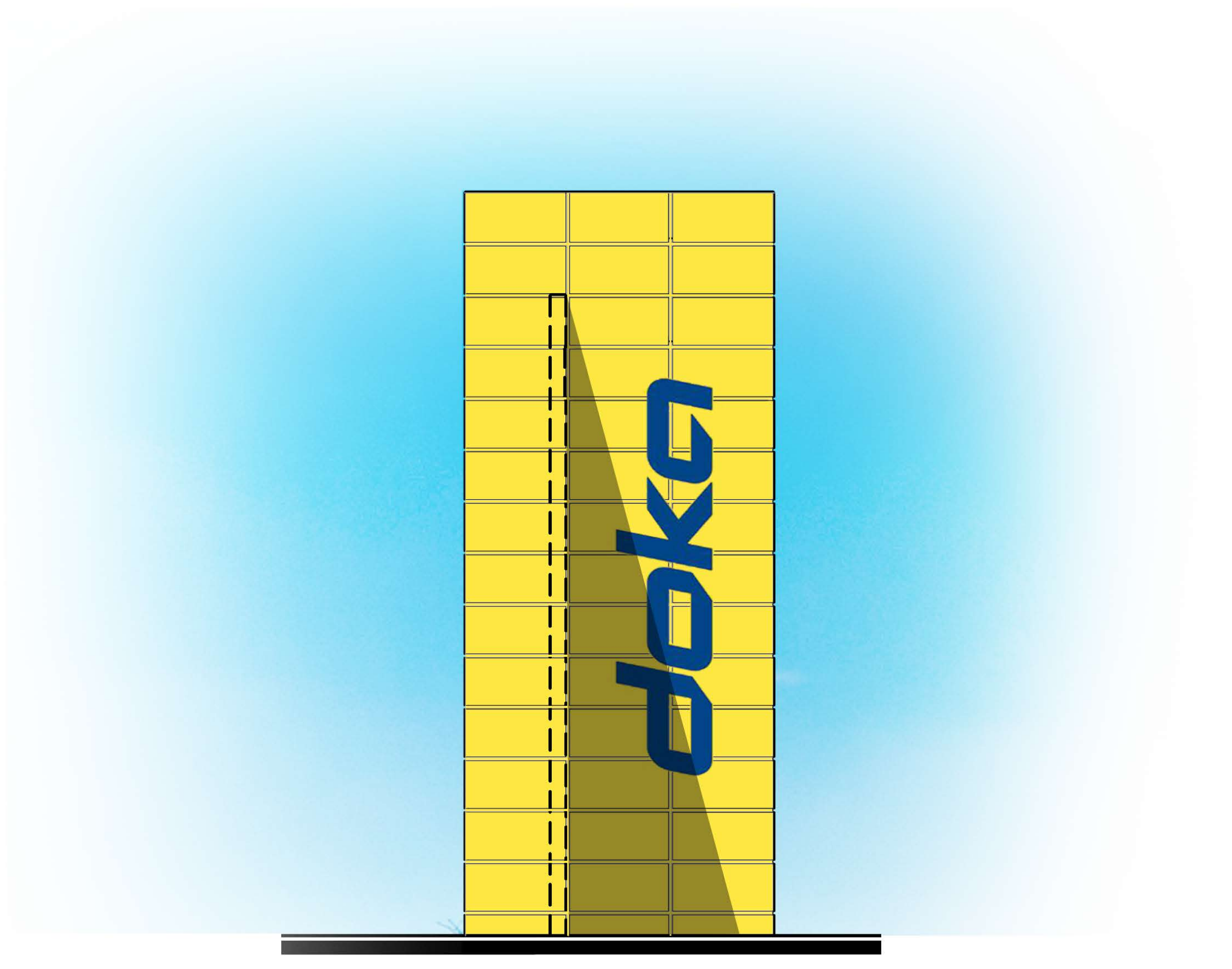
TITLE:
SECTIONS

DRAWING NUMBER:
A4.3

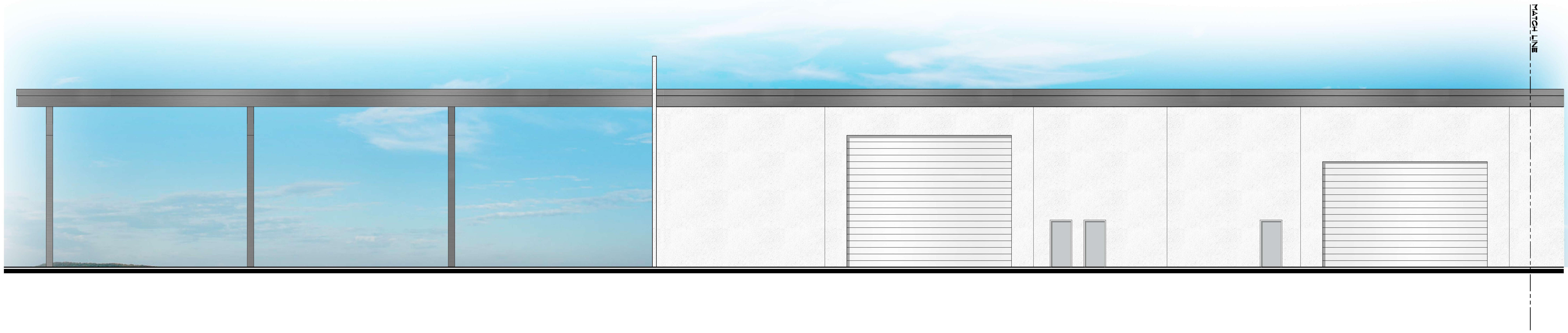


1
1/8" = 1'-0"
NORTH ELEVATION





1
1/8" = 1'-0"
PARTIAL EAST ELEVATION



2
1/8" = 1'-0"
EAST ELEVATION

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway ▪ Delray Beach, Florida 33483 ▪ T. 561.733.2225
info@hnm-architecture.com ▪ AA26000726 ▪ www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

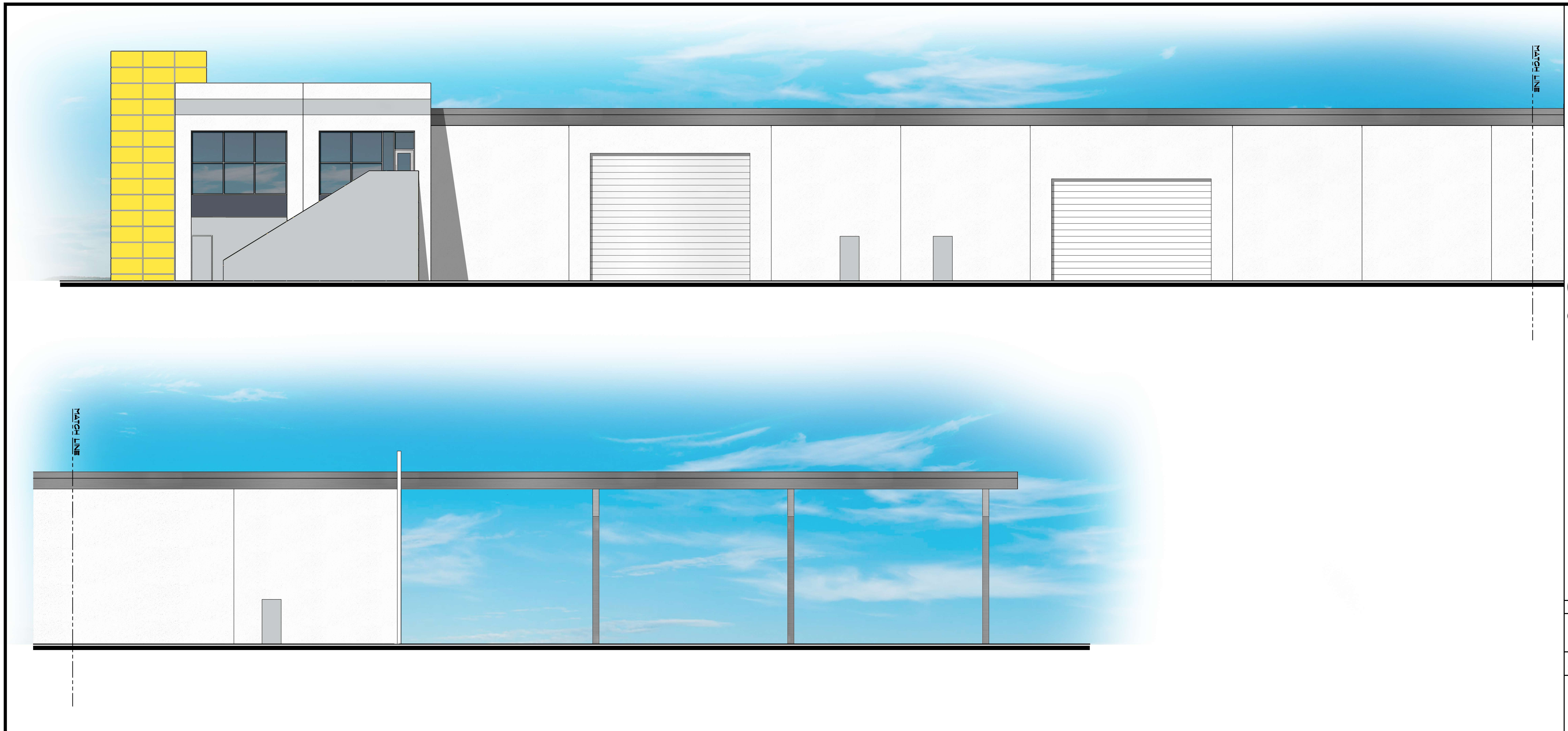
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

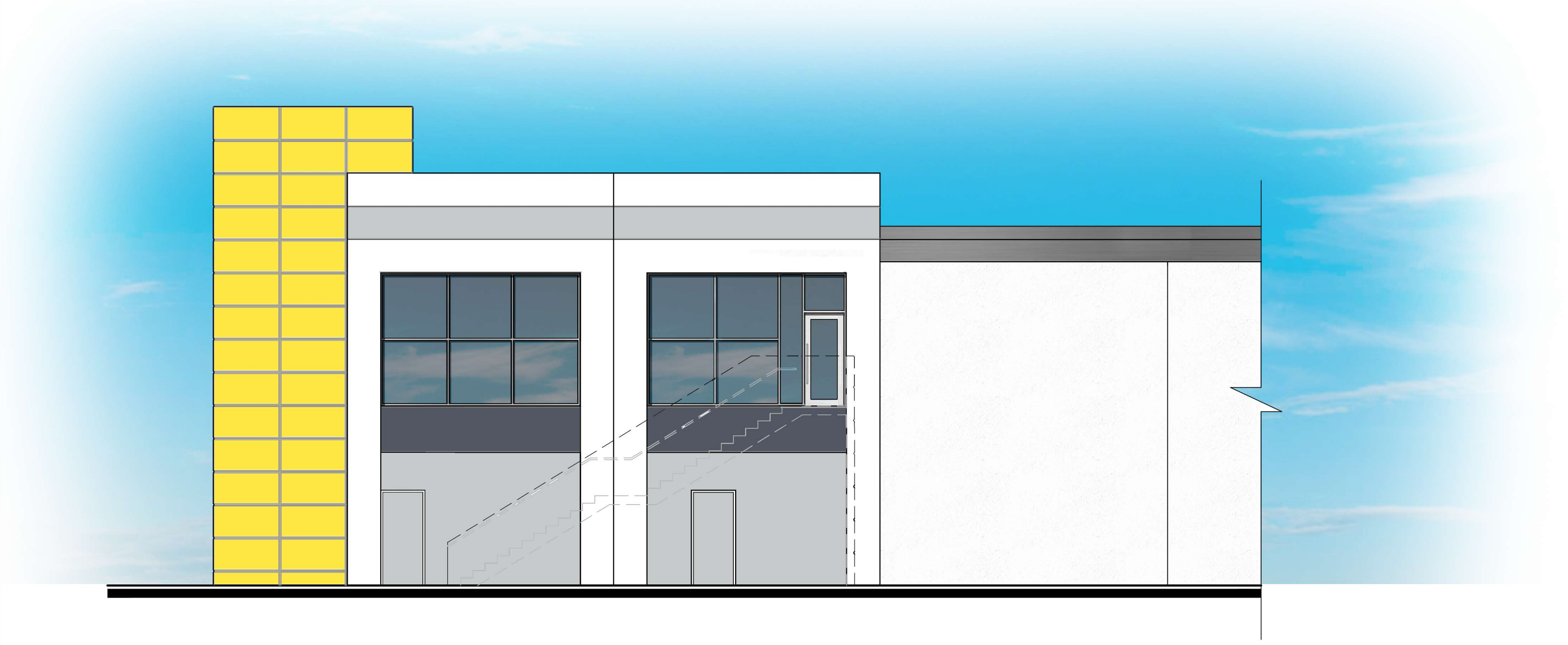
SCALE:
1/8" = 1'-0"

TITLE:
NORTH & EAST
RENDER ELEVATIONS

DRAWING NUMBER:
A4.4



1
1/8" = 1'-0"
WEST ELEVATION



1A
1/8" = 1'-0"
WEST ELEVATION - STAIR FACADE

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway • Delray Beach, Florida 33483 • T. 561.733.2225
info@hnm-architecture.com • AA26000726 • www. hnm-architecture.com

AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

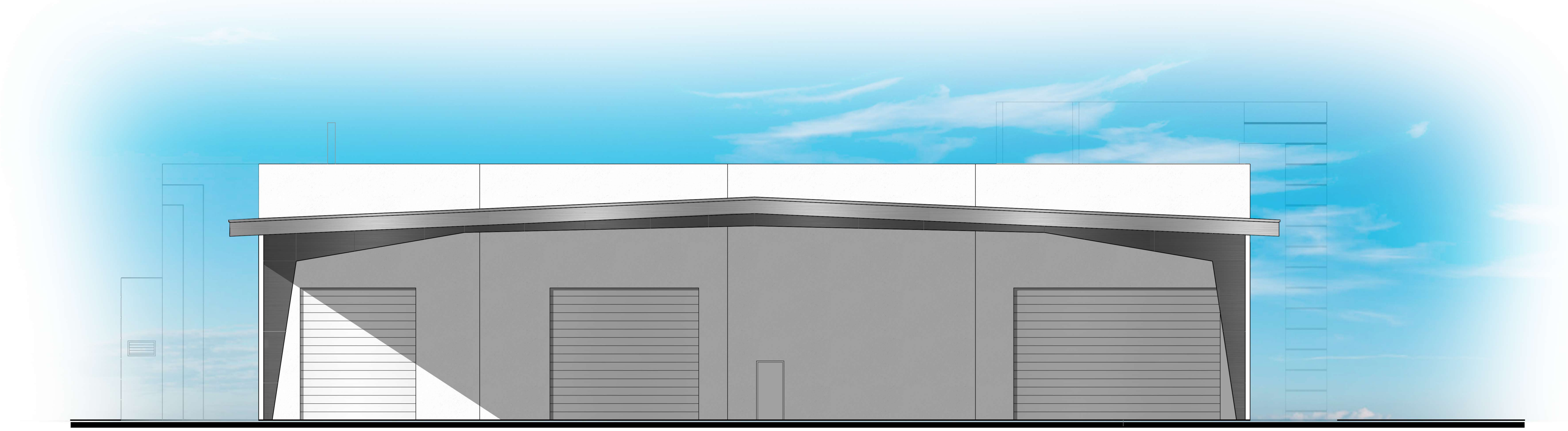
HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

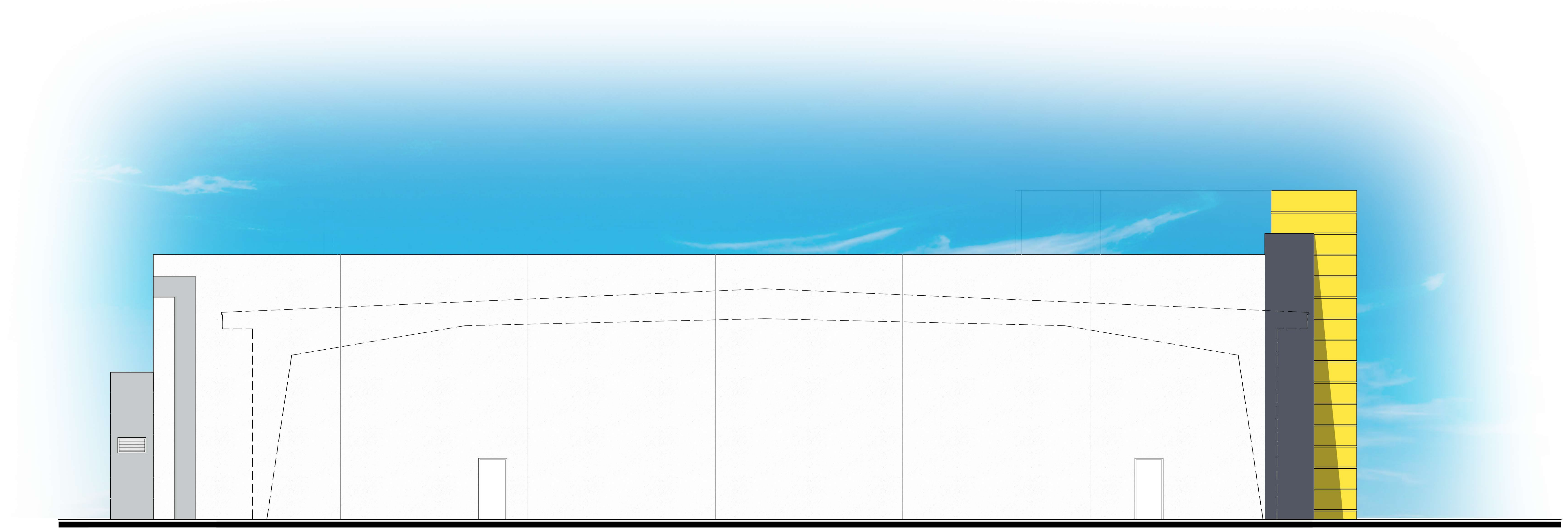
SCALE:
1/8" = 1'-0"

TITLE:
WEST RENDER
ELEVATION

DRAWING NUMBER:
A4.5



1
1/8" = 1'-0"
SOUTH ELEVATION



2
1/8" = 1'-0"
SOUTH ELEVATION @ OFFICE AREA

UMDASCH REAL ESTATE USA, LTD
Office/Industrial Facility at
2209 7th Avenue North
City of Lake Worth Beach, Florida

NO.	DATE REVISION

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

HNM
ARCHITECTURE
3705 North Federal Highway ▪ Delray Beach, Florida 33483 ▪ T. 561.733.2225
info@hnm-architecture.com ▪ AA26000726 ▪ www. hnm-architecture.com

MICHAEL W HANLON
AR 0017270

MICHAEL W. HANLON
FLORIDA REGISTERED ARCHITECT . REG. NUMBER: AR0017270

ELECTRONIC SIGNATURE SERIAL NUMBER:

HNM PROJECT NUMBER:
19-009.1

ISSUED DATE:
2020-09-02

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

TITLE:
SOUTH RENDER ELEVATION

DRAWING NUMBER:
A4.6

doka
doka
doka
HNM
ARCHITECTURE

doka
HNM
ARCHITECTURE

E-4 CANAL
CANAL
WATER'S EDGE
TOP OF BANK
5'+/-
34'+/-
8.40
13.20
12.30
30' +/-
5'+/-
10' RIGHT-OF-WAY FOR USE AS A CANAL AND CANAL RELATED PURPOSES PER O.R.B. 7855, PAGE 1325
8.40
12.90
12.30
WATER'S EDGE
TOP OF BANK
8.40
13.00
12.40
210.00'
5'+/-
34'+/-
12.60
200.00' CANAL R/W
WATER'S EDGE
TOP OF BANK
WATER'S ELEVATION +8.40 +/-
E-4 CANAL
N23°12'47"E
931.08' (M)
PALM CLUB APARTMENTS
TRACT 81 LESS THE NORTH 210.81 FEET
MODEL LAND COMPANY SUBDIVISION
PLAT BOOK 5, PAGE 79
PALM BEACH COUNTY
4th AVENUE NORTH
N88°05'50"W 414.88' (M)
7' WIRE FENCE
N88°07'00"W (R)
PORTION OF TRACT 81
7' WIRE FENCE
S01°27'57"W 210.81' (M)
S00°25'00"W +/- 210.81' (R)
MARLIN INDUSTRIAL PARK
(P.B. 53, PAGE 170)
PALM BEACH COUNTY
W.U.P.
N88°05'50"W 331.03' (M)
O.U.L.
N88°07'00"W 330.00'+/- (R)
7' WIRE FENCE
MARLIN INDUSTRIAL PARK
(P.B. 53, PAGE 170)
PALM BEACH COUNTY
W.U.P.
VACANT LOT
(HEAVY VEGETATION)
TRACT 66
S01°27'02"W 656.70' (M)
S00°25'00"W +/- 655.00' (R)
MARLIN INDUSTRIAL PARK
(P.B. 53, PAGE 170)
PALM BEACH COUNTY
CANAL
200.00' CANAL R/W
WATER'S EDGE
TOP OF BANK
FND. 1/2" I.P. NO ID.
W.U.P.
5'+/-
35'+/-
8.40
11.30
11.30
WATER'S EDGE
TOP OF BANK
E-4 CANAL
210.00'
200' CANAL RIGHT-OF-WAY (KELLER CANAL) MOEDEL LAND CO. SUBDIVISION OF SECTION 20, TOWNSHIP 44S. RANGE 43E. PLAT BOOK 5, PAGE 79
10' ADDITIONAL RIGHT-OF-WAY FOR KELLER CANAL CONVEYED TO LAKE WORTH DRAINAGE DISTRICT PER O.R.B. 19084, PAGE 579
35.00'
S88°06'29"E 400.75' (M)
W.U.P.
7th AVENUE NORTH
O.U.L.
S88°07'00"E 388.00' (R)
℄
UNDEVELOPED ROAD
10' UTILITY EASEMENT
W.U.P.
LOT 13
5'+/-
6'+/-
8.40
12.30
12.20
LOT 12
BOUTWELL INDUSTRIAL PARK, PLAT BOOK 106, PAGE 182, PALM BEACH COUNTY
10' UTILITY EASEMENT
LOT 11
5'+/-
6'+/-
8.40
12.40
12.40
WATER'S EDGE
TOP OF BANK
TRACT "C" RETENTION AREA
5'+/-
2'+/-
8.40
12.70
13.40
W.U.P.
15.00'
22.00' ASPHALT ROAD ENDS

LEGAL DESCRIPTION:

TRACT 66 AND THE NORTH 210.81 FEET OF TRACT 81, "MODEL LAND CO. SUBDIVISION OF SECTION 20, TOWNSHIP 44 SOUTH, RANGE 43 EAST", ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 5, PAGE 79, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

SURVEYOR'S NOTES:

1) NOT VALID UNLESS SIGNATURE IS EMBOSSED WITH THE REGISTERED LAND SURVEYORS SEAL.
2) LEGAL DESCRIPTION PROVIDED BY OTHERS.
3) PROPERTIES SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENTS OR OTHER RECORDED ENCUMBRANCES NOT SHOWN ON THE PROPERTY PLAT OF RECORD.
4) MEASUREMENTS TO WOOD FENCES ARE TO OUTSIDE OF WOOD.
5) UNDERGROUND UTILITIES, FOUNDATIONS, OR OTHER IMPROVEMENTS, IF ANY, WERE NOT LOCATED.
6) ELEVATIONS, IF SHOWN ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929.
7) FENCE OWNERSHIP NOT DETERMINED UNLESS OTHERWISE NOTED.
8) MEASUREMENTS TO WIRE FENCES ARE TO CENTER OF WIRE.
9) WALL MEASUREMENTS ARE TO/FROM FACE OF WALL.
10) DRAWING DISTANCE BETWEEN WALLS AND/OR FENCES AND PROPERTY LINES MAY BE EXAGGERATED FOR CLARITY.
11) FLOOD ZONE INFORMATION WAS DERIVED FROM FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INFORMATION RATE MAPS
12) BEARINGS IF ANY SHOWN ARE BASED ON PLAT MERIDIAN AT: CENTERLINE 7th AVENUE NORTH = S88º07'00"E
13) LEGAL DESCRIPTION PROVIDED BY ALL FLORIDA TITLE COMPANY. AS PER RECORDED PLAT BOOK 5 PAGE 79 OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, THE NORTH PROPERTY LINE DISTANCE OF TRACT 66 IS 388.00 FEET. LOT DISTANCE OF SAID NORTH PROPERTY LINE INDICATED AS PER PLAT DOES NOT COINCIDE WITH ACTUAL LOT FIELD MEASUREMENT.

SURVEY NUMBER: 213375

▨	CONCRETE
—×—×—	WIRE FENCE
—□—□—	WOOD FENCE
○	PROPERTY CORNER
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POCV	POINT ON CURVE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
℘	PROPERTY LINE
(R)	RECORD MEASUREMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT
U.E.	UTILITY EASEMENT
☼	LIGHT POLE
▥	CATCH BASIN
Ⓦ	WELL
✱	PALM TREE
❀	TREE
Ⓓ	STORM MANHOLE
Ⓟ	$4.00 PARKING
⋈	WATER VALVE
PRM	PERMANENT REFERENCE MONUMENT
PCP	PERMANENT CONTROL POINT
FD	FOUND
CM	CONCRETE MONUMENT
OUR	SUBJECT PROPERTY
NEIGH	NEIGHBORING PROPERTY
CL	CLEAR
ENCR	ENCROACHMENT
FIP	FOUND IRON PIPE
FRB	FOUND REBAR
UG	UNDERGROUND
◎	ELECTRICAL MANHOLE
Ⓢ	SEWER MANHOLE
FD 4"CP	FOUND 4" CONCRETE POST
SRB	SET 1/2" DIAMETER REBAR
TAN	TANGENT
△	DELTA
TYP.	TYPICAL
R/W	RIGHT-OF-WAY
ORB	OFFICIAL RECORD BOOK
L	ARC LENGTH
R	RADIUS
W/	WITH
E	EAST
W	WEST
N/D	NAIL AND DISC
©	COMMUNICATIONS MANHOLE
⫯	SIGN
(M)	FIELD MEASURED
CH	CHORD
□	ELECTRIC UTILITY BOX
±	MORE OR LESS
⊘	DO NOT ENTER
⊕	GUY WIRE
CV	CONTROL VALVE
FF	FINISHED FLOOR
EL	ELEVATION
NTS	NOT TO SCALE
N	NORTH
S	SOUTH
℄	CENTERLINE

FLOOD ZONE: B/A7
MAP & PANEL= 1201920165
COMMUNITY No.: 120192
SUFFIX: B
DATE OF FIRM: 6-2-92
BASE ELEV.= - /12.00 NGVD 1929
L.F. ELEV. = N/A NOTES LOWEST HABITABLE FLOOR ELEVATION.
ELEVATIONS SHOWN REFER TO N.G.V.D. 1929.
LOWEST ADJACENT GRADE = N/A
B.M. # CON 27 ELEV. = 13.687 (PALM BEACH COUNTY)
GARAGE ELEV.= N/A
E.R.P.= N/A

PROPERTY OF: LW INDUSTRAIL, LLC

LAKE WORTH, FLORIDA

PROJECT SCALE:
1" = 60'

DATE OF FIELD WORK:
12-15-2008

REVISIONS:
03-24-2009
08-10-2009

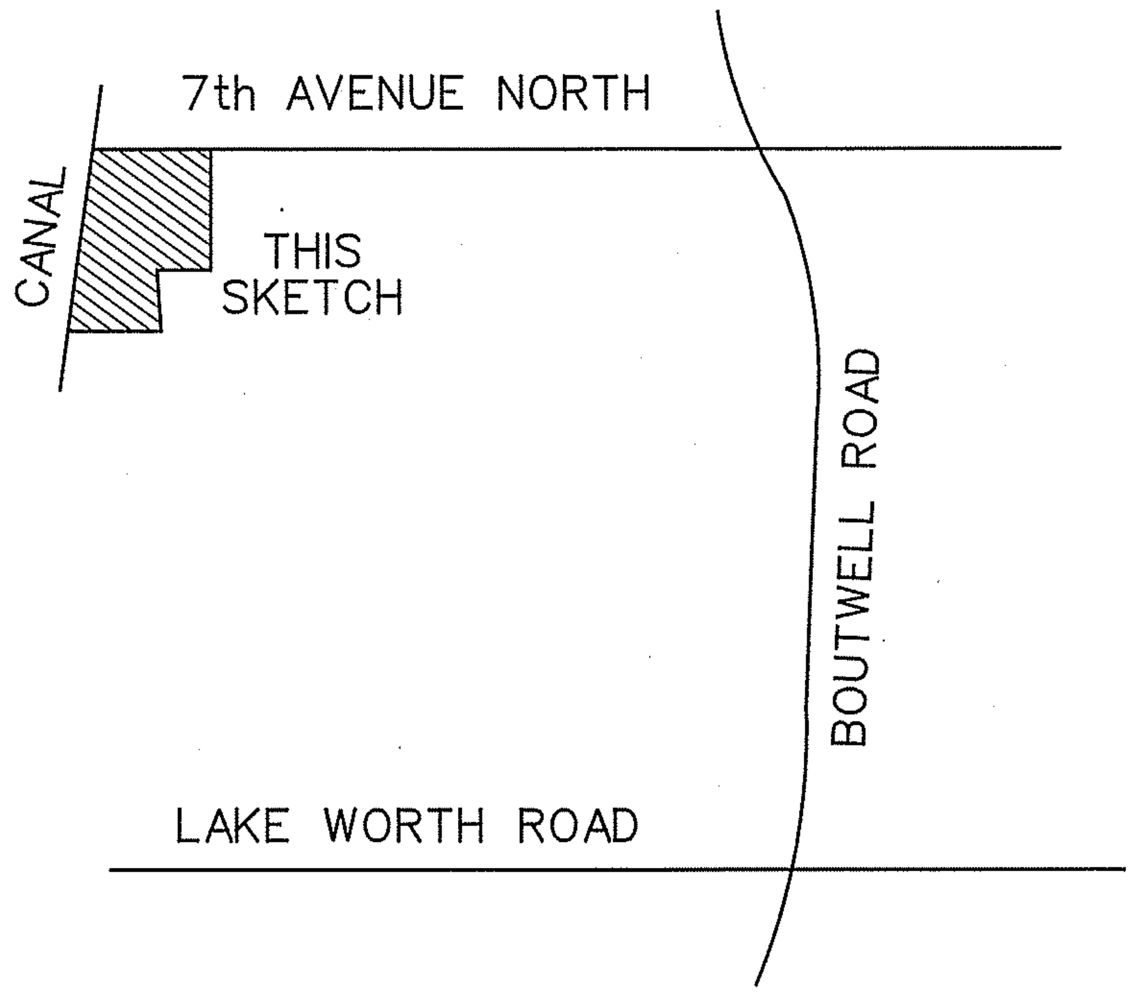
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

SPECIFIC PURPOSE SURVEY

I HEREBY CERTIFY THAT THIS BOUNDARY SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472-027, FLORIDA STATUTES.

PROFESSIONAL SURVEYOR AND MAPPER FLORIDA REG. NO. 4767

PROFESSIONAL SURVEYING AND MAPPING
LANNES & GARCIA, INC.
LB # 2098
BEALE SMITH PSM # 5238
FRANCISCO F. FAJARDO PSM # 4767
359 ALCAZAR AVENUE, CORAL GABLES, FLORIDA 33134
PH (305) 666-7909 FAX (305) 559-3002


7th AVENUE NORTH
CANAL
THIS SKETCH
BOUTWELL ROAD
LAKE WORTH ROAD

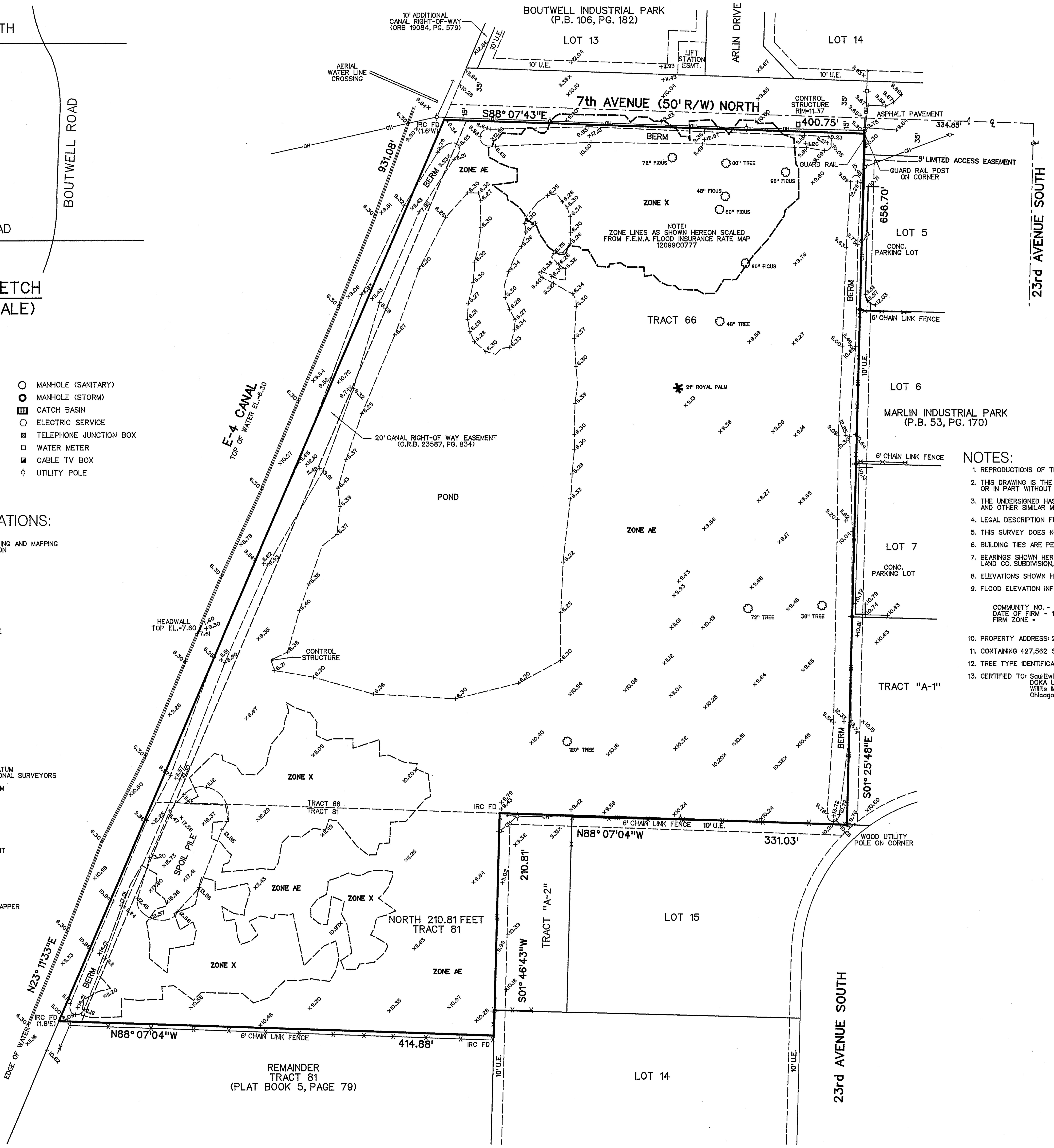
LOCATION SKETCH
(NOT TO SCALE)

LEGEND:

○	SET ⅝" IR & CAP (LB 6893)	○	MANHOLE (SANITARY)
△	NAIL & TAB	◎	MANHOLE (STORM)
●	PCP	▥	CATCH BASIN
◎	PRM	○	ELECTRIC SERVICE
×11.5	ELEVATION	⊠	TELEPHONE JUNCTION BOX
╋	FIRE HYDRANT	□	WATER METER
℄	CENTERLINE	◪	CABLE TV BOX
✧-✧	LIGHT POLES	ϕ	UTILITY POLE

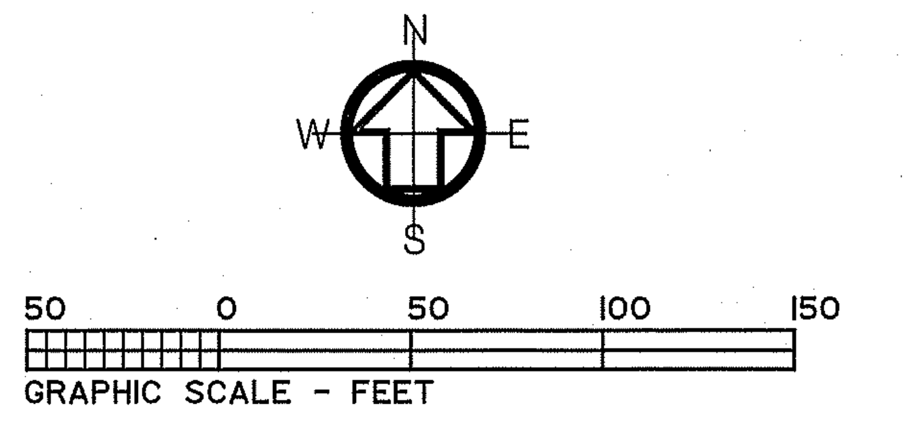
STANDARD ABBREVIATIONS:

A/C - AIR CONDITIONER PAD
ACSM - AMERICAN CONGRESS ON SURVEYING AND MAPPING
ALTA - AMERICAN LAND TITLE ASSOCIATION
ADJ. - ADJACENT
B.F.E. - BASE FLOOD ELEVATION
B.C.R. - BROWARD COUNTY RECORDS
B.M. - BENCHMARK
BOC - BACK OF CURB
(C) - CALCULATED
CB - CATCH BASIN
CLF - CHAIN LINK FENCE
CONC. - CONCRETE
C.B.S. - CONCRETE BLOCK STRUCTURE
D - DELTA ANGLE
D.C.R. - DADE COUNTY RECORDS
DDCV - DOUBLE DETECTOR CHECK VALVE
D.E. - DRAINAGE EASEMENT
E.O.W. - EDGE OF WATER
E - EAST
EL. - ELEVATION
F.F. - FINISHED FLOOR
F.P.L. - FLORIDA POWER & LIGHT CO.
FD. - FOUND
G.F. - GARAGE FLOOR
INV. - INVERT
IP - IRON PIPE
IR - IRON ROD
IRC - IRON ROD & CAP
L - ARC LENGTH
LME - LAKE MAINTENANCE EASEMENT
LB - LICENCED BUSINESS
(LD) - LEGAL DESCRIPTION
(M) - MEASURED
M.H. - MANHOLE
MISC. - MISCELANEOUS
N/D - NAIL AND DISK
N/T - NAIL AND TAB
NGVD - NATIONAL GEODETIC VERTICAL DATUM
NSPS - NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
N/A - NON-APPLICABLE
NAVD - NORTH AMERICAN VERTICAL DATUM
N - NORTH
N.T.S. - NOT TO SCALE
NO. - NUMBER
O/S - OFFSET
OH - OVERHEAD WIRES
O.R.B. - OFFICIAL RECORD BOOK
P.B.C.R. - PALM BEACH COUNTY RECORDS
PG. - PAGE
P.C.P. - PERMANENT CONTROL POINT
P.R.M. - PERMANENT REFERENCE MONUMENT
(P) - PLAT
P.B. - PLAT BOOK
P.O.B. - POINT OF BEGINNING
P.O.C. - POINT OF COMMENCEMENT
PCC - POINT OF COMPOUND CURVE
PC - POINT OF CURVATURE
PRC - POINT OF REVERSE CURVE
PT - POINT OF TANGENCY
P.S.M. - PROFESSIONAL SURVEYOR AND MAPPER
PROP. - PROPOSED
R - RADIUS
R/W - RIGHT OF WAY
S - SOUTH
SEC. - SECTION
SF - SQUARE FEET
(SP) - STATE PLANE
SR - STATE ROAD
S/W - SIDEWALK
T - TOP
T.O.B. - TOP OF BANK
T.O.P. - TOP OF PIPE
TYP. - TYPICAL
U.E. - UTILITY EASEMENT
U.P. - UTILITY POLE
W - WEST


BOUTWELL INDUSTRIAL PARK
(P.B. 106, PG. 182)
LOT 13
LOT 14
ARLIN DRIVE
LIFT STATION ESMT.
10' ADDITIONAL CANAL RIGHT-OF-WAY (ORB 19084, PG. 579)
10' U.E.
AERIAL WATER LINE CROSSING
7th AVENUE (50' R/W) NORTH
S88° 07'43"E
400.75'
334.85'
CONTROL STRUCTURE RIM=11.37
ASPHALT PAVEMENT
IRC FD (1.6'W)
BERM
GUARD RAIL
5' LIMITED ACCESS EASEMENT
GUARD RAIL POST ON CORNER
23rd AVENUE SOUTH
656.70'
LOT 5
CONC. PARKING LOT
ZONE AE
ZONE X
72" FICUS
60" TREE
96" FICUS
48" FICUS
60" FICUS
NOTE: ZONE LINES AS SHOWN HEREON SCALED FROM F.E.M.A. FLOOD INSURANCE RATE MAP 12099C0777
TRACT 66
48" TREE
6' CHAIN LINK FENCE
LOT 6
21" ROYAL PALM
MARLIN INDUSTRIAL PARK
(P.B. 53, PG. 170)
E-4 CANAL
TOP OF WATER EL.-6.30
931.08'
20' CANAL RIGHT-OF WAY EASEMENT (O.R.B. 23587, PG. 834)
POND
LOT 7
CONC. PARKING LOT
72" TREE
36" TREE
HEADWALL TOP EL.-7.60
CONTROL STRUCTURE
TRACT "A-1"
120" TREE
S01° 25'48"E
SPOIL PILE
TRACT 66
TRACT 81
IRC FD
N88° 07'04"W
331.03'
WOOD UTILITY POLE ON CORNER
210.81'
TRACT "A-2"
NORTH 210.81 FEET TRACT 81
LOT 15
S01° 46'43"W
N23° 11'33"E
IRC FD (1.8'E)
EDGE OF WATER
N88° 07'04"W
6' CHAIN LINK FENCE
414.88'
IRC FD
REMAINDER TRACT 81 (PLAT BOOK 5, PAGE 79)
LOT 14

LEGAL DESCRIPTION:

TRACT 66 AND THE NORTH 210.81 FEET OF TRACT 81, MODEL LAND CO. SUBDIVISION OF SECTION 20, TOWNSHIP 44 SOUTH, RANGE 43 EAST, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 5, PAGE 79, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.


N
W
E
S
50
0
50
100
150
GRAPHIC SCALE - FEET

NOTES:

1. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLESS SEALED BY THE SIGNING SURVEYOR.
2. THIS DRAWING IS THE PROPERTY OF VIC-SCOTT LAND SURVEYING & MAPPING, AND SHALL NOT BE USED OR REPRODUCED IN WHOLE OR IN PART WITHOUT PERMISSION OF VIC-SCOTT LAND SURVEYING & MAPPING.
3. THE UNDERSIGNED HAS REVIEWED CHICAGO TITLE INSURANCE COMPANY COMMITMENT NUMBER 20-018 FOR RIGHTS-OF-WAY, EASEMENTS, AND OTHER SIMILAR MATTERS OF RECORD.
4. LEGAL DESCRIPTION FURNISHED BY CLIENT.
5. THIS SURVEY DOES NOT PURPORT TO IDENTIFY IMPROVEMENTS BELOW GRADE, IF ANY, EXCEPT AS SPECIFICALLY NOTED HEREON.
6. BUILDING TIES ARE PERPENDICULAR OR RADIAL TO BOUNDARY LINES UNLESS NOTED OTHERWISE.
7. BEARINGS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATE GRID ALONG THE NORTH LINE OF TRACT 66, OF THE PLAT ENTITLED MODEL LAND CO. SUBDIVISION, AS RECORDED IN PLAT BOOK 5, PAGE 79, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, BEARING S88° 07'43"E.
8. ELEVATIONS SHOWN HEREON ARE RELATIVE TO N.A.V.D. 1988.
9. FLOOD ELEVATION INFORMATION:

   COMMUNITY NO. - 120213
   DATE OF FIRM - 10-05-17
   FIRM ZONE - AE / X
   PANEL NO. - 12099C0777
   SUFFIX - F
   BASE FLOOD ELEVATION - 11 / NON-APPLICABLE

10. PROPERTY ADDRESS: 2209 7th AVENUE NORTH, LAKE WORTH, FLORIDA 33461
11. CONTAINING 427,562 SQUARE FEET, 9.82 ACRES MORE OR LESS.
12. TREE TYPE IDENTIFICATION SHOULD BE VERIFIED BY A LANDSCAPE ARCHITECT, BOTONIST, OR OTHER QUALIFIED PROFESSIONAL.
13. CERTIFIED TO: Saul Ewing Arnstein & Lehr LLP
    DOKA USA, Ltd. A N.J corporation
    Willits & Associates, P.A.
    Chicago Title Insurance Company

BOUNDARY SURVEY

SCALE: 1"=50'

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON COMPLIES WITH THE STANDARDS OF PRACTICE FOR SURVEYS AS CONTAINED IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, AND THAT SAID SURVEY IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SCOTT A. GUZZI, PSM
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NUMBER 5108

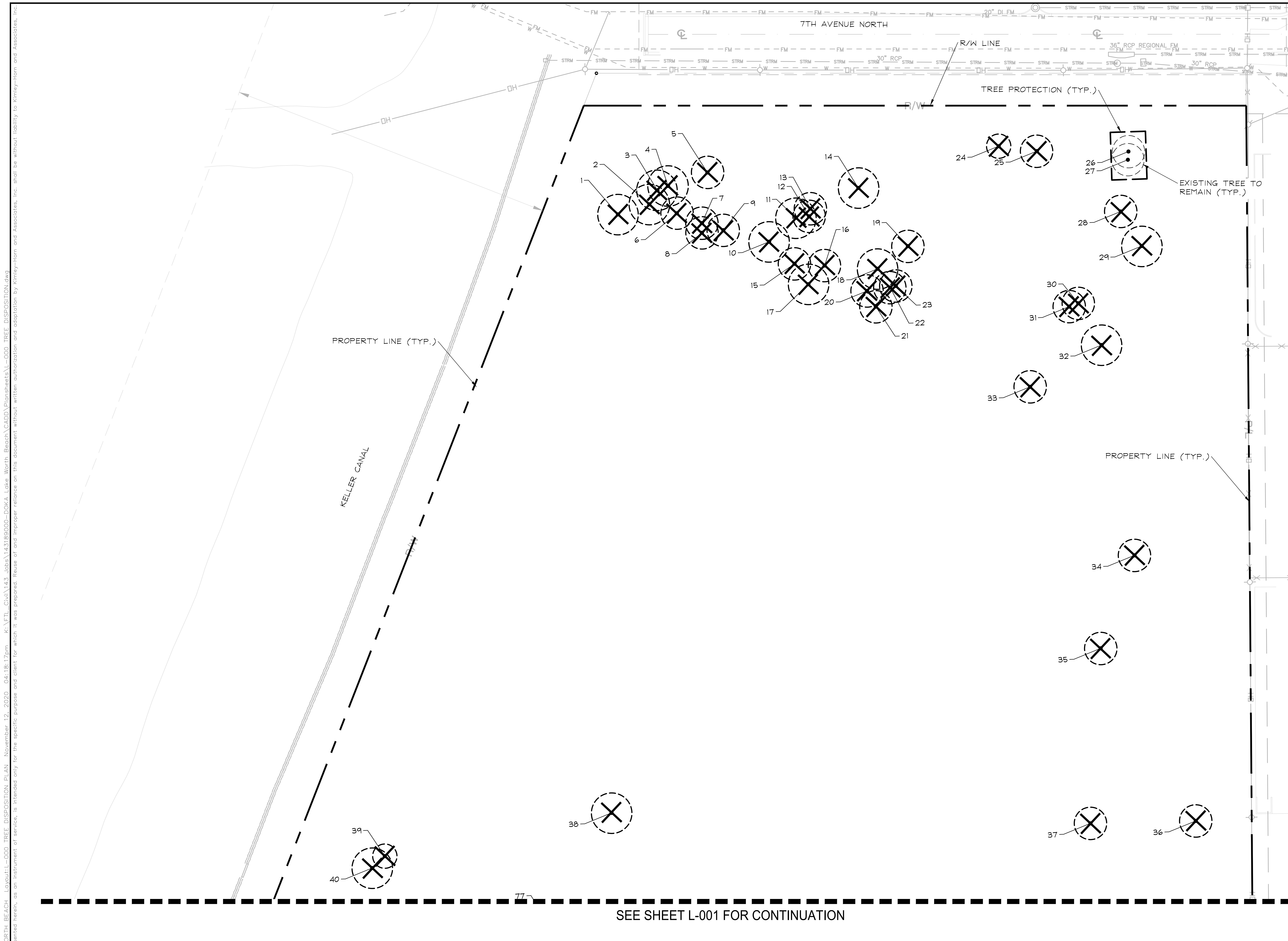
UPDATE		2-25-20	SAG	
TREE SURVEY		7-8-19	SAG	
REVIEW TITLE POLICY		5-14-19	SAG	
ADDENDUM	FB/PG	DATE	BY	CHECKED

VIC-SCOTT LAND SURVEYING & MAPPING
IT'S GOOD!
Certificate of Authorization No. L.B. 6893
6043 Kimberly Boulevard, Suite L
North Lauderdale, FL 33068
Ph: (954) 722-8500
scottguzzi@aol.com

2209 7th AVENUE NORTH
LAKE WORTH, FLORIDA 33461

CLIENT: MIKE SAVINO			
SCALE: 1"=50'	DESIGNED BY:	DRAWN BY:	CHECKED BY:
DATE: 3-6-19	SPRVSD BY:	FIELD BOOK NO. 158	PAGE NO. 26

PROJECT NO.
2294
SHEET NO.
1 OF 1


7TH AVENUE NORTH
R/W LINE
R/W
TREE PROTECTION (TYP.)
EXISTING TREE TO REMAIN (TYP.)
PROPERTY LINE (TYP.)
PROPERTY LINE (TYP.)
KELLER CANAL
20" DI FM
36" RCP REGIONAL FM
30" RCP
30" RCP
STRM
FM
W
OH
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
77

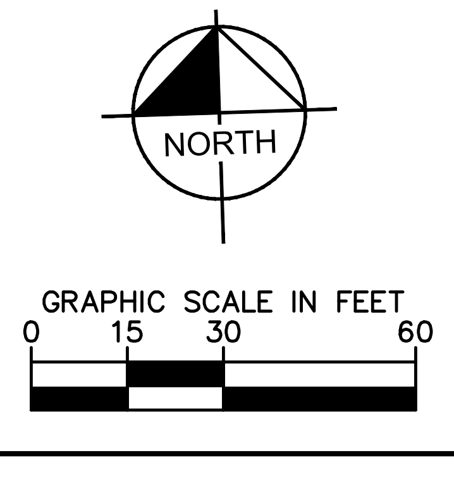
SEE SHEET L-001 FOR CONTINUATION

TREE DISPOSITION LEGEND

TREE # CANOPY SPREAD	EXISTING TREE TO REMAIN
TREE # CANOPY SPREAD	EXISTING TREE TO BE REMOVED
TREE # TREE PROTECTION BARRIER CANOPY SPREAD	EXISTING TREE TO BE PROTECTED PER DETAIL A/L1.01

NOTE: THE TOTAL DBH OF ALL TREES WITH CONDITION RATING OF FIFTY (50) PERCENT OR GREATER REMOVED SHALL BE REPLACED WITH THE EQUIVALENT NUMBER OF DBH INCHES OF REPLACEMENT TREES. REMOVED PALM WITH A CONDITION RATING OF FIFTY (50) PERCENT OR GREATER SHALL BE REPLACED WITH ONE (1) PALM OF EQUAL OVERALL HEIGHT OR A REPLACEMENT PALM OF SIXTEEN (16) FEET OVERALL HEIGHT, WHICHEVER IS GREATER.

SEC. 23.6-1-3-7-c-2/3


NORTH
GRAPHIC SCALE IN FEET
0
15
30
60

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

JONATHAN D. HAIGH, PLA
FLORIDA LICENSE NUMBER
LA 6666795
DATE: 11/12/2020

KHA PROJECT
143189000
DATE
SEP 2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

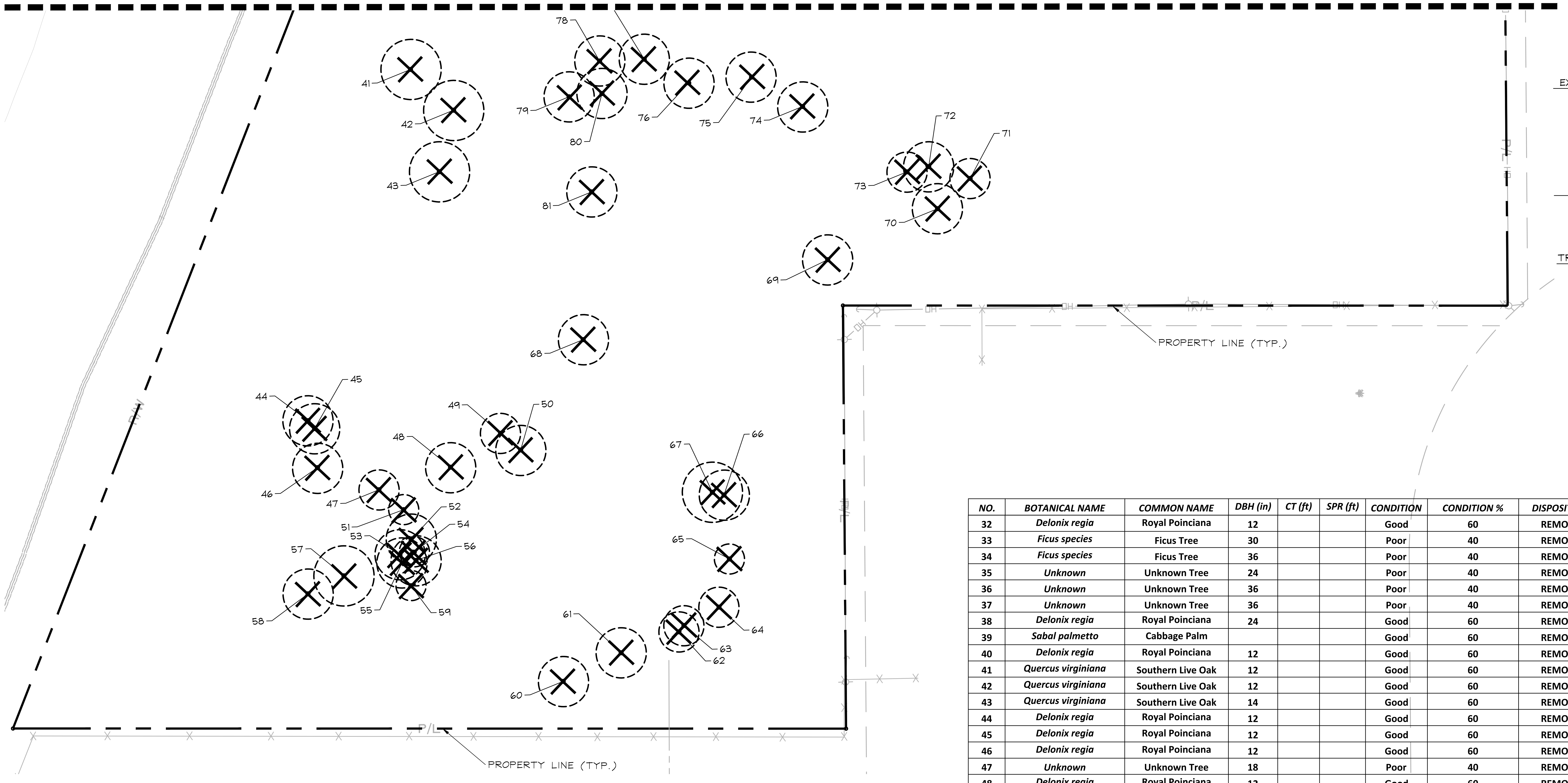
TREE DISPOSITION PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
L-000

Plotted By: Hicks Jr., Darryl Sheet Set: DOKA LAKE WORTH BEACH Layout: L-000 TREE DISPOSITION PLAN November 12, 2020 04:18:17pm K:\FTL_Civil\143 Jobs\143189000-DOKA Lake Worth Beach\CADD\Plansheets\L-000 TREE DISPOSITION.dwg

SEE SHEET L-000 FOR CONTINUATION



EXISTING TREES REMOVED

EXISTING TREE	DBH REMOVED
ROYAL POINCIANA	296"
FICUS TREE	376"
UNKNOWN TREE	63"
SOUTHERN LIVE OAK	38"
TROPICAL ALMOND	110"
MANGO TREE	24"
(6) CABBAGE PALM	
TOTAL	907"

TREE MITIGATION CALCULATIONS

TREES PROVIDED	DBH PROVIDED
(71) BALD CYPRESS @ 6" DBH	426"
(17) LAUREL OAK @ 4" DBH	68"
(13) LIVE OAK @ 6" DBH	78"
(11) GREEN BUTTONWOOD @ 4" DBH	44"
(10) VERAWOOD @ 2" DBH	20"
(49) WAX MYRTLE @ 3" DBH	196"
(11) PIGEON PLUM @ 2" DBH	22"
(27) SILVER BUTTONWOOD @ 2" DBH	54"
(12) CABBAGE PALM	
TOTAL	908"

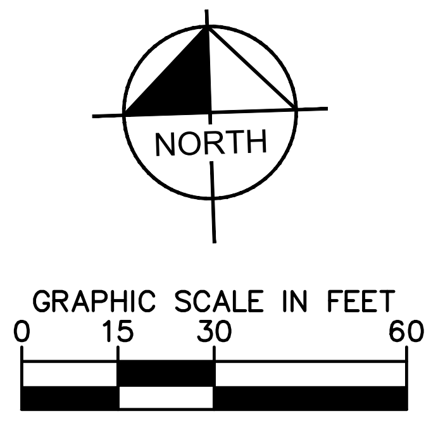
TREE DISPOSITION LEGEND

TREE # CANOPY SPREAD	EXISTING TREE TO REMAIN
TREE # CANOPY SPREAD	EXISTING TREE TO BE REMOVED
TREE # TREE PROTECTION BARRIER CANOPY SPREAD	EXISTING TREE TO BE PROTECTED PER DETAIL A/L1.01

NOTE: THE TOTAL DBH OF ALL TREES WITH CONDITION RATING OF FIFTY (50) PERCENT OR GREATER REMOVED SHALL BE REPLACED WITH THE EQUIVALENT NUMBER OF DBH INCHES OF REPLACEMENT TREES. REMOVED PALM WITH A CONDITION RATING OF FIFTY (50) PERCENT OR GREATER SHALL BE REPLACED WITH ONE (1) PALM OF EQUAL OVERALL HEIGHT OR A REPLACEMENT PALM OF SIXTEEN (16) FEET OVERALL HEIGHT, WHICHEVER IS GREATER.

SEC. 23.6-1-3-7-c-2/3

NO.	BOTANICAL NAME	COMMON NAME	DBH (in)	CT (ft)	SPR (ft)	CONDITION	CONDITION %	DISPOSITION
1	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
2	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
3	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
4	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
5	*Ficus species*	Ficus Tree	12			Good	60	REMOVE
6	*Ficus species*	Ficus Tree	30			Good	60	REMOVE
7	*Ficus species*	Ficus Tree	30			Good	60	REMOVE
8	*Ficus species*	Ficus Tree	30			Good	60	REMOVE
9	*Ficus species*	Ficus Tree	30			Good	60	REMOVE
10	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
11	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
12	*Ficus species*	Ficus Tree	24			Poor	40	REMOVE
13	*Ficus species*	Ficus Tree	24			Poor	40	REMOVE
14	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
15	*Ficus species*	Ficus Tree	30			Poor	40	REMOVE
16	*Ficus species*	Ficus Tree	12			Good	60	REMOVE
17	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
18	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
19	*Ficus species*	Ficus Tree	60			Good	60	REMOVE
20	*Ficus species*	Ficus Tree	24			Good	60	REMOVE
21	*Ficus species*	Ficus Tree	12			Good	60	REMOVE
22	*Ficus species*	Ficus Tree	24			Poor	40	REMOVE
23	*Ficus species*	Ficus Tree	24			Poor	40	REMOVE
24	*Sabal palmetto*	Cabbage Palm				Good	60	REMOVE
25	*Ficus species*	Ficus Tree	24			Poor	40	REMOVE
26	*Ficus species*	Ficus Tree	24			Good	60	REMAIN
27	*Ficus species*	Ficus Tree	30			Good	60	REMAIN
28	*Ficus species*	Ficus Tree	40			Good	60	REMOVE
29	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
30	*Ficus species*	Ficus Tree	18			Good	60	REMOVE
31	*Ficus species*	Ficus Tree	30			Good	60	REMOVE
32	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
33	*Ficus species*	Ficus Tree	30			Poor	40	REMOVE
34	*Ficus species*	Ficus Tree	36			Poor	40	REMOVE
35	*Unknown*	Unknown Tree	24			Poor	40	REMOVE
36	*Unknown*	Unknown Tree	36			Poor	40	REMOVE
37	*Unknown*	Unknown Tree	36			Poor	40	REMOVE
38	*Delonix regia*	Royal Poinciana	24			Good	60	REMOVE
39	*Sabal palmetto*	Cabbage Palm				Good	60	REMOVE
40	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
41	*Quercus virginiana*	Southern Live Oak	12			Good	60	REMOVE
42	*Quercus virginiana*	Southern Live Oak	12			Good	60	REMOVE
43	*Quercus virginiana*	Southern Live Oak	14			Good	60	REMOVE
44	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
45	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
46	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
47	*Unknown*	Unknown Tree	18			Poor	40	REMOVE
48	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
49	*Unknown*	Unknown Tree	15			Good	60	REMOVE
50	*Terminalia catappa*	Tropical Almond	14			Good	60	REMOVE
51	*Sabal palmetto*	Cabbage Palm				Good	60	REMOVE
52	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
53	*Terminalia catappa*	Tropical Almond	12			Good	60	REMOVE
54	*Sabal palmetto*	Cabbage Palm				Good	60	REMOVE
55	*Terminalia catappa*	Tropical Almond	10			Good	60	REMOVE
56	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
57	*Mangifera indica*	Mango Tree	14			Good	60	REMOVE
58	*Delonix regia*	Royal Poinciana	30			Poor	40	REMOVE
59	*Sabal palmetto*	Cabbage Palm				Good	60	REMOVE
60	*Terminalia catappa*	Tropical Almond	12			Good	60	REMOVE
61	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
62	*Unknown*	Unknown Tree	10			Good	60	REMOVE
63	*Unknown*	Unknown Tree	10			Good	60	REMOVE
64	*Unknown*	Unknown Tree	12			Good	60	REMOVE
65	*Sabal palmetto*	Cabbage Palm				Good	60	REMOVE
66	*Terminalia catappa*	Tropical Almond	10			Good	60	REMOVE
67	*Mangifera indica*	Mango Tree	10			Good	60	REMOVE
68	*Terminalia catappa*	Tropical Almond	14			Good	60	REMOVE
69	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
70	*Terminalia catappa*	Tropical Almond	12			Good	60	REMOVE
71	*Ficus species*	Ficus Tree	30			Poor	40	REMOVE
72	*Delonix regia*	Royal Poinciana	20			Poor	40	REMOVE
73	*Unknown*	Unknown Tree	16			Good	60	REMOVE
74	*Terminalia catappa*	Tropical Almond	12			Good	60	REMOVE
75	*Terminalia catappa*	Tropical Almond	14			Good	60	REMOVE
76	*Delonix regia*	Royal Poinciana	24			Poor	40	REMOVE
77	*Delonix regia*	Royal Poinciana	10			Good	60	REMOVE
78	*Delonix regia*	Royal Poinciana	12			Good	60	REMOVE
79	*Delonix regia*	Royal Poinciana	10			Good	60	REMOVE
80	*Delonix regia*	Royal Poinciana	24			Poor	40	REMOVE
81	*Delonix regia*	Royal Poinciana	24			Poor	40	REMOVE



No.	REVISIONS	DATE	BY

Kimley»Horn

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

JONATHAN D. HAIGH, PLA
FLORIDA LICENSE NUMBER
LA 6666795
DATE: 11/12/2020

KHA PROJECT 143189000
DATE SEP 2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

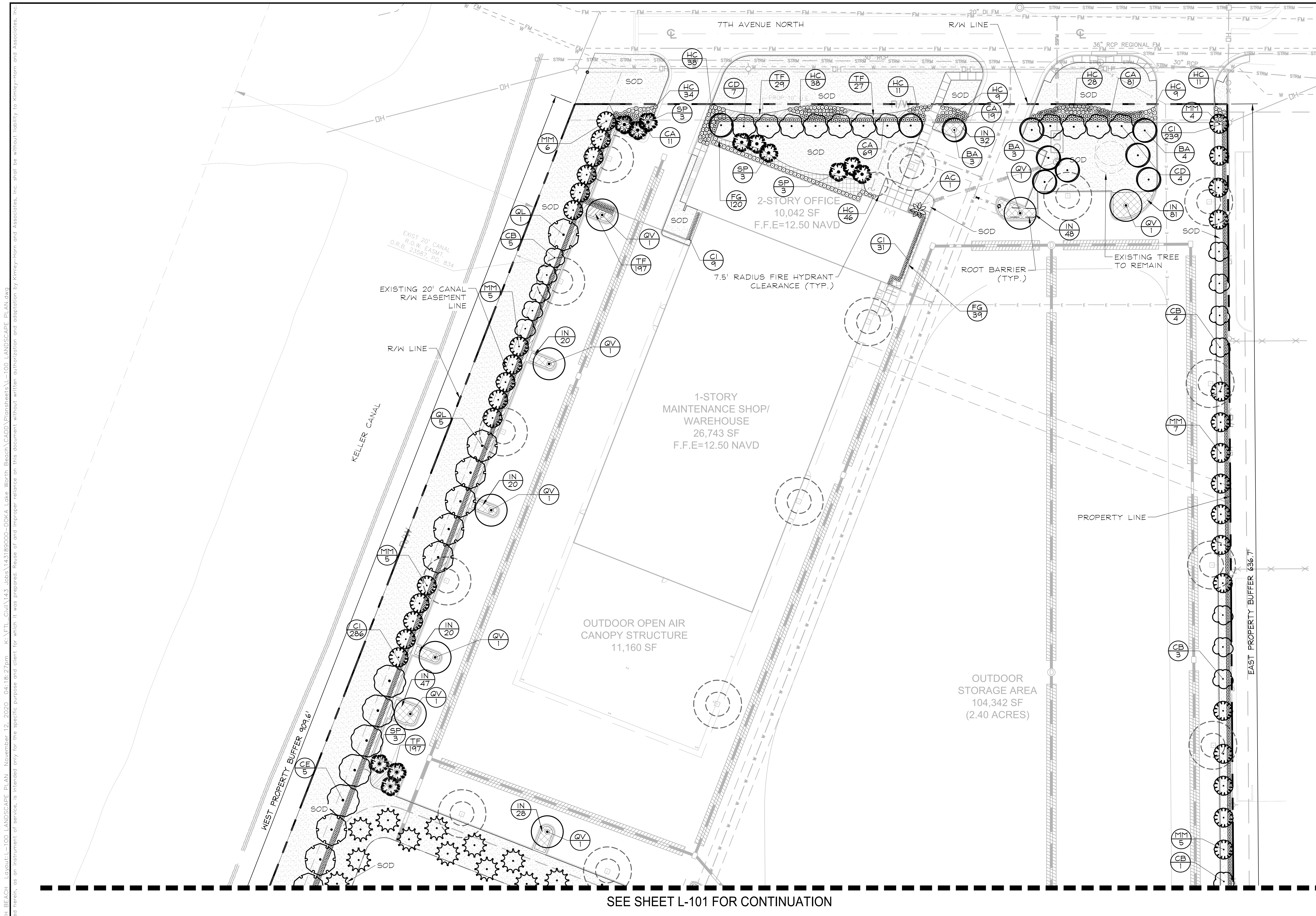
TREE DISPOSITION PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

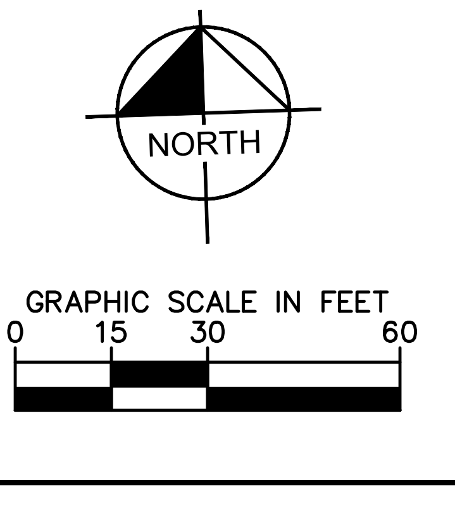
SHEET NUMBER
L-001

Plotted By: Hicks Jr., Darryl Sheet Set: DOKA LAKE WORTH BEACH Layout: L0.01 TREE DISPOSITION PLAN November 12, 2020 04:18:20pm K:\FTL_Civil\143 Jobs\143189000-DOKA Lake Worth Beach\CADD\Plansheets\L-000 TREE DISPOSITION.dwg

Plotted By:Hicks Jr., Darryl Sheet Set:DOKA LAKE WORTH BEACH Layout:L-100 LANDSCAPE PLAN November 12, 2020 04:18:27pm K:\FTL_Civil\143 Jobs\143189000-DOKA Lake Worth Beach\CADD\Plansheets\L-100 LANDSCAPE PLAN.dwg
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.


7TH AVENUE NORTH
R/W LINE
36" RCP REGIONAL FM
30" RCP
20" DI FM
SOD
2-STORY OFFICE
10,042 SF
F.F.E=12.50 NAVD
7.5' RADIUS FIRE HYDRANT CLEARANCE (TYP.)
ROOT BARRIER (TYP.)
EXISTING TREE TO REMAIN
EXISTING 20' CANAL R/W EASEMENT LINE
EXIST 20' CANAL R.O.W. EASMT O.R.B. 23587, PG. 834
R/W LINE
KELLER CANAL
1-STORY MAINTENANCE SHOP/ WAREHOUSE
26,743 SF
F.F.E=12.50 NAVD
OUTDOOR OPEN AIR CANOPY STRUCTURE
11,160 SF
OUTDOOR STORAGE AREA
104,342 SF
(2.40 ACRES)
PROPERTY LINE
WEST PROPERTY BUFFER 909.6'
EAST PROPERTY BUFFER 636.7'
HC 38
HC 34
SP 3
CA 11
MM 6
CD 7
TF 29
HC 38
TF 27
HC 11
HC 9
CA 19
HC 28
CA 81
HC 9
HC 11
MM 4
CA 69
SP 3
SP 3
FG 120
HC 46
IN 32
BA 3
BA 3
AC 1
QV 1
IN 48
CI 239
BA 4
CD 4
IN 81
QV 1
QL 1
CB 5
QV 1
TF 197
CI 9
CI 31
FG 39
MM 5
IN 20
QV 1
QL 5
IN 20
QV 1
CB 4
MM 7
MM 5
CI 286
IN 20
QV 1
IN 47
QV 1
SP 3
TF 197
CE 5
CB 3
IN 28
QV 1
MM 5
CB 1

SEE SHEET L-101 FOR CONTINUATION


NORTH
GRAPHIC SCALE IN FEET
0
15
30
60

PLANT SCHEDULE

TREES	COMMON NAME
AC	Christmas Palm Double Trunk
BA	Verawood
CB	Silver Buttonwood Standard, Single Leader
CD	Pigeon Plum
CE	Green Buttonwood
MM	Wax Myrtle Multi-Trunk, 5 Stems Min. - 3" DBHl. Total
QL	Laurel Oak
QV	Southern Live Oak
SP	Sabal Palm Slick Trunk, Stagger Heights in Groupings
TD	Bald Cypress
SHRUBS	COMMON NAME
CA	Clusia
CI	Red Tip Cocoplum
HC	Compact Firebush
SHRUB AREAS	COMMON NAME
FG	Green Island Ficus
TF	Dwarf Fakahatchee Grass
GROUND COVERS	COMMON NAME
IN	Dwarf Yaupon Holly
SOD	St. Augustine Pro-Vista Grass

No.	REVISIONS	DATE	BY

Kimley»Horn

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

JONATHAN D. HAIGH, PLA
FLORIDA LICENSE NUMBER
LA 6666795
DATE:11/12/2020

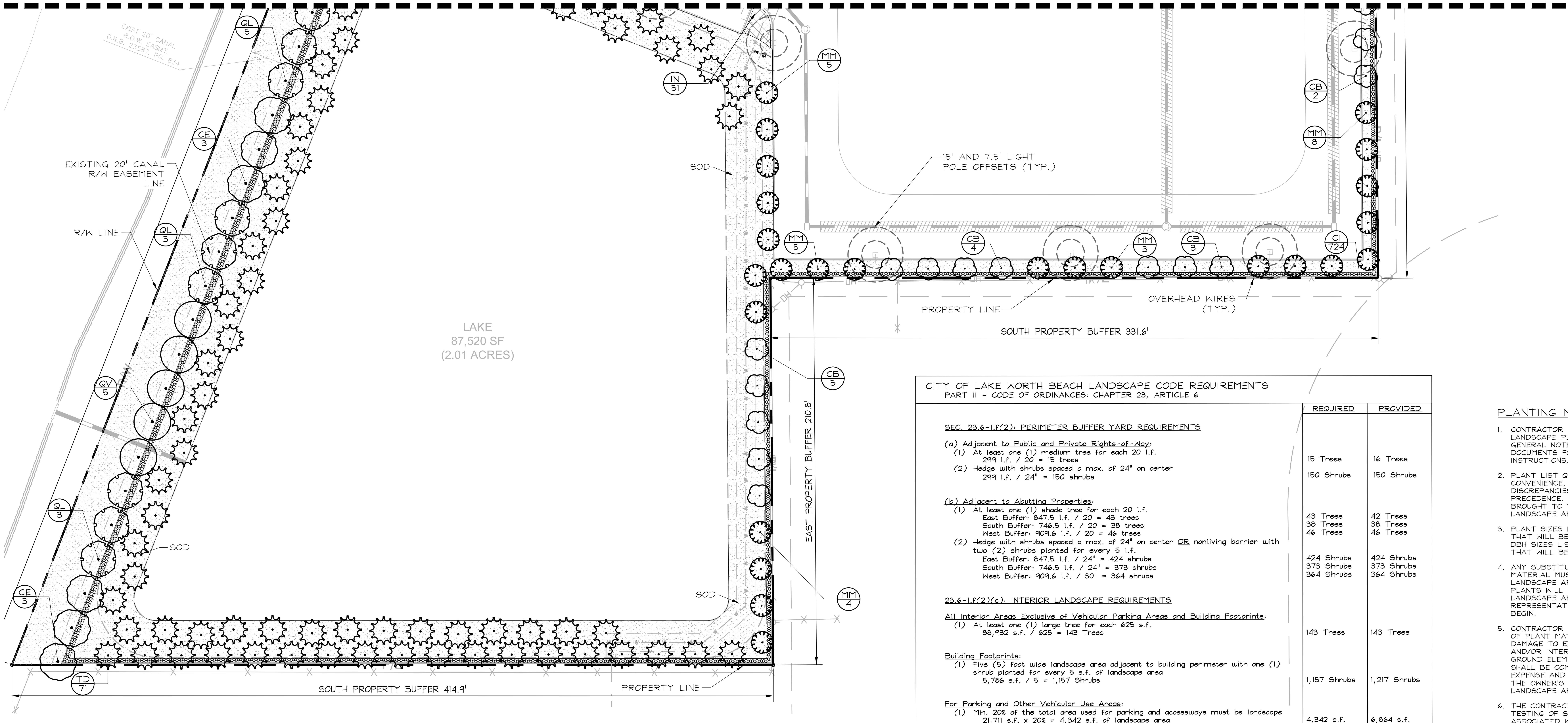
KHA PROJECT
143189000
DATE
SEP 2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

LANDSCAPE PLAN

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
L-100

SEE SHEET L-100 FOR CONTINUATION


EXIST 20' CANAL R.O.W. EASMT. O.R.B. 23587, PG. 834
QL 5
IN 51
MM 5
CB 2
MM 8
CE 3
EXISTING 20' CANAL R/W EASEMENT LINE
SOD
15' AND 7.5' LIGHT POLE OFFSETS (TYP.)
R/W LINE
QL 3
MM 5
CB 4
MM 3
CB 3
CI 724
LAKE
87,520 SF
(2.01 ACRES)
PROPERTY LINE
OVERHEAD WIRES (TYP.)
SOUTH PROPERTY BUFFER 331.6'
CB 5
QV 5
EAST PROPERTY BUFFER 210.8'
QL 3
SOD
SOD
MM 4
CE 3
TD 71
SOUTH PROPERTY BUFFER 414.9'
PROPERTY LINE

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	DROUGHT TOL.	QTY
AC	Adonidia merrilii Double Trunk	Christmas Palm	Cont.		8' OA	No	Yes	1
BA	Bulnesia arborea	Verawood	B & B	2" DBH	12' HT X 6' SPR	No	Yes	10
CB	Conocarpus erectus 'Sericeus' Standard, Single Leader	Silver Buttonwood	B & B	2" DBH	12' HT X 4' SPR	Yes	Yes	27
CD	Coccoloba diversifolia	Pigeon Plum	B & B	2" DBH	12' HT X 6' SPR	Yes	Yes	11
CE	Conocarpus erectus	Green Buttonwood	B & B	4" DBH	12' HT X 6' SPR	Yes	Yes	11
MM	Myrica cerifera Multi-Trunk, 5 Stems Min. - 3" DBHl. Total	Wax Myrtle	B & B	MULTI	12' HT X 4' SPR	Yes	Yes	57
QL	Quercus laurifolia	Laurel Oak	B & B	4" DBH	12' HT X 6' SPR	Yes	Yes	17
QV	Quercus virginiana	Southern Live Oak	B & B	6" DBH	12' HT X 6' SPR	Yes	Yes	13
SP	Sabal palmetto Slick Trunk, Stagger Heights in Groupings	Sabal Palm	B & B		16' - 22' CT	Yes	Yes	12
TD	Taxodium distichum	Bald Cypress	B & B	6" DBH	12' HT X 6' SPR	Yes	Yes	71
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	NATIVE	DROUGHT TOL.	QTY
CA	Clusia rosea	Clusia	Cont.	30" O.C.	24"x24"	Yes	Yes	180
CI	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	30" O.C.	24"x24"	Yes	Yes	1,289
HC	Hamelia patens 'Compacta'	Compact Firebush	Cont.	30" O.C.	24"x24"	Yes	Yes	224
SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	NATIVE	DROUGHT TOL.	QTY
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	Cont.	24" O.C.	15"x15"	No	Yes	159
TF	Tripsacum floridanum	Dwarf Fakahatchee Grass	Cont.	30" O.C.	15" HT	Yes	Yes	271
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	NATIVE	DROUGHT TOL.	QTY
IN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	Cont.	24" O.C.	12"x12"	Yes	Yes	347
SOD	Stenotaphrum secundatum 'Pro-Vista'	St. Augustine Pro-Vista Grass	Sod					±73,086 sf

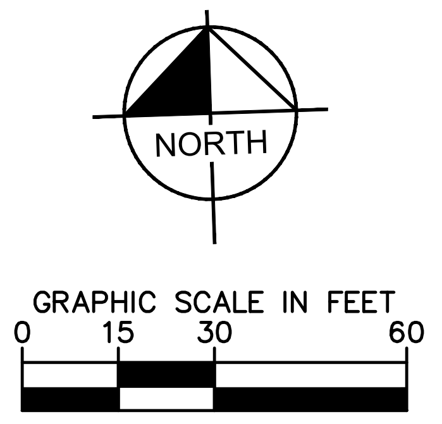
CITY OF LAKE WORTH BEACH LANDSCAPE CODE REQUIREMENTS
PART II - CODE OF ORDINANCES: CHAPTER 23, ARTICLE 6

	REQUIRED	PROVIDED
SEC. 23.6-1.f(2): PERIMETER BUFFER YARD REQUIREMENTS		
(a) Adjacent to Public and Private Rights-of-Way:		
(1) At least one (1) medium tree for each 20 l.f. 299 l.f. / 20 = 15 trees	15 Trees	16 Trees
(2) Hedge with shrubs spaced a max. of 24" on center 299 l.f. / 24" = 150 shrubs	150 Shrubs	150 Shrubs
(b) Adjacent to Abutting Properties:		
(1) At least one (1) shade tree for each 20 l.f.		
East Buffer: 847.5 l.f. / 20 = 43 trees	43 Trees	42 Trees
South Buffer: 746.5 l.f. / 20 = 38 trees	38 Trees	38 Trees
West Buffer: 909.6 l.f. / 20 = 46 trees	46 Trees	46 Trees
(2) Hedge with shrubs spaced a max. of 24" on center OR nonliving barrier with two (2) shrubs planted for every 5 l.f.		
East Buffer: 847.5 l.f. / 24" = 424 shrubs	424 Shrubs	424 Shrubs
South Buffer: 746.5 l.f. / 24" = 373 shrubs	373 Shrubs	373 Shrubs
West Buffer: 909.6 l.f. / 30" = 364 shrubs	364 Shrubs	364 Shrubs
23.6-1.f(2)(c): INTERIOR LANDSCAPE REQUIREMENTS		
All Interior Areas Exclusive of Vehicular Parking Areas and Building Footprints:		
(1) At least one (1) large tree for each 625 s.f. 88,932 s.f. / 625 = 143 Trees	143 Trees	143 Trees
Building Footprints:		
(1) Five (5) foot wide landscape area adjacent to building perimeter with one (1) shrub planted for every 5 s.f. of landscape area 5,786 s.f. / 5 = 1,157 Shrubs	1,157 Shrubs	1,217 Shrubs
For Parking and Other Vehicular Use Areas:		
(1) Min. 20% of the total area used for parking and accessways must be landscape 21,711 s.f. x 20% = 4,342 s.f. of landscape area	4,342 s.f.	6,864 s.f.
(2) One (1) shade tree for every interior island (1 island / every 10 parking spaces) or 100 s.f. 60 parking spaces / 10 = 6 trees	6 Trees	6 Trees
Florida Friendly Landscaping: A minimum of fifty (50) percent of all required trees must be native and (75) percent of all plants must be native.		
(1) Trees: 241 Trees Required x 50% = 121 Trees	121 Trees	185 Trees
All Plant Material: 2,700 Plant Material x 75% = 2,025 Plant Material	2,025 Plants	2,530 Shrubs (93%)

PLANTING NOTES:

1. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT. DBH SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR TREES.
4. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
5. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
7. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

NOTE: PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL FINE GRADE AND SOD ALL DISTURBED AREAS.



No.	REVISIONS	DATE	BY

Kimley»Horn

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

JONATHAN D. HAIGH, PLA
FLORIDA LICENSE NUMBER
LA 6666795
DATE: 11/12/2020

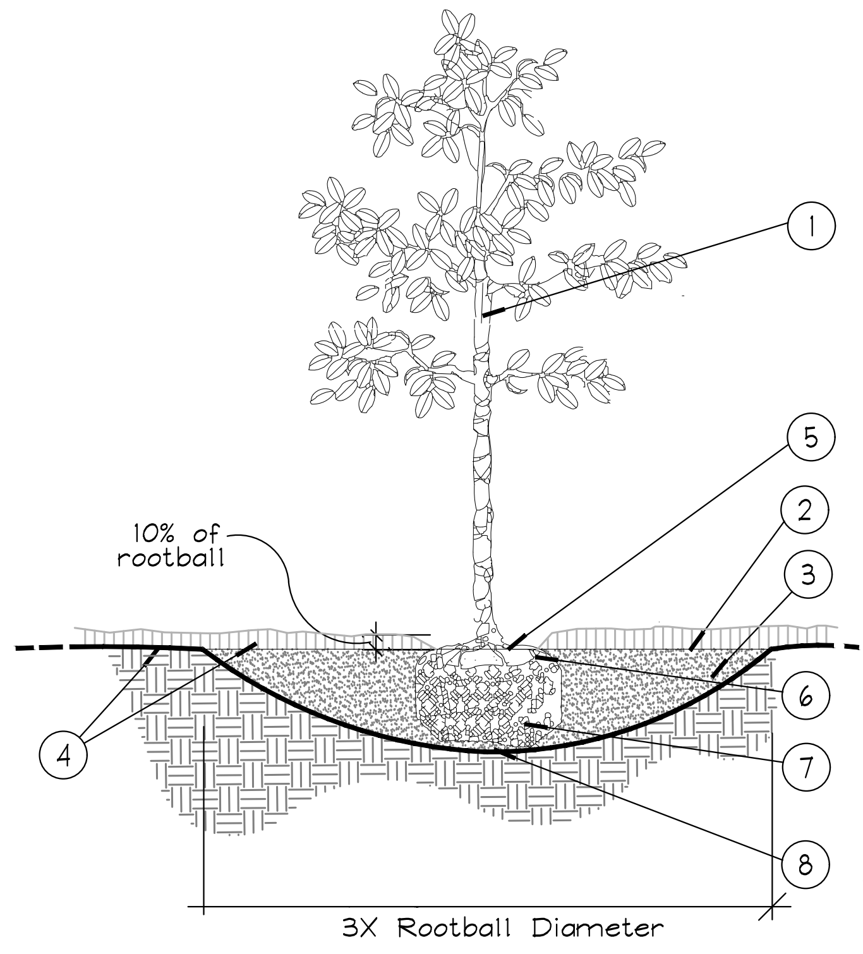
KHA PROJECT
143189000
DATE
SEP 2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

LANDSCAPE PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
L-101

Plotted By: Hicks Jr., Darryl Sheet Set: DOKA LAKE WORTH BEACH Layout: L-101 LANDSCAPE PLAN November 12, 2020 04:18:37pm K:\FTL_Civil\143 Jobs\143189000-DOKA Lake Worth Beach\CADD\Plansheets\L-100 LANDSCAPE PLAN.dwg



1. TRUNK
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW/ WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE - LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. B & B OR CONTAINER (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
7. REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL.
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

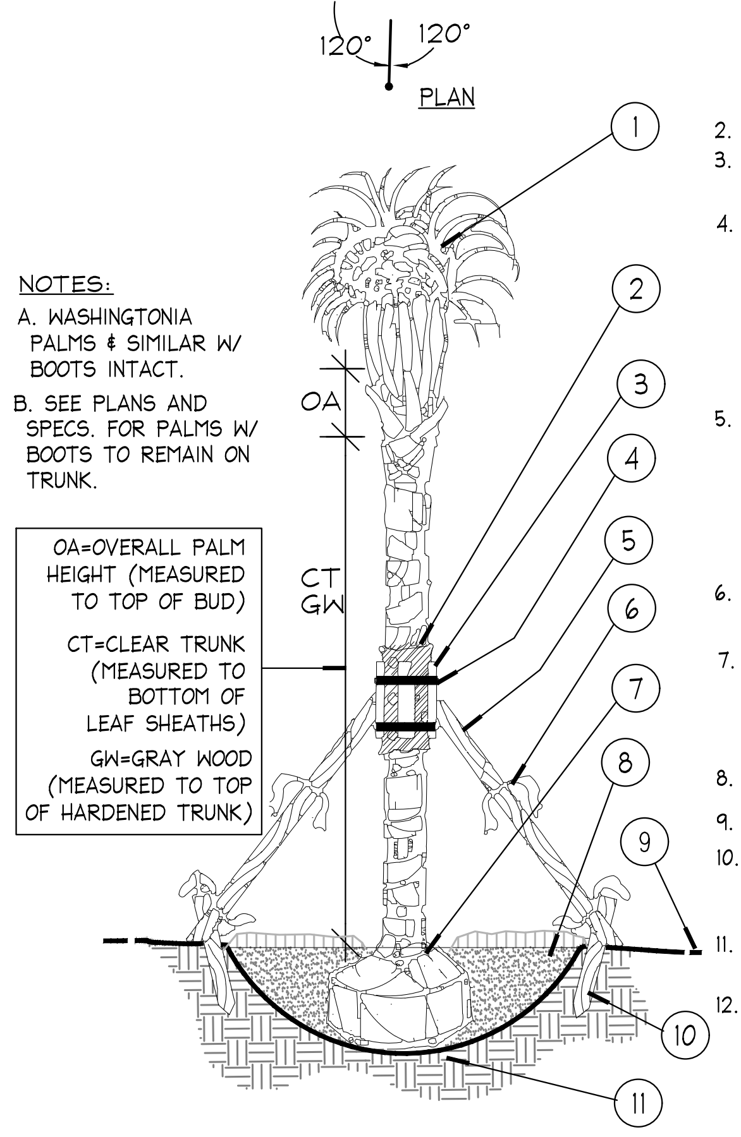
* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

Tree Planting

SECTION NTS

NOTES:

A. WASHINGTONIA PALMS & SIMILAR W/ BOOTS INTACT.
B. SEE PLANS AND SPECS. FOR PALMS W/ BOOTS TO REMAIN ON TRUNK.

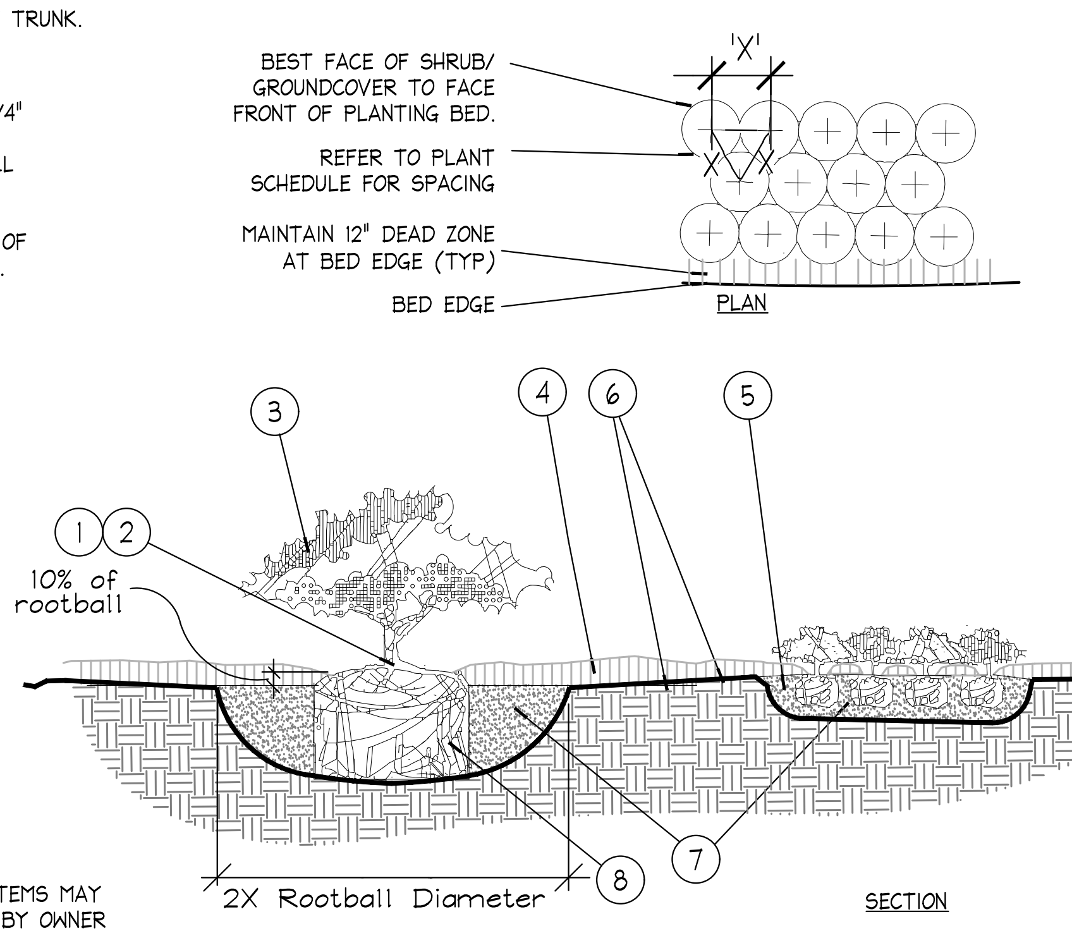

120°
120°
PLAN
OA
CT
GW
OA=OVERALL PALM HEIGHT (MEASURED TO TOP OF BUD)
CT=CLEAR TRUNK (MEASURED TO BOTTOM OF LEAF SHEATHS)
GW=GRAY WOOD (MEASURED TO TOP OF HARDENED TRUNK)
1
2
3
4
5
6
7
8
9
10
11

1. MINIMUM OF NINE (9) GOOD PALM FRONDS; PRUNE AND TIE FRONDS WITH HEMP TWINE. SABAL PALMS TO BE SELECTIVELY "HURRICANE CUT", LEAVING ONLY NEWLY-EMERGING GROWTH.
2. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
3. FIVE (5) 18"L, 2X4 WOOD BATTENS. UNTREATED, #2
4. SECURE BATTENS WITH TWO (2) 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED PROPORTIONATELY TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
5. THREE (3) 8'L 2X4 SUPPORTS. NAIL (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. PALMS SHALL BE PLUMB VERTICALLY UNLESS OTHERWISE NOTED.
6. PROVIDE FLAGGING AT MIDPOINT AND BASE OF SUPPORTS.
7. TOP-MOST ROOT SHALL BE VISIBLE AT THE SURFACE OF THE ROOTBALL, SLIGHTLY ABOVE SURROUNDING GRADE.
8. 3" SPECIFIED MULCH
9. FINISH GRADE
10. 24"L (MIN.) 2X4 P.T. WOOD STAKES, NAIL TO SUPPORT POLES
11. PREPARED PLANTING SOIL AS SPECIFIED
12. ALTERNATE PALM ANCHORING SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
*BROOKS TREE BRACE SYSTEM
*ARBOR TIE TREE BRACING

B Palm Planting and Staking

SECTION NTS


BEST FACE OF SHRUB/ GROUNDCOVER TO FACE FRONT OF PLANTING BED.
REFER TO PLANT SCHEDULE FOR SPACING
MAINTAIN 12" DEAD ZONE AT BED EDGE (TYP)
BED EDGE
'X'
PLAN
3
4
6
5
1
2
10% of rootball
8
7
2X Rootball Diameter
SECTION

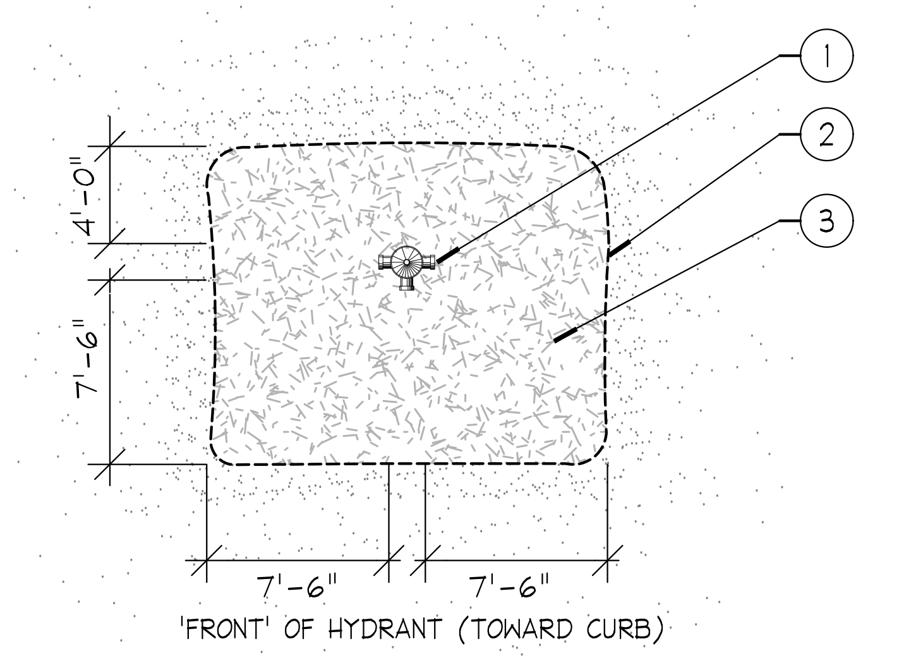
* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

NOTES:

1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SIDES WITH SOIL.
3. PRUNE ALL LIKE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASS/HEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED - DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE 'WATER RINGS' ONLY COVER SIDES OF ROOTBALL WITH MULCH
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUNDCOVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM.

C Shrub / Groundcover Planting

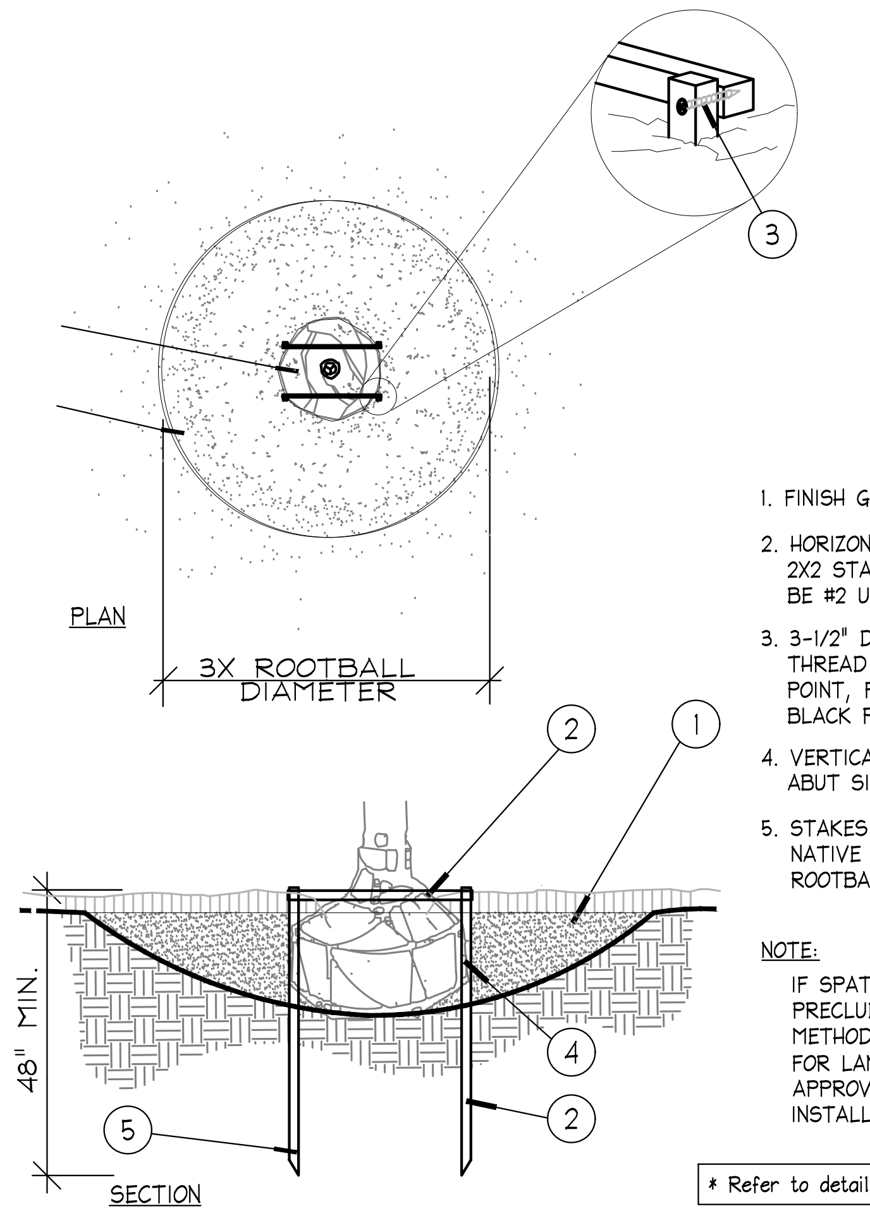
PLAN/SECTION NTS



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, 3" DEPTH MIN., SURROUNDING AREA INDICATED.

D Fire Hydrant Clear Zone

PLAN



1. FINISH GRADE
2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
3. 3-1/2" DRYWALL SCREW, THREAD SIZE 12, SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2 X THE ROOTBALL DEPTH MIN.

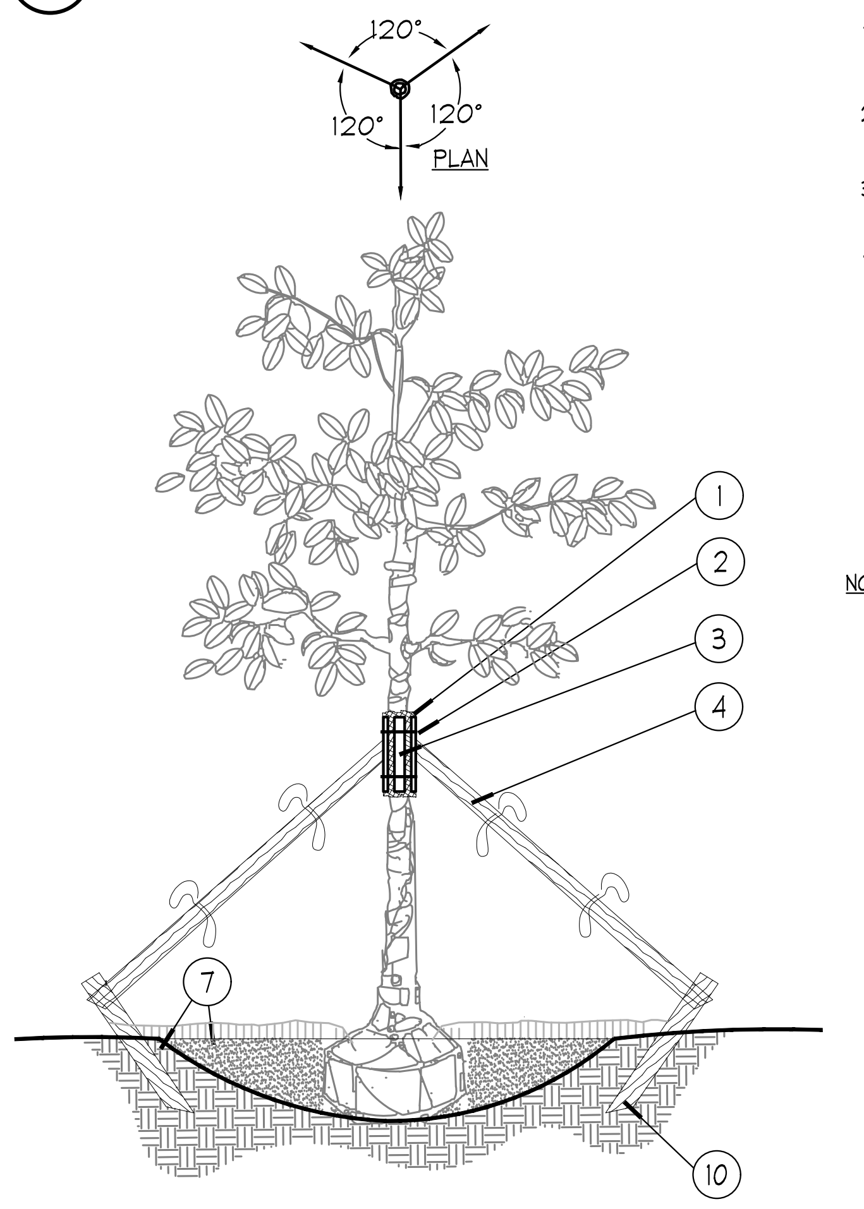
NOTE:

IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

* Refer to details B and D for planting

E Staking - up to 65 gal. or B&B to 3-1/2" Cal.

PLAN/SECTION NTS



1. FIVE (5) LAYERS OF BURLAP TO PROTECT TRUNK
2. TWO STEEL BANDS TO SECURE BATTENS
3. FIVE 2 X 4 X 18"L WOOD BATTENS
4. THREE (3) 2" X 8' LODGE POLES. DRILL, USING GALVANIZED SCREWS, TO BATTENS AND 2" X 4" STAKES. NO SCREWS SHALL PENETRATE TREE. FLAG AT MIDPOINT AND AT BASE.

10. 2" x 4" x 3' (MIN), P.T. WOOD STAKES BURIED 3" BELOW FINISHED GRADE.

7. FINISHED GRADE (SEE GRADING PLAN)

NOTES:

A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

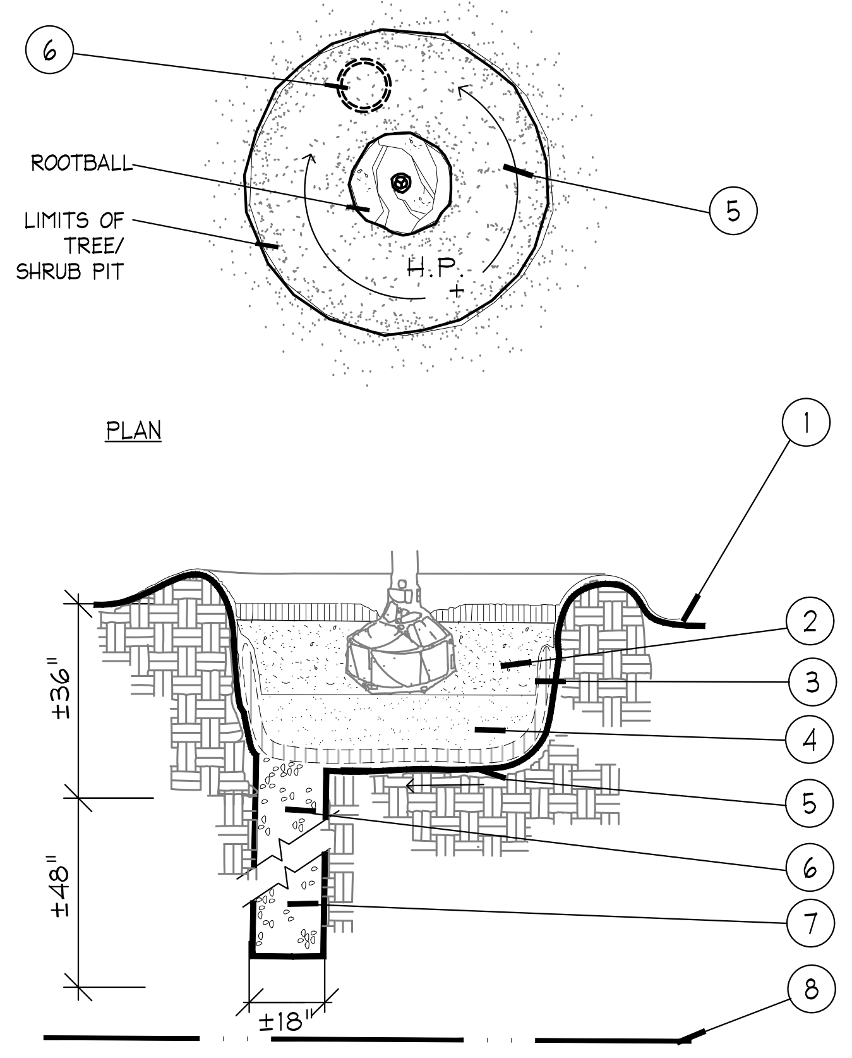
PRE-APPROVED SYSTEMS:
*BROOKS TREE BRACE SYSTEM
*ARBOR TIE TREE BRACING

D. RUBBER HOSE/WIRE SYSTEMS ARE NOT ALLOWED.

* Refer to details B and D for planting

F Large Tree Staking - 100 Gal + or B&B 4" +

SECTION NTS



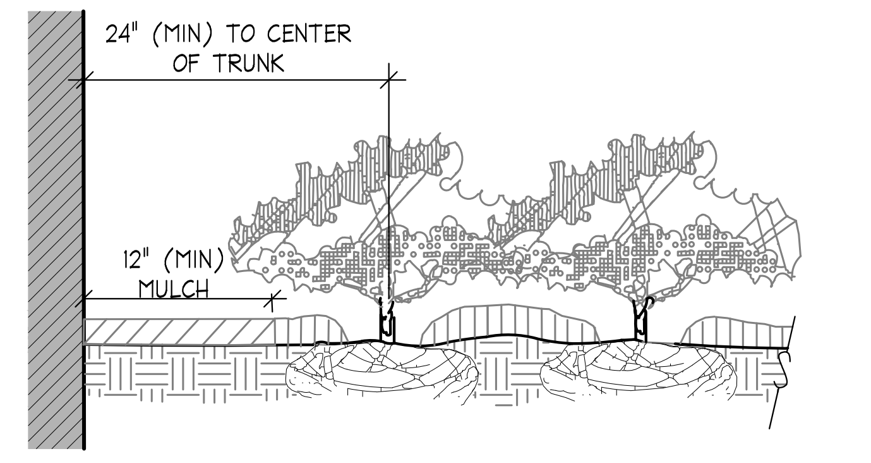
1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER
4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
5. SLOPE BOTTOM TO DRAIN
6. ±18"ø AUGURED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
8. WATER TABLE. (DEPTH VARIES)

NOTE:

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.

REFER TO NOTE 0.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

G Poor Drainage Condition

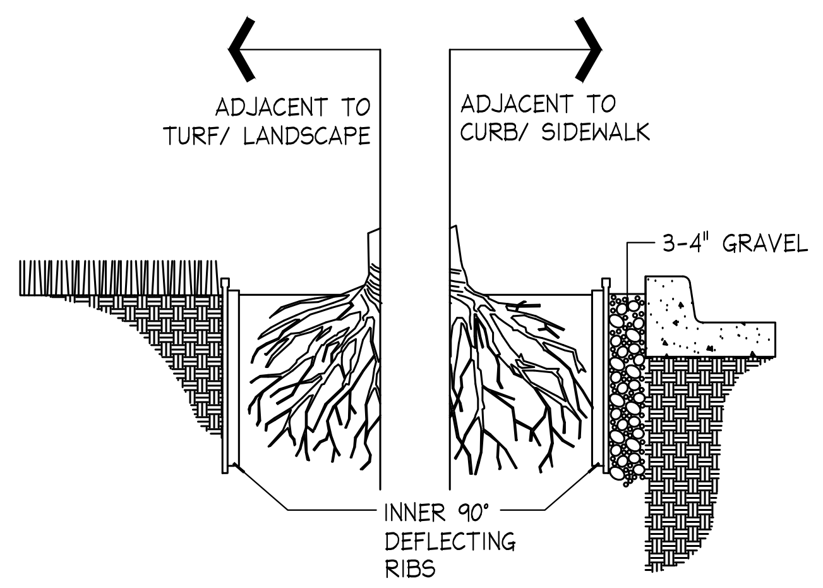


NOTES

* CLEAR ZONE: 24" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.

H Plantings Adjacent to Buildings

SECTION


ADJACENT TO TURF/ LANDSCAPE
ADJACENT TO CURB/ SIDEWALK
3-4" GRAVEL
INNER 90° DEFLECTING RIBS

LINEAR APPLICATION

ROOT BARRIER BY: Century Root Barrier (714)632-7083
(or) DeepRoot (800)458-7668
(or approved equal)

SIZE: 36" D
MATERIAL: POLYETHYLENE WITH ULTRAVIOLET INHIBITORS
THICKNESS: .085 IN. (min.)

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. INSTALL AS REQUIRED, PER PLAN NOTES.
3. SUBMIT PRODUCT DATA FOR APPROVAL.

I Root Barrier

Barrier Detail NTS

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

JONATHAN D. HAIGH, PLA
FLORIDA LICENSE NUMBER
LA 6666795
DATE: 11/12/2020

KHA PROJECT 143189000
DATE SEP 2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

LANDSCAPE DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
L-150

Plotted By: Hicks Jr., Darryl Sheet Set: DOKA LAKE WORTH BEACH Layout: L-100 LANDSCAPE PLAN November 12, 2020 04:20:12pm K:\FTL_Civil\143 Jobs\143189000-DOKA Lake Worth Beach\CADD\Plansheets\L-150 LANDSCAPE DETAILS.dwg
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: Hicks Jr., Darryl Sheet Set: DOKA LAKE WORTH BEACH Layout: L-101 LANDSCAPE PLAN November 12, 2020 04:20:18pm K:\FTL_Civil\143 Jobs\143189000-DOKA Lake Worth Beach\CADD\Plansheets\L-150 LANDSCAPE DETAILS.dwg
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.

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SUBMITTAL
MULCH	PRODUCT DATA
TOPSOIL MIX	AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS
PLANTS	PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY) CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS. INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.
FERTILIZER	PRODUCT DATA
INNOCULANT	PRODUCT DATA
HERBICIDE	PRODUCT DATA
STAKING/GUYING	FOR ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

2. PLANT MATERIALS
   - A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE
   - B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.
   - C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 20% CLEAN FLORIDA MUCK AND 80% PARTS CLEAN SAND. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
2. MUCK (OR MUCKY PEAT) FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, AND OF A VERY HIGH ORGANIC CONTENT DERIVED FROM FLORIDA SOURCES; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
3. SAND FOR USE IN PREPARING SOIL MIXTURE SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

*WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

*FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: "FLORIMULCH" OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, FLORIDA #1 OR BETTER.
2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.
4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.
3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.
4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE , PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.
8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" TO ACHEIVE SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.
17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
4. SODDING
   - A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
   - B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
   - C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.
6. LAWN MAINTENANCE:
   - A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).
   - B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.
4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

Always call 811 two full business days before you dig
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

JONATHAN D. HAIGH, PLA
FLORIDA LICENSE NUMBER
LA 6666795
DATE: 11/12/2020

KHA PROJECT
143189000
DATE
SEP 2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

LANDSCAPE NOTES

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
L-151

PROJECT LOCATION
PALM BEACH COUNTY

OFFICE/INDUSTRIAL FACILITY

FOR

UMDASCH REAL ESTATE USA, LTD

LAKE WORTH BEACH, FLORIDA

SECTION 20, TOWNSHIP 44, RANGE 43

PROJECT TEAM

DEVELOPER
UMDASCH REAL ESTATE USA LTD.
214 GRATES ROAD
LITTLE FERRY, NEW JERSEY

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200
PLANTATION, FL 33324
PHONE: (954) 535-5100
CONTACT: GEORGE BALABAN, P.E.

SURVEYOR
VIC-SCOTT LAND SURVEYING & MAPPING, INC.
6043 KIMBERLY BOULEVARD, SUITE L
NORTH LAUDERDALE, FL 33068
PHONE: (954) 722-8500
CONTACT: SCOTT A. GUZZI, P.S.M.

LANDSCAPE ARCHITECT
KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FL 33411
CONTACT: JONATHAN HAIGH

GEOTECHNICAL ENGINEER
NUTTING ENGINEERING OF FLORIDA, INC.
1310 NEPTUNE DRIVE
BOYNTON BEACH, FL 33426
PHONE: (561) 736-4900
CONTACT: SCOTT ERSLAND

ARCHITECT
HNM ARCHITECTURE
3705 NORTH FEDERAL HIGHWAY
DELRAY BEACH, FL 33483
PHONE: (561) 733-2225
CONTACT: JAIME MAYO

LIST OF CONTACTS

WATER AND SEWER
CITY OF LAKE BEACH WORTH UTILITIES
414 LAKE AVENUE
LAKE WORTH, FLORIDA 33460
PHONE: (561) 586-1798
CONTACT: JULIE PARHAM

FIBER OPTIC
AT&T DISTRIBUTION
1120 S ROGERS CIRCLE
BOCA RATON, FL 33487
PHONE: (561) 997-0240
CONTACT: DINO FARRUGGIO

ELECTRIC PROVIDER
CITY OF LAKE WORTH BEACH - ELECTRIC UTILITIES
1900 2ND AVENUE NORTH
LAKE WORTH, FLORIDA 33461
PHONE: (561) 586-1699
CONTACT: JEAN ST. SIMON

NATURAL GAS PROVIDER
FLORIDA PUBLIC UTILITIES CO
401 SOUTH DIXIE HIGHWAY,
WEST PALM BEACH, FLORIDA 33401
PHONE: (561) 838-1773
CONTACT: CHRISTOPHER C. CANINO

CABLE PROVIDER
COMCAST CABLE
2601 SW 145TH AVENUE
MIRAMAR, FLORIDA 33027
PHONE: (954) 447-8405
CONTACT: LEONARD MAXWELL-NEWBOLD

TELECOMMUNICATIONS PROVIDER
LEVEL 3 COMMUNICATIONS, LLC
1025 ELDORADO BOULEVARD
BROOMFIELD, CO 80021
PHONE: (720) 888-7568

PUBLIC SERVICES
CITY OF LAKE WORTH BEACH
1749 3RD AVENUE SOUTH,
LAKE WORTH, FL 33460
PHONE: (561) 586-1720
CONTACT: FELIPE LOFASO

STORMWATER
SOUTH FLORIDA WATER
MANAGEMENT DISTRICT
3301 GUN CLUB ROAD,
WEST PALM BEACH, FL 33406
PHONE: (561) 682-2624
CONTACT: DUSTIN WOOD, P.E.

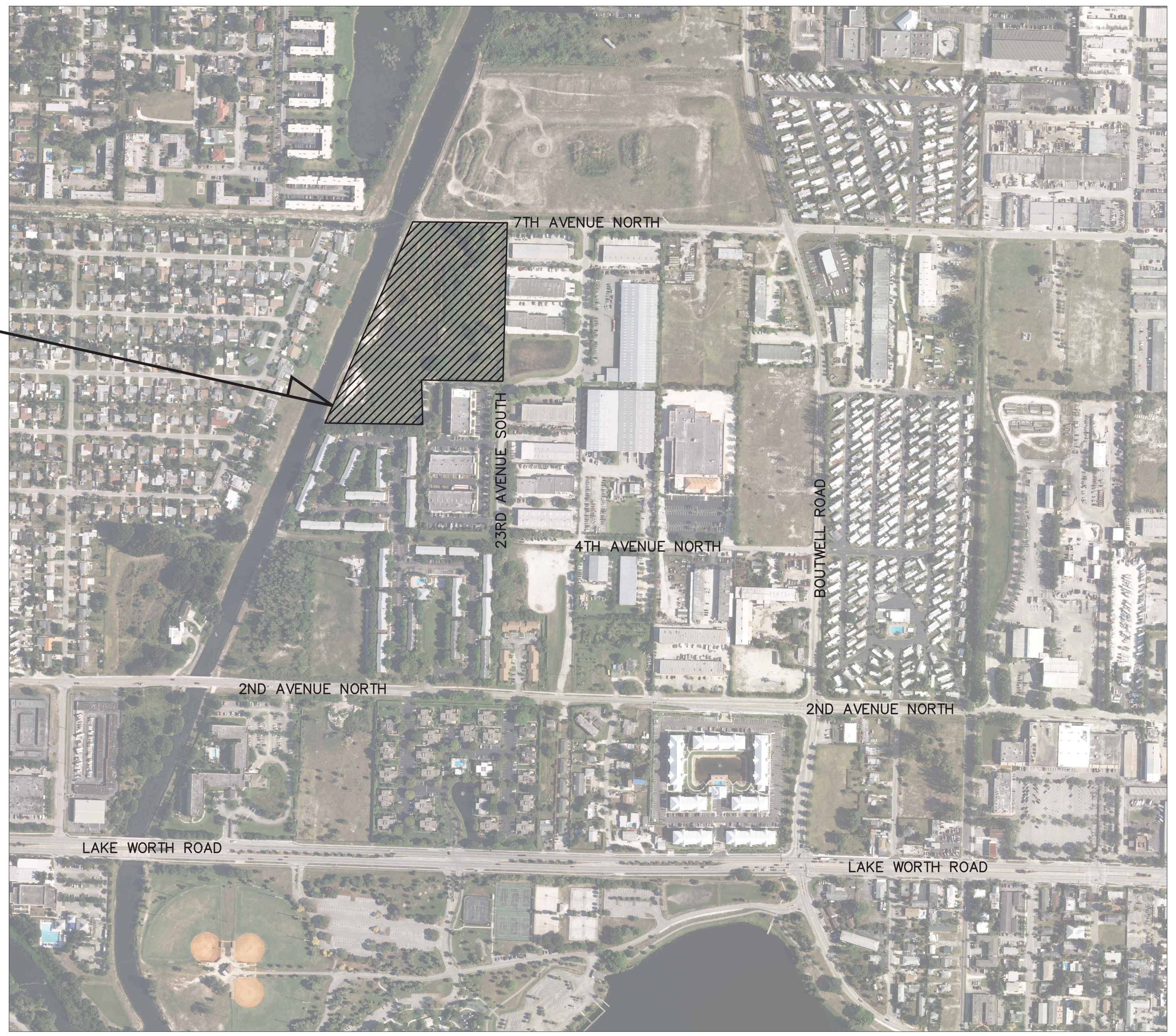
STORMWATER
LAKE WORTH DRAINAGE DISTRICT
PERMIT REVIEW COORDINATOR
13081 MILITARY TRAIL
DELRAY BEACH, FL 33484-1105
PHONE: (561) 819-5588
CONTACT: DAVID VARNER

BUILDING DIVISION
CITY OF LAKE WORTH BEACH
1900 2ND AVENUE NORTH,
LAKE WORTH, FL 33461
PHONE: (561) 586-1647
CONTACT: PETER RINGLE

FIRE RESCUE
PALM BEACH COUNTY
2300 NORTH JOG ROAD, 1ST FLOOR
WEST PALM BEACH, FL 33411
PHONE: (561) 233-0054
CONTACT: PEDRO SEGOVIA

TELEPHONE PROVIDER
AT&T
2021 S MILITARY TRAIL
WEST PALM BEACH, FL 33415
PHONE: (561) 988-6529
CONTACT: JOHN NGUYEN

PROJECT LOCATION



GOOGLE MAPS

VICINITY MAP
1"=1000'

NORTH

PREPARED BY

Kimley»Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM CA 00000696

Sheet List Table

Sheet Number	Sheet Title
C-100	COVER SHEET
C-101	GENERAL NOTES
C-102	DEMOLITION AND EROSION CONTROL NOTES
C-103	DEMOLITION AND EROSION CONTROL PLAN
C-104	DEMOLITION AND EROSION CONTROL PLAN
C-105	DEMOLITION AND EROSION CONTROL DETAILS
C-106	GEOMETRY SIGNAGE AND STRIPING PLAN
C-107	GEOMETRY SIGNAGE AND STRIPING PLAN
C-200	PAVING AND GRADING PLAN
C-201	PAVING AND GRADING PLAN
C-202	DRAINAGE PLAN
C-203	DRAINAGE PLAN
C-204	DRAINAGE DETAILS
C-205	PAVING GRADING AND DRAINAGE DETAILS
C-206	PAVING GRADING AND DRAINAGE DETAILS
C-207	PAVING GRADING AND DRAINAGE DETAILS
C-208	PAVING AND GRADING CROSS SECTIONS
C-300	UTILITY PLAN
C-301	UTILITY PLAN
C-302	CITY OF LAKE WORTH BEACH SEWER DETAILS
C-303	CITY OF LAKE WORTH BEACH SEWER DETAILS
C-304	CITY OF LAKE WORTH BEACH WATER DETAILS
C-305	CITY OF LAKE WORTH BEACH WATER DETAILS

LEGAL DESCRIPTION

TRACT 66 AND THE NORTH 210.81 FEET OF TRACT 81, MODEL LAND CO. SUBDIVISION OF SECTION 20, TOWNSHIP 44 SOUTH, RANGE 43 EAST, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 5, PAGE 79, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

ENGINEERS CERTIFICATION
ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY TO BE CONSTRUCTED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FY 2020/2021 AND 2020 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

George Balaban
GEORGE BALABAN
LICENSE
No 74543
STATE OF
FLORIDA

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

COVER SHEET

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-100

Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-100 COVER SHEET November 12, 2020 03:25:12pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-100 COVER SHEET.dwg
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: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-101 GENERAL NOTES November 12, 2020 03:25:21pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-101 GENERAL NOTES.dwg
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.

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA PUBLIC WORKS MANUAL, AND SPECIFICATIONS, THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), THE FLORIDA BUILDING CODE, AND ALL OTHER LOCAL, COUNTY, STATE, AND FEDERAL STANDARDS GOVERNING THE PROPOSED WORK AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATION THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITION THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE BOTH THE SURFACE AND SUBSURFACE CONDITIONS AND BASE HIS PRICING ACCORDINGLY. GEOTECHNICAL AND ENVIRONMENTAL REPORTS ARE AVAILABLE FOR REVIEW.

4. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.

6. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER, AND THE ENGINEER OF RECORD.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

8. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

9. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.

10. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.

12. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE OWNER, ENGINEER OF RECORD AND APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.

13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE MAINTENANCE OF TRAFFIC FOR THE ADJACENT PROPERTY DURING CONSTRUCTION.

14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL AFFECTED AND ADJACENT PROPERTY OWNERS PRIOR TO BEGINNING WORK.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PROPOSED IMPROVEMENTS. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

16. PRIOR TO GRAND OPENING THE CONTRACTOR SHALL:
    - SWEEP THE ENTIRE SITE
    - ELIMINATE ALL DEBRIS IN THE LANDSCAPING AREAS
    - PRESSURE CLEAN THE SITE ASPHALT
    - PRESSURE CLEAN THE CURBS, SIDEWALKS, AND CONCRETE PAD AT THE DRIVE THRU

SURVEY DATA

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

2. ALL EXISTING CONTROL POINTS AND/OR REFERENCE MARKERS SHALL BE RAISED TO FINAL GRADE. THESE POINTS AND REFERENCE MARKERS SHALL BE LOCATED AND NOTED ON THE AS-BUILTS.

3. THE LOCATION OF EXISTING RIGHT-OF-WAY LINES, CENTERLINES, ROADWAY PAVEMENT, UTILITIES, TREES, AND OTHER PHYSICAL ABOVE-GROUND FEATURES SHOWN ON THE PLANS WERE TAKEN FROM THE SPECIFIC PURPOSE SURVEYS PREPARED BY:

   VIC-SCOTT LAND SURVEYING & MAPPING
   6043 KIMBERLEY BOULEVARD, SUITE L
   NORTH LAUDERDALE, FL 33068
   PHONE: 954-722-8500
   CONTACT: SCOTT A. GUZZI, P.S.M.

4. ALL STATIONS AND OFFSETS ARE REFERENCED TO BASELINE OF SURVEY/CONSTRUCTION BASELINE.

5. EXISTING SECTION CORNERS AND ¼ SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE REFERENCED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND REPLACED IF DISTURBED BY THE CONTRACTOR AT DIRECTION OF A REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA.

6. ANY NAVD88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, NOTIFY:

   GEODETIC INFORMATION CENTER
   ATTN: MARK MAINTENANCE SECTION N/CG-162
   6001 EXECUTIVE BLVD
   ROCKVILLE, MARYLAND 20852
   PHONE: 301-443-8319

PAVING GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.

3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.

5. ALL EARTHEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.

6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.

7. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

8. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE ENGINEER PRIOR TO ANY EXCAVATION.

9. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.

10. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

11. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE EARTHEN AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.

12. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

14. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.

15. SOD, WHERE CALLED FOR, MUST BE INSTALLED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.

16. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.

17. THE CONTRACTOR SHALL ENSURE THAT PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

18. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS AT NO ADDITIONAL COST TO THE OWNER WHEN THE DESIGN CAPACITY HAS BEEN NOTICEABLY REDUCED IN THE OPINION OF THE OWNER OR THE AHJ.

7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE LATEST EDITION OF THE FDOT DESIGN STANDARDS (600 SERIES), AND THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS A MINIMUM CRITERIA.

2. IF ANY DROP-OFF CONDITION CAN NOT BE CREATED AND RESTORED WITHIN THE SAME WORK PERIOD, THE CONTRACTOR SHALL USE BARRIERS PER INDEX 600 OF THE FDOT DESIGN STANDARDS.

3. THE CONTRACTOR SHALL HAVE A TRAFFIC CONTROL OFFICER ON SITE DURING WORK ACTIVITIES.

4. THE CONTRACTOR SHALL NOTIFY ALL LOCAL POLICE DEPARTMENTS, FIRE DEPARTMENTS, AND EMS 48 HOURS IN ADVANCE OF ANTICIPATED DISRUPTION TO THE NORMAL FLOW OF TRAFFIC, INCLUDING DETOURS.

5. THE CONTRACTOR SHALL NOTIFY PALM BEACH COUNTY AND THE PALM BEACH COUNTY SCHOOL DISTRICT TWO WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION.

6. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN FACILITIES PER STANDARD INDEX 660 DURING ALL CONSTRUCTION ACTIVITIES.

TYPICAL ENGINEER OBSERVATIONS

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES:

- PRE-CONSTRUCTION MEETING
- SUBGRADE PREPARATION
- BASE INSTALLATION
- CONCRETE INSTALLATION
- UNDERGROUND PIPING AND UTILITIES INSTALLATION
- INSTALLATION OF STRUCTURES, DDCV, HYDRANTS, METERS, ETC.
- SIDEWALK INSTALLATION
- CONNECTIONS TO WATER AND SEWER MAINS
- TESTS OF UTILITIES
- ANY OTHER INSPECTION FOR WHICH A PERMITTING AGENCY REQUIRES THE ENGINEER TO BE PRESENT

3RD PARTY TEST REPORTS REQUIRED

TEST REPORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT LIMITED TO:

- DENSITY TEST REPORTS
- BACTERIOLOGICAL TESTS FOR WATER SYSTEM
- PRESSURE TEST OF WATER/SEWER
- LEAK TESTS ON SEWER SYSTEM AND GREASE TRAPS
- ANY OTHER TESTING REQUIRED BY JURISDICTIONAL AGENCIES

SHOP DRAWINGS

PRIOR TO FABRICATION OR CONSTRUCTION, SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD FOR REVIEW OF THE FOLLOWING ITEMS:

1. DRAINAGE:

   A. DRAINAGE INLETS, CATCH BASINS, MANHOLES AND STRUCTURES, INCLUDING TOP/BOTTOM SLABS, FRAMES, GRATES, RIMS AND POLLUTANT RETARDANT BAFFLES
   B. TRENCH OR SLOT DRAINS INCLUDING CHANNELS, ANCHORS, GRATES, OUTLETS, ETC.
   C. DRAINAGE WELL STRUCTURES, CASING AND GRATES
   D. DRAINAGE PIPE AND FITTINGS
   E. CLEANOUTS
   F. EXFILTRATION TRENCH FILTER FABRIC

2. WATER DISTRIBUTION

   A. PIPE AND FITTINGS
   B. VALVES AND AIR RELEASE VALVES
   C. FIRE HYDRANTS
   D. BACKFLOW PREVENTION DEVICES
   E. METER VAULTS
   F. TAPPING SLEEVES AND CORPORATION STOPS

3. SANITARY SEWER:

   A. MANHOLES, INCLUDING STRUCTURES, TOP/BOTTOM SLABS, FRAMES AND RIMS
   B. PIPE AND FITTINGS
   C. CLEANOUTS
   D. VALVES AND AIR RELEASE VALVES
   E. PUMP STATION AND ALL RELATED EQUIPMENT

4. ASPHALT MIX

SUBGRADE AND LIMEROCK BASE SECTIONS TO BE INCLUDED

RECORD DRAWINGS

1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.

2. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AS-BUILT GRADES AND LOCATIONS OF FINISHED PAVEMENT, SIDEWALKS, CURBS, AND ALL PHYSICAL IMPROVEMENTS. SUCH GRADES SHALL BE OBTAINED BY A LICENSED SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF FLORIDA, AND SHALL DOCUMENT THE INTENT OF THE PROPOSED GRADES SHOWN ON THE PLANS. THIS SHALL BE DONE AT NO COST TO THE OWNER.

PROJECT CLOSE OUT

1. CLEANING UP

   A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEANUP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT CLEAN.

   B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS/HER WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.

   C. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.

   D. WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE, AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK. THESE AREAS SHALL BE KEPT IN A CLEAN AND NEAT CONDITION.

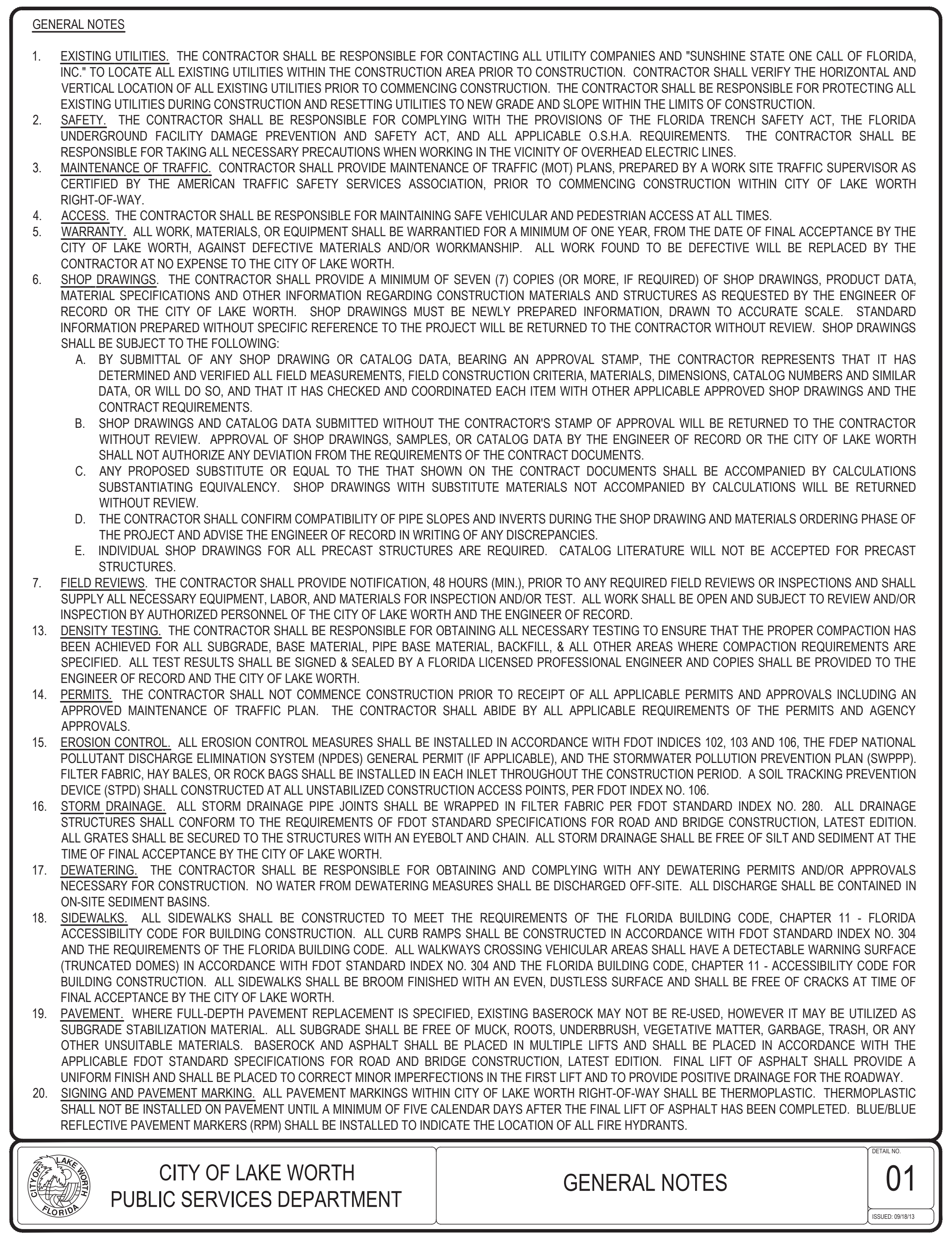
   E. ALL DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATED MATERIAL, DEMOLITION, VEGETATION, RUBBISH AND DEBRIS SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, WITH THE PRIOR APPROVAL OF THE ENVIRONMENTAL ENGINEER. MATERIAL CLEARED FROM THE SITE SHALL NOT BE DEPOSITED ON ADJACENT AND/OR NEARBY PROPERTY.

   F. IMMEDIATELY PRIOR TO GRAND OPENING, CONTRACTOR IS TO SWEEP ENTIRE SITE, ELIMINATE ALL DEBRIS AND FUMIGATE THE LANDSCAPE AREAS AND PRESSURE CLEAN THE SITE ASPHALT, CURB, SIDEWALKS, AND CONCRETE PADS.

2. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

3. CONTRACTOR TO REPLACE ALL FOUND PIPES WITH NAIL AND DISKS.

4. REFER TO F.D.O.T. AND CITY OF LAKE WORTH STANDARDS FOR ADDITIONAL CLOSE-OUT REQUIREMENTS.



GENERAL NOTES

1. EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND "SUNSHINE STATE ONE CALL OF FLORIDA, INC." TO LOCATE ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES DURING CONSTRUCTION AND RESETTING UTILITIES TO NEW GRADE AND SLOPE WITHIN THE LIMITS OF CONSTRUCTION.
2. SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF THE FLORIDA TRENCH SAFETY ACT, THE FLORIDA UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, AND ALL APPLICABLE O.S.H.A. REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS WHEN WORKING IN THE VICINITY OF OVERHEAD ELECTRIC LINES.
3. MAINTENANCE OF TRAFFIC. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC (MOT) PLANS, PREPARED BY A WORK SITE TRAFFIC SUPERVISOR AS CERTIFIED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION, PRIOR TO COMMENCING CONSTRUCTION WITHIN CITY OF LAKE WORTH RIGHT-OF-WAY.
4. ACCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES.
5. WARRANTY. ALL WORK, MATERIALS, OR EQUIPMENT SHALL BE WARRANTIED FOR A MINIMUM OF ONE YEAR, FROM THE DATE OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH, AGAINST DEFECTIVE MATERIALS AND/OR WORKMANSHIP. ALL WORK FOUND TO BE DEFECTIVE WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY OF LAKE WORTH.
6. SHOP DRAWINGS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVEN (7) COPIES (OR MORE, IF REQUIRED) OF SHOP DRAWINGS, PRODUCT DATA, MATERIAL SPECIFICATIONS AND OTHER INFORMATION REGARDING CONSTRUCTION MATERIALS AND STRUCTURES AS REQUESTED BY THE ENGINEER OF RECORD OR THE CITY OF LAKE WORTH. SHOP DRAWINGS MUST BE NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. SHOP DRAWINGS SHALL BE SUBJECT TO THE FOLLOWING:
   A. BY SUBMITTAL OF ANY SHOP DRAWING OR CATALOG DATA, BEARING AN APPROVAL STAMP, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, DIMENSIONS, CATALOG NUMBERS AND SIMILAR DATA, OR WILL DO SO, AND THAT IT HAS CHECKED AND COORDINATED EACH ITEM WITH OTHER APPLICABLE APPROVED SHOP DRAWINGS AND THE CONTRACT REQUIREMENTS.
   B. SHOP DRAWINGS AND CATALOG DATA SUBMITTED WITHOUT THE CONTRACTOR'S STAMP OF APPROVAL WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. APPROVAL OF SHOP DRAWINGS, SAMPLES, OR CATALOG DATA BY THE ENGINEER OF RECORD OR THE CITY OF LAKE WORTH SHALL NOT AUTHORIZE ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
   C. ANY PROPOSED SUBSTITUTE OR EQUAL TO THE THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE ACCOMPANIED BY CALCULATIONS SUBSTANTIATING EQUIVALENCY. SHOP DRAWINGS WITH SUBSTITUTE MATERIALS NOT ACCOMPANIED BY CALCULATIONS WILL BE RETURNED WITHOUT REVIEW.
   D. THE CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING THE SHOP DRAWING AND MATERIALS ORDERING PHASE OF THE PROJECT AND ADVISE THE ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES.
   E. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.
7. FIELD REVIEWS. THE CONTRACTOR SHALL PROVIDE NOTIFICATION, 48 HOURS (MIN.), PRIOR TO ANY REQUIRED FIELD REVIEWS OR INSPECTIONS AND SHALL SUPPLY ALL NECESSARY EQUIPMENT, LABOR, AND MATERIALS FOR INSPECTION AND/OR TEST. ALL WORK SHALL BE OPEN AND SUBJECT TO REVIEW AND/OR INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY OF LAKE WORTH AND THE ENGINEER OF RECORD.
13. DENSITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING TO ENSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED FOR ALL SUBGRADE, BASE MATERIAL, PIPE BASE MATERIAL, BACKFILL, & ALL OTHER AREAS WHERE COMPACTION REQUIREMENTS ARE SPECIFIED. ALL TEST RESULTS SHALL BE SIGNED & SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER AND COPIES SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE CITY OF LAKE WORTH.
14. PERMITS. THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION PRIOR TO RECEIPT OF ALL APPLICABLE PERMITS AND APPROVALS INCLUDING AN APPROVED MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS OF THE PERMITS AND AGENCY APPROVALS.
15. EROSION CONTROL. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDICES 102, 103 AND 106, THE FDEP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (IF APPLICABLE), AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). FILTER FABRIC, HAY BALES, OR ROCK BAGS SHALL BE INSTALLED IN EACH INLET THROUGHOUT THE CONSTRUCTION PERIOD. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL CONSTRUCTED AT ALL UNSTABILIZED CONSTRUCTION ACCESS POINTS, PER FDOT INDEX NO. 106.
16. STORM DRAINAGE. ALL STORM DRAINAGE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC PER FDOT STANDARD INDEX NO. 280. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL GRATES SHALL BE SECURED TO THE STRUCTURES WITH AN EYEBOLT AND CHAIN. ALL STORM DRAINAGE SHALL BE FREE OF SILT AND SEDIMENT AT THE TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
17. DEWATERING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY DEWATERING PERMITS AND/OR APPROVALS NECESSARY FOR CONSTRUCTION. NO WATER FROM DEWATERING MEASURES SHALL BE DISCHARGED OFF-SITE. ALL DISCHARGE SHALL BE CONTAINED IN ON-SITE SEDIMENT BASINS.
18. SIDEWALKS. ALL SIDEWALKS SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 11 - FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 AND THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. ALL WALKWAYS CROSSING VEHICULAR AREAS SHALL HAVE A DETECTABLE WARNING SURFACE (TRUNCATED DOMES) IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 AND THE FLORIDA BUILDING CODE, CHAPTER 11 - ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL SIDEWALKS SHALL BE BROOM FINISHED WITH AN EVEN, DUSTLESS SURFACE AND SHALL BE FREE OF CRACKS AT TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
19. PAVEMENT. WHERE FULL-DEPTH PAVEMENT REPLACEMENT IS SPECIFIED, EXISTING BASEROCK MAY NOT BE RE-USED, HOWEVER IT MAY BE UTILIZED AS SUBGRADE STABILIZATION MATERIAL. ALL SUBGRADE SHALL BE FREE OF MUCK, ROOTS, UNDERBRUSH, VEGETATIVE MATTER, GARBAGE, TRASH, OR ANY OTHER UNSUITABLE MATERIALS. BASEROCK AND ASPHALT SHALL BE PLACED IN MULTIPLE LIFTS AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. FINAL LIFT OF ASPHALT SHALL PROVIDE A UNIFORM FINISH AND SHALL BE PLACED TO CORRECT MINOR IMPERFECTIONS IN THE FIRST LIFT AND TO PROVIDE POSITIVE DRAINAGE FOR THE ROADWAY.
20. SIGNING AND PAVEMENT MARKING. ALL PAVEMENT MARKINGS WITHIN CITY OF LAKE WORTH RIGHT-OF-WAY SHALL BE THERMOPLASTIC. THERMOPLASTIC SHALL NOT BE INSTALLED ON PAVEMENT UNTIL A MINIMUM OF FIVE CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED. BLUE/BLUE REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE INSTALLED TO INDICATE THE LOCATION OF ALL FIRE HYDRANTS.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

GENERAL NOTES

DETAIL NO. 01
ISSUED: 09/18/13

CITY OF LAKE WORTH BEACH NOTES

1. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL ENSURE THE ENTIRE SURROUNDING OFF-SITE INFRASTRUCTURE INCLUSIVE OF THE ROADWAY, SIDEWALK, CURBING, STORMWATER SYSTEM PIPING AND STRUCTURES, VALVE BOXES, MANHOLES, LANDSCAPING, STRIPING, SIGNAGE, AND OTHER IMPROVEMENTS ARE IN THE SAME CONDITION AS PRIOR TO CONSTRUCTION

2. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL FINE GRADE AND SOD ALL DISTURBED AREAS WITH BAHIA SOD.

3. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL BROOM SWEEP ALL AREAS OF THE AFFECTED RIGHT OF WAY AND REMOVE OF ALL SILT AND DEBRIS COLLECTED AS A RESULT OF CONSTRUCTION ACTIVITY.

4. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL RESTORE THE RIGHT OF WAY TO A LIKE OR BETTER CONDITION. ANY DAMAGES TO PAVEMENT, CURBING, STRIPING, SIDEWALKS OR OTHER AREAS SHALL BE RESTORED IN KIND.

George Balaban

Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:10:45 -05'00'

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: 11/12/2020

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

GENERAL NOTES

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-101

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-102 DEMOLITION AND EROSION CONTROL NOTES November 12, 2020 03:25:29pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-102 DEMOLITION & EROSION CONTROL NOTES.dwg
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.

CIVIL RELATED DEMOLITION NOTES AND SPECIFICATIONS:

SHOULD ANY SECTION OF THESE DEMOLITION NOTES BE IN DIRECT CONFLICT WITH THE PROVISIONS OR TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENT FOR THIS PROJECT, THE INTENT OF THE CONTRACT DOCUMENT SHALL GOVERN.

I. GENERAL

FOR THIS PROJECT, "OWNER" SHALL MEAN 2209 NW 7TH AVE, LLC., "SURVEY" SHALL MEAN THE BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY VIC-SCOTT LAND SURVEYING & MAPPING ON 03/06/19 AND "ENGINEER" SHALL MEAN THE ENGINEER OF RECORD.

1. EXISTING CONDITIONS, UTILITIES, STRUCTURES AND OTHER IMPROVEMENTS, AS SHOWN ON THE DEMOLITION DRAWINGS, WERE TAKEN FROM THE SURVEY, AND FROM INFORMATION PROVIDED BY UTILITY COMPANIES. AN ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING STRUCTURES, UTILITIES, DRIVES, WALKS, ETC., IN THEIR APPROXIMATE LOCATION. OTHERS MAY EXIST AND MAY BE FOUND UPON VISITING THE SITE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE ALL FACILITIES AND TO DETERMINE THEIR EXTENT. IF SUCH FACILITIES OBSTRUCT THE PROGRESS OF THE WORK AND ARE NOT INDICATED TO BE REMOVED OR RELOCATED, THEY SHALL BE REMOVED OR RELOCATED ONLY AS DIRECTED BY THE OWNER, ARCHITECT, OR ENGINEER OF RECORD, AT NO ADDITIONAL COST TO THE OWNER.
2. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE BOUNDARY AND TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. ORGANIZE AND PERFORM DEMOLITION WORK TO AVOID DAMAGE TO EXISTING ITEMS INTENDED TO REMAIN, INCLUDING TREES.
4. DEMOLITION AND REMOVAL OPERATIONS SHALL BE CONDUCTED IN AN EXPEDIENT MANNER, WITH PRECAUTIONS TAKEN TO PREVENT THE DEMOLITION SITE FROM BEING A NUISANCE.
5. PERFORM REMOVAL AND DEMOLITION IN ACCORDANCE WITH DEMOLITION SCHEDULE (REFER TO SECTION IV.) AND TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING ADJACENT BUILDINGS, FURNISHINGS, AND EQUIPMENT. NOTIFY THE ENGINEER OF ANY CONDITIONS THAT MAY AFFECT THE SAFETY OF OCCUPANTS OF ADJACENT BUILDINGS, THE NORMAL USE OF THESE FACILITIES, OR THE PHYSICAL CONDITION OF THE STRUCTURES.
6. ALL EXISTING UTILITIES OUTSIDE THE PROPERTY BOUNDARIES ARE TO REMAIN, UNLESS OTHERWISE NOTED.
7. PRIOR TO DEMOLITION ACTIVITIES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL AFFECTED UTILITY COMPANIES IN ORDER TO COORDINATE THE DEACTIVATION OF ALL EXISTING UTILITY LINES WITHIN THE PROPERTY. ONCE ALL ONSITE UTILITIES HAVE BEEN DEACTIVATED, ALL LINES SHALL BE CUT AND CAPPED INSIDE THE PROPERTY LINE, AND REMOVED (UNLESS OTHERWISE INDICATED).
8. THE CONTRACTOR SHALL USE EXTREME CAUTION IN REMOVING ANY STRUCTURES AND UTILITIES ABOVE AND BELOW GRADE TO PREVENT DAMAGE TO EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE. ANY DAMAGE TO EXISTING PIPELINES, UTILITIES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, IN A MANNER ACCEPTABLE TO THE PARTY IN OWNERSHIP OF THE DAMAGED PROPERTY. THE CONTRACTOR SHALL REPORT ANY EXISTING DAMAGE PRIOR TO BEGINNING WORK. IN THE EVENT OF ACCIDENTAL DISRUPTION OF UTILITIES OR THE DISCOVERY OF PREVIOUSLY UNKNOWN UTILITIES, STOP WORK IMMEDIATELY AND NOTIFY THE AFFECTED UTILITY COMPANY AND THE ENGINEER. DO NOT CONTINUE WORK UNTIL THE UTILITY COMPANY, ENGINEER, AND CONTRACTOR AGREE ON A PLAN TO CORRECT THE SITUATION OR IDENTIFY THE UTILITY SERVICE LINE.
9. EXISTING WORK NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY REMOVED, DAMAGED, EXPOSED, OR IN ANY WAY DISTURBED OR ALTERED BY THE CONTRACTORS ACTIVITIES SHALL BE REPAIRED, PATCHED OR REPLACED, SOLELY AT THE CONTRACTOR'S EXPENSE, TO THE ENGINEER'S AND OWNER'S SATISFACTION.
10. TITLE AND RESPONSIBILITY TO MATERIALS AND EQUIPMENT TO BE REMOVED, EXCEPT SALVAGEABLE EQUIPMENT TO BE RETAINED BY THE OWNER, IS VESTED TO THE CONTRACTOR UPON RECEIPT OF NOTICE TO PROCEED. THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS OR DAMAGE TO SUCH MATERIALS AND EQUIPMENT AFTER THE ISSUANCE OF THE NOTICE TO PROCEED.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO:

A. PROTECT ALL EXISTING STRUCTURAL AND VEGETATIVE ELEMENTS TO REMAIN DURING DEMOLITION UNLESS OTHERWISE SPECIFIED. CONTRACTOR TO OBTAIN APPROVAL FROM THE CITY OF DEERFIELD BEACH PLANNING DEVELOPMENT SERVICES AND ENVIRONMENTAL SERVICES/ENGINEERING FOR ANY EXCAVATION WITHIN FIFTEEN (15) FEET OF A CITY-OWNED TREE.

B. IF APPLICABLE, PATCH AND REPAIR ALL SURFACES WITHIN THE PUBLIC R/W AFFECTED BY DEMOLITION.

C. SAW-CUT IN NEAT, STRAIGHT LINES, EXISTING CONCRETE OR ASPHALT PAVEMENT.

D. ALL EXISTING CHAIN LINK FENCES AND CBS WALLS ALONG THE PERIMETER OF THE PROPERTY SHALL REMAIN, UNLESS OTHERWISE SPECIFIED.

E. NO ELECTRIC POLES, STREET LIGHTS, WATER METERS/VALVES, FIRE HYDRANTS ETC. WILL BE REMOVED WITHIN THE ROADWAY RIGHT-OF-WAY, UNLESS OTHERWISE NOTED ON THE PLANS.

F. MAINTAIN ALL EXISTING SURVEY REFERENCES AND MARKERS IN PLACE, OTHERWISE THEY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

G. REFER TO LANDSCAPE PLANS FOR VERIFICATION OF ALL EXISTING TREES TO BE REMOVED, RELOCATED OR TO REMAIN.

H. REMOVE ALL EXISTING IRRIGATION LINES WITHIN THE LIMITS OF DEMOLITION UNLESS OTHERWISE NOTED.

II. DESCRIPTION

1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC., NECESSARY AND INCIDENTAL TO THE COMPLETION OF ALL SITE DEMOLITION AND CLEARING WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING THE LEGAL TRANSPORT AND OFF-SITE DISPOSAL OF DEMOLITION DEBRIS.
2. ALL SITE WORK INCLUDES , BUT IS NOT LIMITED TO THE FOLLOWING:

D. FULL-DEPTH REMOVAL OF EXISTING SIDEWALKS, DRIVES, CURBS, AND PAVEMENT.

E. FULL DEPTH REMOVAL OF EXISTING BUILDING FOUNDATIONS, UNDERGROUND UTILITIES AND RELATED STRUCTURES.

F. CLEARING SITE OF DEMOLITION DEBRIS.

G. REMOVAL FROM SITE AND DISPOSAL OF ALL EXCESS AND UNUSABLE MATERIAL.

H. COORDINATION WITH ALL UTILITY COMPANIES/OWNERS PRIOR TO DEACTIVATION OF EXISTING UTILITIES.

I. COORDINATION WITH GOVERNING AGENCIES FOR PROPOSED DEMOLITION AND CONSTRUCTION WORK ALONG 7TH AVE N.

III. APPLICABLE CODES

1. DEMOLITION AND TRANSPORTATION OF DEBRIS SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS GOVERNING THESE OPERATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY PERMITS, BONDS, LICENSES, ETC., REQUIRED FOR DEMOLITION AND CLEARING WORK.
2. ANY WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF CITY OF LAKE WORTH PUBLIC WORKS DEPARTMENT, AND OTHER GOVERNMENTAL AGENCIES WHO MAY HAVE JURISDICTION OF THE PUBLIC RIGHT-OF-WAY. SAID WORK SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS OBTAINED ALL PERMITS AND NOTIFIED ALL THE GOVERNING AUTHORITIES.

IV. SEQUENCING AND SCHEDULING

1. AREAS ADJACENT TO DEMOLITION AND REMOVAL WORK MAY BE OCCUPIED AND THEIR ACTIVITIES CANNOT BE INTERRUPTED OR DISTURBED DURING NORMAL WORKING HOURS. DEMOLITION SCHEDULE SHALL BE COORDINATED WITH ALL ADJACENT PROPERTY OWNERS AND ANY OTHER PARTIES WHOSE DAILY ACTIVITIES WOULD BE AFFECTED BY THE DEMOLITION WORK.
2. COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR UTILITY LINE REMOVAL, CAPPING AND UTILITY SHUTDOWNS NECESSITATED BY REMOVAL WORK.

V. ENVIRONMENTAL PROTECTION

1. CONTROL AMOUNT OF DUST RESULTING FROM CONSTRUCTION OR DEMOLITION TO PREVENT SPREAD OF DUST TO OTHER BUILDINGS AND TO AVOID CREATION OF A NUISANCE IN SURROUNDING AREAS. USE OF WATER TO CONTROL DUST WILL NOT BE PERMITTED WHEN IT WILL RESULT IN, OR CREATE, HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS FLOODING.
2. NOISE PRODUCING ACTIVITIES SHALL BE HELD TO A MINIMUM. INTERNAL COMBUSTION ENGINES AND COMPRESSORS, ETC., SHALL BE EQUIPPED WITH MUFFLERS TO REDUCE NOISE TO A MINIMUM. CONTRACTOR SHALL COMPLY WITH ALL NOISE ABATEMENT ORDINANCES.
3. THE USE OF EXPLOSIVES WILL NOT BE PERMITTED.
4. DISPOSITION OF DEMOLISHED MATERIALS BY BURNING IS NOT PERMITTED.
5. ALL CLEARING SHALL BE PERFORMED IN A MANNER SUCH AS TO PREVENT ANY WASH-OFF OF SOILS AND DEBRIS FROM THE SITE INTO PUBLIC RIGHT-OF-WAY WATER BODIES, AND/OR STORM DRAINAGE SYSTEMS. APPROPRIATE SEDIMENTATION PONDS, DIKES, COLLARS, AND FILTER MEDIA SHALL BE EMPLOYED TO INSURE COMPLIANCE WITH THESE REQUIREMENTS. WHERE A SPECIFIC STATUTE GOVERNS THESE PROCEDURES, SUCH STATUTE SHALL BE COMPLIED WITH IN ITS ENTIRETY.
6. AT ALL TIMES DURING THE CLEARING OPERATION, THE EXPOSED AREAS OF SUBGRADE SHALL BE MAINTAINED IN A CONDITION COMPATIBLE WITH POSITIVE DRAINAGE OF THE WORK AREA. NO WATER WILL BE PERMITTED TO STAND IN OPEN EXCAVATIONS. ALL STORMWATER RUNOFF SHALL BE CONTAINED WITHIN THE SITE. FAILURE TO MAINTAIN SUCH DRAINAGE SHALL BE CONSIDERED ADEQUATE CAUSE TO ORDER TEMPORARY SUSPENSION OF THE WORK.
7. IF IT SHOULD BECOME NECESSARY TO STOP WORK FOR INDEFINITE PERIODS, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE OR DETERIORATION OF THE WORK ALREADY PERFORMED, PROVIDE SUITABLE AND FUNCTIONAL DRAINAGE BY OPENING DITCHES, FILTER DRAINS, TEMPORARY CUT-OFF LINES, ETC., AND ERECT TEMPORARY PROTECTIVE STRUCTURES WHERE NECESSARY. ALL EMBANKMENTS SHALL BE BACK-BLADED AND SUITABLY SEALED TO PROTECT AGAINST ADVERSE WEATHER CONDITIONS.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHEN REMOVING ABANDONED AND DE-ENERGIZED MATERIALS. IF ASBESTOS PIPES ARE ENCOUNTERED, THE CONTRACTOR WILL TAKE ALL NECESSARY ABATEMENT STEPS AS REQUIRED BY GOVERNING REGULATIONS TO SAFELY REMOVE AND DISPOSE OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF SAID MATERIALS.
9. THE CONTRACTOR SHALL SECURE THE WORK AREA WITH FENCING OR OTHER MEANS AS APPROVED BY THE OWNER.

VI. TRAFFIC MAINTENANCE

1. THE CONTRACTOR SHALL FOLLOW FDOT MAINTENANCE OF TRAFFIC PROCEDURES DURING DEMOLITION IN PUBLIC RIGHTS-OF-WAY AND PRIVATE DRIVEWAYS, PEDESTRIANS PATHS, AND ROADWAYS (FDOT INDEX 600 SERIES), AND PREPARE AND OBTAIN APPROVAL OF SUCH MAINTENANCE OF TRAFFIC PLAN FROM THE APPROPRIATE REGULATORY AGENCY.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING, TEMPORARY CROSSOVER FOR PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING GUARDRAILS, LAMPS, WARNING SIGNS AND FLAGS AS REQUIRED BY AGENCIES HAVING JURISDICTION, AND SHALL NOT REMOVE THESE UNTIL THE NEED FOR PROTECTION CEASES.
3. THE CONTRACTOR MAY NOT CLOSE ANY SIDEWALKS WITHOUT PROVIDING ALTERNATE ROUTES IN ACCORDANCE WITH FDOT INDEX 660 AND OBTAINING APPROVAL FROM THE GOVERNING JURISDICTIONAL AGENCY.
4. THE CONTRACTOR SHALL NOTIFY THE CITY PRIOR TO OBSTRUCTING METERED PARKING SPACES.
5. THE CONTRACTOR SHALL CONDUCT REMOVAL OPERATIONS SO THAT TRAFFIC IS MAINTAINED ALONG EXISTING STREETS AND WALKS. ALL PUBLIC PAVED STREETS AND WALKWAYS MUST BE KEPT FREE OF DEBRIS. THE CONTRACTOR MUST REMOVE MATERIAL AND OTHER MATTER TRACKED OR FALLEN ONTO TRAFFIC SURFACES.

VII. CLEAN UP

1. REMOVE DEMOLISHED CONSTRUCTION MATERIALS AND RELATED DEBRIS FROM THE SITE ON A REGULAR BASIS. ACCUMULATION OF DEBRIS ON THE SITE WILL NOT BE PERMITTED. SELLING OF SALVAGEABLE MATERIALS IS NOT PERMITTED AT THE SITE.
2. REMOVE MATERIALS, INCLUDING DEBRIS AND DUST, AND DISPOSE OF LEGALLY OFF SITE. NO DEBRIS SHALL BE BURNED OR BURIED ON THE SITE AS A MEANS OF DISPOSAL. USE METHODS APPROVED BY THE REGULATORY AGENCIES PRIOR TO BEGINNING CLEANUP OPERATIONS. USE OF BLOWERS TO DISTRIBUTE DUST WILL NOT BE PERMITTED.
3. MATERIAL DESIGNATED FOR REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND ANY SALVAGE VALUE THERE FROM WILL ACCRUE TO THE CONTRACTOR.

VII. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

1. THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES REQUIREMENTS.
2. THE CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN NPDES PERMIT PRIOR TO COMMENCEMENT OF DEMOLITION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENTATION AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT LUMP SUM COST.

EROSION CONTROL NOTES AND SPECIFICATIONS:

BEST MANAGEMENT PRACTICES (BMPS):

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF THE PALM BEACH COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40D-4, F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA 832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:

A. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.

B. SEDIMENTION PROTECTION OF STORM SEWER OR RECEIVING STREAM.

C. PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT LUMP SUM COST.

GENERAL EROSION CONTROL NOTES:

A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL DRAWINGS, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERIC PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. FUEL SPILLS AND LEAKS PREVENTION
2. PREVENT/REDUCE VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
3. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR
4. PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS
5. PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND BY-PRODUCTS
6. SOLID WASTE MANAGEMENT
7. HAZARDOUS WASTE MANAGEMENT
8. CONCRETE WASTE MANAGEMENT
9. SANDBLASTING WASTE MANAGEMENT
10. STRUCTURE CONSTRUCTION AND PAINTING
11. SPILL PREVENTION AND CONTROL
12. CONTAMINATED SOIL MANAGEMENT
13. SANITARY/SEPTIC WASTE MANAGEMENT
14. SOIL EROSION CONTROL
15. STORM WATER TURBIDITY MANAGEMENT

ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.

E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. CONTRACTOR MUST MAINTAIN ALL PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS ON SITE AT ALL TIMES.

F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

G. CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO IMPLEMENT PERIMETER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERIMETER CONTROLS ARE IN PLACE. PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE.

H. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.

I. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

J. SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

STORM WATER EROSION CONTROL PRACTICES:

A. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

B. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

C. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST SOCK DEVICES, ETC.) TO PREVENT EROSION.

D. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.

E. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:

1. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
2. STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.
3. WHEN NEEDED A TEMPORARY SEDIMENT TRAP SHOULD BE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS.

F. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.

G. SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS APPLICABLE.

H. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.

I. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED.

J. FILTER FABRIC SHOULD BE USED FOR STORM DRAIN INLET PROTECTION BEFORE FINAL STABILIZATION.

WIND EROSION CONTROL PRACTICES:

A. WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:

1. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
2. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABILIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER (SEE TEMPORARY STABILIZATION PRACTICES FOR DETAILS).
3. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A 6-FT GEOTEXTILE FILTER FABRIC SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK FENCE AND GATE.

B. ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

STABILIZATION PRACTICES:

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621.300(4)(A)

STRUCTURAL PRACTICES:

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621.300(4)(A)

WASTE DISPOSAL:

A. WASTE MATERIALS – ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.

B. HAZARDOUS WASTE – HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.

C. SANITARY WASTE – SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.

D. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

OFFSITE TRACKING:

A. STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN.

B. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATION PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.

C. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC. SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.

D. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

E. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

MAINTENANCE:

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

A. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

B. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.

C. THE COMPOST SOCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE. COMPOST SOCK SHALL BE REPAIRED TO ITS ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE COMPOST SOCK WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE COMPOST SOCK.

D. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

E. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

F. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 10% AND AFTER CONSTRUCTION IS COMPLETE.

G. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.DIVERSION DIKES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.

H. A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.

I. ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.

J. THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.

K. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

SPILL PREVENTION AND CONTROL:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

A. GOOD HOUSEKEEPING

1. SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
2. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
3. ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
4. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
5. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
6. ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

B. HAZARDOUS PRODUCTS

1. MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
2. PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

C. PRODUCT SPECIFIC PRACTICES

1. PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.
2. THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
3. PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
4. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CLEAN UP:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

A. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.

B. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.

C. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ONSITE AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

D. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.

E. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.

F. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.

G. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.

H. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

George Balaban

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

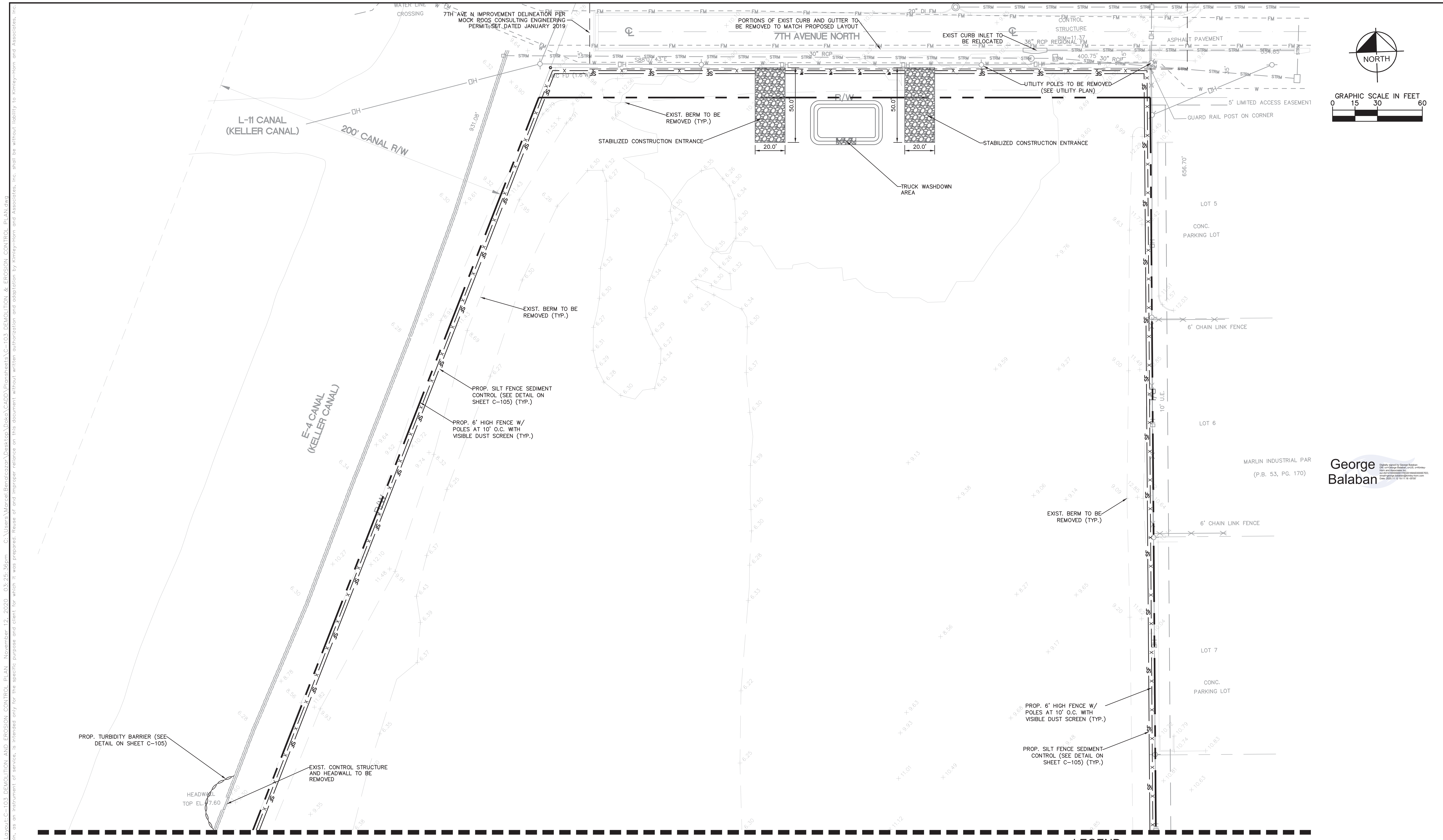
GEORGE BALABAN
No 74543
DATE:

KHA PROJECT	143189000
DATE	9/2/2020
SCALE	AS SHOWN
DESIGNED BY	GB
DRAWN BY	MB
CHECKED BY	GB

DEMOLITION AND
EROSION CONTROL
NOTES

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-102


WATER LINE CROSSING
7TH AVE N IMPROVEMENT DELINEATION PER MOCK ROOS CONSULTING ENGINEERING PERMIT SET DATED JANUARY 2019
PORTIONS OF EXIST CURB AND GUTTER TO BE REMOVED TO MATCH PROPOSED LAYOUT
7TH AVENUE NORTH
20" DI FM
CONTROL STRUCTURE RIM=11.37
EXIST CURB INLET TO BE RELOCATED
36" RCP REGIONAL FM
ASPHALT PAVEMENT
400.75'
30" RCP
554.85'
S88°07'43"E
UTILITY POLES TO BE REMOVED (SEE UTILITY PLAN)
5' LIMITED ACCESS EASEMENT
GUARD RAIL POST ON CORNER
L-11 CANAL (KELLER CANAL)
200' CANAL R/W
931.08'
EXIST. BERM TO BE REMOVED (TYP.)
STABILIZED CONSTRUCTION ENTRANCE
50.0'
20.0'
R/W
TRUCK WASHDOWN AREA
STABILIZED CONSTRUCTION ENTRANCE
656.70'
LOT 5
CONC. PARKING LOT
EXIST. BERM TO BE REMOVED (TYP.)
6' CHAIN LINK FENCE
PROP. SILT FENCE SEDIMENT CONTROL (SEE DETAIL ON SHEET C-105) (TYP.)
PROP. 6' HIGH FENCE W/ POLES AT 10' O.C. WITH VISIBLE DUST SCREEN (TYP.)
E-4 CANAL (KELLER CANAL)
10' U.E.
LOT 6
MARLIN INDUSTRIAL PAR
(P.B. 53, PG. 170)
EXIST. BERM TO BE REMOVED (TYP.)
6' CHAIN LINK FENCE
LOT 7
CONC. PARKING LOT
PROP. 6' HIGH FENCE W/ POLES AT 10' O.C. WITH VISIBLE DUST SCREEN (TYP.)
PROP. SILT FENCE SEDIMENT CONTROL (SEE DETAIL ON SHEET C-105) (TYP.)
PROP. TURBIDITY BARRIER (SEE DETAIL ON SHEET C-105)
HEADWALL TOP EL.=7.60
EXIST. CONTROL STRUCTURE AND HEADWALL TO BE REMOVED
SF
NORTH
GRAPHIC SCALE IN FEET
0
15
30
60

SEE SHEET C-104 - DEMOLITION AND EROSION CONTROL PLAN FOR CONTINUATION

EROSION CONTROL NOTES:

1. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
2. DUMPSTER ARE REQUIRED TO BE COVERED WHEN NOT EMPTYING OR FILLING.
3. SEE SHEET C–105.
4. CONTRACTOR TO RELOCATE CONSTRUCTION FENCE AND SILT FENCE TO BE WITHIN PROPOSED PROPERTY LINES AFTER PROPOSED DEMOLITION AND RIGHT–OF–WAY IMPROVEMENTS ARE COMPLETED.
5. INSTALL AND MAINTAIN DUST SCREENS ON THE INSIDE OF THE PROPOSED CONSTRUCTION FENCE IN ORDER TO PREVENT OBSTRUCTION ON TO NEIGHBORING PROPERTIES.
6. EXISTING UTILITIES TO REMAIN AND BE PROTECTED AT ALL TIMES.
7. CONTRACTOR TO REFER TO LANDSCAPE PLANS FOR ANY REQUIRED TREE PROTECTION DETAILS.

DEMOLITION NOTES:

1. INFORMATION ON THIS PLAN IS BASED ON THE SURVEY PROVIDED BY VIC–SCOTT LAND SURVEYING & MAPPING, DATED 03/06/2019.
2. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT ALL EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION, AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN OMITTED FROM THE PLAN. THE CONTRACTOR SHALL THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
3. SEE LANDSCAPE PLANS FOR TREES TO REMAIN, BE REMOVED, RELOCATED, OR PROTECTED.
4. ALL MODIFICATIONS, REMOVALS AND RELOCATIONS OF EXISTING UTILITIES SHALL BE COORDINATED WITH THE UTILITY OWNER PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO SAWCUT AND MATCH EXISTING WHEN CONNECTING TO ADJACENT PAVEMENT.
6. IF REQUIRED, CONTRACTOR TO COORDINATE WITH THE CITY OF LAKE WORTH BEACH TO OBTAIN AN APPROVED MAINTENANCE OF TRAFFIC PLAN FOR VEHICULAR AND PEDESTRIAN TRAFFIC PRIOR TO COMMENCING WORK.
7. DO NOT BLOCK OR OBSTRUCT FIRE HYDRANTS AT ANY TIME. PROVIDE CERTIFIED FIRE EXTINGUISHERS ONSITE.
8. POST SIGN WITH 6–INCH TALL BUILDING ADDRESS VISIBLE TO STREET VIEW.
9. IF ASBESTOS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS TO PREPARE, AS REQUIRED, ALL NECESSARY ABATEMENT AS PER ENVIRONMENTAL REGULATIONS.
10. CONTRACTOR SHALL VISIT JOB SITE AND PHYSICALLY SURVEY ALL OF THE AS–BUILT CONDITIONS TO ASCERTAIN THE FULL SCOPE OF CLEARING AND DEMOLITION WORK. IF CONDITIONS ARE ENCOUNTERED OTHER THAN THOSE SHOWN ON THIS PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
11. ANY GRAFFITI OR UNAPPROVED SIGNS THAT SHOW UP ON THE CONSTRUCTION FENCE OR JOBSITE SHALL BE REMOVED IMMEDIATELY.
12. INSTALL AND MAINTAIN DUST SCREENS ON THE INSIDE OF THE PROPOSED CONSTRUCTION FENCE IN ORDER TO PREVENT OBSTRUCTIONS TO THE SIDEWALK SHOULD THEY COME LOOSE.
13. CONTRACTOR SHALL SEEK CITY APPROVAL FOR ANY PUBLIC SIDEWALKS AND/OR STREETS TO BE CLOSED DURING CONSTRUCTION.
14. CONTRACTOR SHALL ENSURE PROPER EROSION CONTROL IS IN PLACE PRIOR TO DEMOLITION.

LEGEND

—— ℄ ——	CENTER LINE OF ROADWAY
—— R/W ——	PROPERTY LINE AND/OR RIGHT–OF–WAY
⌒	PROP. TURBIDITY BARRIER
—— SF ——	PROP. SILT FENCE SEDIMENT CONTROL
— X —— X —	PROP. 6' CHAIN LINK CONSTRUCTION FENCE WITH POLES AT 10'–0" O.C. AND VISUAL DUST SCREEN
▨	PROP. STABILIZED CONSTRUCTION ENTRANCE
— — FM — —	EXIST. SANITARY SEWER FORCE MAIN
———	EXIST. WATER MAIN
——OH——	EXIST. OVERHEAD ELECTRIC
⌽	EXIST. OVERHEAD ELECTRIC POLE

CONTRACTOR SHALL ENSURE ALL SITE PREPARATION REQUIREMENTS ARE MET AS DICTATED IN THE GEOTECHNICAL REPORT

No. | REVISIONS | DATE | BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954–535–5100 FAX: 954–739–2247
WWW.KIMLEY–HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

George Balaban

KHA PROJECT 143189000
DATE 9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

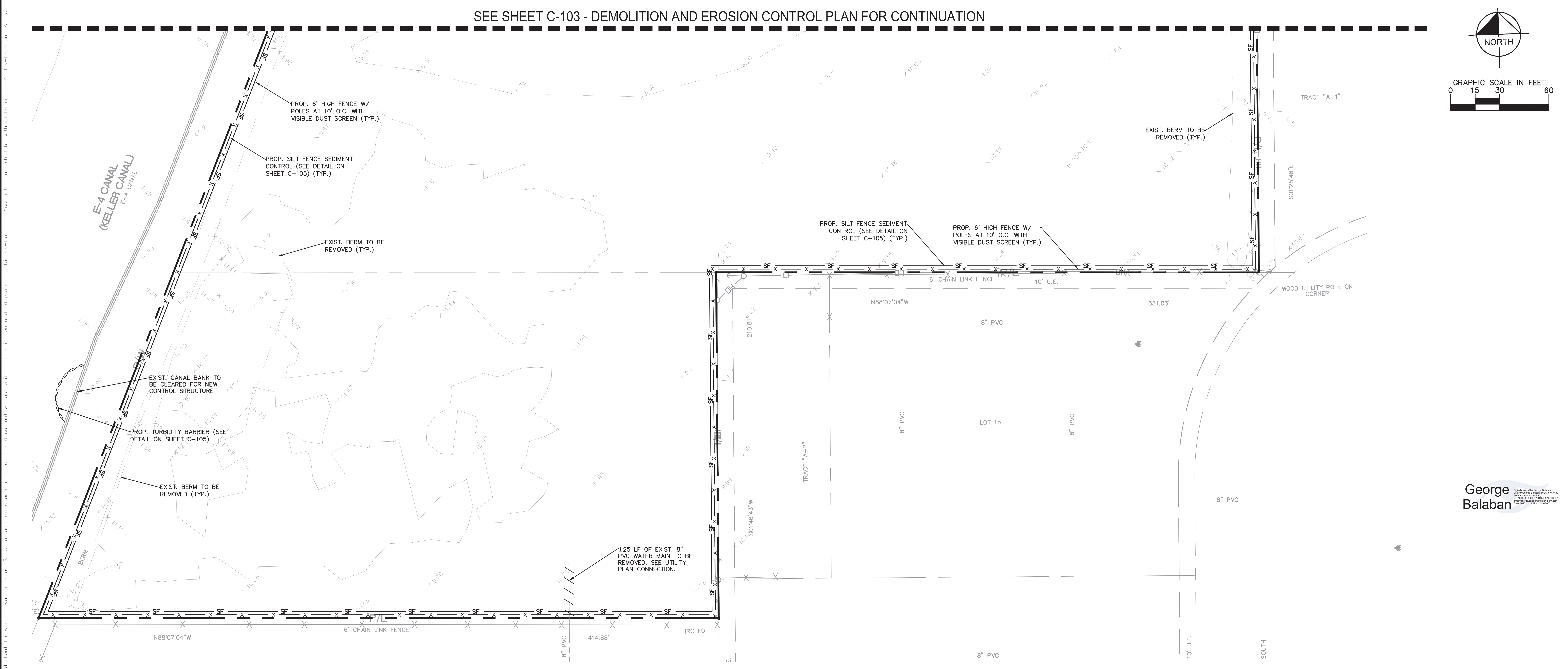
DEMOLITION AND EROSION CONTROL PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-103

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-103 DEMOLITION AND EROSION CONTROL PLAN November 12, 2020 03:25:36pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\PlanSheets\C-103 DEMOLITION & EROSION CONTROL PLAN.dwg
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.

SEE SHEET C-103 - DEMOLITION AND EROSION CONTROL PLAN FOR CONTINUATION


NORTH
GRAPHIC SCALE IN FEET
0 15 30 60
E-4 CANAL (KELLER CANAL)
E-4 CANAL
PROP. 6' HIGH FENCE W/ POLES AT 10' O.C. WITH VISIBLE DUST SCREEN (TYP.)
PROP. SILT FENCE SEDIMENT CONTROL (SEE DETAIL ON SHEET C-105) (TYP.)
EXIST. BERM TO BE REMOVED (TYP.)
EXIST. CANAL BANK TO BE CLEARED FOR NEW CONTROL STRUCTURE
PROP. TURBIDITY BARRIER (SEE DETAIL ON SHEET C-105)
EXIST. BERM TO BE REMOVED (TYP.)
BERM
±25 LF OF EXIST. 8" PVC WATER MAIN TO BE REMOVED. SEE UTILITY PLAN CONNECTION.
N88°07'04"W
6' CHAIN LINK FENCE
414.88'
IRC FD
8" PVC
TRACT "A-1"
EXIST. BERM TO BE REMOVED (TYP.)
S01°25'48"E
PROP. SILT FENCE SEDIMENT CONTROL (SEE DETAIL ON SHEET C-105) (TYP.)
PROP. 6' HIGH FENCE W/ POLES AT 10' O.C. WITH VISIBLE DUST SCREEN (TYP.)
6' CHAIN LINK FENCE
10' U.E.
WOOD UTILITY POLE ON CORNER
N88°07'04"W
331.03'
8" PVC
210.81'
S01°46'43"W
TRACT "A-2"
8" PVC
LOT 15
8" PVC
8" PVC
8" PVC
10' U.E.
SOUTH
SF
X

EROSION CONTROL NOTES:

1. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
2. DUMPSTER ARE REQUIRED TO BE COVERED WHEN NOT EMPTYING OR FILLING.
3. SEE SHEET C-105.
4. CONTRACTOR TO RELOCATE CONSTRUCTION FENCE AND SILT FENCE TO BE WITHIN PROPOSED PROPERTY LINES AFTER PROPOSED DEMOLITION AND RIGHT-OF-WAY IMPROVEMENTS ARE COMPLETED.
5. INSTALL AND MAINTAIN DUST SCREENS ON THE INSIDE OF THE PROPOSED CONSTRUCTION FENCE IN ORDER TO PREVENT OBSTRUCTION ON TO NEIGHBORING PROPERTIES.
6. EXISTING UTILITIES TO REMAIN AND BE PROTECTED AT ALL TIMES.
7. CONTRACTOR TO REFER TO LANDSCAPE PLANS FOR ANY REQUIRED TREE PROTECTION DETAILS.

DEMOLITION NOTES:

1. INFORMATION ON THIS PLAN IS BASED ON THE SURVEY PROVIDED BY VIC-SCOTT LAND SURVEYING & MAPPING, DATED 03/06/2019.
2. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT ALL EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION, AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN OMITTED FROM THE PLAN. THE CONTRACTOR SHALL THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
3. SEE LANDSCAPE PLANS FOR TREES TO REMAIN, BE REMOVED, RELOCATED, OR PROTECTED.
4. ALL MODIFICATIONS, REMOVALS AND RELOCATIONS OF EXISTING UTILITIES SHALL BE COORDINATED WITH THE UTILITY OWNER PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO SAWCUT AND MATCH EXISTING WHEN CONNECTING TO ADJACENT PAVEMENT.
6. IF REQUIRED, CONTRACTOR TO COORDINATE WITH THE CITY OF LAKE WORTH BEACH TO OBTAIN AN APPROVED MAINTENANCE OF TRAFFIC PLAN FOR VEHICULAR AND PEDESTRIAN TRAFFIC PRIOR TO COMMENCING WORK.
7. DO NOT BLOCK OR OBSTRUCT FIRE HYDRANTS AT ANY TIME. PROVIDE CERTIFIED FIRE EXTINGUISHERS ONSITE.
8. POST SIGN WITH 6-INCH TALL BUILDING ADDRESS VISIBLE TO STREET VIEW.
9. IF ASBESTOS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS TO PREPARE, AS REQUIRED, ALL NECESSARY ABATEMENT AS PER ENVIRONMENTAL REGULATIONS.
10. CONTRACTOR SHALL VISIT JOB SITE AND PHYSICALLY SURVEY ALL OF THE AS-BUILT CONDITIONS TO ASCERTAIN THE FULL SCOPE OF CLEARING AND DEMOLITION WORK. IF CONDITIONS ARE ENCOUNTERED OTHER THAN THOSE SHOWN ON THIS PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
11. ANY GRAFFITI OR UNAPPROVED SIGNS THAT SHOW UP ON THE CONSTRUCTION FENCE OR JOBSITE SHALL BE REMOVED IMMEDIATELY.
12. INSTALL AND MAINTAIN DUST SCREENS ON THE INSIDE OF THE PROPOSED CONSTRUCTION FENCE IN ORDER TO PREVENT OBSTRUCTIONS TO THE SIDEWALK SHOULD THEY COME LOOSE.
13. CONTRACTOR SHALL SEEK CITY APPROVAL FOR ANY PUBLIC SIDEWALKS AND/OR STREETS TO BE CLOSED DURING CONSTRUCTION.
14. CONTRACTOR SHALL ENSURE PROPER EROSION CONTROL IS IN PLACE PRIOR TO DEMOLITION.

LEGEND

—— ℄ ——	CENTER LINE OF ROADWAY
—— R/W ——	PROPERTY LINE AND/OR RIGHT-OF-WAY
⌒	PROP. TURBIDITY BARRIER
—— SF ——	PROP. SILT FENCE SEDIMENT CONTROL
—— X —— X ——	PROP. 6' CHAIN LINK CONSTRUCTION FENCE WITH POLES AT 10'-0" O.C. AND VISUAL DUST SCREEN
— — FM — —	EXIST. SANITARY SEWER FORCE MAIN
————	EXIST. WATER MAIN
——☐H——	EXIST. OVERHEAD ELECTRIC
⏀	EXIST. OVERHEAD ELECTRIC POLE

CONTRACTOR SHALL ENSURE ALL SITE PREPARATION REQUIREMENTS ARE MET AS DICTATED IN THE GEOTECHNICAL REPORT

George Balaban

GEORGE BALABAN
No 74543

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

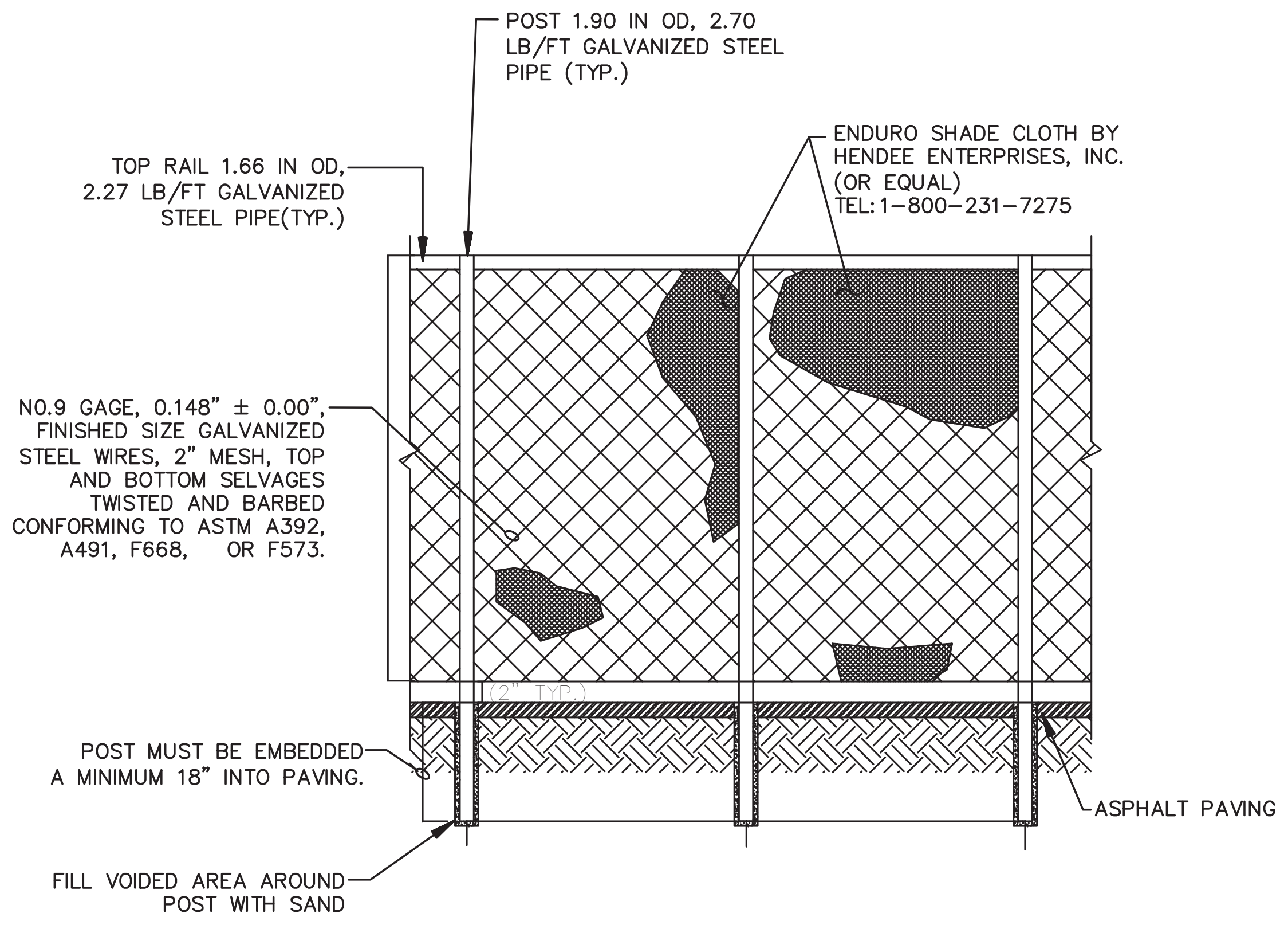
KHA PROJECT	143189000
DATE	9/2/2020
SCALE	AS SHOWN
DESIGNED BY	GB
DRAWN BY	MB
CHECKED BY	GB

DEMOLITION AND EROSION CONTROL PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

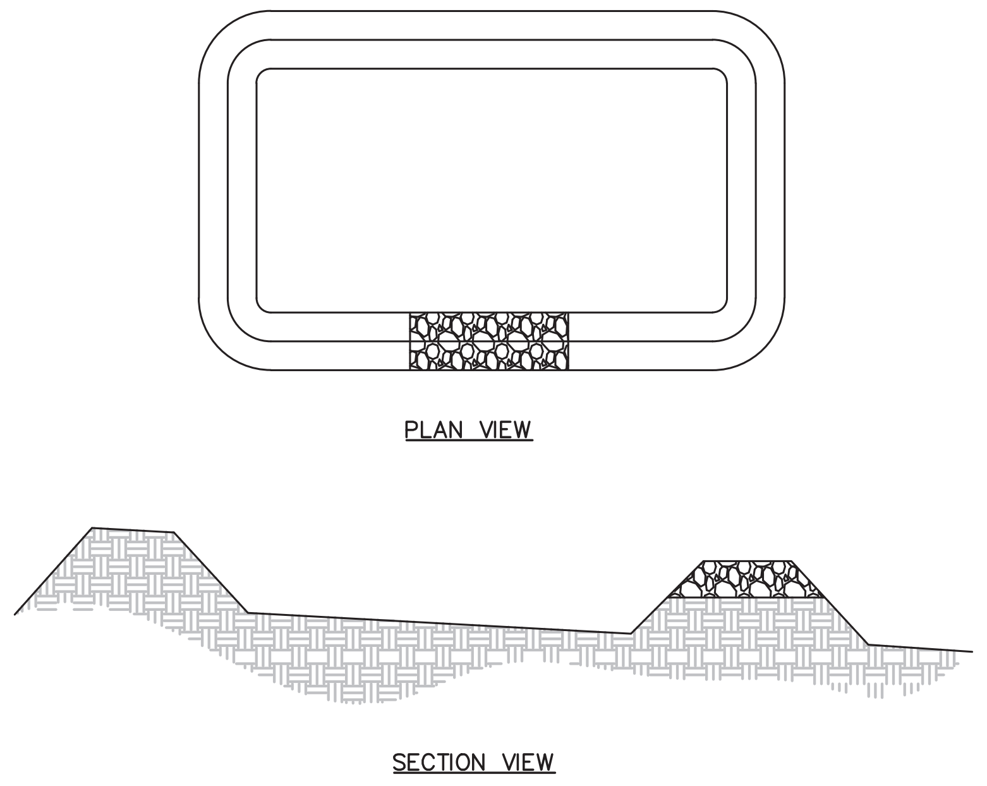
SHEET NUMBER
C-104

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-104 DEMOLITION AND EROSION CONTROL PLAN November 12, 2020 03:25:38pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-103 DEMOLITION & EROSION CONTROL PLAN.dwg
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.


POST 1.90 IN OD, 2.70 LB/FT GALVANIZED STEEL PIPE (TYP.)
TOP RAIL 1.66 IN OD, 2.27 LB/FT GALVANIZED STEEL PIPE(TYP.)
ENDURO SHADE CLOTH BY HENDEE ENTERPRISES, INC. (OR EQUAL) TEL: 1-800-231-7275
NO.9 GAGE, 0.148" ± 0.00", FINISHED SIZE GALVANIZED STEEL WIRES, 2" MESH, TOP AND BOTTOM SELVAGES TWISTED AND BARBED CONFORMING TO ASTM A392, A491, F668, OR F573.
(2" TYP.)
POST MUST BE EMBEDDED A MINIMUM 18" INTO PAVING.
ASPHALT PAVING
FILL VOIDED AREA AROUND POST WITH SAND

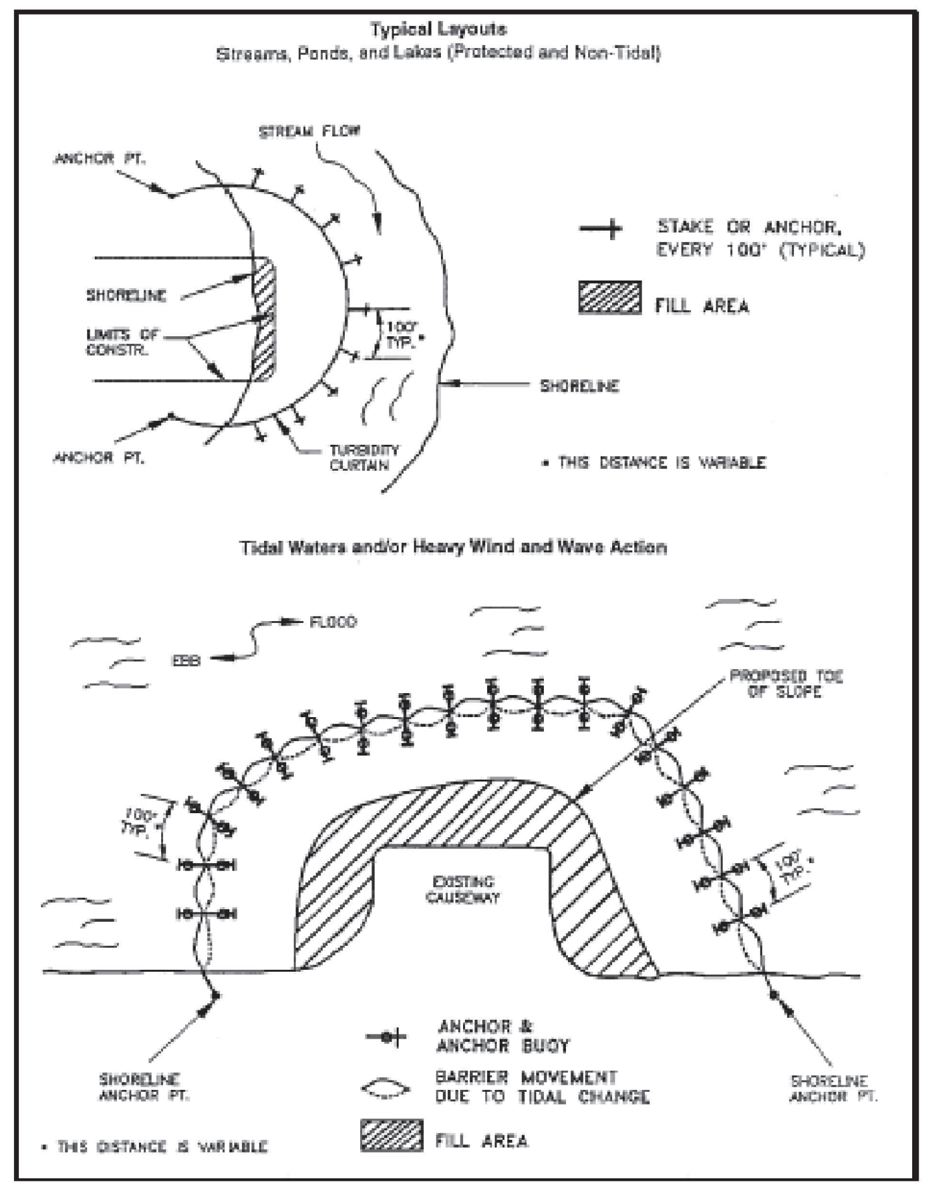
1 6' CHAIN LINK CONSTRUCTION FENCE WITH VISUAL DUST SCREEN

N.T.S.


PLAN VIEW
SECTION VIEW

2 TRUCK WASHDOWN DETENTION AREA

N.T.S.


Typical Layouts
Streams, Ponds, and Lakes (Protected and Non-Tidal)
STREAM FLOW
ANCHOR PT.
SHORELINE
LIMITS OF CONSTR.
100' TYP.*
ANCHOR PT.
TURBIDITY CURTAIN
STAKE OR ANCHOR, EVERY 100' (TYPICAL)
FILL AREA
SHORELINE
* THIS DISTANCE IS VARIABLE
Tidal Waters and/or Heavy Wind and Wave Action
FLOOD
EBB
PROPOSED TOE OF SLOPE
100' TYP.*
EXISTING CAUSEWAY
100' TYP.*
ANCHOR & ANCHOR BUOY
BARRIER MOVEMENT DUE TO TIDAL CHANGE
FILL AREA
SHORELINE ANCHOR PT.
SHORELINE ANCHOR PT.
* THIS DISTANCE IS VARIABLE

3 TURBIDITY BARRIER DETAIL

N.T.S.

1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURSDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTY, AS NEEDED.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

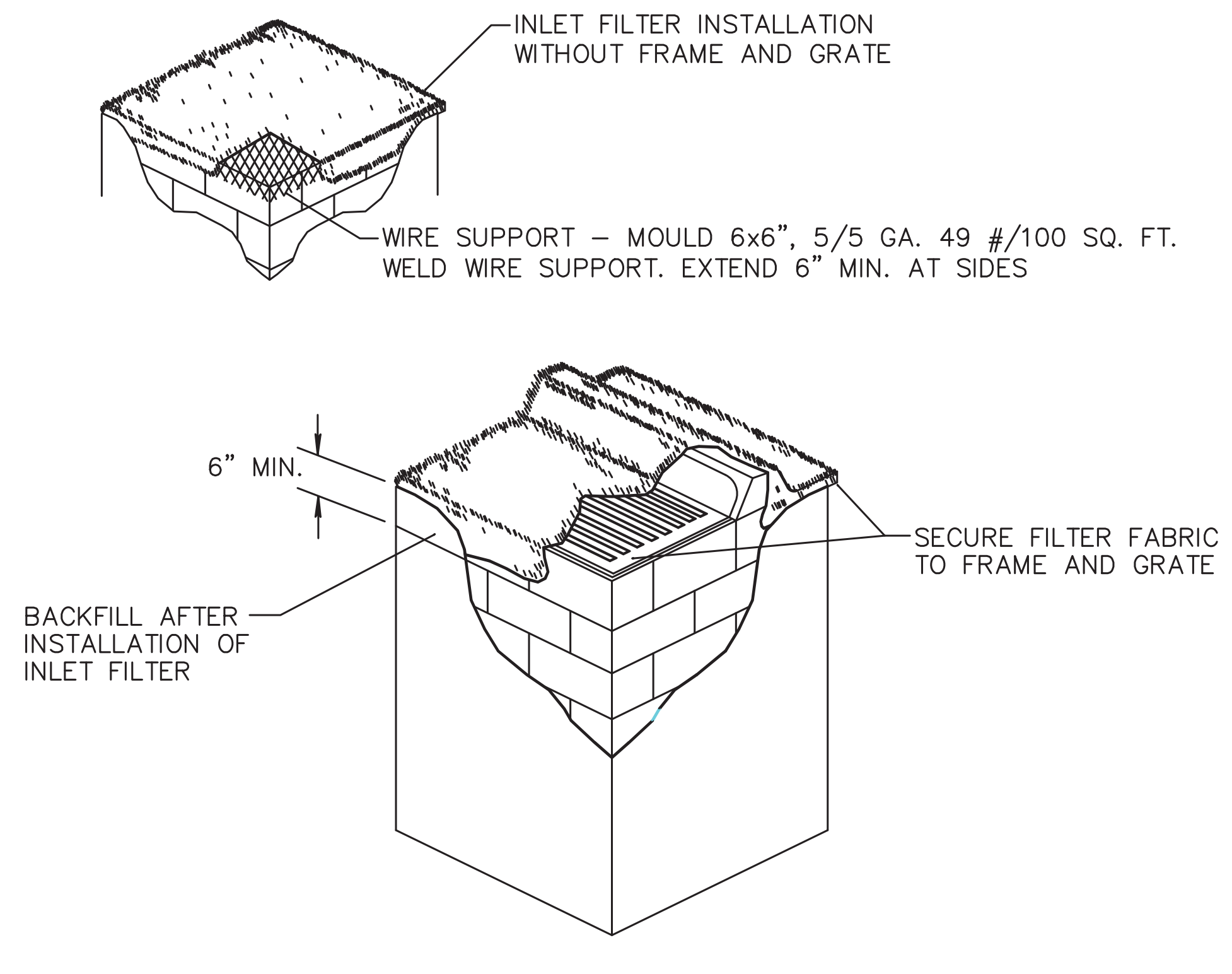
CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

EROSION CONTROL NOTES DETAIL

DETAIL NO. 25

George Balaban

Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:11:46 -05'00'


INLET FILTER INSTALLATION WITHOUT FRAME AND GRATE
WIRE SUPPORT – MOULD 6x6", 5/5 GA. 49 #/100 SQ. FT. WELD WIRE SUPPORT. EXTEND 6" MIN. AT SIDES
6" MIN.
SECURE FILTER FABRIC TO FRAME AND GRATE
BACKFILL AFTER INSTALLATION OF INLET FILTER

NOT TO SCALE

NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

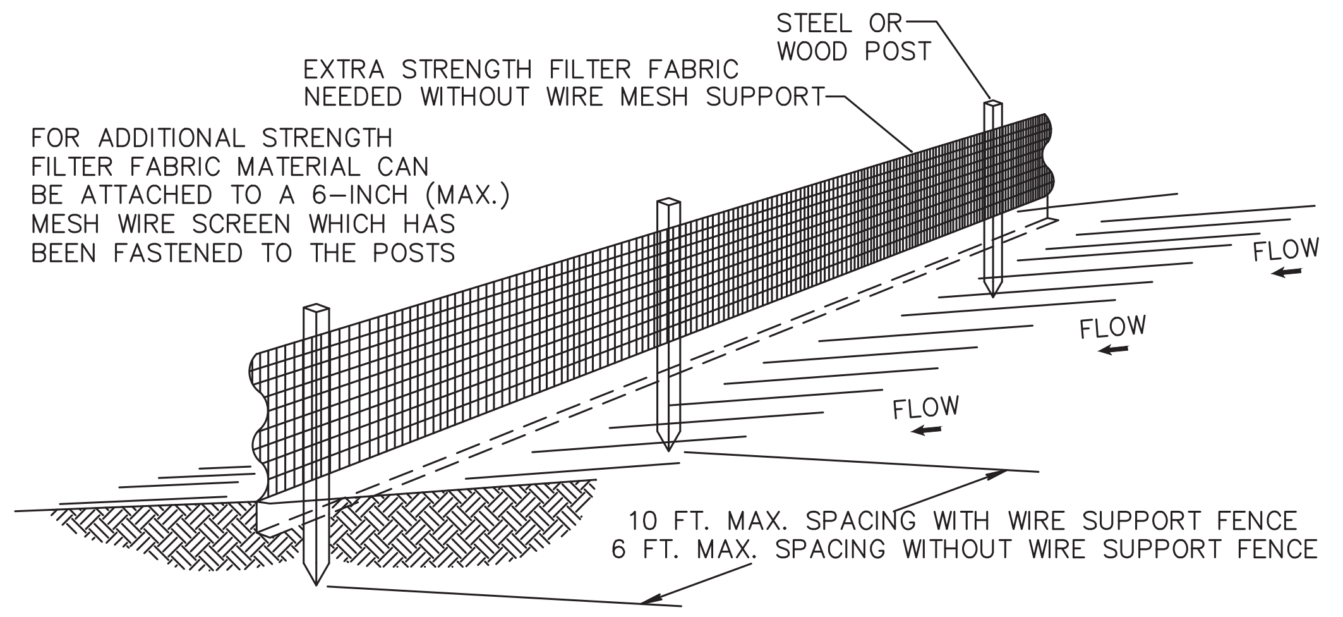
A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

INLET FILTER DETAIL

DETAIL NO. 26


STEEL OR WOOD POST
EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT
FOR ADDITIONAL STRENGTH FILTER FABRIC MATERIAL CAN BE ATTACHED TO A 6-INCH (MAX.) MESH WIRE SCREEN WHICH HAS BEEN FASTENED TO THE POSTS
FLOW
FLOW
FLOW
10 FT. MAX. SPACING WITH WIRE SUPPORT FENCE
6 FT. MAX. SPACING WITHOUT WIRE SUPPORT FENCE

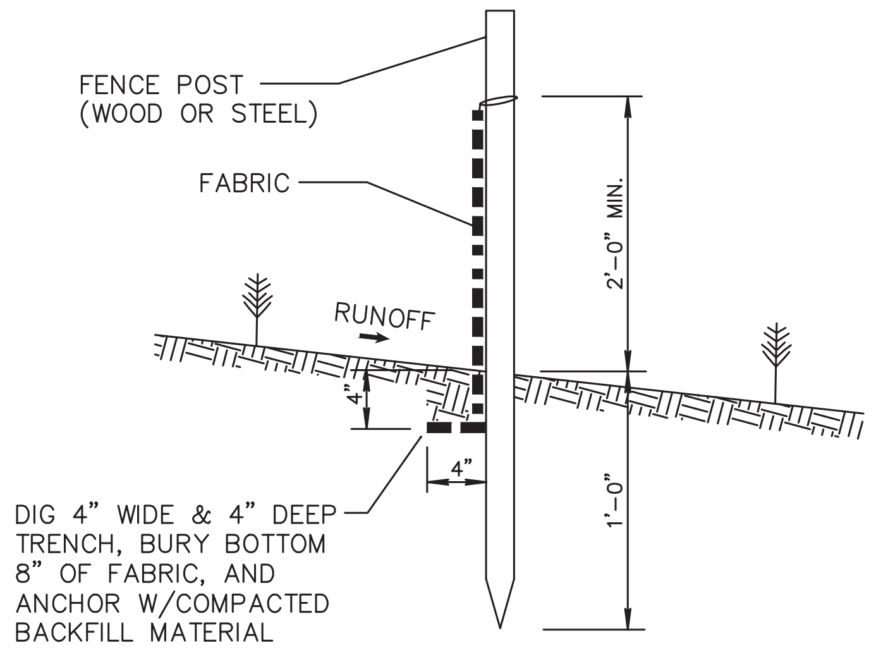
NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGIONAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

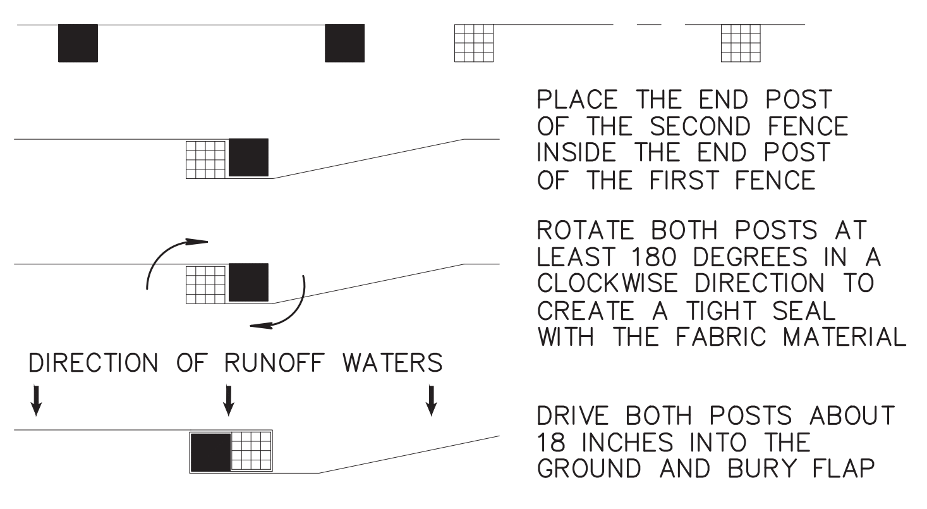
SILT FENCE INSTALLATION DETAIL

DETAIL NO. 27


FENCE POST (WOOD OR STEEL)
FABRIC
RUNOFF
2'-0" MIN.
4"
4"
1'-0"
DIG 4" WIDE & 4" DEEP TRENCH, BURY BOTTOM 8" OF FABRIC, AND ANCHOR W/COMPACTED BACKFILL MATERIAL

SILT FENCE SECTION

NOT TO SCALE


PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE
ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL
DIRECTION OF RUNOFF WATERS
DRIVE BOTH POSTS ABOUT 18 INCHES INTO THE GROUND AND BURY FLAP

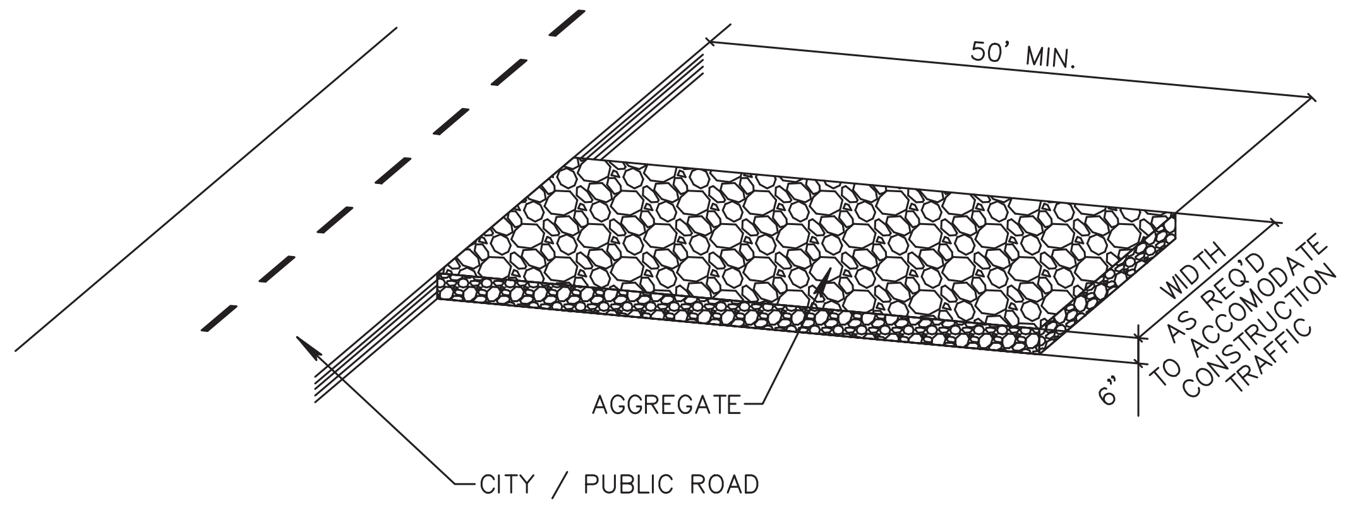
ATTACHING TWO SILT FENCES

NOT TO SCALE

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

SILT FENCE INSTALLATION DETAIL

DETAIL NO. 28


50' MIN.
WIDTH AS REQ'D TO ACCOMODATE CONSTRUCTION TRAFFIC
6"
AGGREGATE
CITY / PUBLIC ROAD

NOTE:

A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND CONTAIN AN AGGREGATE LAYER (FDOT AGGREGATE NO.1), AT LEAST 6-INCHES THINK. IT MUST EXTEND TO THE WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA.
CITY/ PUBLIC ROAD TO BE KEPT FREE OF DEBRIS AND AGGREGATE

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

STABILIZED CONSTRUCTION ENTRANCE DETAIL

DETAIL NO. 29

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
DATE:

KHA PROJECT 143189000
DATE 9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

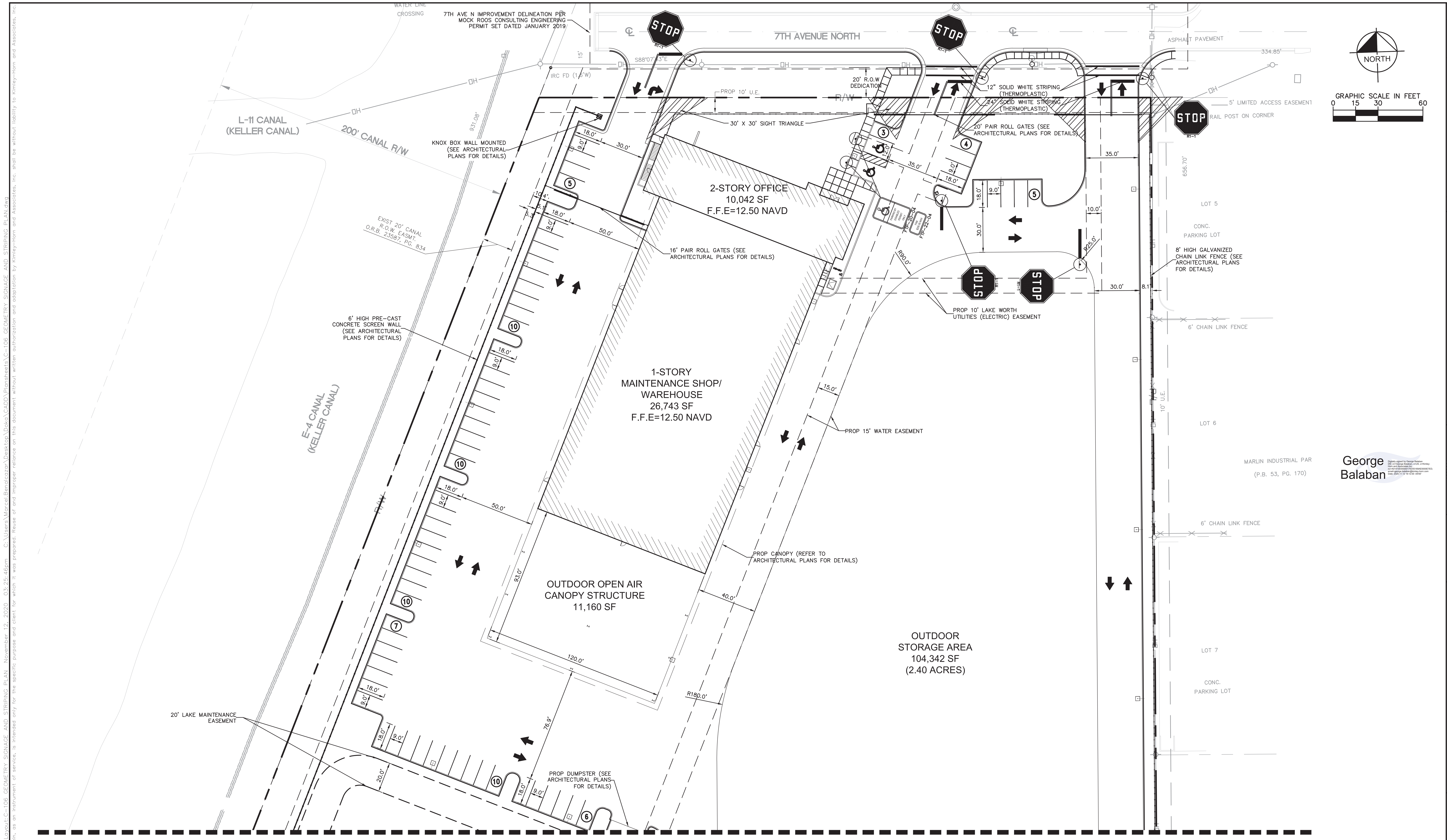
DEMOLITION AND EROSION CONTROL DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-105

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-105 DEMOLITION AND EROSION CONTROL DETAILS November 12, 2020 03:25:43pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-105 DEMOLITION AND EROSION CONTROL DETAILS.dwg
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: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-106 GEOMETRY SIGNAGE AND STRIPING PLAN November 12, 2020 03:25:46pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-106 GEOMETRY SIGNAGE AND STRIPING PLAN.dwg
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.


WATER LINE CROSSING
7TH AVE N IMPROVEMENT DELINEATION PER MOCK ROOS CONSULTING ENGINEERING PERMIT SET DATED JANUARY 2019
STOP
R1-1
7TH AVENUE NORTH
ASPHALT PAVEMENT
334.85'
S88°07'43"E
IRC FD (1.6'W)
15'
L-11 CANAL (KELLER CANAL)
200' CANAL R/W
931.08'
R/W
PROP 10' U.E.
20' R.O.W DEDICATION
12" SOLID WHITE STRIPING (THERMOPLASTIC)
24" SOLID WHITE STRIPING (THERMOPLASTIC)
5' LIMITED ACCESS EASEMENT
RAIL POST ON CORNER
30' X 30' SIGHT TRIANGLE
20' PAIR ROLL GATES (SEE ARCHITECTURAL PLANS FOR DETAILS)
KNOX BOX WALL MOUNTED (SEE ARCHITECTURAL PLANS FOR DETAILS)
2-STORY OFFICE
10,042 SF
F.F.E=12.50 NAVD
PARKING BY DISABLED PERMIT ONLY
FINE $250.00 MAX
FTP-20-04
FTP-22-04
EXIST 20' CANAL R.O.W. EASMT. O.R.B. 23587, PG. 834
16' PAIR ROLL GATES (SEE ARCHITECTURAL PLANS FOR DETAILS)
R90.0'
R25.0'
PROP 10' LAKE WORTH UTILITIES (ELECTRIC) EASEMENT
656.70'
LOT 5
CONC. PARKING LOT
8' HIGH GALVANIZED CHAIN LINK FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
6' CHAIN LINK FENCE
6' HIGH PRE-CAST CONCRETE SCREEN WALL (SEE ARCHITECTURAL PLANS FOR DETAILS)
1-STORY MAINTENANCE SHOP/ WAREHOUSE
26,743 SF
F.F.E=12.50 NAVD
PROP 15' WATER EASEMENT
10' U.E.
LOT 6
MARLIN INDUSTRIAL PAR
(P.B. 53, PG. 170)
E-4 CANAL (KELLER CANAL)
PROP CANOPY (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
OUTDOOR OPEN AIR CANOPY STRUCTURE
11,160 SF
93.0'
120.0'
76.9'
40.0'
R180.0'
OUTDOOR STORAGE AREA
104,342 SF
(2.40 ACRES)
LOT 7
CONC. PARKING LOT
6' CHAIN LINK FENCE
20' LAKE MAINTENANCE EASEMENT
20.0'
PROP DUMPSTER (SEE ARCHITECTURAL PLANS FOR DETAILS)
18.0'
9.0'
30.0'
35.0'
50.0'
10.0'
12.0'
15.0'
10.4'
8.1'
3
4
5
6
7
10
NORTH
GRAPHIC SCALE IN FEET
0
15
30
60

George Balaban

SEE SHEET C-107 - GEOMETRY SIGNAGE AND STRIPING PLAN FOR CONTINUATION

LEGEND

℄	CENTER LINE OF ROADWAY
P/L R/W	RIGHT-OF-WAY
▨	PROP BUILDING
—	PROP TYPE 'D' CURB
▭	PROP CONCRETE SIDEWALK
↓↑	PROP PAVEMENT MARKINGS
◺	CITY OF LAKE WORTH BEACH SIGHT TRIANGLES
⊡	PROP LIGHT FIXTURES

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
No 74543
DATE:

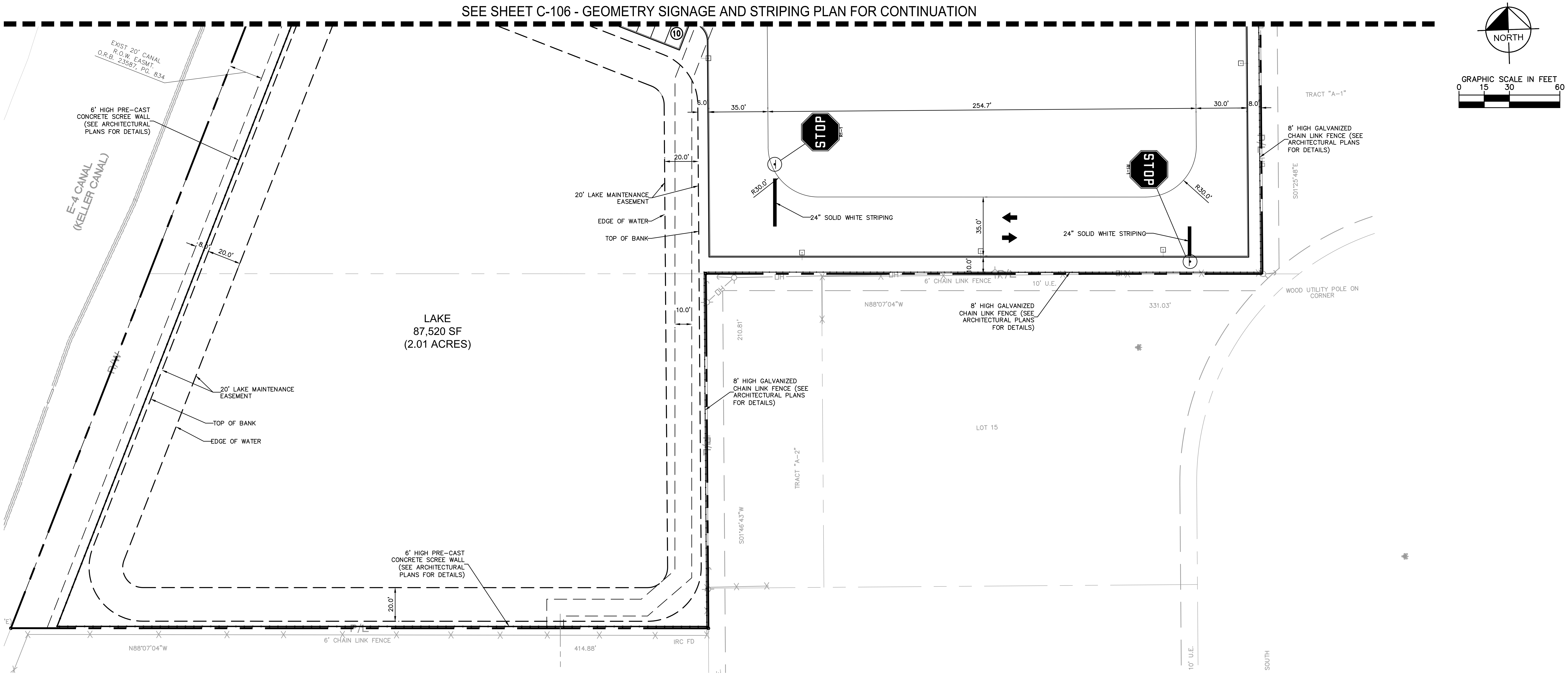
KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

GEOMETRY SIGNAGE AND STRIPING PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-106

SEE SHEET C-106 - GEOMETRY SIGNAGE AND STRIPING PLAN FOR CONTINUATION


NORTH
GRAPHIC SCALE IN FEET
0 15 30 60
EXIST 20' CANAL R.O.W. EASMT. O.R.B. 23587, PG. 834
6' HIGH PRE-CAST CONCRETE SCREE WALL (SEE ARCHITECTURAL PLANS FOR DETAILS)
E-4 CANAL (KELLER CANAL)
R/W
8.5'
20.0'
20' LAKE MAINTENANCE EASEMENT
TOP OF BANK
EDGE OF WATER
LAKE
87,520 SF
(2.01 ACRES)
20' LAKE MAINTENANCE EASEMENT
EDGE OF WATER
TOP OF BANK
20.0'
10.0'
6' HIGH PRE-CAST CONCRETE SCREE WALL (SEE ARCHITECTURAL PLANS FOR DETAILS)
20.0'
P/L
6' CHAIN LINK FENCE
N88°07'04"W
414.88'
IRC FD
10
6.0'
35.0'
254.7'
30.0'
8.0'
STOP
STOP
R30.0'
R30.0'
24" SOLID WHITE STRIPING
24" SOLID WHITE STRIPING
35.0'
10.0'
TRACT "A-1"
8' HIGH GALVANIZED CHAIN LINK FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
S01°25'48"E
6' CHAIN LINK FENCE
10' U.E.
N88°07'04"W
331.03'
WOOD UTILITY POLE ON CORNER
8' HIGH GALVANIZED CHAIN LINK FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
210.81'
8' HIGH GALVANIZED CHAIN LINK FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
TRACT "A-2"
LOT 15
S01°46'43"W
10' U.E.
SOUTH

LEGEND

℄ CENTER LINE OF ROADWAY
P/L R/W RIGHT-OF-WAY
▨ PROP BUILDING
PROP TYPE 'D' CURB
PROP CONCRETE SIDEWALK
↓ ↑ PROP PAVEMENT MARKINGS
◣ CITY OF LAKE WORTH BEACH SIGHT TRIANGLES
⊡ PROP LIGHT FIXTURES

REVISIONS
No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

DATE: 8/20/2020

KHA PROJECT 143189000
DATE DATE
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

GEOMETRY SIGNAGE AND STRIPING PLAN

DOKA LAKE WORTH

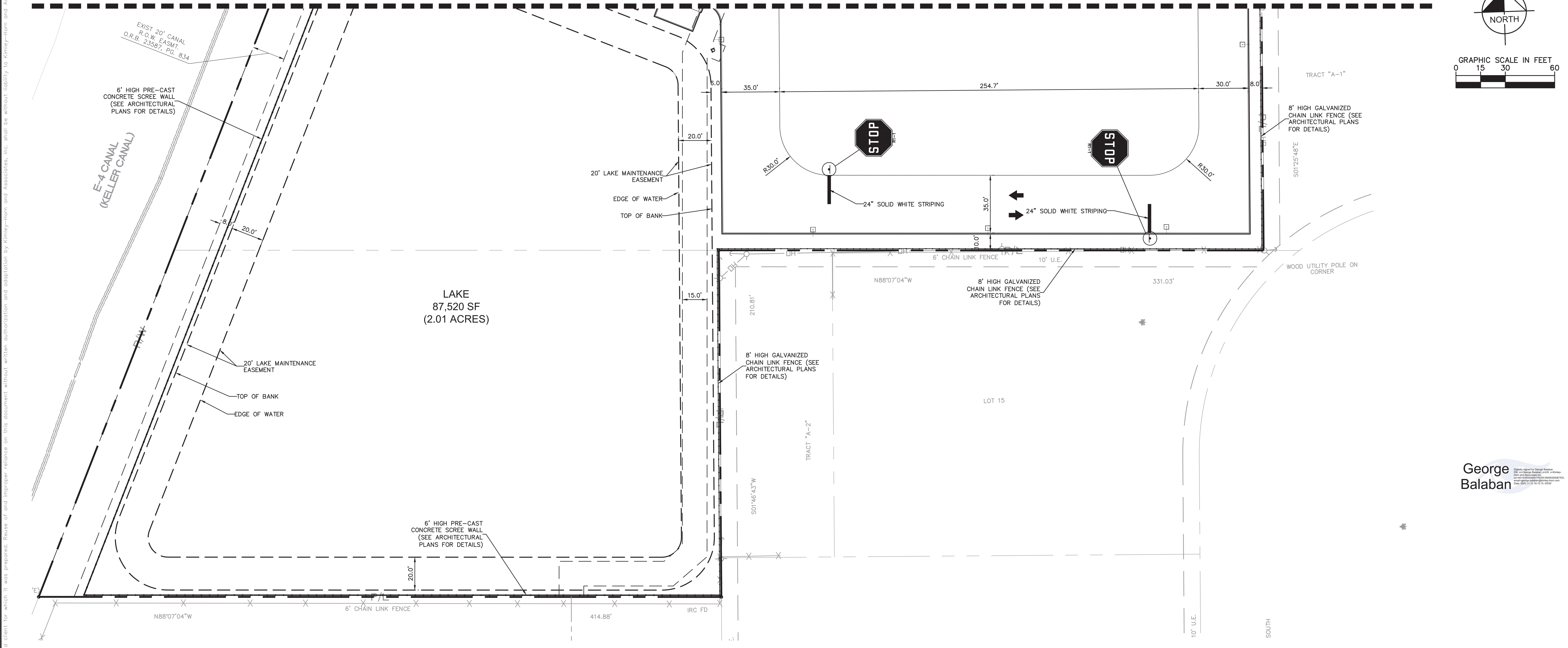
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.

LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-107

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-107 GEOMETRY SIGNAGE AND STRIPING PLAN August 20, 2020 10:22:43am C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-106 GEOMETRY SIGNAGE AND STRIPING PLAN.dwg
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.

SEE SHEET C-106 - GEOMETRY SIGNAGE AND STRIPING PLAN FOR CONTINUATION


NORTH
GRAPHIC SCALE IN FEET
0
15
30
60
EXIST 20' CANAL R.O.W. EASMT. O.R.B. 23587, PG. 834
6' HIGH PRE-CAST CONCRETE SCREE WALL (SEE ARCHITECTURAL PLANS FOR DETAILS)
E-4 CANAL (KELLER CANAL)
R/W
8.0'
20.0'
20' LAKE MAINTENANCE EASEMENT
TOP OF BANK
EDGE OF WATER
LAKE
87,520 SF
(2.01 ACRES)
20' LAKE MAINTENANCE EASEMENT
EDGE OF WATER
TOP OF BANK
20.0'
15.0'
6.0
35.0'
254.7'
30.0'
8.0'
STOP
R1-1
STOP
R1-1
R30.0'
R30.0'
24" SOLID WHITE STRIPING
24" SOLID WHITE STRIPING
35.0'
10.0'
TRACT "A-1"
8' HIGH GALVANIZED CHAIN LINK FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
S01°25'48"E
P/L
6' CHAIN LINK FENCE
10' U.E.
N88°07'04"W
331.03'
8' HIGH GALVANIZED CHAIN LINK FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
WOOD UTILITY POLE ON CORNER
210.81'
8' HIGH GALVANIZED CHAIN LINK FENCE (SEE ARCHITECTURAL PLANS FOR DETAILS)
LOT 15
TRACT "A-2"
S01°46'43"W
6' HIGH PRE-CAST CONCRETE SCREE WALL (SEE ARCHITECTURAL PLANS FOR DETAILS)
20.0'
P/L
N88°07'04"W
6' CHAIN LINK FENCE
414.88'
IRC FD
10' U.E.
SOUTH

George Balaban

LEGEND

℄	CENTER LINE OF ROADWAY	⬇ ⬆	PROP PAVEMENT MARKINGS
P/L R/W	RIGHT-OF-WAY	◹	CITY OF LAKE WORTH BEACH SIGHT TRIANGLES
▨	PROP BUILDING	⊡	PROP LIGHT FIXTURES
═	PROP TYPE 'D' CURB		
⬚	PROP CONCRETE SIDEWALK		

Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-107 GEOMETRY SIGNAGE AND STRIPING PLAN November 12, 2020 03:25:48pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-106 GEOMETRY SIGNAGE AND STRIPING PLAN.dwg
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.

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

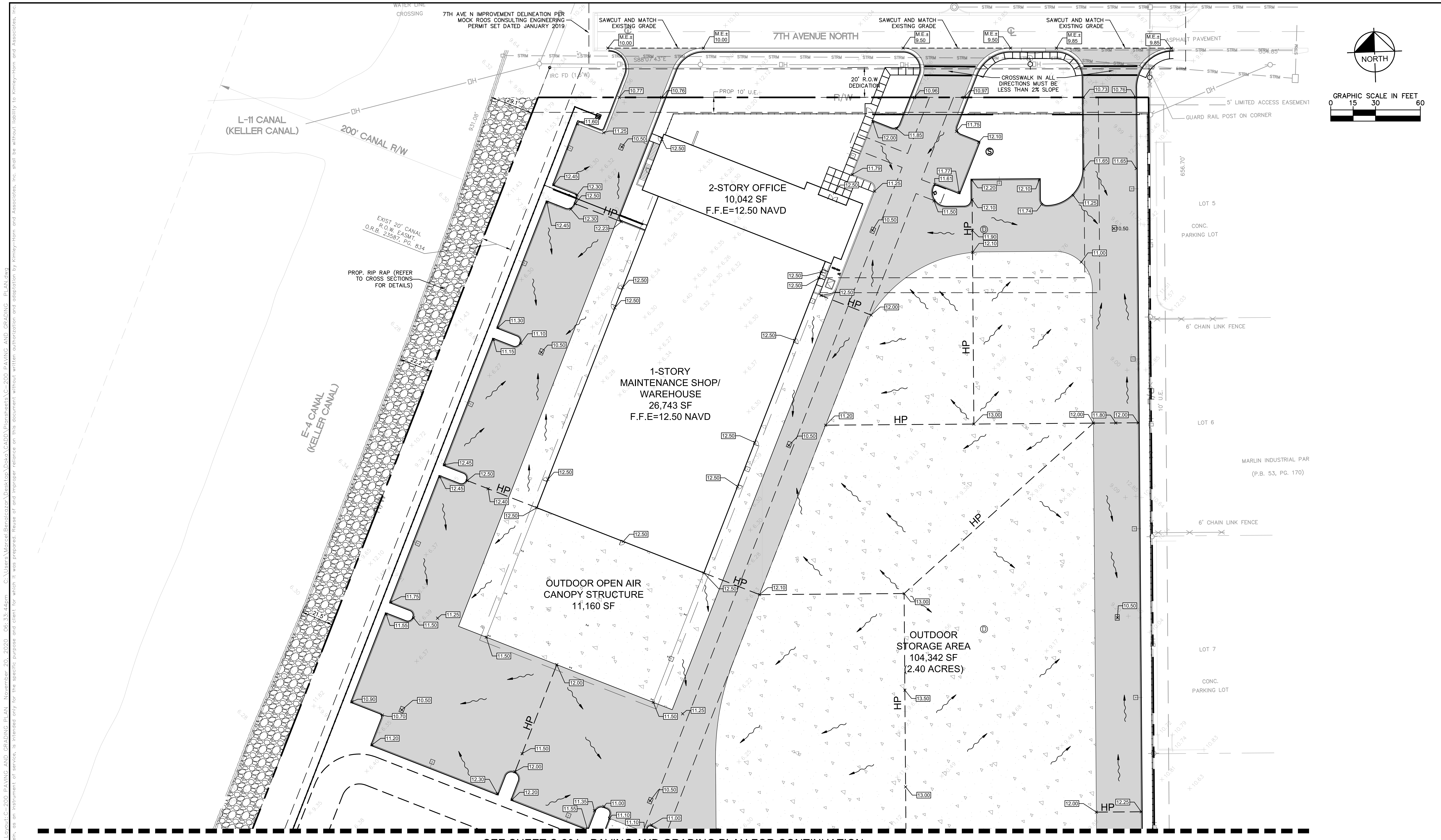
GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

KHA PROJECT	143189000
DATE	9/2/2020
SCALE	AS SHOWN
DESIGNED BY	GB
DRAWN BY	MB
CHECKED BY	GB

GEOMETRY SIGNAGE AND STRIPING PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-107


WATER LINE CROSSING
7TH AVE N IMPROVEMENT DELINEATION PER MOCK ROOS CONSULTING ENGINEERING PERMIT SET DATED JANUARY 2019
SAWCUT AND MATCH EXISTING GRADE
7TH AVENUE NORTH
20' R.O.W. DEDICATION
CROSSWALK IN ALL DIRECTIONS MUST BE LESS THAN 2% SLOPE
PROP 10' U.E.
ASPHALT PAVEMENT
5' LIMITED ACCESS EASEMENT
GUARD RAIL POST ON CORNER
NORTH
GRAPHIC SCALE IN FEET
0 15 30 60
L-11 CANAL (KELLER CANAL)
200' CANAL R/W
EXIST 20' CANAL R.O.W EASMT. O.R.B. 23587, PG. 834
PROP. RIP RAP (REFER TO CROSS SECTIONS FOR DETAILS)
E-4 CANAL (KELLER CANAL)
2-STORY OFFICE
10,042 SF
F.F.E=12.50 NAVD
1-STORY MAINTENANCE SHOP/ WAREHOUSE
26,743 SF
F.F.E=12.50 NAVD
OUTDOOR OPEN AIR CANOPY STRUCTURE
11,160 SF
OUTDOOR STORAGE AREA
104,342 SF
(2.40 ACRES)
HP
LOT 5
CONC. PARKING LOT
6' CHAIN LINK FENCE
LOT 6
MARLIN INDUSTRIAL PAR (P.B. 53, PG. 170)
LOT 7
10' U.E.

SEE SHEET C-201 - PAVING AND GRADING PLAN FOR CONTINUATION

ADA NOTES:

1. ALL HANDICAPPED PARKING SPACES AND ACCESS AISLES ADJACENT TO THE HANDICAP PARKING SPACES SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS (THIS INCLUDES RUNNING SLOPE AND CROSS SLOPE.
2. AN ACCESSIBLE ROUTE FROM THE PUBLIC STREET OR SIDEWALK TO THE BUILDING'S ENTRANCE MUST BE PROVIDED. THIS ACCESSIBLE ROUTE SHALL BE A MINIMUM OF 60" WIDE. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%.
3. SLOPES EXCEEDING 5% BUT LESS THAN 8% WILL REQUIRE A RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS). NO RAMP SHALL EXCEED AN 8% RUNNING SLOPE OR 2% CROSS SLOPE.
4. IN THE CASE THAT A NEW SIDEWALK WILL BE CONSTRUCTED IN THE R/W OF A SITE, THE RUNNING SLOPE OF THE SIDEWALK SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%. THIS STANDARD APPLIES TO CROSS WALKS IN THE DRIVEWAY AS WELL AND WILL REQUIRE SPECIAL ATTENTION DURING STAKING TO MAKE SURE THE 2% CROSS SLOPE IS MET IN THE CROSS WALK.
5. IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALKS/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS.
6. ANY REQUIREMENTS LISTED ABOVE THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NON COMPLIANT AREAS AT THE GENERAL CONTRACTOR'S COST.
7. ALL CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.

GENERAL NOTES:

1. ALL ELEVATIONS LISTED ON PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CITY OF LAKE WORTH ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
5. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
6. CONTRACTOR TO ADJUST ANY MANHOLE RIMS AND VALVE LIDS TO MATCH PROPOSED GRADES.
7. CONTRACTOR TO REFER TO CITY OF LAKE WORTH STANDARD DETAILS FOR UTILITY PAVEMENT RESTORATION DETAILS.
8. STORM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), UNLESS OTHERWISE NOTED.
9. IF ANY EXISTING STORM DRAINAGE STRUCTURES AND PIPES TO REMAIN IN SERVICE ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR THOSE STRUCTURES TO PRIOR CONDITION, OR BETTER, OR TO REPLACE THEM, AS NECESSARY.
10. ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING FRAME AND COVER. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE SURROUNDING GRADE.

LEGEND

▨	PROP STANDARD DUTY CONCRETE SIDEWALK	—— ℄ ——	CENTER LINE OF ROADWAY
■	PROP ASPHALT PAVEMENT	—P/L— R/W—	PROPERTY LINE AND/OR RIGHT-OF-WAY
▨	PROP HEAVY DUTY CONCRETE	~~~→	FLOW ARROWS
		— —HP— —	HIGH POINT
		× 9.48	EXISTING GRADE
		11.50 ×	PROPOSED GRADE

JOINT LAYOUT NOTE:

JOINT LAYOUT TO BE PROVIDED BY CONTRACTOR AND SENT TO EOR FOR CONCURRENCE. CONTRACTOR TO INCLUDE PROVISIONS OF MAXIMUM JOINT SPACING OF 8 FT WIDE SLAB. JOINT DETAIL TO FOLLOW AMERICAN CONCRETE INSTITUTE FOR JOINT LAYOUT PROCEDURE.

CONTRACTOR SHALL ENSURE ALL SITE PREPARATION REQUIREMENTS ARE MET AS DICTATED IN THE GEOTECHNICAL REPORT

ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. TO CONVERT THE ELEVATIONS HEREON TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 ADD 1.52 FEET.

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

KHA PROJECT	143189000
DATE	9/2/2020
SCALE	AS SHOWN
DESIGNED BY	GB
DRAWN BY	MB
CHECKED BY	GB

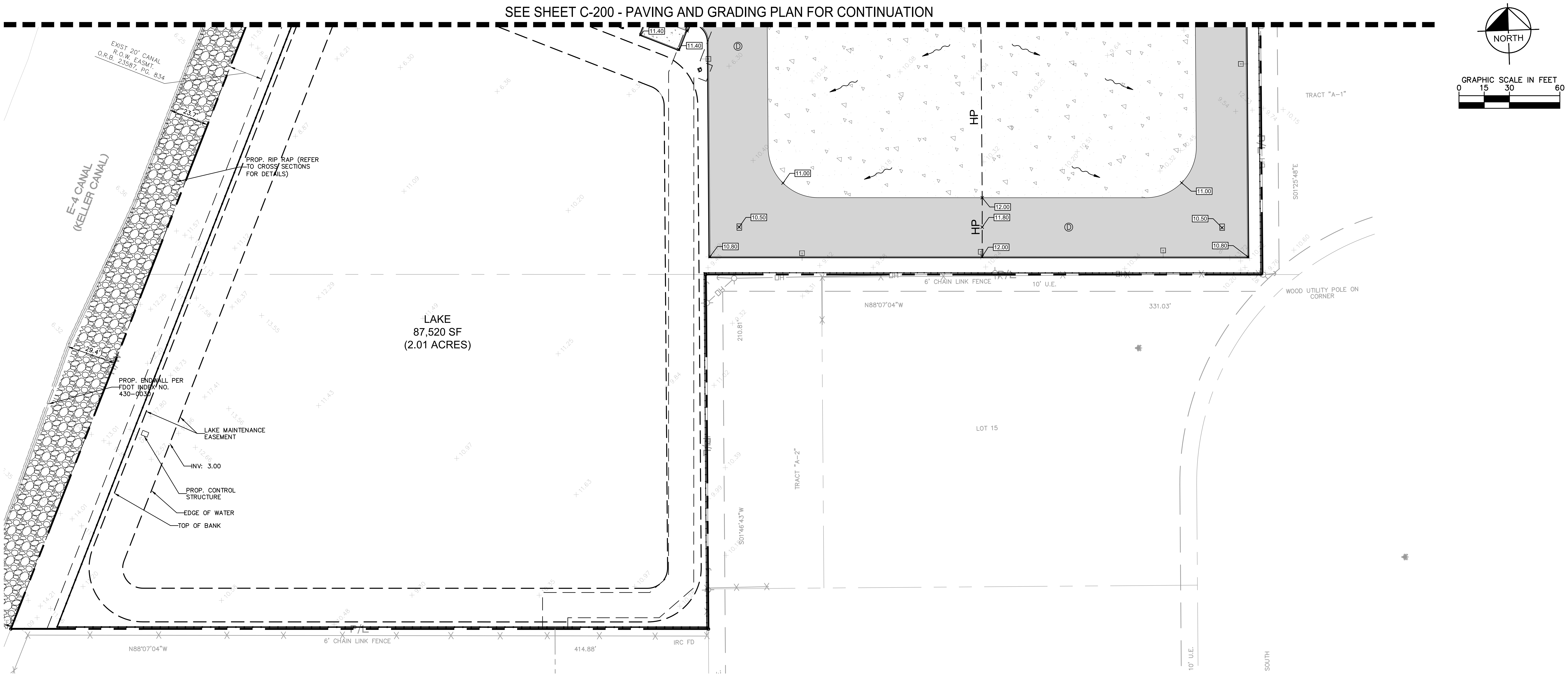
PAVING AND GRADING PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-200

Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-200 PAVING AND GRADING PLAN November 20, 2020 06:33:44pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-200 PAVING AND GRADING PLAN.dwg
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:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-201 PAVING AND GRADING PLAN November 20, 2020 06:33:49pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-200 PAVING AND GRADING PLAN.dwg
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.



ADA NOTES:

1. ALL HANDICAPPED PARKING SPACES AND ACCESS AISLES ADJACENT TO THE HANDICAP PARKING SPACES SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS (THIS INCLUDES RUNNING SLOPE AND CROSS SLOPE.
2. AN ACCESSIBLE ROUTE FROM THE PUBLIC STREET OR SIDEWALK TO THE BUILDING'S ENTRANCE MUST BE PROVIDED. THIS ACCESSIBLE ROUTE SHALL BE A MINIMUM OF 60" WIDE. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%.
3. SLOPES EXCEEDING 5% BUT LESS THAN 8% WILL REQUIRE A RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS). NO RAMP SHALL EXCEED AN 8% RUNNING SLOPE OR 2% CROSS SLOPE.
4. IN THE CASE THAT A NEW SIDEWALK WILL BE CONSTRUCTED IN THE R/W OF A SITE, THE RUNNING SLOPE OF THE SIDEWALK SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%. THIS STANDARD APPLIES TO CROSS WALKS IN THE DRIVEWAY AS WELL AND WILL REQUIRE SPECIAL ATTENTION DURING STAKING TO MAKE SURE THE 2% CROSS SLOPE IS MET IN THE CROSS WALK.
5. IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALKS/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS.
6. ANY REQUIREMENTS LISTED ABOVE THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NON COMPLIANT AREAS AT THE GENERAL CONTRACTOR'S COST.
7. ALL CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.

GENERAL NOTES:

1. ALL ELEVATIONS LISTED ON PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CITY OF LAKE WORTH ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
5. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
6. CONTRACTOR TO ADJUST ANY MANHOLE RIMS AND VALVE LIDS TO MATCH PROPOSED GRADES.
7. CONTRACTOR TO REFER TO CITY OF LAKE WORTH STANDARD DETAILS FOR UTILITY PAVEMENT RESTORATION DETAILS.
8. STORM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), UNLESS OTHERWISE NOTED.
9. IF ANY EXISTING STORM DRAINAGE STRUCTURES AND PIPES TO REMAIN IN SERVICE ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR THOSE STRUCTURES TO PRIOR CONDITION, OR BETTER, OR TO REPLACE THEM, AS NECESSARY.
10. ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING FRAME AND COVER. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE SURROUNDING GRADE.

LEGEND

▨	PROP STANDARD DUTY CONCRETE SIDEWALK	——— ℄ ———	CENTER LINE OF ROADWAY
▨	PROP ASPHALT PAVEMENT	—P/L— —R/W—	PROPERTY LINE AND/OR RIGHT-OF-WAY
▨	PROP HEAVY DUTY CONCRETE	〜〜→	FLOW ARROWS
		— —HP— —	HIGH POINT
		× 9.48	EXISTING GRADE
		11.50 ×	PROPOSED GRADE

JOINT LAYOUT NOTE:

JOINT LAYOUT TO BE PROVIDED BY CONTRACTOR AND SENT TO EOR FOR CONCURRENCE. CONTRACTOR TO INCLUDE PROVISIONS OF MAXIMUM JOINT SPACING OF 8 FT WIDE SLAB. JOINT DETAIL TO FOLLOW AMERICAN CONCRETE INSTITUTE FOR JOINT LAYOUT PROCEDURE.

CONTRACTOR SHALL ENSURE ALL SITE PREPARATION REQUIREMENTS ARE MET AS DICTATED IN THE GEOTECHNICAL REPORT

ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. TO CONVERT THE ELEVATIONS HEREON TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 ADD 1.52 FEET.

Always call 811 two full business days before you dig
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

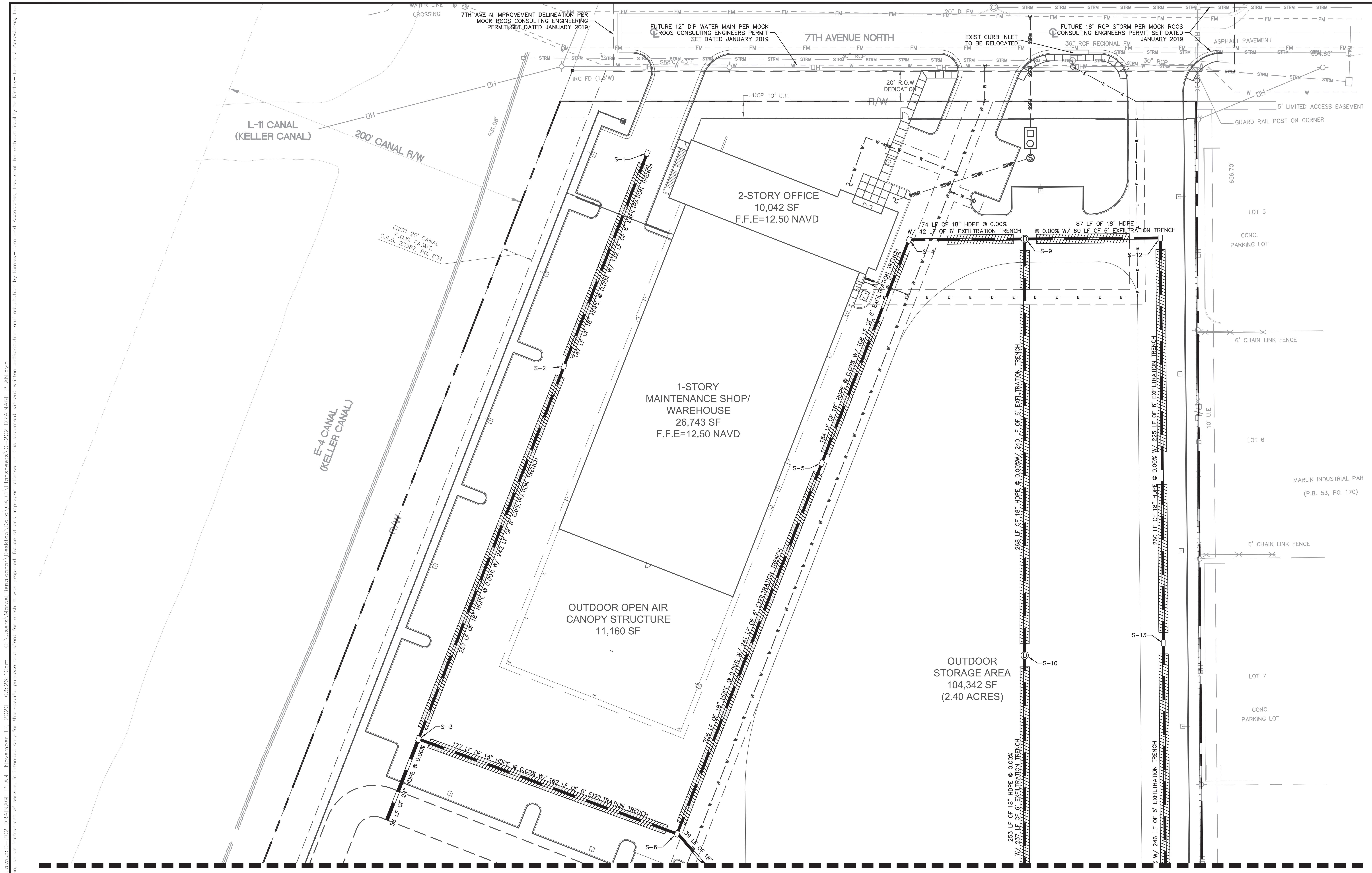
GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

PAVING AND
GRADING PLAN

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-201


7TH AVE N IMPROVEMENT DELINEATION PER MOCK ROOS CONSULTING ENGINEERING PERMIT SET DATED JANUARY 2019
FUTURE 12" DIP WATER MAIN PER MOCK ROOS CONSULTING ENGINEERS PERMIT SET DATED JANUARY 2019
7TH AVENUE NORTH
EXIST CURB INLET TO BE RELOCATED
FUTURE 18" RCP STORM PER MOCK ROOS CONSULTING ENGINEERS PERMIT SET DATED JANUARY 2019
ASPHALT PAVEMENT
36" RCP REGIONAL FM
30" RCP
20" DI FM
WATER LINE CROSSING
IRC FD (1/2")
PROP 10' U.E.
20' R.O.W DEDICATION
R/W
5' LIMITED ACCESS EASEMENT
GUARD RAIL POST ON CORNER
NORTH
GRAPHIC SCALE IN FEET
0
15
30
60
L-11 CANAL (KELLER CANAL)
200' CANAL R/W
EXIST 20' CANAL R.O.W. EASMT. O.R.B. 23587, PG. 834
E-4 CANAL (KELLER CANAL)
R/W
2-STORY OFFICE 10,042 SF F.F.E=12.50 NAVD
1-STORY MAINTENANCE SHOP/ WAREHOUSE 26,743 SF F.F.E=12.50 NAVD
OUTDOOR OPEN AIR CANOPY STRUCTURE 11,160 SF
OUTDOOR STORAGE AREA 104,342 SF (2.40 ACRES)
74 LF OF 18" HDPE @ 0.00% W/ 42 LF OF 6' EXFILTRATION TRENCH
87 LF OF 18" HDPE @ 0.00% W/ 60 LF OF 6' EXFILTRATION TRENCH
147 LF OF 18" HDPE @ 0.00% W/ 132 LF OF 6' EXFILTRATION TRENCH
257 LF OF 18" HDPE @ 0.00% W/ 242 LF OF 6' EXFILTRATION TRENCH
177 LF OF 18" HDPE @ 0.00% W/ 162 LF OF 6' EXFILTRATION TRENCH
36 LF OF 24" HDPE @ 0.00%
39 LF OF 18"
108 LF OF 18" HDPE @ 0.00% W/ 108 LF OF 6' EXFILTRATION TRENCH
154 LF OF 18" HDPE @ 0.00% W/ 154 LF OF 6' EXFILTRATION TRENCH
256 LF OF 18" HDPE @ 0.00% W/ 241 LF OF 6' EXFILTRATION TRENCH
268 LF OF 18" HDPE @ 0.00% W/ 240 LF OF 6' EXFILTRATION TRENCH
253 LF OF 18" HDPE @ 0.00% W/ 237 LF OF 6' EXFILTRATION TRENCH
260 LF OF 18" HDPE @ 0.00% W/ 225 LF OF 6' EXFILTRATION TRENCH
W/ 246 LF OF 6' EXFILTRATION TRENCH
S-1
S-2
S-3
S-4
S-5
S-6
S-9
S-10
S-12
S-13
LOT 5
CONC. PARKING LOT
LOT 6
LOT 7
CONC. PARKING LOT
656.70'
10' U.E.
6' CHAIN LINK FENCE
6' CHAIN LINK FENCE
MARLIN INDUSTRIAL PAR (P.B. 53, PG. 170)

SEE SHEET C-203 - DRAINAGE PLAN FOR CONTINUATION

ADA NOTES:

1. ALL HANDICAPPED PARKING SPACES AND ACCESS AISLES ADJACENT TO THE HANDICAP PARKING SPACES SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS (THIS INCLUDES RUNNING SLOPE AND CROSS SLOPE.
2. AN ACCESSIBLE ROUTE FROM THE PUBLIC STREET OR SIDEWALK TO THE BUILDING'S ENTRANCE MUST BE PROVIDED. THIS ACCESSIBLE ROUTE SHALL BE A MINIMUM OF 60" WIDE. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%.
3. SLOPES EXCEEDING 5% BUT LESS THAN 8% WILL REQUIRE A RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS). NO RAMP SHALL EXCEED AN 8% RUNNING SLOPE OR 2% CROSS SLOPE.
4. IN THE CASE THAT A NEW SIDEWALK WILL BE CONSTRUCTED IN THE R/W OF A SITE, THE RUNNING SLOPE OF THE SIDEWALK SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%. THIS STANDARD APPLIES TO CROSS WALKS IN THE DRIVEWAY AS WELL AND WILL REQUIRE SPECIAL ATTENTION DURING STAKING TO MAKE SURE THE 2% CROSS SLOPE IS MET IN THE CROSS WALK.
5. IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALKS/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS.
6. ANY REQUIREMENTS LISTED ABOVE THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NON COMPLIANT AREAS AT THE GENERAL CONTRACTOR'S COST.
7. ALL CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.

GENERAL NOTES:

1. ALL ELEVATIONS LISTED ON PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CITY OF LAKE WORTH ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
5. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
6. CONTRACTOR TO ADJUST ANY MANHOLE RIMS AND VALVE LIDS TO MATCH PROPOSED GRADES.
7. CONTRACTOR TO REFER TO CITY OF LAKE WORTH STANDARD DETAILS FOR UTILITY PAVEMENT RESTORATION DETAILS.
8. STORM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), UNLESS OTHERWISE NOTED.
9. IF ANY EXISTING STORM DRAINAGE STRUCTURES AND PIPES TO REMAIN IN SERVICE ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR THOSE STRUCTURES TO PRIOR CONDITION, OR BETTER, OR TO REPLACE THEM, AS NECESSARY.
10. ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING FRAME AND COVER. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE SURROUNDING GRADE.

LEGEND

——℄——	CENTER LINE OF ROADWAY
—P/L— R/W—	PROPERTY LINE AND/OR RIGHT-OF-WAY
▨	PROP 6' EXFILTRATION TRENCH

George Balaban

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER

KHA PROJECT	143189000
DATE	9/2/2020
SCALE	AS SHOWN
DESIGNED BY	GB
DRAWN BY	MB
CHECKED BY	GB

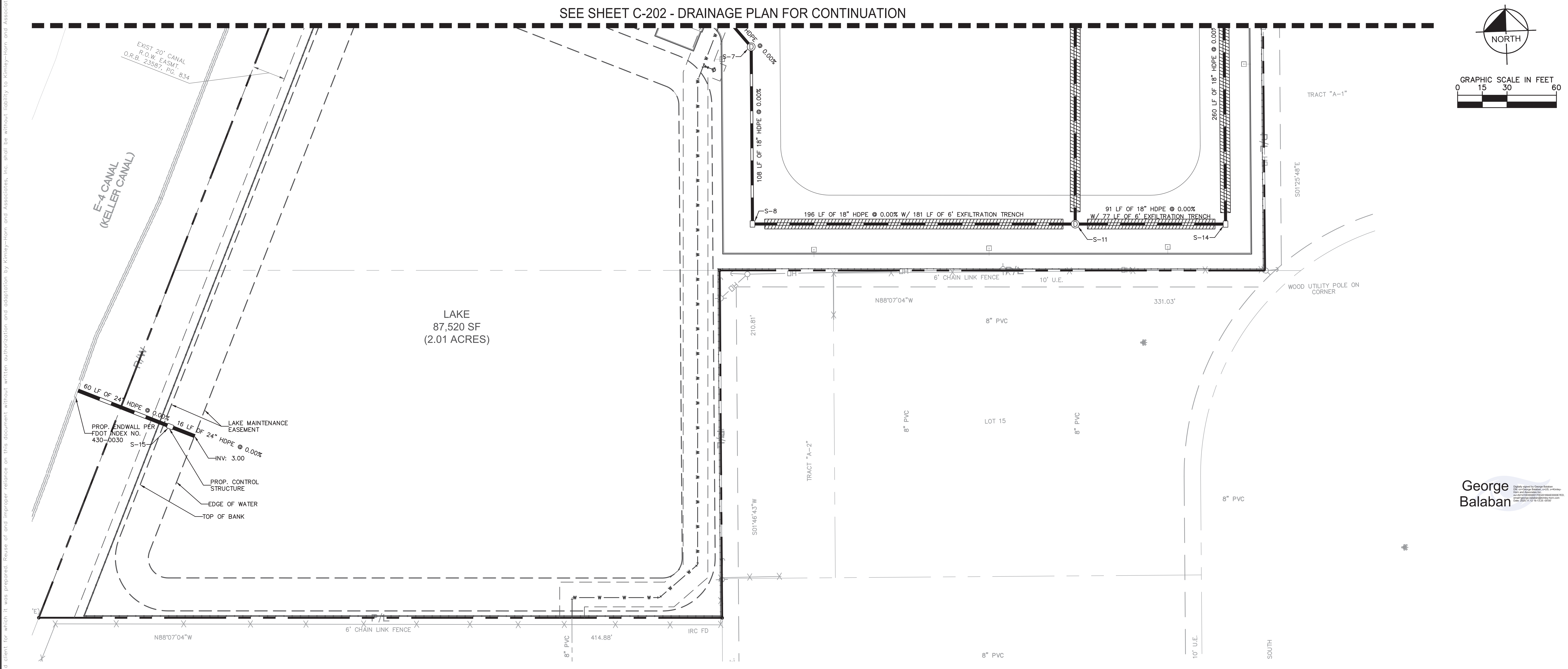
DRAINAGE PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-202

Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-203 DRAINAGE PLAN November 12, 2020 03:26:10pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-202 DRAINAGE PLAN.dwg
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.

SEE SHEET C-202 - DRAINAGE PLAN FOR CONTINUATION


NORTH
GRAPHIC SCALE IN FEET
0 15 30 60
EXIST 20' CANAL R.O.W. EASMT. O.R.B. 2358, PG. 834
E-4 CANAL (KELLER CANAL)
LAKE
87,520 SF
(2.01 ACRES)
S-7
HDPE @ 0.00%
108 LF OF 18" HDPE @ 0.00%
260 LF OF 18" HDPE @ 0.00%
S-8
196 LF OF 18" HDPE @ 0.00% W/ 181 LF OF 6' EXFILTRATION TRENCH
91 LF OF 18" HDPE @ 0.00% W/ 77 LF OF 6' EXFILTRATION TRENCH
S-11
S-14
TRACT "A-1"
S01°25'48"E
6' CHAIN LINK FENCE
10' U.E.
N88°07'04"W
331.03'
WOOD UTILITY POLE ON CORNER
8" PVC
210.81'
LOT 15
TRACT "A-2"
S01°46'43"W
60 LF OF 24" HDPE @ 0.00%
16 LF OF 24" HDPE @ 0.00%
PROP. ENDWALL PER FDOT INDEX NO. 430-0030
S-15
LAKE MAINTENANCE EASEMENT
INV: 3.00
PROP. CONTROL STRUCTURE
EDGE OF WATER
TOP OF BANK
P/L
R/W
N88°07'04"W
6' CHAIN LINK FENCE
414.88'
IRC FD
10' U.E.
SOUTH

ADA NOTES:

1. ALL HANDICAPPED PARKING SPACES AND ACCESS AISLES ADJACENT TO THE HANDICAP PARKING SPACES SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS (THIS INCLUDES RUNNING SLOPE AND CROSS SLOPE.
2. AN ACCESSIBLE ROUTE FROM THE PUBLIC STREET OR SIDEWALK TO THE BUILDING'S ENTRANCE MUST BE PROVIDED. THIS ACCESSIBLE ROUTE SHALL BE A MINIMUM OF 60" WIDE. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%.
3. SLOPES EXCEEDING 5% BUT LESS THAN 8% WILL REQUIRE A RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS). NO RAMP SHALL EXCEED AN 8% RUNNING SLOPE OR 2% CROSS SLOPE.
4. IN THE CASE THAT A NEW SIDEWALK WILL BE CONSTRUCTED IN THE R/W OF A SITE, THE RUNNING SLOPE OF THE SIDEWALK SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%. THIS STANDARD APPLIES TO CROSS WALKS IN THE DRIVEWAY AS WELL AND WILL REQUIRE SPECIAL ATTENTION DURING STAKING TO MAKE SURE THE 2% CROSS SLOPE IS MET IN THE CROSS WALK.
5. IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALKS/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS.
6. ANY REQUIREMENTS LISTED ABOVE THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NON COMPLIANT AREAS AT THE GENERAL CONTRACTOR'S COST.
7. ALL CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.

GENERAL NOTES:

1. ALL ELEVATIONS LISTED ON PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CITY OF LAKE WORTH ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
5. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
6. CONTRACTOR TO ADJUST ANY MANHOLE RIMS AND VALVE LIDS TO MATCH PROPOSED GRADES.
7. CONTRACTOR TO REFER TO CITY OF LAKE WORTH STANDARD DETAILS FOR UTILITY PAVEMENT RESTORATION DETAILS.
8. STORM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), UNLESS OTHERWISE NOTED.
9. IF ANY EXISTING STORM DRAINAGE STRUCTURES AND PIPES TO REMAIN IN SERVICE ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR THOSE STRUCTURES TO PRIOR CONDITION, OR BETTER, OR TO REPLACE THEM, AS NECESSARY.
10. ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING FRAME AND COVER. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE SURROUNDING GRADE.

LEGEND

℄	CENTER LINE OF ROADWAY
P/L R/W	PROPERTY LINE AND/OR RIGHT-OF-WAY
▨	PROP 6' EXFILTRATION TRENCH

George Balaban

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

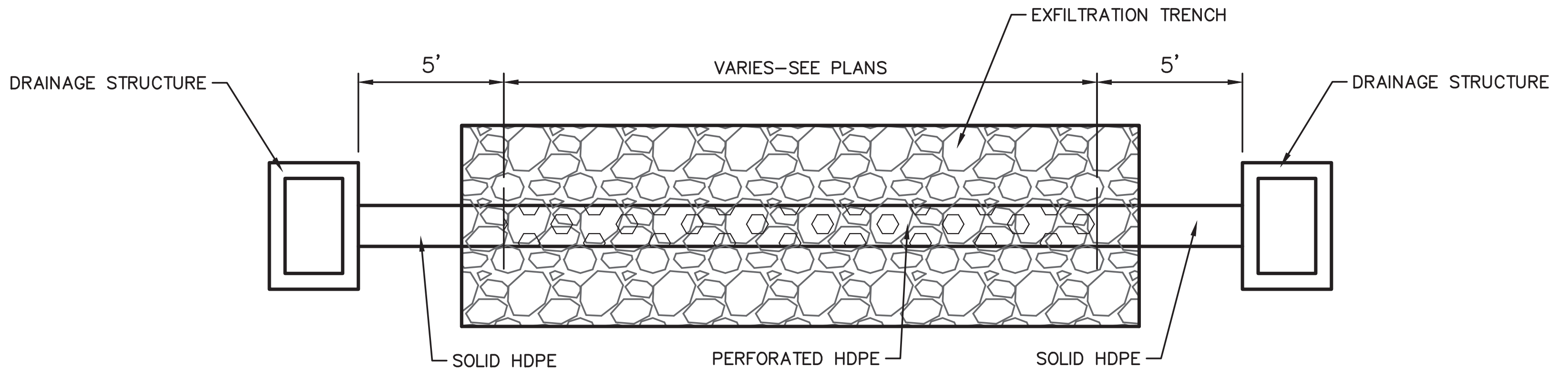
DRAINAGE PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-203

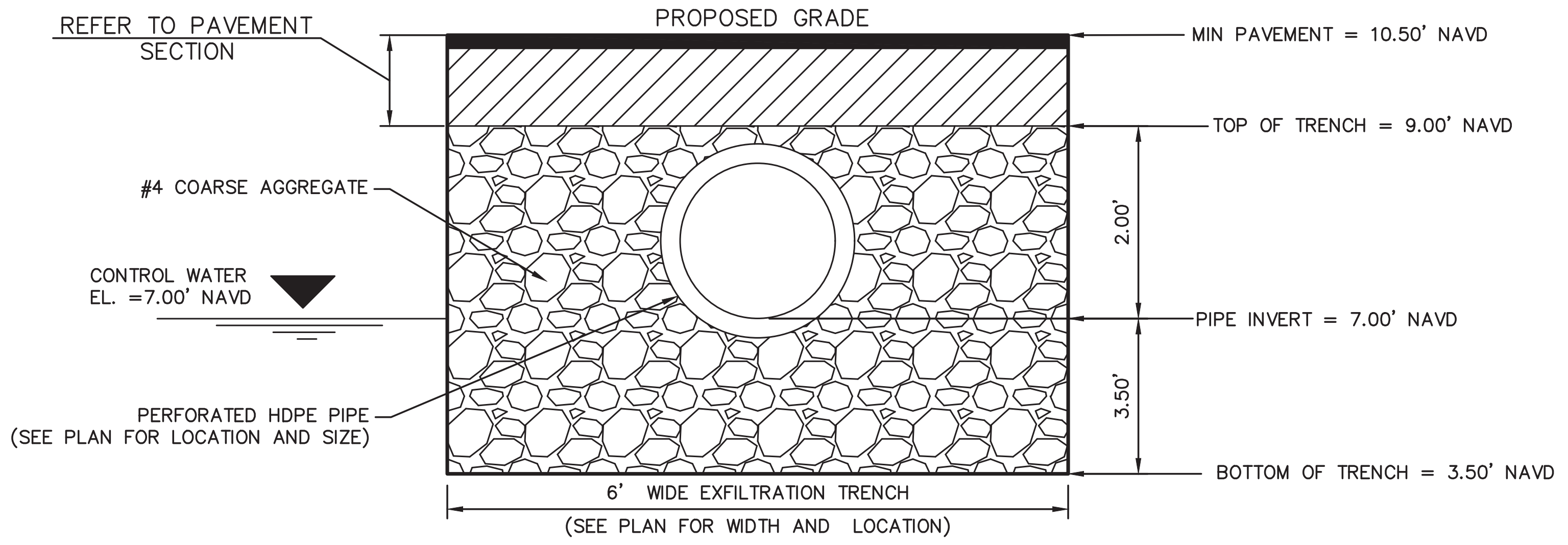
DRAINAGE STRUCTURE TABLE				
STRUCTURE	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION	STRUCTURE DETAILS
S–1	CATCH BASIN W/ BAFFLE (SW) INV.	RIM = 10.50	(18") 7.00 (SW)	4'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–2	CATCH BASIN W/ BAFFLES (NE) & (SW) INV.	RIM = 10.50	(18") 7.00 (NE) (18") 7.00 (SW)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–3	CATCH BAIN W/ BAFFLES (NE) & (SE) INV.	RIM = 10.50	(18") 7.00 (NE) (18") 7.00 (E) (24") 3.00 (SW)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–4	CATCH BASINS W/ BAFFLES (SW) & (E) INV.	RIM = 10.50	(18") 7.00 (E) (18") 7.00 (SW)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–5	CATCH BASIN W/ BAFFLES (NE) & (SW) INV.	RIM = 10.50	(18") 7.00 (NE) (18") 7.00 (SW)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–6	CATCH BASIN W/ BAFFLES (NE) & (SE) INV.	RIM = 10.50	(18") 7.00 (W) (18") 7.00 (NE) (18") 7.00 (SE)	6'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–7	DRAIANGE MANHOLE	RIM = 11.13	(18") 7.00 (NW) (18") 7.00 (S)	4'–0" DIA. STRUCTURE BOTTOM W/ USF 170 RING TYPE H W/ THE WORD 'STORM'
S–8	CATCH BAIN W/ BAFFLE (E) INV.	RIM = 10.50	(18") 7.00 (N) (18") 7.00 (E)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–9	DRAINAGE MANHOLE	RIM = 11.87	(18") 7.00 (E) (18") 7.00 (S) (18") 7.00 (W)	5'–0" DIA. STRUCTURE BOTTOM W/ USF 170 RING TYPE H W/ THE WORD 'STORM'
S–10	DRAINAGE MANHOLE	RIM = 12.40	(18") 7.00 (S) (18") 7.00 (N)	4'–0" DIA. STRUCTURE BOTTOM W/ USF 170 RING TYPE H W/ THE WORD 'STORM'
S–11	DRAINAGE MANHOLE	RIM = 11.59	(18") 7.00 (W) (18") 7.00 (E) (18") 7.00 (N)	5'–0" DIA. STRUCTURE BOTTOM W/ USF 170 RING TYPE H W/ THE WORD 'STORM'
S–12	CATCH BASIN W/ BAFFLES (W) & (S) INV.	RIM = 10.50	(18") 7.00 (S) (18") 7.00 (W)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–13	CATCH BASIN W/ BAFFLES (N) & (S) INV.	RIM = 10.50	(18") 7.00 (S) (18") 7.00 (N)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–14	CATCH BASIN W/ VAFFLES (N) & (W) INV.	RIM = 10.50	(18") 7.00 (W) (18") 7.00 (N)	5'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE
S–15	CONTROL STRUCTURE W/ 6" INVERTED TRIANGLE	RIM = 10.67	(24") 3.00 (NW) (24") 3.00 (SE)	6'–0" DIA. STRUCTURE BOTTOM W/ USF #4155–6209 FRAME & GRATE

CONTRACTOR SHALL PRODUCE SHOP DRAWINGS AND ENSURE SIZE OF DRAINAGE INLET/MANHOLE IS ADEQUATE TO PROVIDE MINIMUM POLLUTANT RETARDANT BAFFLES CLEARANCES AS INDICATED ON THIS SHEET


EXFILTRATION TRENCH
DRAINAGE STRUCTURE
5'
VARIES–SEE PLANS
5'
DRAINAGE STRUCTURE
SOLID HDPE
PERFORATED HDPE
SOLID HDPE

NOTES:

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

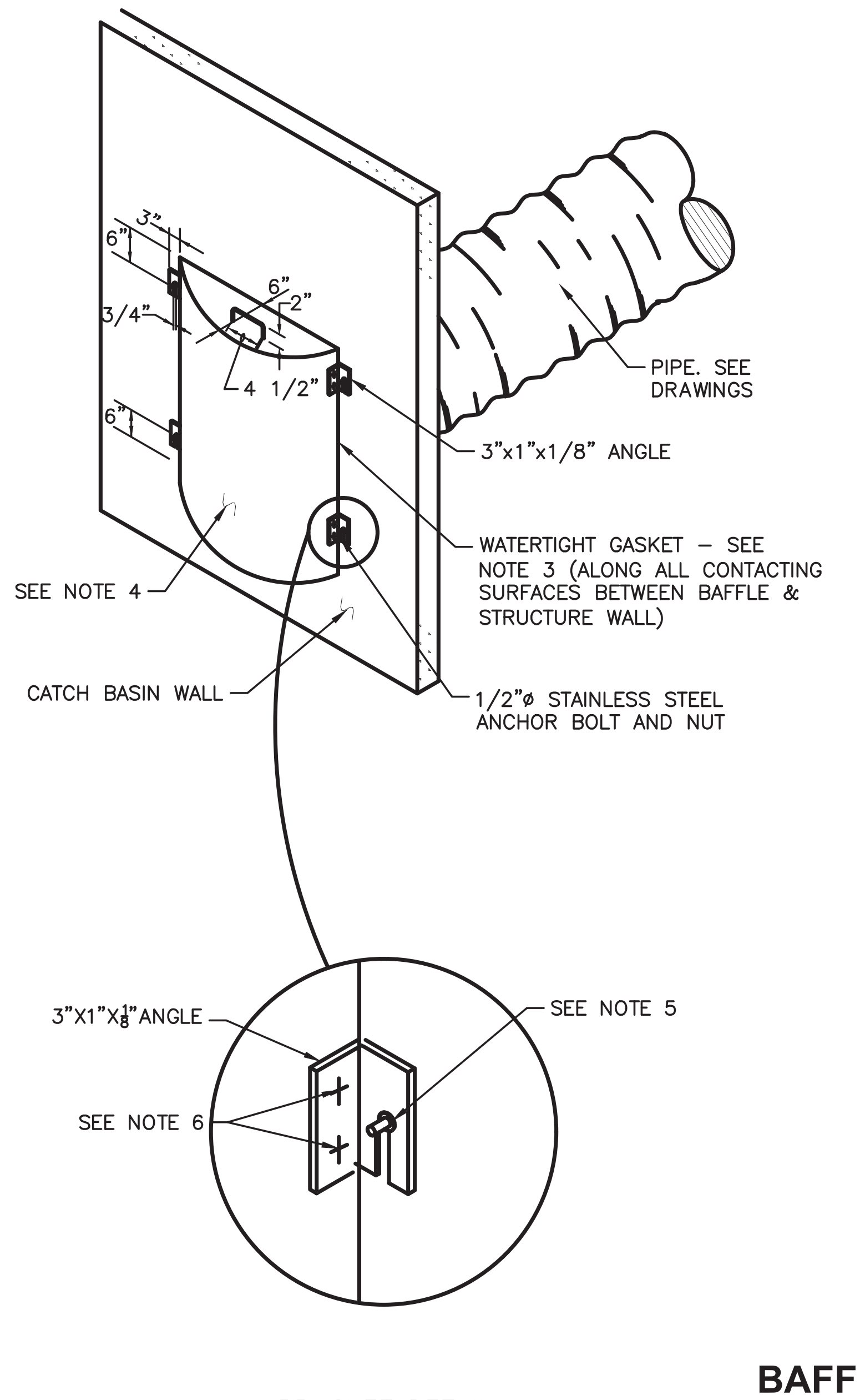

REFER TO PAVEMENT SECTION
PROPOSED GRADE
MIN PAVEMENT = 10.50' NAVD
TOP OF TRENCH = 9.00' NAVD
#4 COARSE AGGREGATE
2.00'
CONTROL WATER EL. =7.00' NAVD
PIPE INVERT = 7.00' NAVD
3.50'
PERFORATED HDPE PIPE (SEE PLAN FOR LOCATION AND SIZE)
BOTTOM OF TRENCH = 3.50' NAVD
6' WIDE EXFILTRATION TRENCH
(SEE PLAN FOR WIDTH AND LOCATION)

TYPICAL EXFILTRATION TRENCH DETAIL

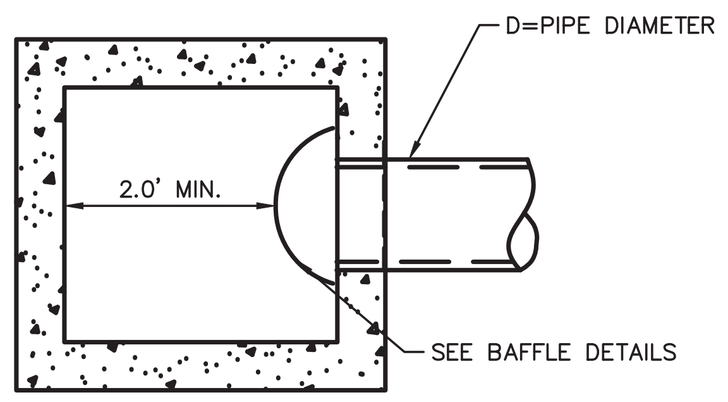
NOTES:

1. CONTRACTOR TO VERIFY THAT BAFFLE WILL FIT STRUCTURE I.D.
2. DEBRIS BAFFLE REQUIRED AT CATCH BASINS CONNECTED DIRECTLY TO PROPOSED DRAIN FIELD.
3. PROVIDE NEOPRENE GASKET TO SIDES AND TOP.
4. SECTION OF A.C.M.P. CUT IN HALF OR EQUIVALENT PREFABRICATED FIBERGLASS. BAFFLE DIAMETER TO BE AS PER TABLE 1.
5. ½" GALVANIZED LAG BOLT IN LEAD SHIELD.
6. WELD OR 2–1/4" THRU BOLTS.

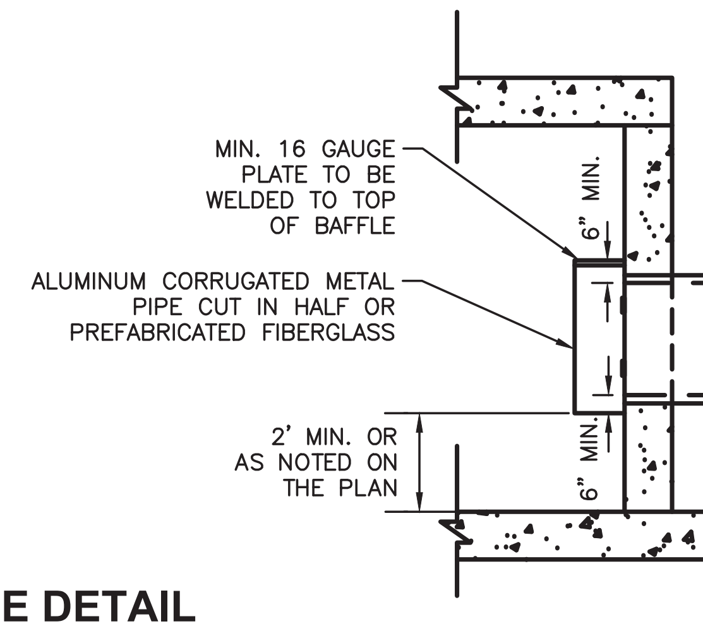
TABLE 1	
DIAMETER (IN)	BAFFLE DIA. (IN)
10	15
15	24
18	30
24	36
30	48
36	54


6"
3"
3/4"
6"
2"
4 1/2"
6"
PIPE. SEE DRAWINGS
3"x1"x1/8" ANGLE
WATERTIGHT GASKET – SEE NOTE 3 (ALONG ALL CONTACTING SURFACES BETWEEN BAFFLE & STRUCTURE WALL)
SEE NOTE 4
CATCH BASIN WALL
1/2"ø STAINLESS STEEL ANCHOR BOLT AND NUT
3"X1"X⅛"ANGLE
SEE NOTE 5
SEE NOTE 6

BRACKET DETAIL


D=PIPE DIAMETER
2.0' MIN.
SEE BAFFLE DETAILS

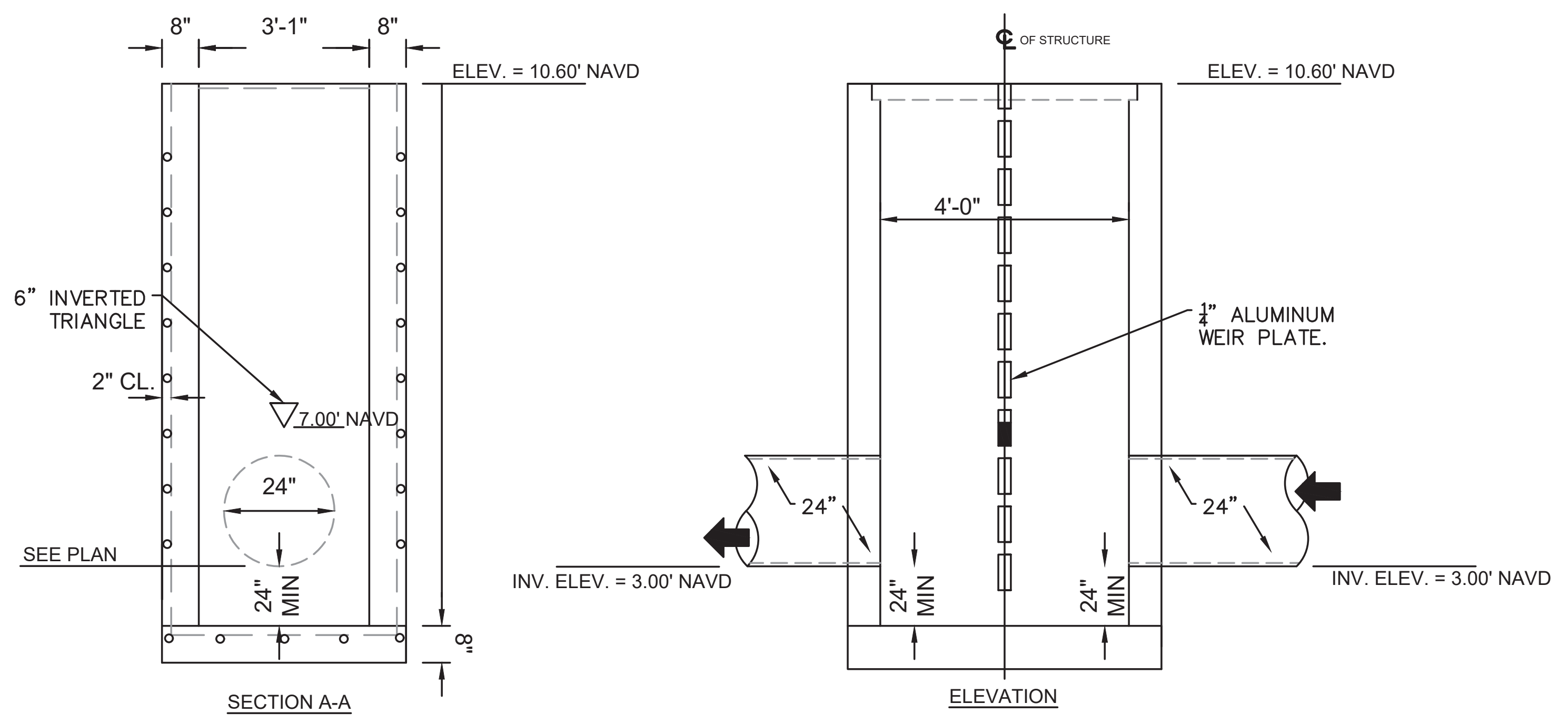
PLAN


MIN. 16 GAUGE PLATE TO BE WELDED TO TOP OF BAFFLE
6" MIN.
ALUMINUM CORRUGATED METAL PIPE CUT IN HALF OR PREFABRICATED FIBERGLASS
2' MIN. OR AS NOTED ON THE PLAN
6" MIN.

ELEVATION

BAFFLE DETAIL

N.T.S.


8"
3'-1"
8"
ELEV. = 10.60' NAVD
6" INVERTED TRIANGLE
2" CL.
7.00' NAVD
24"
SEE PLAN
24" MIN
8"
℄ OF STRUCTURE
ELEV. = 10.60' NAVD
4'-0"
¼" ALUMINUM WEIR PLATE.
24"
24"
INV. ELEV. = 3.00' NAVD
24" MIN
24" MIN
INV. ELEV. = 3.00' NAVD

SECTION A-A

ELEVATION

CONTROL STRUCTURE (S-15)

George Balaban

Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-204 DRAINAGE DETAILS November 12, 2020 03:26:12pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-202 DRAINAGE PLAN.dwg
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.

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954–535–5100 FAX: 954–739–2247
WWW.KIMLEY–HORN.COM CA 00000696

GEORGE BALABAN
No 74543
DATE:

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

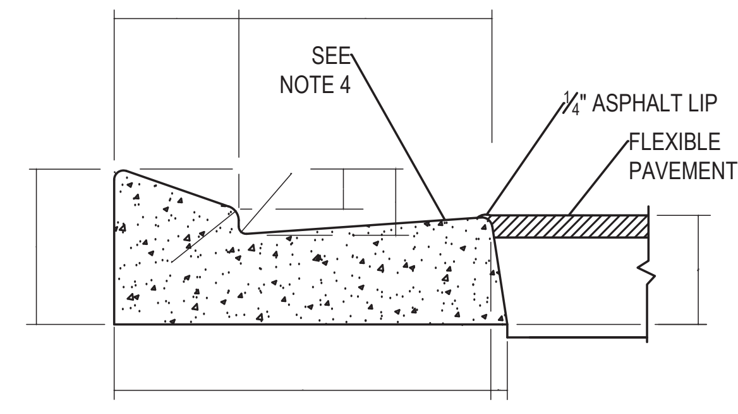
DRAINAGE DETAILS

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

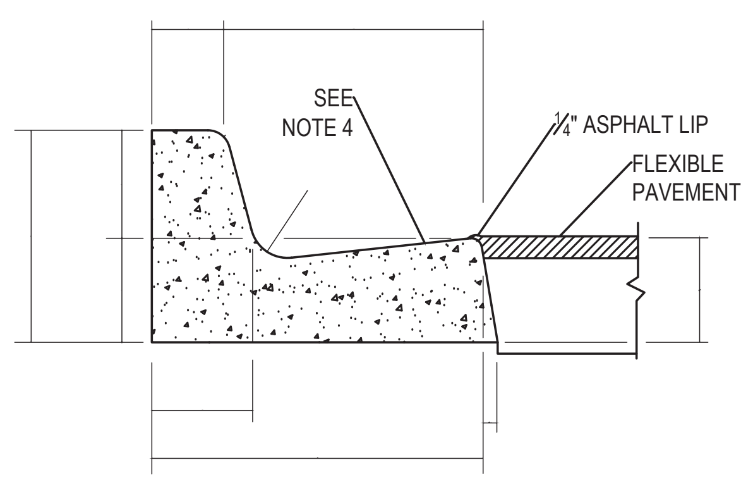
SHEET NUMBER
C-204

George
Balaban

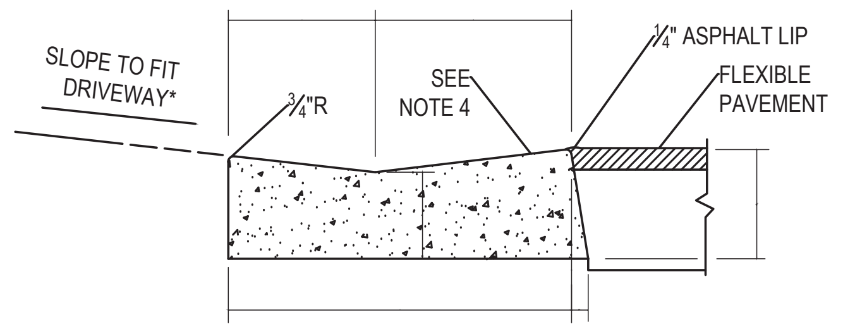
Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:13:53 -05'00'


SEE NOTE 4
¼" ASPHALT LIP
FLEXIBLE PAVEMENT

TYPE E


SEE NOTE 4
¼" ASPHALT LIP
FLEXIBLE PAVEMENT

TYPE F


SLOPE TO FIT DRIVEWAY*
¾"R
SEE NOTE 4
¼" ASPHALT LIP
FLEXIBLE PAVEMENT

*NOTE: 2% MAX. SLOPE FOR PEDESTRIAN PATHWAYS; 12% MAX. SLOPE FOR DRIVEWAYS

VALLEY GUTTER
(DROP CURB)

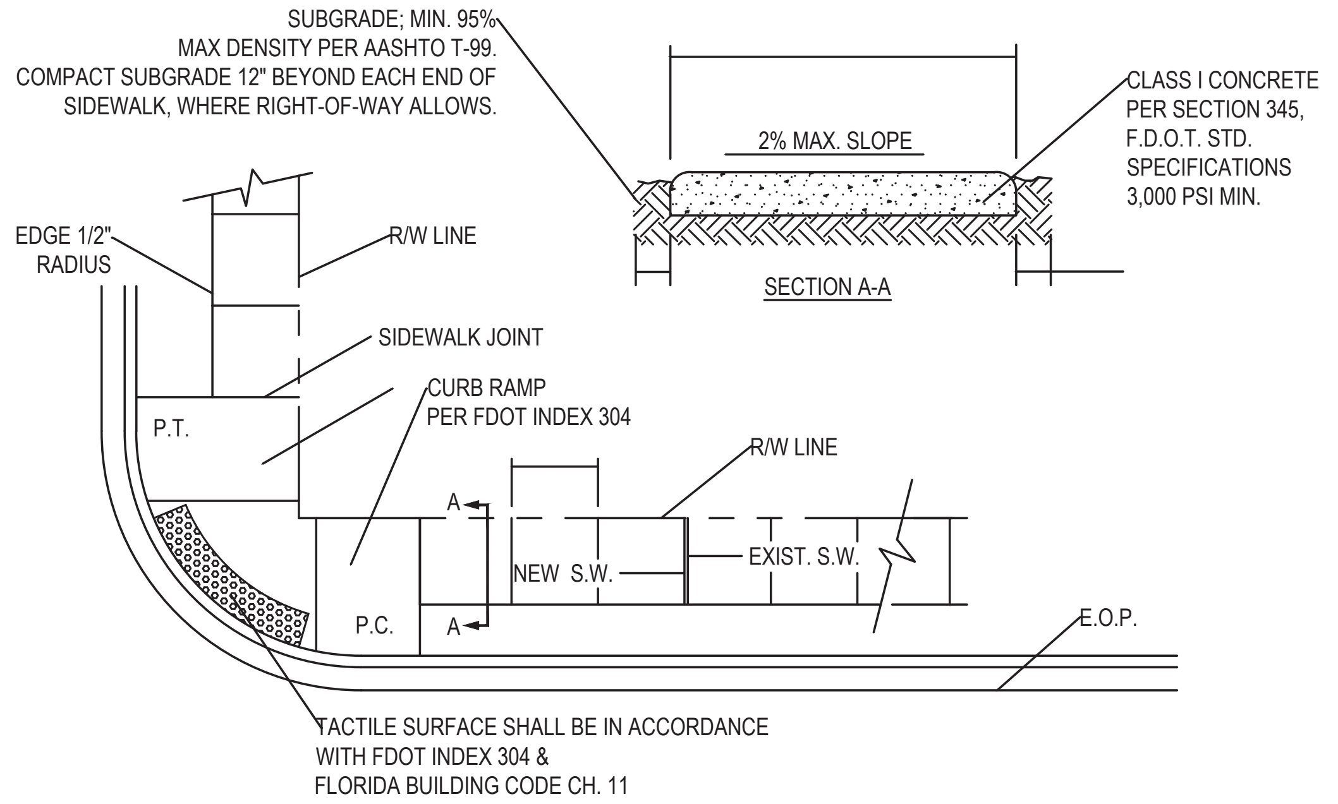
NOTES:

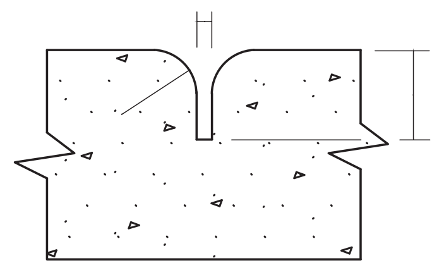
1. ULTIMATE STRENGTH OF CONCRETE FOR CURBS AND GUTTERS SHALL BE 3,000 P.S.I. @ 28 DAYS.
2. 1/8"-1/4" CONTRACTION JOINTS IN CURB AND GUTTER SHALL BE CUT AS SHOWN AND AT 10 FT. MAXIMUM SPACING. NO SECTION SHALL BE LESS THAN 4 FT.
3. WHEN PAVEMENT IS CONCRETE, PROVIDE A 1/2" EXPANSION JOINT WITH PRE-FORMED JOINT FILLER & JOINT SEAL BETWEEN CURB AND CONCRETE PAVEMENT. (1-1/2" TAPER ON CURB FACE NOT REQUIRED AT CONCRETE PAVEMENT.)
4. WHEN USED ON HIGH EDGE OF PAVEMENT, THE CROSS SLOPE OF TYPES "E", "F", AND VALLEY GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT EDGE OF PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6" MINIMUM UNLESS OTHERWISE SHOWN ON PLANS. THE SURFACE ON THE LOW EDGE OF PAVEMENT TO BE 1/4" ABOVE LIP OF GUTTER. SURFACE ON HIGH EDGE OF PAVEMENT TO BE FLUSH WITH LIP OF CURB AND GUTTER. IF BOTH EDGES ARE AT SAME ELEVATION, SURFACE SHALL BE FLUSH.
5. ENDS OF TYPE "E" & "F" CURBING SHALL TRANSITION FROM FULL HEIGHT TO FLUSH IN 3 FEET.
6. THE MINIMUM CONSTRUCTED FLOW-LINE GRADIENT FOR STREET DRAINAGE UTILIZING CURB & GUTTER OR VALLEY GUTTER SHALL BE 0.20%.
7. REFER TO FDOT INDEX 300 FOR ADDITIONAL INFORMATION.
8. CONCRETE CURBING SHALL BE CONSTRUCTED ON A 4" THICK BASEROCK CURB PAD

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CONCRETE CURB AND GUTTER

DETAIL NO. 05
ISSUED: 09/18/13


SUBGRADE; MIN. 95% MAX DENSITY PER AASHTO T-99. COMPACT SUBGRADE 12" BEYOND EACH END OF SIDEWALK, WHERE RIGHT-OF-WAY ALLOWS.
2% MAX. SLOPE
CLASS I CONCRETE PER SECTION 345, F.D.O.T. STD. SPECIFICATIONS 3,000 PSI MIN.
SECTION A-A
EDGE 1/2" RADIUS
R/W LINE
SIDEWALK JOINT
CURB RAMP PER FDOT INDEX 304
P.T.
R/W LINE
A
NEW S.W.
EXIST. S.W.
P.C.
A
E.O.P.
TACTILE SURFACE SHALL BE IN ACCORDANCE WITH FDOT INDEX 304 & FLORIDA BUILDING CODE CH. 11



NOTE:

1. ALL SIDEWALKS SHALL BE CONSTRUCTED THROUGH DRIVEWAYS.
2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMPS @ INTERSECTIONS.
3. CONCRETE SHALL BE BROOM FINISHED WITH EVEN DUSTLESS SURFACE.

TABLE OF SIDEWALK THICKNESS - "T"	
RESIDENTIAL AREAS	4"
WITHIN 10' OF CROSS-STREETS, AT DRIVEWAYS & OTHER AREAS	6"

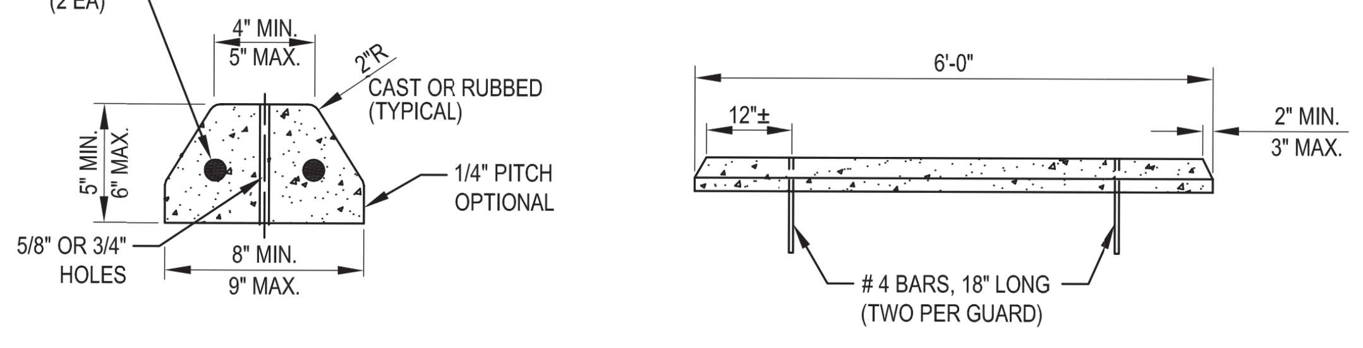
TABLE OF SIDEWALK WIDTHS - "W"	
STANDARD WIDTH	5'
OTHER AREAS AS SPECIFIED BY THE CITY ENGINEER.	

CONCRETE WALK CONSTRUCTION

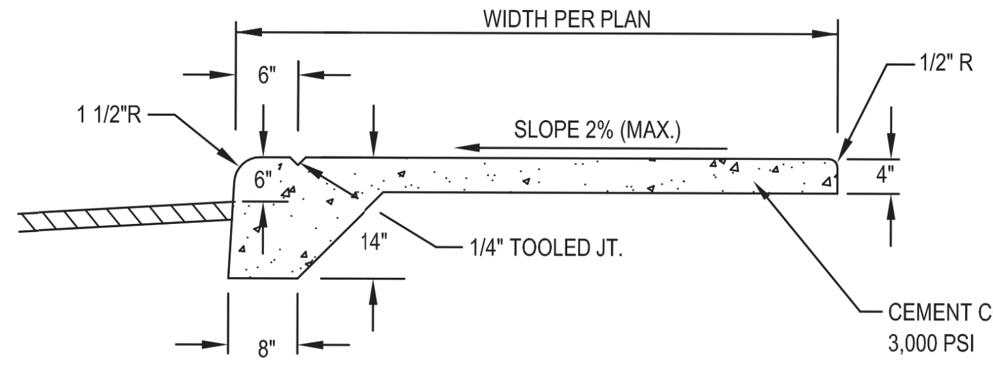
CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CONCRETE WALK

DETAIL NO. 07
ISSUED: 09/18/13


#4 REBAR (2 EA)
4" MIN.
5" MAX.
2"R
CAST OR RUBBED (TYPICAL)
5" MIN.
6" MAX.
1/4" PITCH OPTIONAL
5/8" OR 3/4" HOLES
8" MIN.
9" MAX.
6'-0"
12"±
2" MIN.
3" MAX.
# 4 BARS, 18" LONG (TWO PER GUARD)

CONCRETE BUMPER GUARD


WIDTH PER PLAN
6"
1/2" R
1 1/2"R
SLOPE 2% (MAX.)
6"
4"
14"
1/4" TOOLED JT.
8"
CEMENT CONCRETE 3,000 PSI

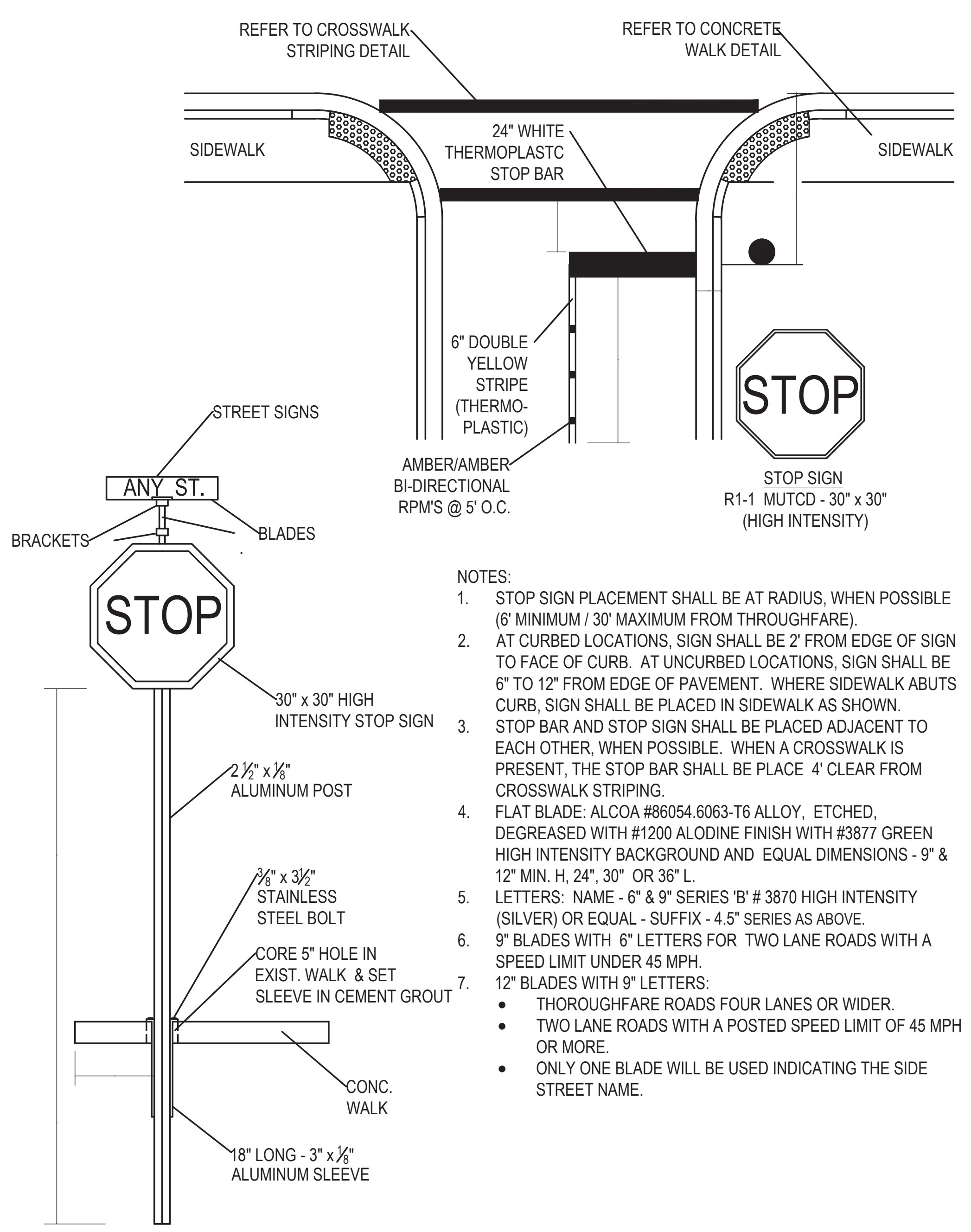
MONOLITHIC CURB AND WALK DETAIL

TO BE USED IN PARKING AREAS & WHERE TYPE "F" CURB & GUTTER IS NOT REQUIRED. N.T.S.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CONCRETE BUMPER GUARD AND MONOLITHIC CURB AND WALK

DETAIL NO. 08
ISSUED: 9/18/13


REFER TO CROSSWALK STRIPING DETAIL
REFER TO CONCRETE WALK DETAIL
SIDEWALK
24" WHITE THERMOPLASTC STOP BAR
SIDEWALK
6" DOUBLE YELLOW STRIPE (THERMO-PLASTIC)
AMBER/AMBER BI-DIRECTIONAL RPM'S @ 5' O.C.
STOP
STOP SIGN
R1-1 MUTCD - 30" x 30" (HIGH INTENSITY)
STREET SIGNS
ANY ST.
BRACKETS
BLADES
STOP
30" x 30" HIGH INTENSITY STOP SIGN
2½" x ⅛" ALUMINUM POST
⅜" x 3½" STAINLESS STEEL BOLT
CORE 5" HOLE IN EXIST. WALK & SET SLEEVE IN CEMENT GROUT
CONC. WALK
18" LONG - 3" x ⅛" ALUMINUM SLEEVE

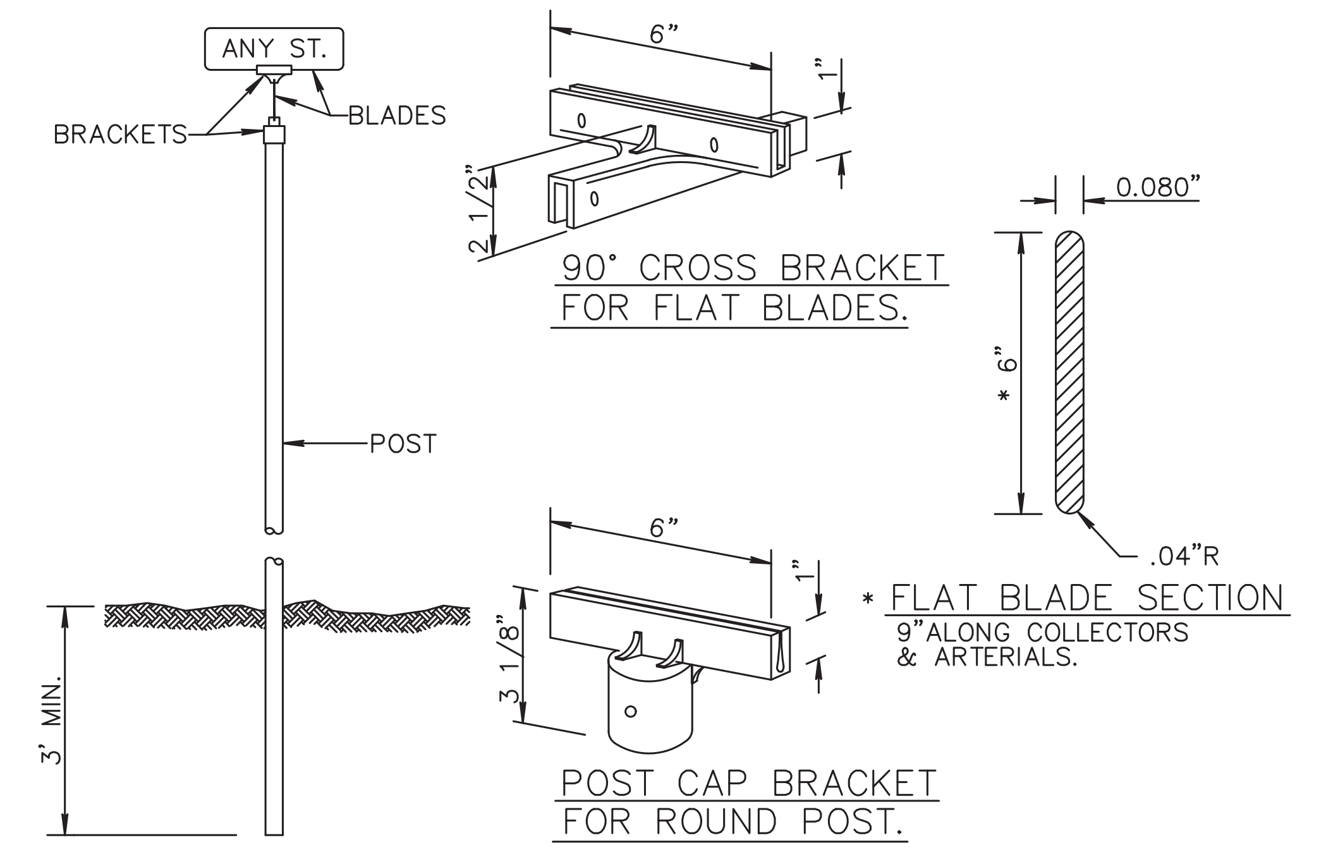
NOTES:

1. STOP SIGN PLACEMENT SHALL BE AT RADIUS, WHEN POSSIBLE (6' MINIMUM / 30' MAXIMUM FROM THROUGHFARE).
2. AT CURBED LOCATIONS, SIGN SHALL BE 2' FROM EDGE OF SIGN TO FACE OF CURB. AT UNCURBED LOCATIONS, SIGN SHALL BE 6" TO 12" FROM EDGE OF PAVEMENT. WHERE SIDEWALK ABUTS CURB, SIGN SHALL BE PLACED IN SIDEWALK AS SHOWN.
3. STOP BAR AND STOP SIGN SHALL BE PLACED ADJACENT TO EACH OTHER, WHEN POSSIBLE. WHEN A CROSSWALK IS PRESENT, THE STOP BAR SHALL BE PLACE 4' CLEAR FROM CROSSWALK STRIPING.
4. FLAT BLADE: ALCOA #86054.6063-T6 ALLOY, ETCHED, DEGREASED WITH #1200 ALODINE FINISH WITH #3877 GREEN HIGH INTENSITY BACKGROUND AND EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30" OR 36" L.
5. LETTERS: NAME - 6" & 9" SERIES 'B' # 3870 HIGH INTENSITY (SILVER) OR EQUAL - SUFFIX - 4.5" SERIES AS ABOVE.
6. 9" BLADES WITH 6" LETTERS FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH.
7. 12" BLADES WITH 9" LETTERS:
   - THOROUGHFARE ROADS FOUR LANES OR WIDER.
   - TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE.
   - ONLY ONE BLADE WILL BE USED INDICATING THE SIDE STREET NAME.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

STOP SIGN AND STOP BAR

DETAIL NO. 09
ISSUED: 09/18/13


ANY ST.
BRACKETS
BLADES
POST
3' MIN.
6"
1"
2 1/2"
0.080"
* 6"
.04"R
6"
1"
3 1/8"

90° CROSS BRACKET FOR FLAT BLADES.

* FLAT BLADE SECTION
9"ALONG COLLECTORS & ARTERIALS.

POST CAP BRACKET FOR ROUND POST.

GENERAL SPECIFICATIONS:

* BLADE: ALCOA NO.86054,6063–T6 ALLOY, ETCHED, DEGREASED, AND DEBURRED WITH NO.1200 ALDOLINE FINISH WITH HIGH INTENSITY GREEN BACKGROUND DIMENSIONS: 6" OR 9" IN HEIGHT, AND 24", 30", OR 36" IN LENGTH

* LETTERS: NAME 4" SERIES "B" HIGH INTENSITY (SILVER)
SUFFIX 2" SERIES "B" HIGH INTENSITY (SILVER)
ALL LETTERS FOR SIGNS ALONG COLLECTOR OR ARTERIAL ROADWAYS SHALL BE 7" SERIES "B" WITH 4" SERIES "B" SUFFIX ON 9" HIGH BLADES.

* POST: STEEL FLANGED GALVANIZED CHANNEL.
PER A.S.T.M. A123 WITHOUT ANCHOR PLATES.

* BRACKETS: DIE CAST HIGH STRENGTH ALUMINUM ALLOY, MIN. TENSILE STRENGTH 45,000 P.S.I., DEGREASED, TUMBLED, AND POLISHED SIDES OF ALL SLOTS SHALL BE SOLID METAL WITH TWO HOLES PER SLOT (SAME SIDE) DRILLED TO 7/32" AND TAPPED TO 1/4" TO RECEIVE STAINLESS STEEL ALLENHEAD SET SCREWS, SKIRT OF POST CAP BRACKET TO BE DRILLED AND TAPPED FOR 3 SCREWS OF WHICH NO TWO IS TO BE LESS THAN 90° OR MORE THAN 135° APART. (METRO HUSKEY NO.6 OR EQUAL.)

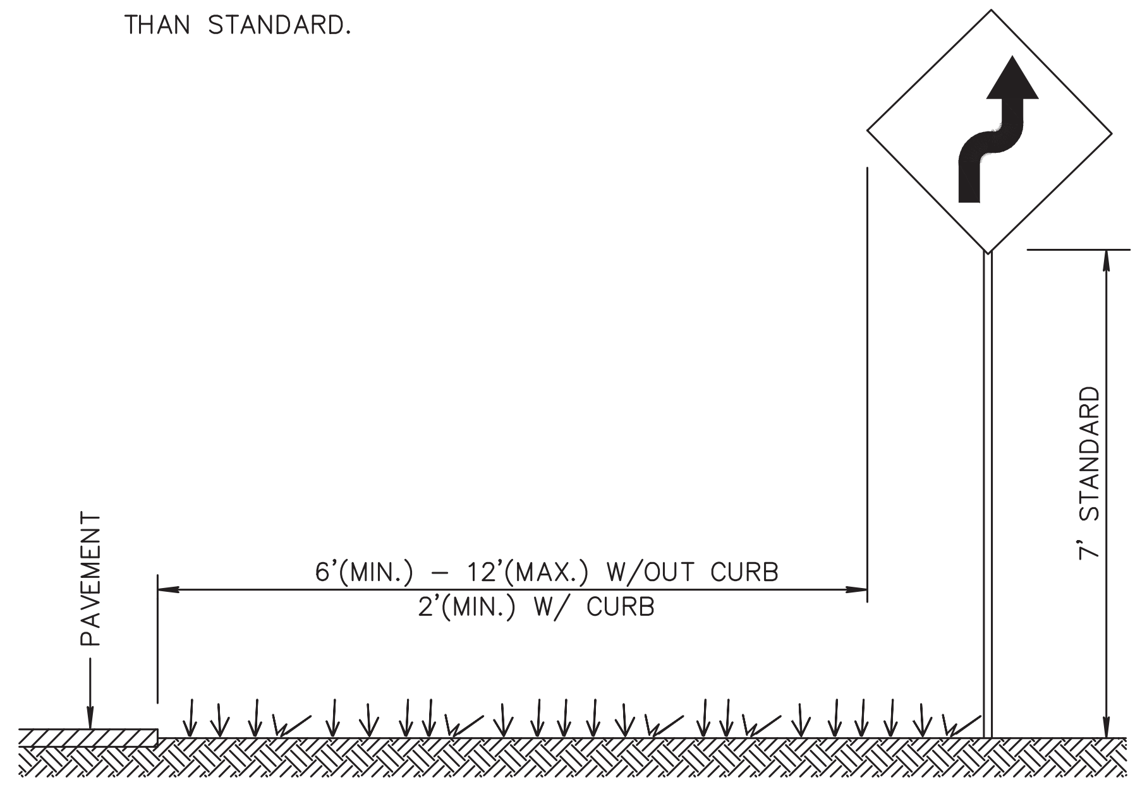
STREET SIGN DETAIL RT 2.1a

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

STREET SIGN DETAIL

DETAIL NO. 10
ISSUED: 09/18/13

TYPICAL SIGN. PLAN SYMBOL : ⊥
M.U.T.C.D. DESIGNATION : W1–3R *
* SIGN SIZE TO BE NOTED IF OTHER THAN STANDARD.


PAVEMENT
6'(MIN.) – 12'(MAX.) W/OUT CURB
2'(MIN.) W/ CURB
7' STANDARD

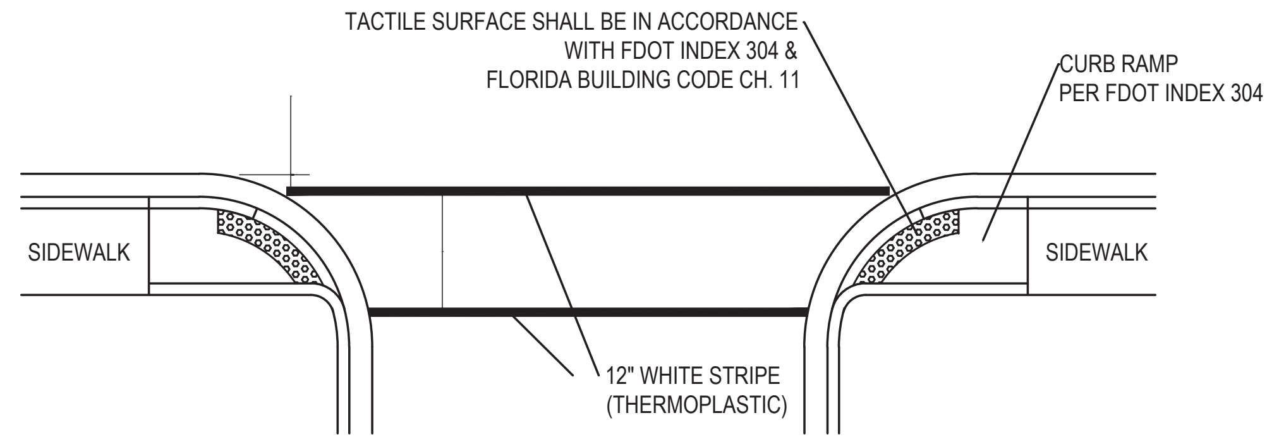
NOTES:

1. ALL SIGNS SHALL BE SPECIFIED USING THE M.U.T.C.D. DESIGNATION.
2. ALL SIGNS SHALL BE FACED WITH HIGH INTENSITY SHEETING MATERIAL OR BETTER.
3. SIGNS SHALL BE MANUFACTURED WITH 0.080" ALUMINUM BLANK.
4. POSTS SHALL BE GALVANIZED CHANNEL AT 2 LBS/L.F.
5. USE SHALL FOLLOW THE M.U.T.C.D. AND F.D.O.T. STANDARD DESIGN SPECIFICATIONS
6. ANY DEVIATION FROM THIS TYPICAL SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
7. REFLECTIVE POSTS MAY BE USED IF M.U.T.C.D. STANDARD IS FOLLOWED.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

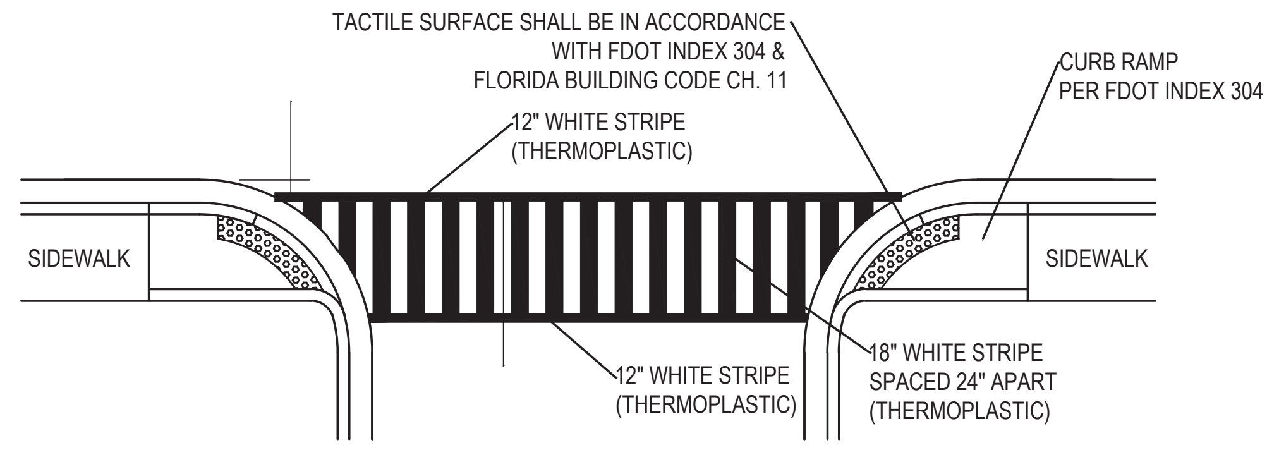
STREET SIGN DETAIL

DETAIL NO. 11
ISSUED: 09/18/13


TACTILE SURFACE SHALL BE IN ACCORDANCE WITH FDOT INDEX 304 & FLORIDA BUILDING CODE CH. 11
CURB RAMP PER FDOT INDEX 304
SIDEWALK
SIDEWALK
12" WHITE STRIPE (THERMOPLASTIC)

- STANDARD CROSSWALK STRIPING TO BE INSTALLED IN THE FOLLOWING LOCATIONS:
  - ALONG COLLECTORS OR ARTERIALS
  - BIKE PATH CROSSINGS
  - CROSS WALKS WITH HIGH EXPECTED PEDESTRIAN VOLUME
  - SCHOOL ACCESS ROUTES
- SIGNING REQUIRED AS PER FDOT STANDARDS

STANDARD CROSSWALK


TACTILE SURFACE SHALL BE IN ACCORDANCE WITH FDOT INDEX 304 & FLORIDA BUILDING CODE CH. 11
CURB RAMP PER FDOT INDEX 304
12" WHITE STRIPE (THERMOPLASTIC)
SIDEWALK
SIDEWALK
12" WHITE STRIPE (THERMOPLASTIC)
18" WHITE STRIPE SPACED 24" APART (THERMOPLASTIC)

- SCHOOL CROSSWALK STRIPING TO BE USED ONLY AT DESIGNATED SUPERVISED SCHOOL CROSSING
- SIGNS AND ADVANCED PAVEMENT MESSAGES TO BE DESIGNED AND INSTALLED PER FDOT STANDARDS.

SCHOOL CROSSWALK

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

CROSSWALK STRIPING

DETAIL NO. 12
ISSUED: 09/18/13

PAVEMENT MARKING SPECIFICATIONS

All Pavement markings to be installed per these typicals, plans and specifications, and as directed by the City Engineer and shall conform to the requirements of F.D.O.T. and the manual on uniform traffic control devices, (MUTCD).

PERMANENT MARKINGS

Installation:
– All markings shall be installed by the extruded method.
– Markings shall be free of weaves, bows, drips, drags, and other degrading items.
– Chalk shall be used for all layout markings

Materials:
– All materials shall be alkyd or hydrocarbon thermoplastic meeting all FDOT specifications.

Thickness:
– All markings shall be installed to yield 90 mils of material measured above the pavement surface.

Spheres:
– Reflective glass sheres are to be applied to all stripes and markings per FDOT specifications.

Alternate Material:
– STAYMARK marking tape, or equivalent may be used, as approved or directed by the City Engineer.

Layout:
– Layout shall be made using marking chalk.
– It is recommended that marking layout be inspected by the City Engineer prior to the placement of final markings.

TEMPORARY MARKINGS

Temporary markings may be used only as specified in this section, or as approved or directed by the City Engineer.

Final Pavement Surface:
– Only foil backed marking tape is allowed.
– All tape shall be totally removed concurrent with permanent marking placement.

Other Pavement Surfaces:
– Intermediate pavement surfaces may be marked with FDOT approved materials, designs, and specifications.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

PAVEMENT MARKING SPECIFICATIONS

DETAIL NO. 13
ISSUED: 09/18/13

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
No 74543
DATE:

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

PAVING GRADING AND DRAINAGE DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-205

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-205 PAVING GRADING AND DRAINAGE DETAILS November 12, 2020 03:26:18pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-205 PAVING GRADING AND DRAINAGE DETAILS.dwg

ALL PAVEMENT MARKINGS

All paved surfaces shall be properly marked prior to the hours of darkness.

RAISED PAVEMENT MARKERS

- R.P.M.s shall be installed on all lane lines and centerlines, spaced at 20' or 40'.
- R.P.M.s shall be a 4 x 4 type class "B" marker meeting F.D.O.T. specifications and shall be approved by the City Engineer prior to use.
- R.P.M.'s shall be installed using alkyd thermoplastic on asphalt and epoxy on concrete.

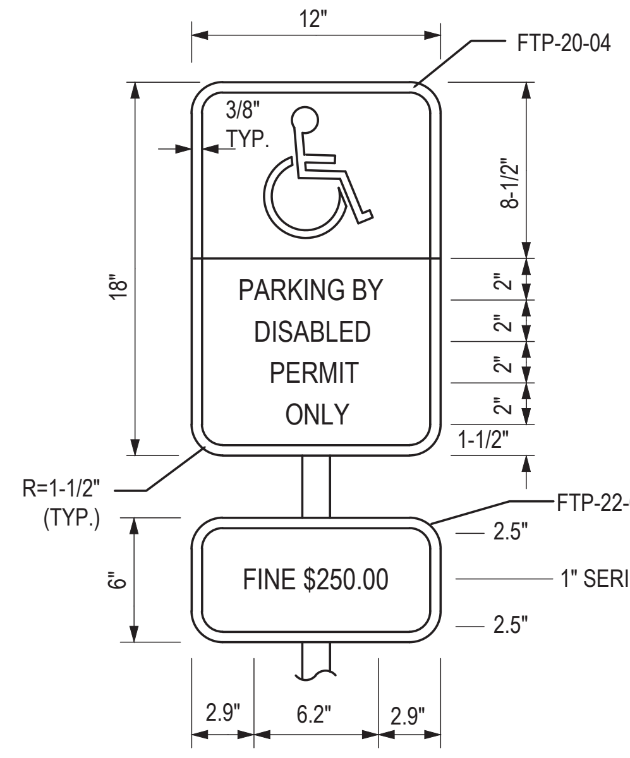
OTHER NOTES

- All Materials within right-of-way shall be thermoplastic and per F.D.O.T. specifications.
- Pavement marking within private parking lots may be painted according to F.D.O.T. specifications, except for all stop bars adjacent to public rifgt-of-way.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

PAVEMENT MARKING SPECIFICATIONS

DETAIL NO. 14
ISSUED: 09/18/13

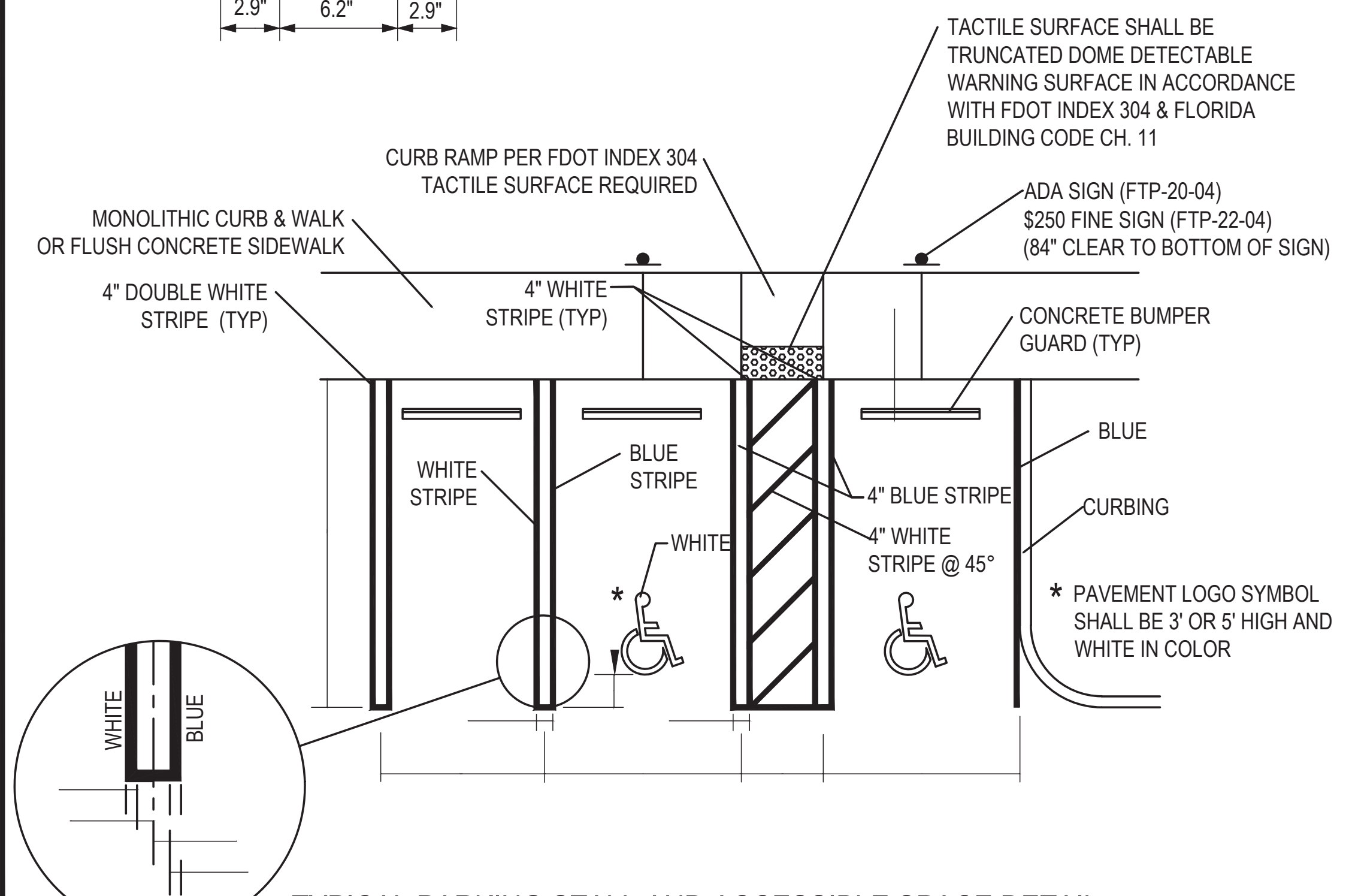

12"
FTP-20-04
3/8" TYP.
8-1/2"
18"
PARKING BY
DISABLED
PERMIT
ONLY
2"
2"
2"
2"
1-1/2"
R=1-1/2" (TYP.)
FTP-22-04
2.5"
6"
FINE $250.00
1" SERIES C
2.5"
2.9"
6.2"
2.9"

NOTES:

SIGN FTP-20-04
1. ALL LETTERS ARE 1" SERIES "C".
2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND & BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER.

SIGN FTP-22-04
1. ALL LETTERS ARE 1" SERIES "C".
2. BACKGROUND WHITE, LEGEND AND BORDER BLACK.

ADA SIGN DETAILS


TACTILE SURFACE SHALL BE TRUNCATED DOME DETECTABLE WARNING SURFACE IN ACCORDANCE WITH FDOT INDEX 304 & FLORIDA BUILDING CODE CH. 11
CURB RAMP PER FDOT INDEX 304 TACTILE SURFACE REQUIRED
ADA SIGN (FTP-20-04) $250 FINE SIGN (FTP-22-04) (84" CLEAR TO BOTTOM OF SIGN)
MONOLITHIC CURB & WALK OR FLUSH CONCRETE SIDEWALK
4" DOUBLE WHITE STRIPE (TYP)
4" WHITE STRIPE (TYP)
CONCRETE BUMPER GUARD (TYP)
BLUE
WHITE STRIPE
BLUE STRIPE
4" BLUE STRIPE
CURBING
WHITE
4" WHITE STRIPE @ 45°
*
WHITE
BLUE

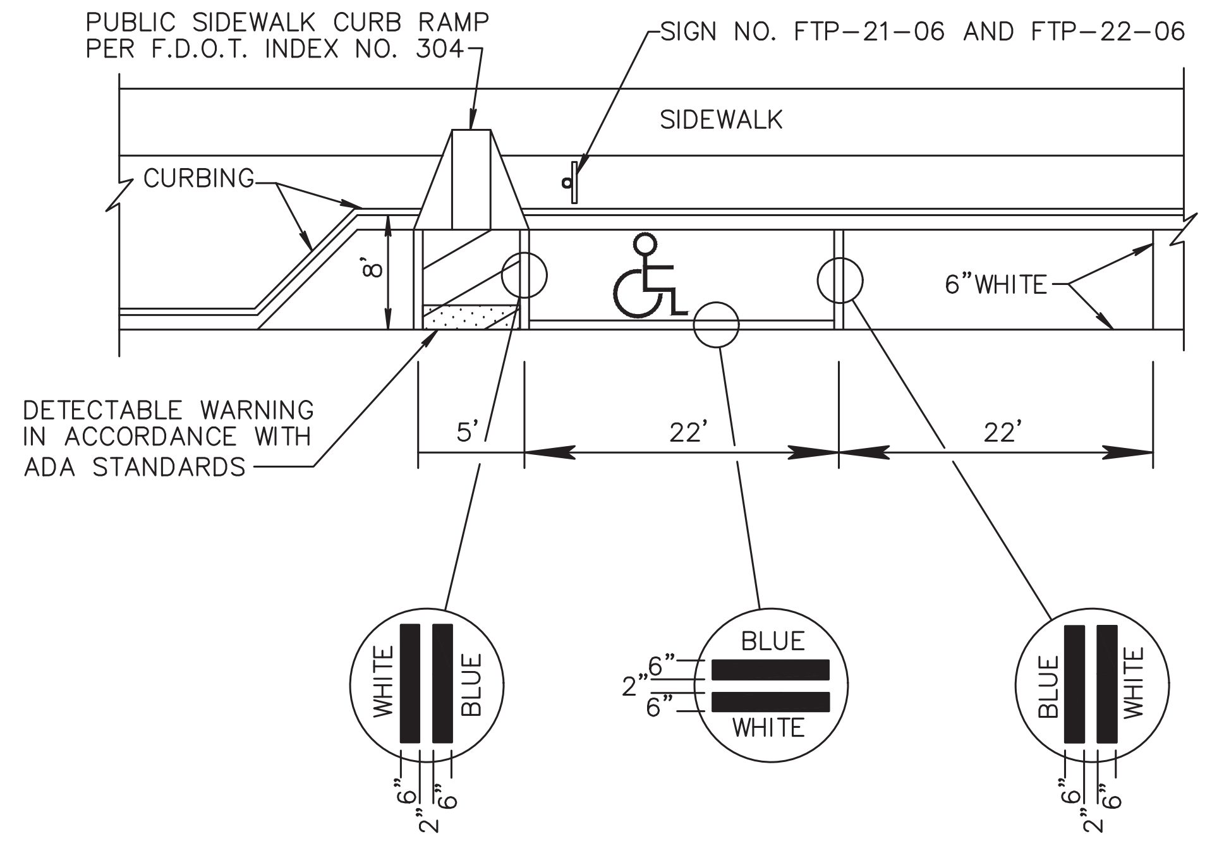
* PAVEMENT LOGO SYMBOL SHALL BE 3' OR 5' HIGH AND WHITE IN COLOR

TYPICAL PARKING STALL AND ACCESSIBLE SPACE DETAIL

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

ACCESSIBLE PARKING SIGNAGE AND PAVEMENT MARKINGS

DETAIL NO. 15
ISSUED: 09/18/13


PUBLIC SIDEWALK CURB RAMP PER F.D.O.T. INDEX NO. 304
SIGN NO. FTP-21-06 AND FTP-22-06
SIDEWALK
CURBING
8'
6"WHITE
DETECTABLE WARNING IN ACCORDANCE WITH ADA STANDARDS
5'
22'
22'
WHITE
BLUE
6"
2"
6"
BLUE
WHITE
6"
2"
6"
BLUE
WHITE
6"
2"
6"

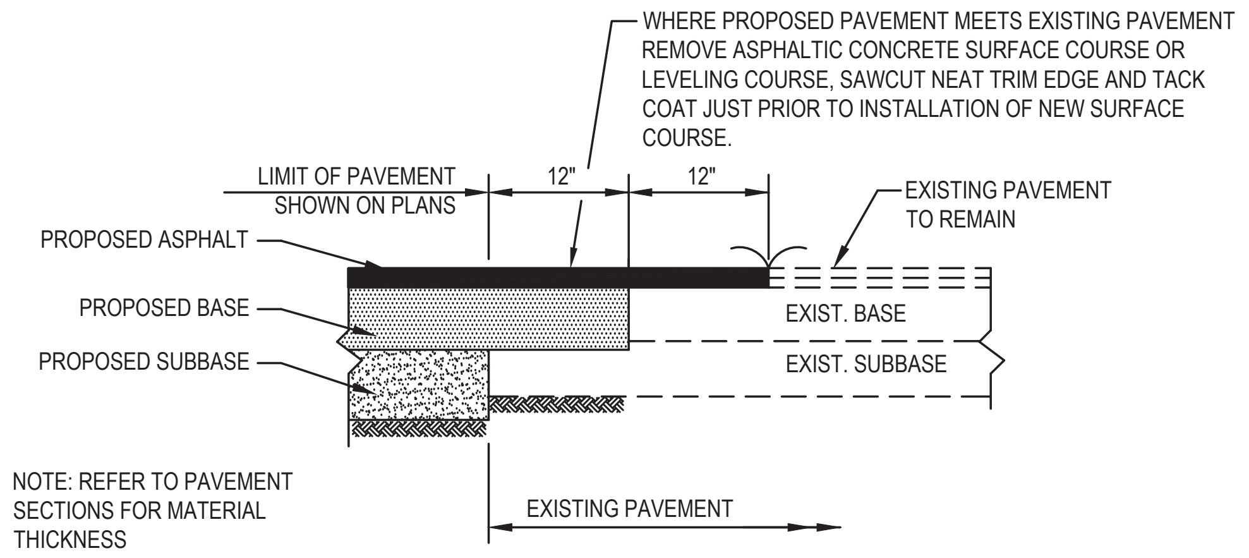
NOTE:

HANDICAPPED PARKING SPACE MUST BE FIRST OR LAST PARALLEL PARKING SPACE IN THE ROW. ADJACENT TO LANDSCAPE ISLAND. IF SPACE, IS AT THE FRONT OF PARKING ROW ACCESS PANEL MUST BE IN FRONT OF CAR AND IF SPACE IS AT THE END OF PARKING ROW ACCESS PANEL MUST BE AT THE REAR OF CAR.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

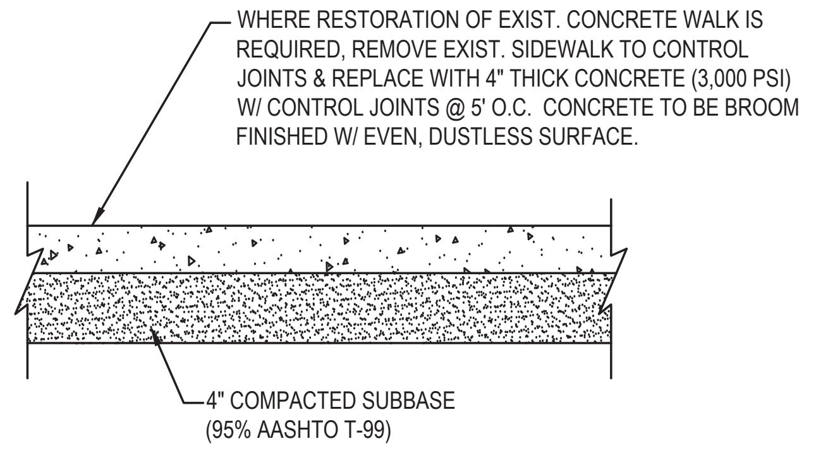
TYPICAL PARKING SPACES

DETAIL NO. 16
ISSUED: 09/18/13


WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT REMOVE ASPHALTIC CONCRETE SURFACE COURSE OR LEVELING COURSE, SAWCUT NEAT TRIM EDGE AND TACK COAT JUST PRIOR TO INSTALLATION OF NEW SURFACE COURSE.
LIMIT OF PAVEMENT SHOWN ON PLANS
12"
12"
EXISTING PAVEMENT TO REMAIN
PROPOSED ASPHALT
PROPOSED BASE
PROPOSED SUBBASE
EXIST. BASE
EXIST. SUBBASE
EXISTING PAVEMENT

NOTE: REFER TO PAVEMENT SECTIONS FOR MATERIAL THICKNESS

PAVEMENT RESTORATION DETAIL


WHERE RESTORATION OF EXIST. CONCRETE WALK IS REQUIRED, REMOVE EXIST. SIDEWALK TO CONTROL JOINTS & REPLACE WITH 4" THICK CONCRETE (3,000 PSI) W/ CONTROL JOINTS @ 5' O.C. CONCRETE TO BE BROOM FINISHED W/ EVEN, DUSTLESS SURFACE.
4" COMPACTED SUBBASE (95% AASHTO T-99)

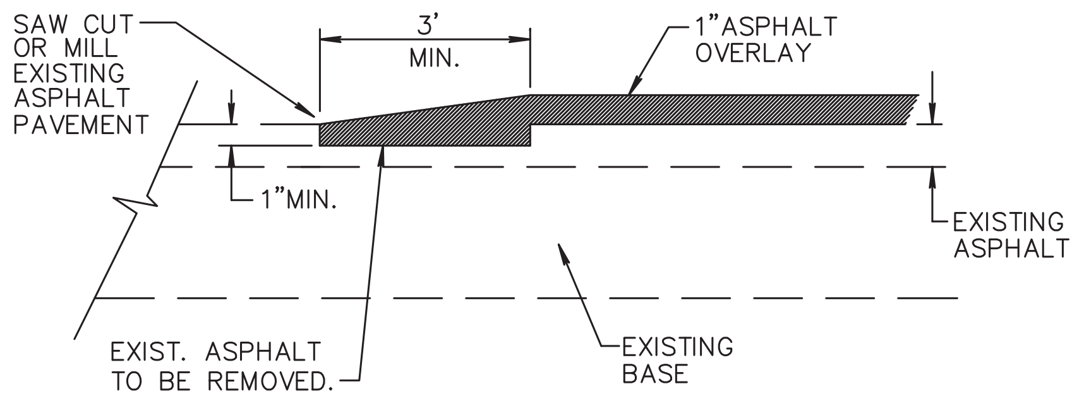
CONCRETE SIDEWALK RESTORATION DETAIL

N.T.S.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

PAVEMENT AND SIDEWALK RESTORATION

DETAIL NO. 19
ISSUED: 09/18/13


SAW CUT OR MILL EXISTING ASPHALT PAVEMENT
3' MIN.
1"ASPHALT OVERLAY
1"MIN.
EXISTING ASPHALT
EXIST. ASPHALT TO BE REMOVED.
EXISTING BASE

NEW OVERLAY PAVEMENT JOINT

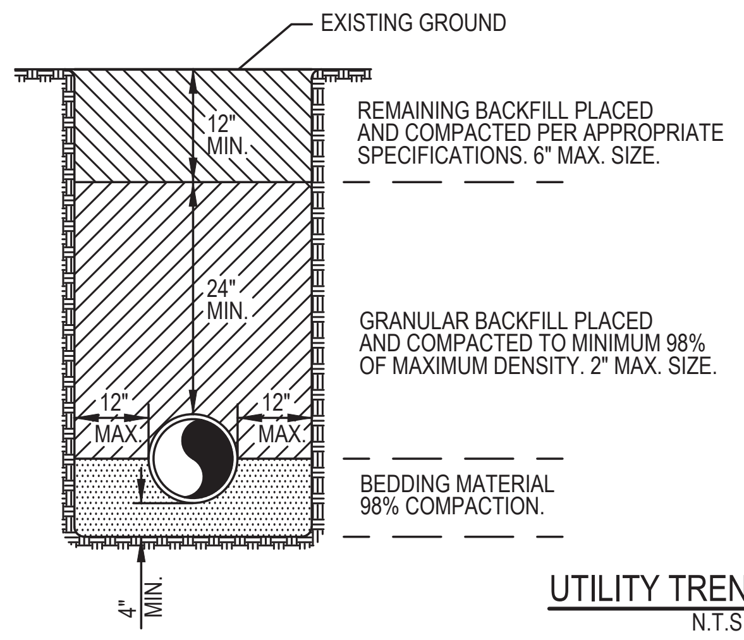
NOTE:

THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

PAVEMENT JOINT

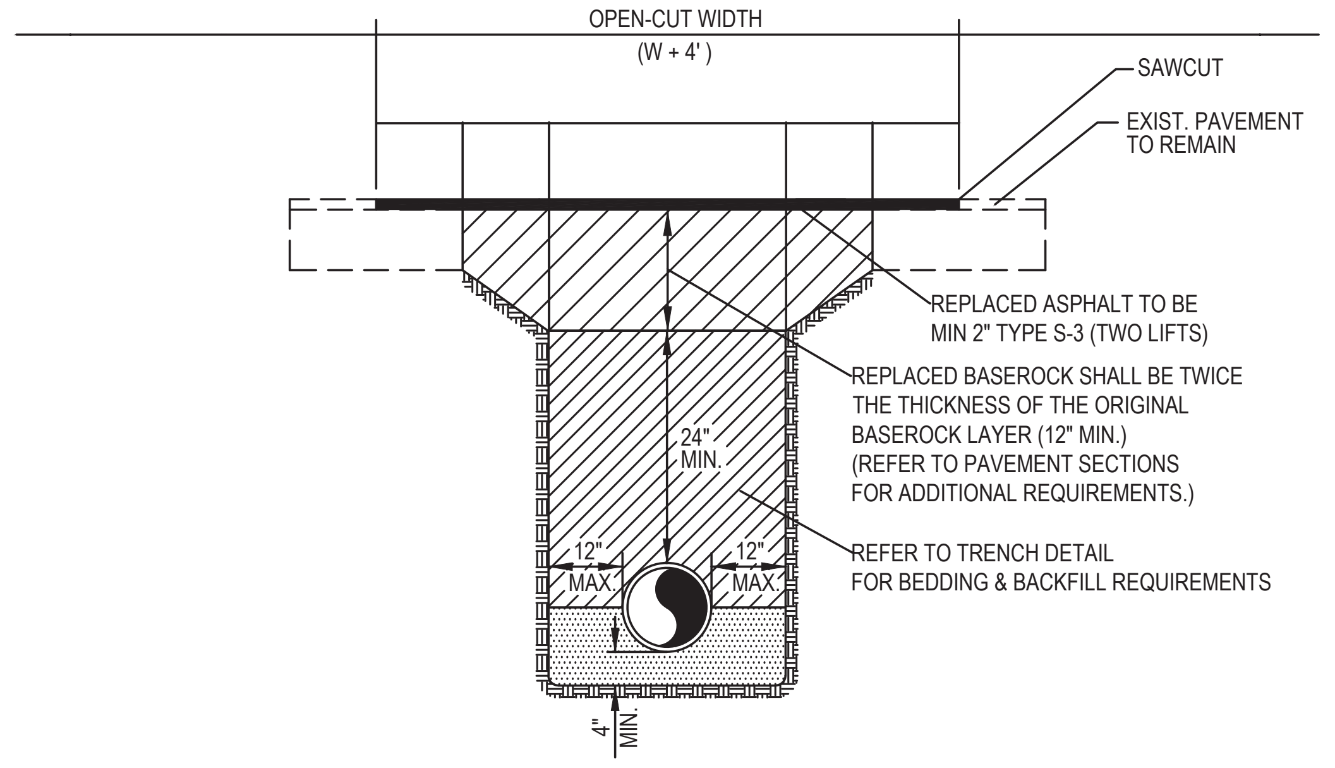
DETAIL NO. 20
ISSUED: 09/18/13


EXISTING GROUND
12" MIN.
REMAINING BACKFILL PLACED AND COMPACTED PER APPROPRIATE SPECIFICATIONS. 6" MAX. SIZE.
24" MIN.
GRANULAR BACKFILL PLACED AND COMPACTED TO MINIMUM 98% OF MAXIMUM DENSITY. 2" MAX. SIZE.
12" MAX.
12" MAX.
BEDDING MATERIAL 98% COMPACTION.
4" MIN.

NOTES:
1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCK SHALL BE REMOVED.
2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIALS SUCH AS LARGER ROCK, MUCK AND DEBRIS.

UTILITY TRENCH DETAIL

N.T.S.


OPEN-CUT WIDTH (W + 4')
SAWCUT
EXIST. PAVEMENT TO REMAIN
REPLACED ASPHALT TO BE MIN 2" TYPE S-3 (TWO LIFTS)
REPLACED BASEROCK SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASEROCK LAYER (12" MIN.) (REFER TO PAVEMENT SECTIONS FOR ADDITIONAL REQUIREMENTS.)
24" MIN.
REFER TO TRENCH DETAIL FOR BEDDING & BACKFILL REQUIREMENTS
12" MAX.
12" MAX.
4" MIN.

NOTES:
1. PAVEMENT OVERLAY MAY BE REQUIRED IN OPEN-CUT AREAS AT THE DISCRETION OF THE CITY ENGINEER.
2. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE TRENCH SAFETY REGULATIONS.
3. FINISHED SURFACE SHALL HAVE SMOOTH FINISH & SHALL MATCH FLUSH TO SURROUNDING PAVEMENT.
4. ASPHALT OVERLAY SHALL EXTEND A MINIMUM OF 50' BEYOND THE LIMITS OF THE OPEN CUT.

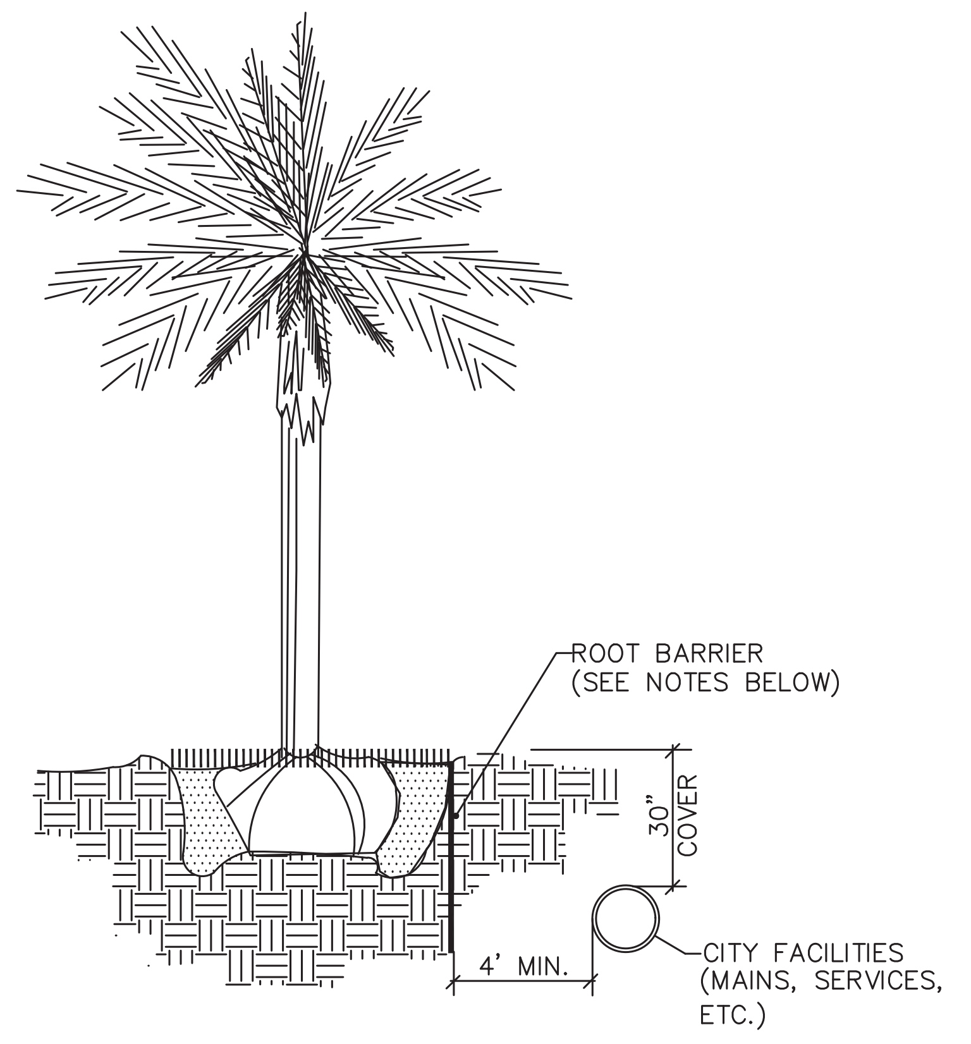
PAVEMENT OPEN-CUT DETAIL

N.T.S.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

UTILITY TRENCH AND PAVEMENT OPEN-CUT

DETAIL NO. 21
ISSUED: 09/18/13


ROOT BARRIER (SEE NOTES BELOW)
30" COVER
4' MIN.
CITY FACILITIES (MAINS, SERVICES, ETC.)

NOTES:

1. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES.
2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

TYPICAL TREE WITH ROOT BARRIER

DETAIL NO. 23
ISSUED: 09/18/13

George Balaban
Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:14:09 -05'00'

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

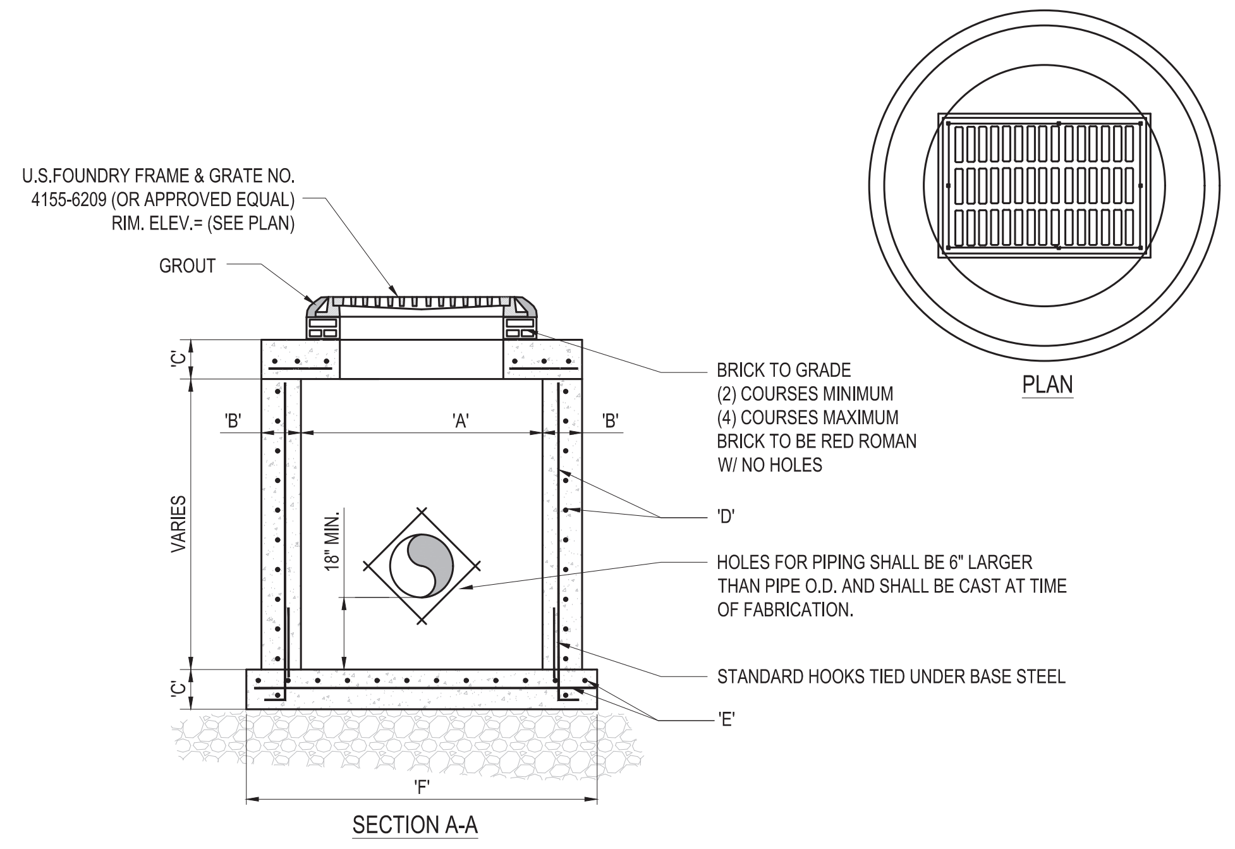
KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

PAVING GRADING AND DRAINAGE DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-206

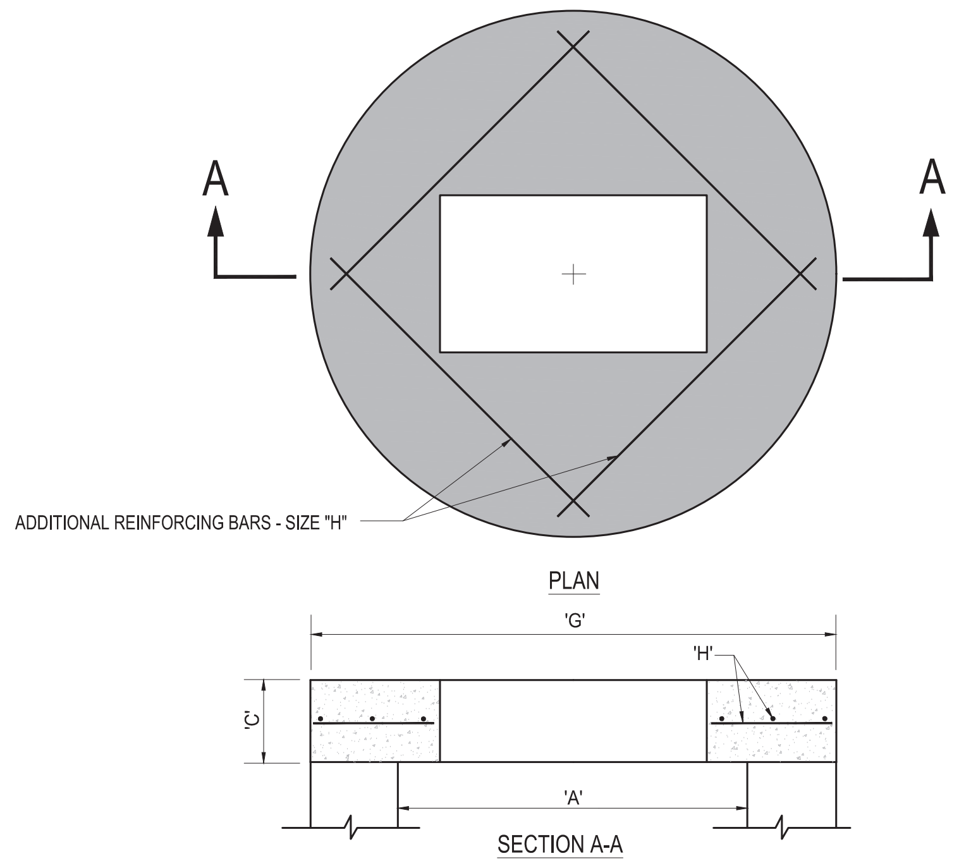
Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-206 PAVING GRADING AND DRAINAGE DETAILS November 12, 2020 03:26:20pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-205 PAVING GRADING AND DRAINAGE DETAILS.dwg
This document, together with the concepts and designs presented 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.


U.S.FOUNDRY FRAME & GRATE NO. 4155-6209 (OR APPROVED EQUAL) RIM. ELEV.= (SEE PLAN)
GROUT
BRICK TO GRADE (2) COURSES MINIMUM (4) COURSES MAXIMUM BRICK TO BE RED ROMAN W/ NO HOLES
'D'
HOLES FOR PIPING SHALL BE 6" LARGER THAN PIPE O.D. AND SHALL BE CAST AT TIME OF FABRICATION.
STANDARD HOOKS TIED UNDER BASE STEEL
'E'
'A'
'B'
'C'
'F'
VARIES
18" MIN.
SECTION A-A
PLAN

TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2- W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø

PRECAST CIRCULAR CATCH BASIN

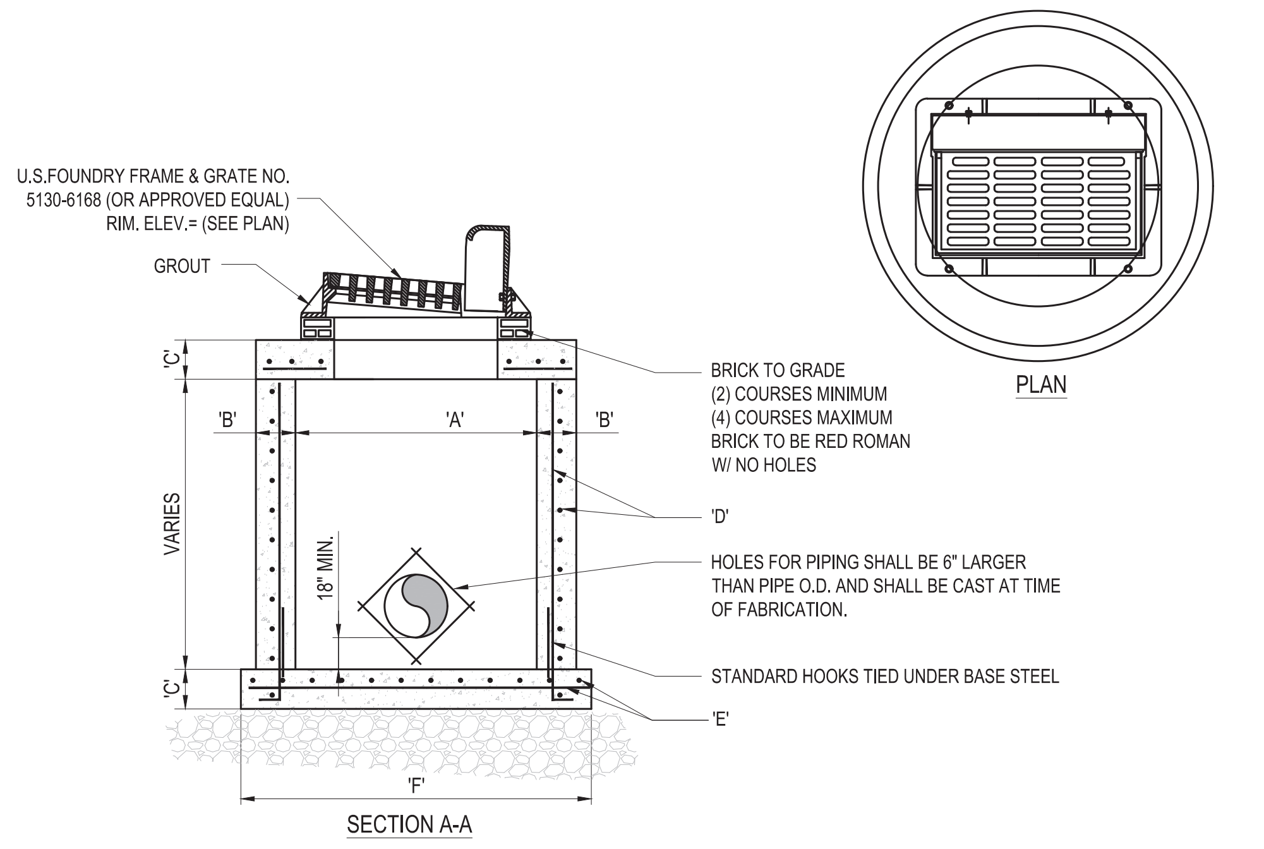
SCALE: NONE


A
A
ADDITIONAL REINFORCING BARS - SIZE "H"
PLAN
'G'
'H'
'C'
'A'
SECTION A-A

TYPE	"A"	"C"	"G"	"H"
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 8" C.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

PRECAST CONCRETE-TOP SLAB

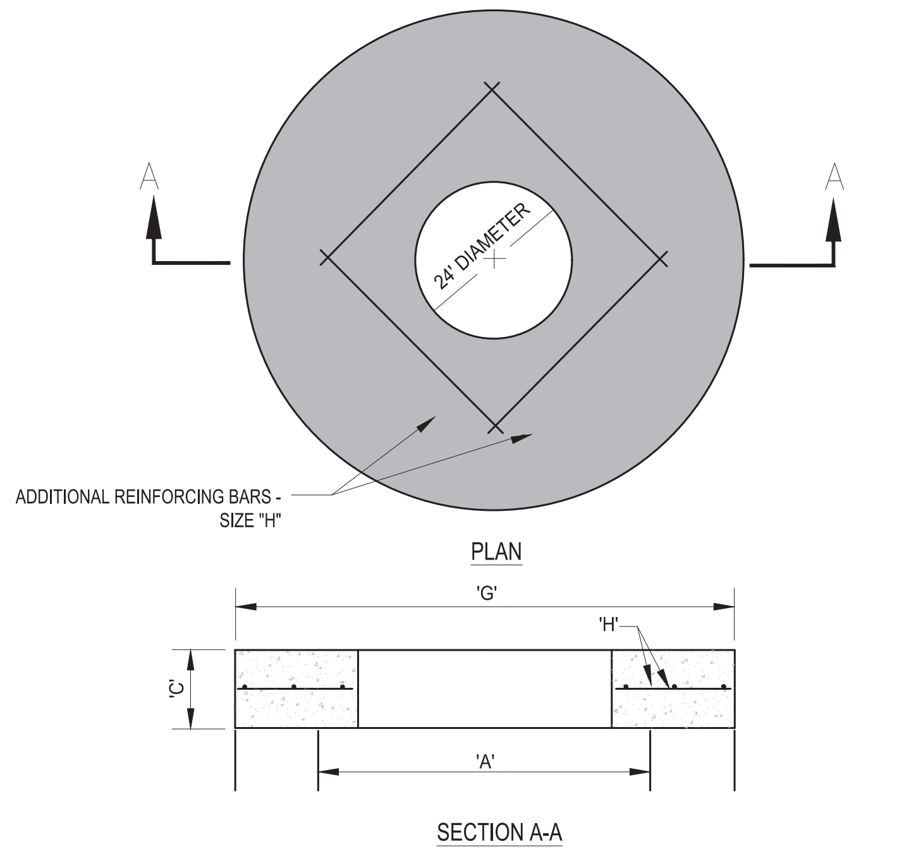
SCALE: NONE


U.S.FOUNDRY FRAME & GRATE NO. 5130-6168 (OR APPROVED EQUAL) RIM. ELEV.= (SEE PLAN)
GROUT
BRICK TO GRADE (2) COURSES MINIMUM (4) COURSES MAXIMUM BRICK TO BE RED ROMAN W/ NO HOLES
'D'
HOLES FOR PIPING SHALL BE 6" LARGER THAN PIPE O.D. AND SHALL BE CAST AT TIME OF FABRICATION.
STANDARD HOOKS TIED UNDER BASE STEEL
'E'
'A'
'B'
'C'
'F'
VARIES
18" MIN.
SECTION A-A
PLAN

TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2- W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø

PRECAST CIRCULAR CURB INLET

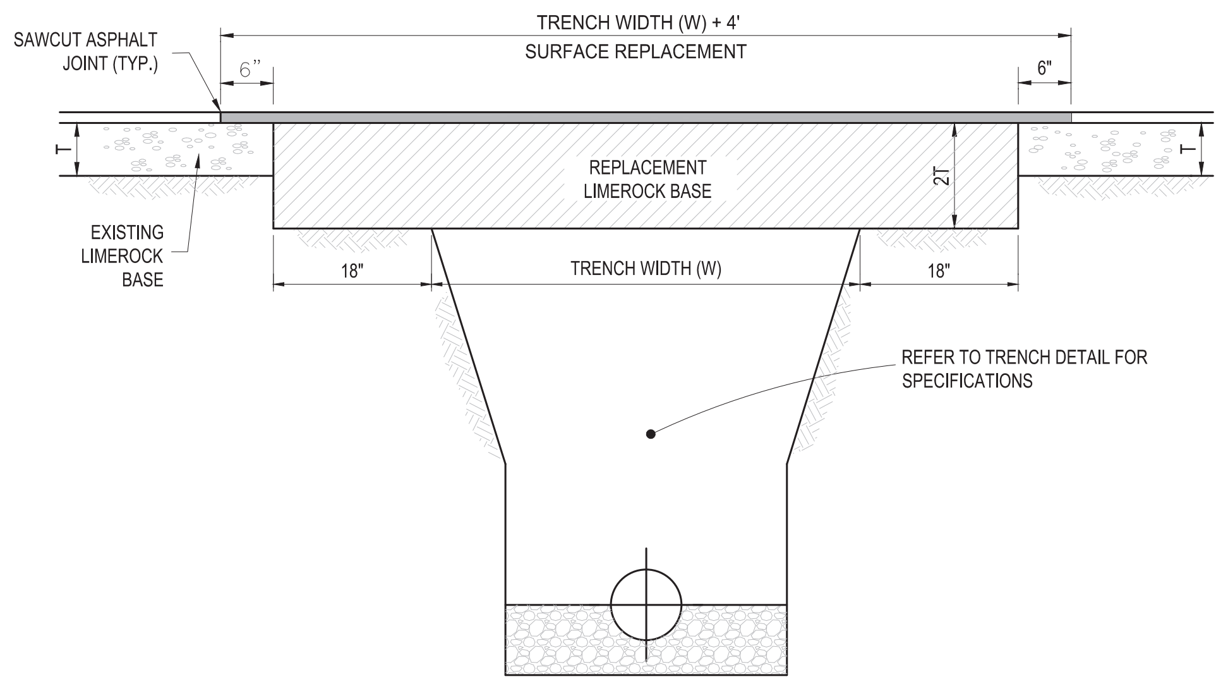
SCALE: NONE


A
A
24' DIAMETER
ADDITIONAL REINFORCING BARS - SIZE "H"
PLAN
'G'
'H'
'C'
'A'
SECTION A-A

TYPE	"A"	"C"	"G"	"H"
M-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
M-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 8" C.C.E.W.
M-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
M-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
M-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

PRECAST CONCRETE TOP SLAB FOR DRAINAGE MANHOLES

SCALE: NONE

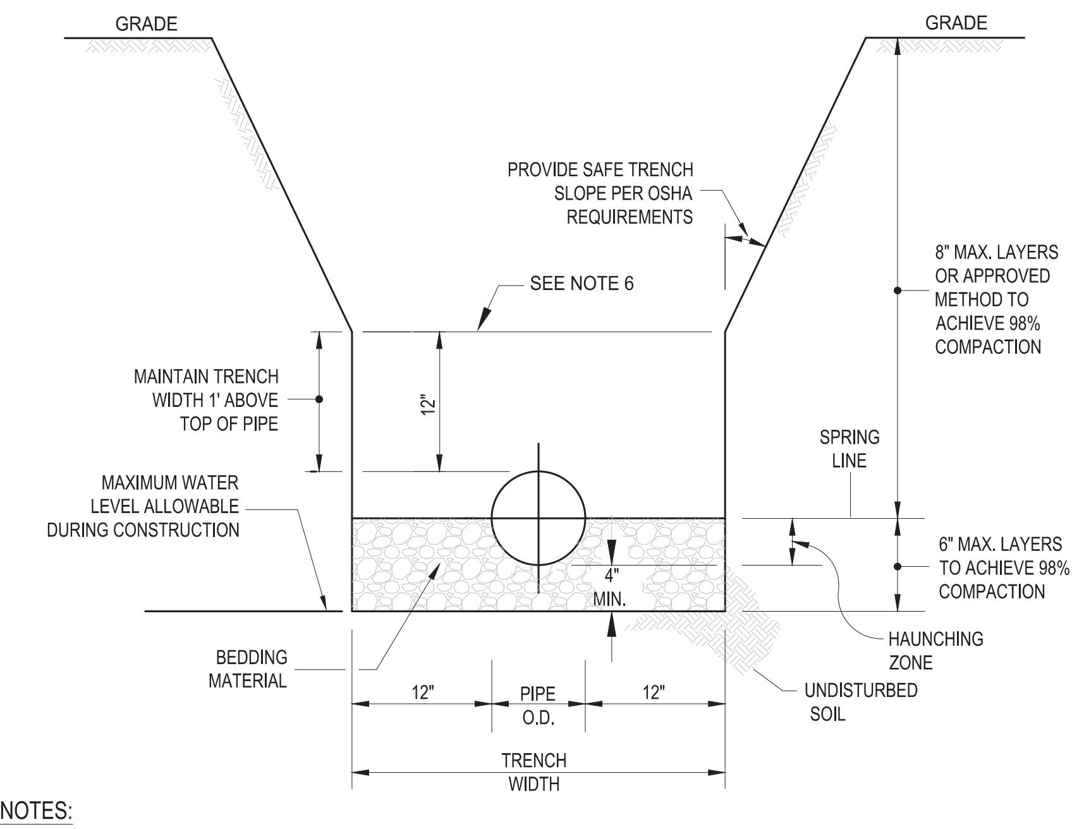

SAWCUT ASPHALT JOINT (TYP.)
TRENCH WIDTH (W) + 4'
SURFACE REPLACEMENT
6"
6"
T
T
REPLACEMENT LIMEROCK BASE
2T
EXISTING LIMEROCK BASE
18"
TRENCH WIDTH (W)
18"
REFER TO TRENCH DETAIL FOR SPECIFICATIONS

NOTES:

1. REPLACED BASE MATERIAL OVER TRENCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE, MINIMUM 12", MAXIMUM 18".
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM (LOOSE MEASUREMENT) LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180.
3. SUBGRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
4. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED PARALLEL TO OR PERPENDICULAR TO THE ROADWAY.
5. SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED.
6. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE SURROUNDING SURFACE (MINIMUM 1" THICKNESS).
7. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS).
8. IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH A PERMANENT PATCH.
9. BACKFILL SHALL BE IN ACCORDANCE WITH DETAIL R-33, EXCEPT AS SHOWN ABOVE.

PAVEMENT RESTORATION DETAIL

SCALE: NONE

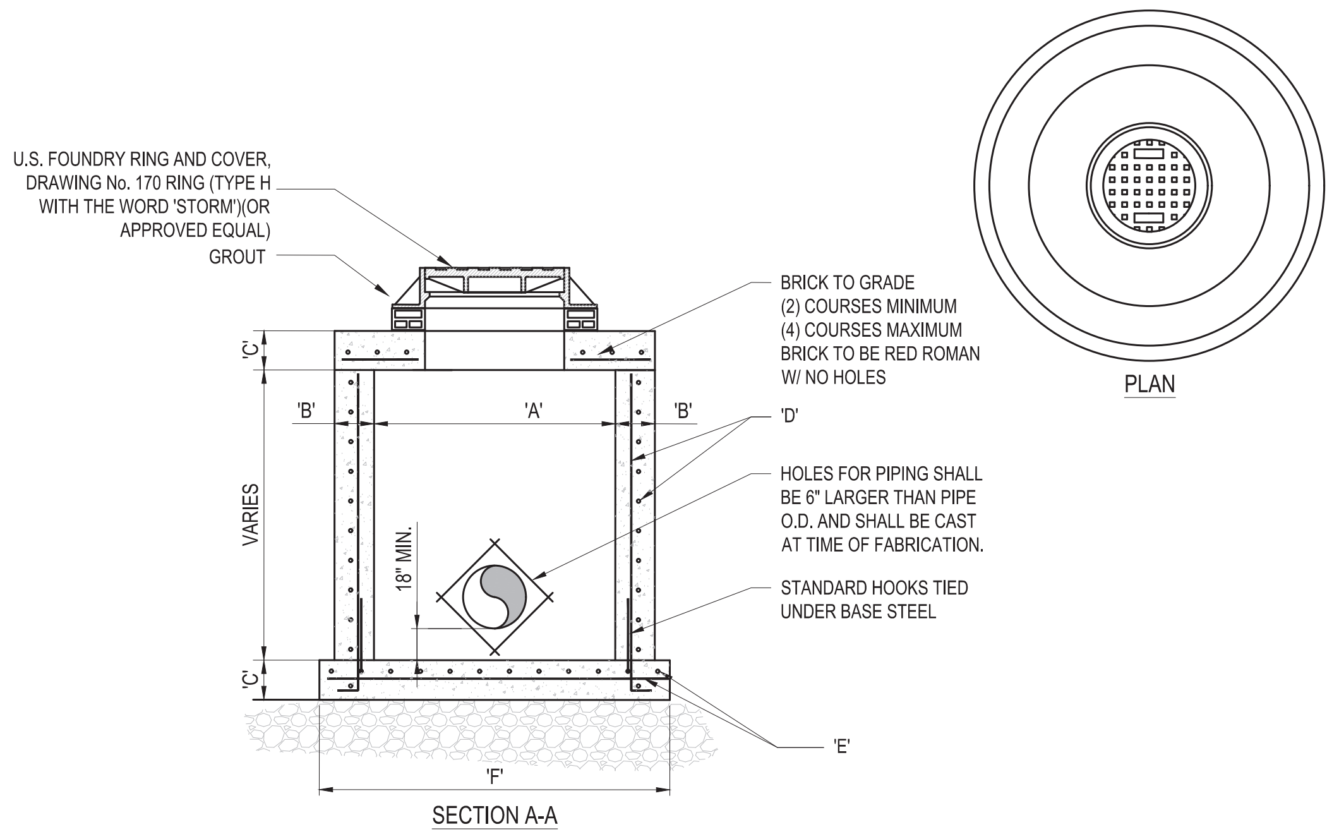

GRADE
GRADE
PROVIDE SAFE TRENCH SLOPE PER OSHA REQUIREMENTS
SEE NOTE 6
8" MAX. LAYERS OR APPROVED METHOD TO ACHIEVE 98% COMPACTION
MAINTAIN TRENCH WIDTH 1' ABOVE TOP OF PIPE
12"
MAXIMUM WATER LEVEL ALLOWABLE DURING CONSTRUCTION
SPRING LINE
6" MAX. LAYERS TO ACHIEVE 98% COMPACTION
4" MIN.
HAUNCHING ZONE
BEDDING MATERIAL
UNDISTURBED SOIL
12"
PIPE O.D.
12"
TRENCH WIDTH

NOTES:

1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
2. BEDDING MATERIAL SHALL CONSIST OF WELL GRADED ASTM C33 #67 ROCK (3/4" TO No.4) AND BE PLACED TO SPRING LINE OF PIPE.
3. BACKFILL MATERIAL SHALL BE FREE OF MUCK, STUMPS, ROOTS, ROCKS OR OTHER MATERIAL UNACCEPTABLE TO ENGINEER.
4. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
5. REFER TO SPECIFICATIONS FOR EXCAVATION IN MUCK OR OTHER UNSUITABLE MATERIAL.
6. COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180.
7. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL (WITHIN 12" OF TOP OF PIPE).
8. THOROUGHLY WORK IN AND TAMP THE BEDDING MATERIAL IN THE HAUNCHING ZONE BEFORE PLACING AND COMPACTING REMAINDER OF BACKFILL.

TRENCH DETAIL

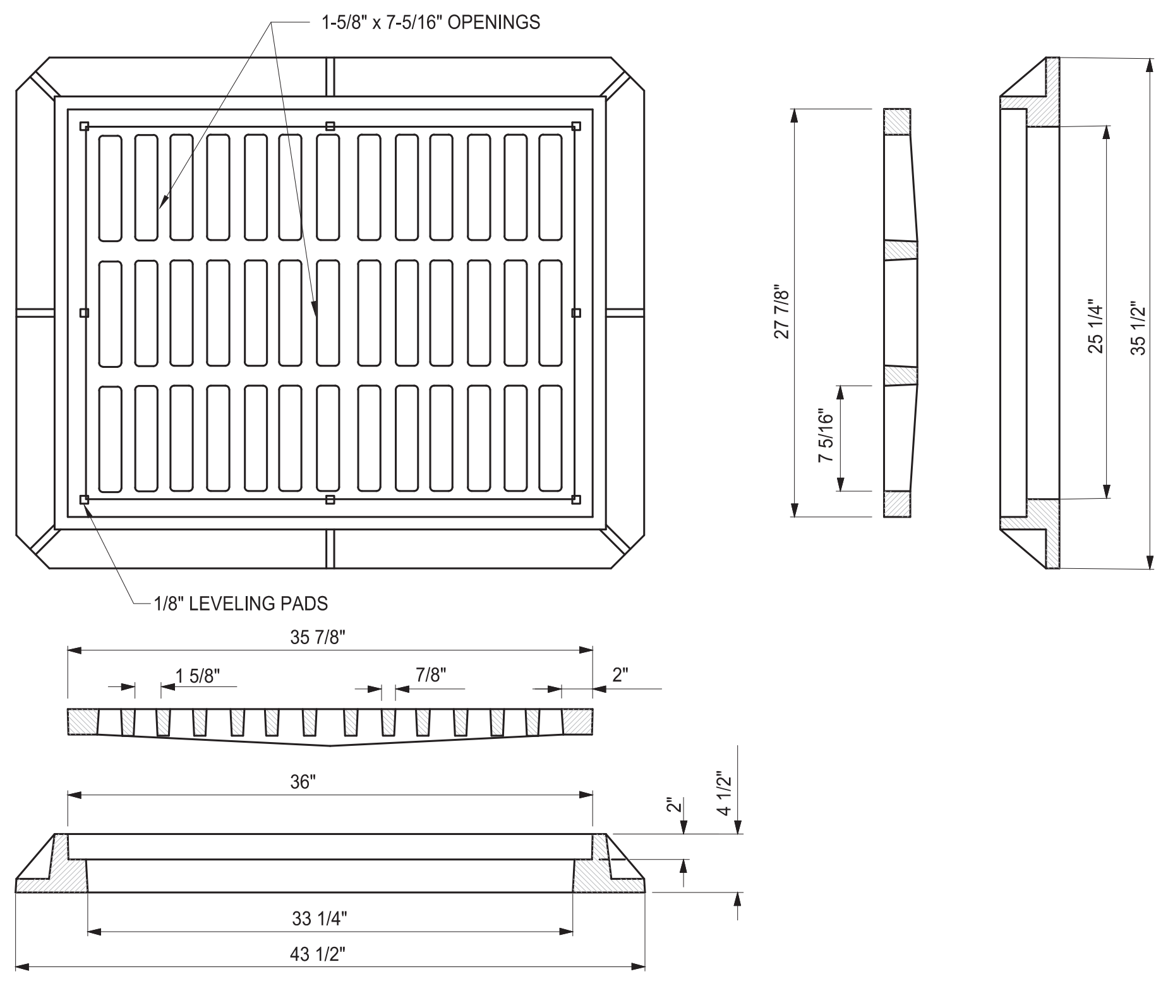
SCALE: NONE


U.S. FOUNDRY RING AND COVER, DRAWING No. 170 RING (TYPE H WITH THE WORD 'STORM')(OR APPROVED EQUAL)
GROUT
BRICK TO GRADE (2) COURSES MINIMUM (4) COURSES MAXIMUM BRICK TO BE RED ROMAN W/ NO HOLES
'D'
HOLES FOR PIPING SHALL BE 6" LARGER THAN PIPE O.D. AND SHALL BE CAST AT TIME OF FABRICATION.
STANDARD HOOKS TIED UNDER BASE STEEL
'E'
'A'
'B'
'C'
'F'
VARIES
18" MIN.
SECTION A-A
PLAN

TYPE	"A"	"B"	"C"	"D"	"E"	"F"
M-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
M-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
M-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
M-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
M-8	8'-0" Ø	10"	10"	2- W.W.M. w/ 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø

PRECAST CIRCULAR DRAINAGE MANHOLE

SCALE: NONE


1-5/8" x 7-5/16" OPENINGS
1/8" LEVELING PADS
27 7/8"
7 5/16"
25 1/4"
35 1/2"
35 7/8"
1 5/8"
7/8"
2"
36"
2"
4 1/2"
33 1/4"
43 1/2"

NOTE:

1. GRATE TO BE TYPE U.S.F. No. 4155-6209

FRAME AND GRATE DETAIL

SCALE: NONE

George Balaban

Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:14:25 -05'00'

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
No 74543
DATE: 11/12/2020

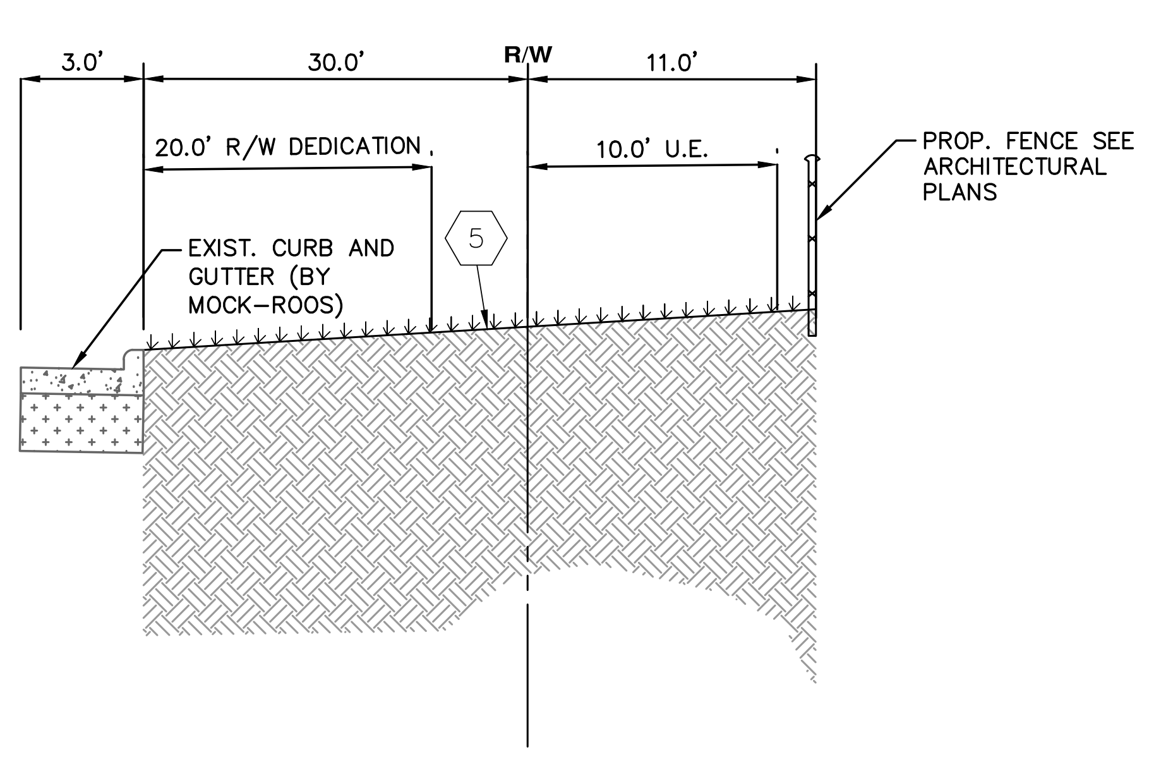
KHA PROJECT	143189000
DATE	9/2/2020
SCALE	AS SHOWN
DESIGNED BY	GB
DRAWN BY	MB
CHECKED BY	GB

PAVING GRADING AND DRAINAGE DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

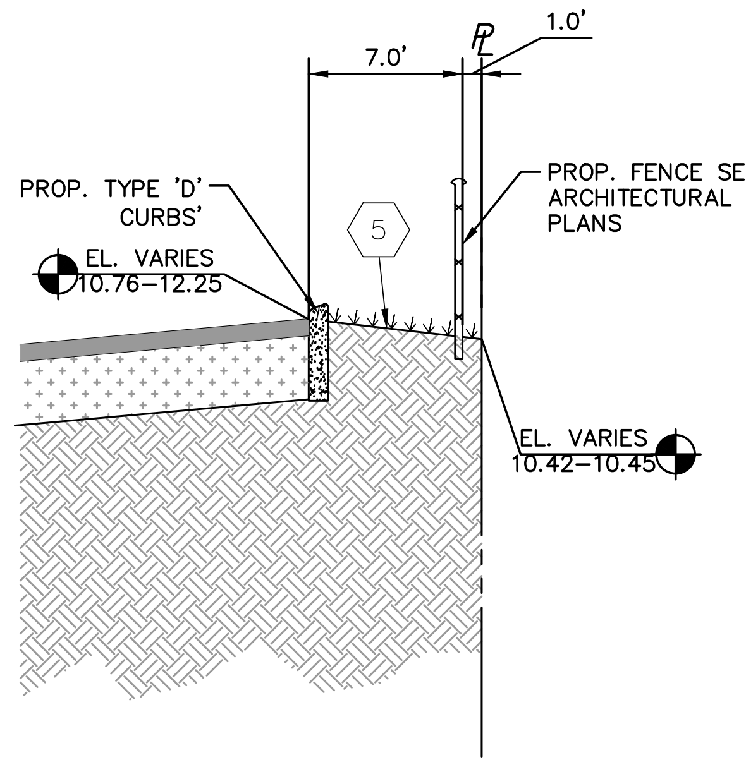
SHEET NUMBER
C-207

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-207 PAVING GRADING AND DRAINAGE DETAILS November 12, 2020 03:26:20pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-205 PAVING GRADING AND DRAINAGE DETAILS.dwg
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.


3.0'
30.0'
R/W
11.0'
20.0' R/W DEDICATION
10.0' U.E.
PROP. FENCE SEE ARCHITECTURAL PLANS
EXIST. CURB AND GUTTER (BY MOCK-ROOS)
5

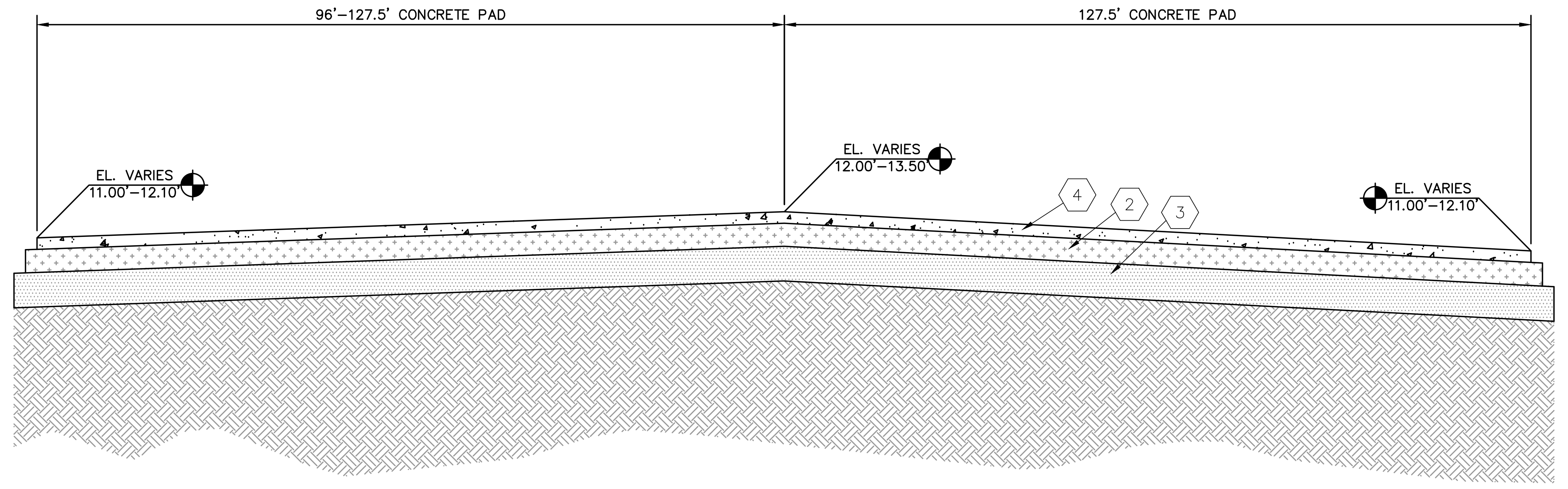
SECTION A 7 TH AVE NORTH

SCALE: N.T.S.


7.0'
PL
1.0'
PROP. TYPE 'D' CURBS'
EL. VARIES 10.76–12.25
5
PROP. FENCE SEE ARCHITECTURAL PLANS
EL. VARIES 10.42–10.45

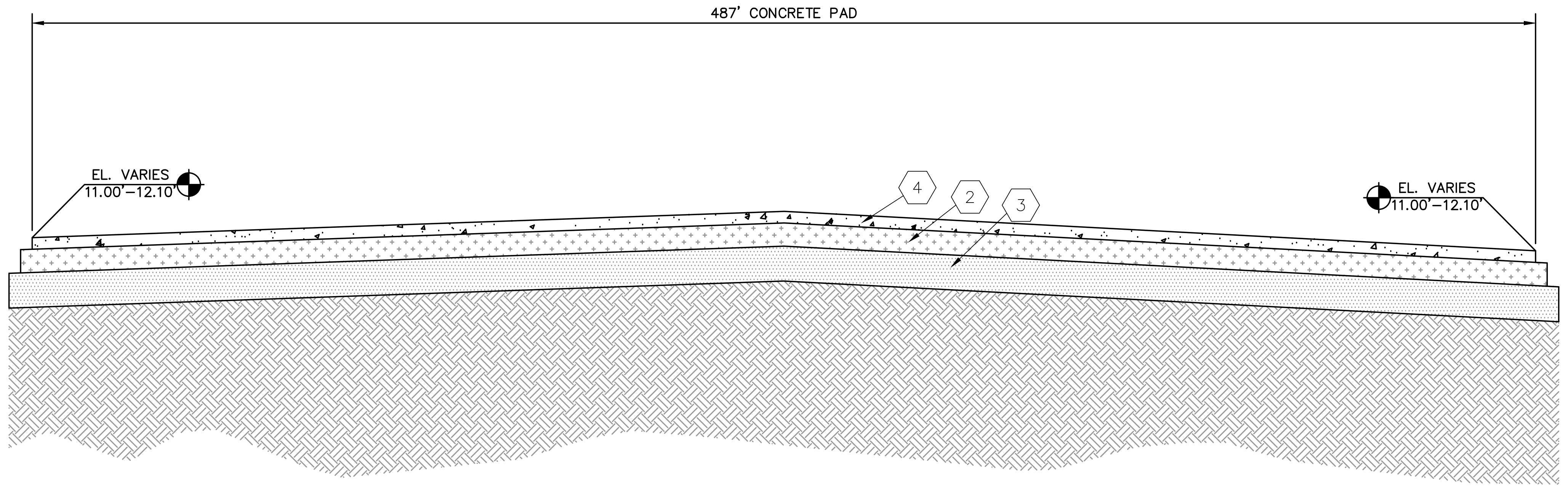
SECTION B EAST PROPERTY LINE

SCALE: N.T.S.


96'–127.5' CONCRETE PAD
127.5' CONCRETE PAD
EL. VARIES 11.00'–12.10'
EL. VARIES 12.00'–13.50'
4
2
3
EL. VARIES 11.00'–12.10'

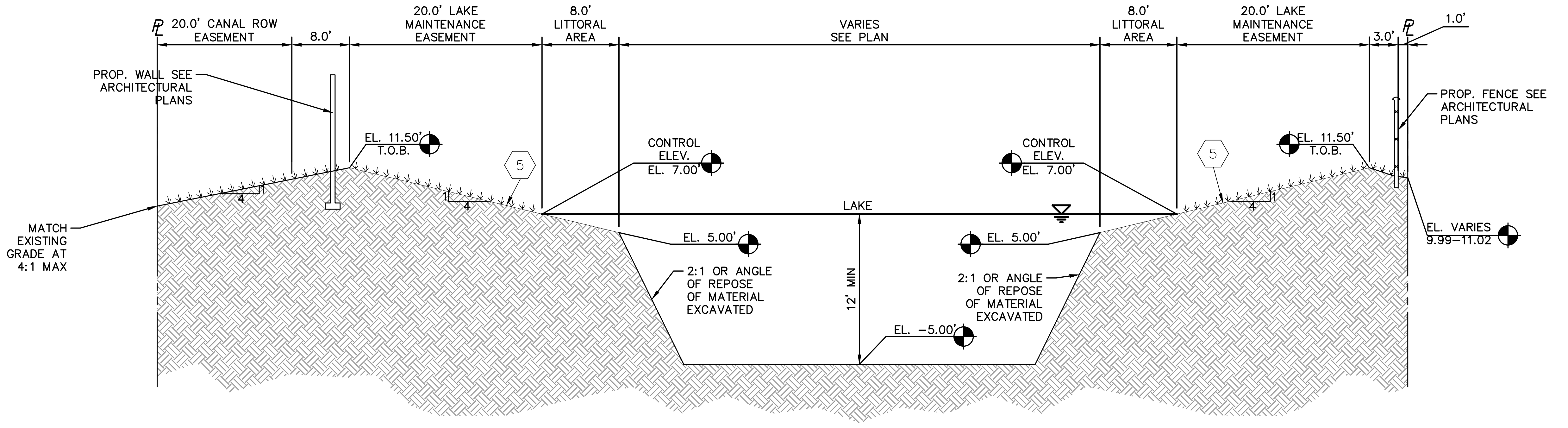
SECTION C CONCRETE PAD

SCALE: N.T.S.


487' CONCRETE PAD
EL. VARIES 11.00–12.10
4
2
3
EL. VARIES 11.00'–12.10'

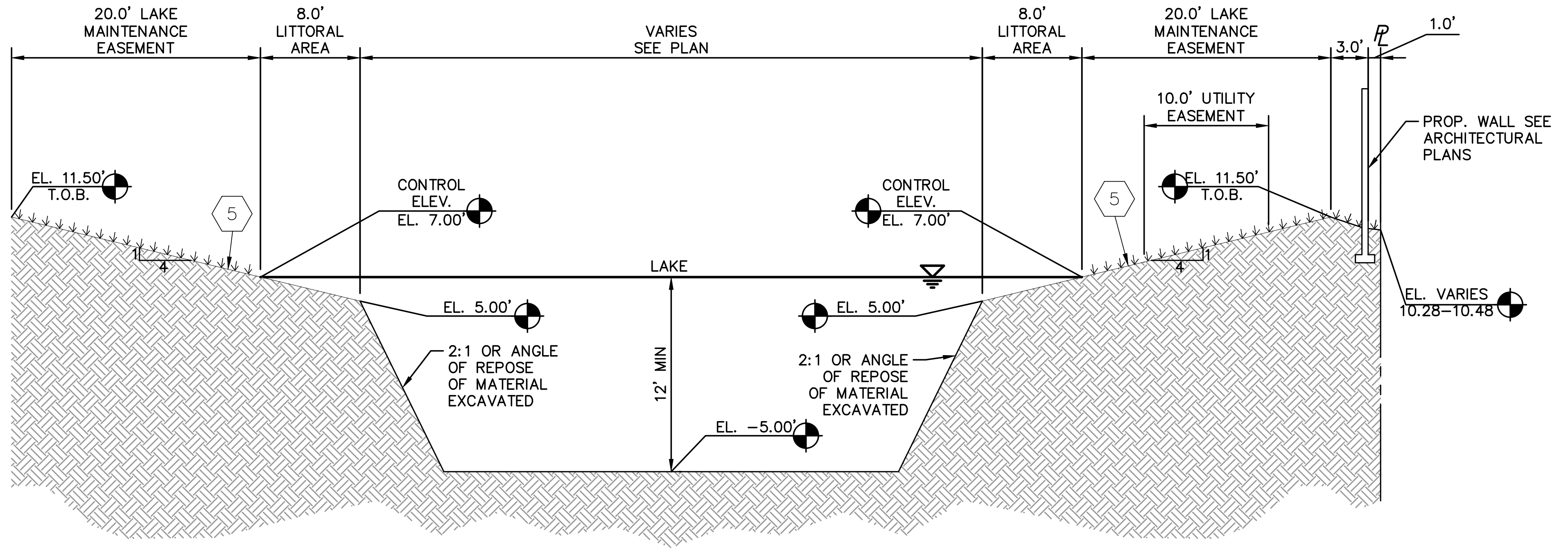
SECTION D CONCRETE PAD

SCALE: N.T.S.


PL
20.0' CANAL ROW EASEMENT
8.0'
20.0' LAKE MAINTENANCE EASEMENT
8.0' LITTORAL AREA
VARIES SEE PLAN
8.0' LITTORAL AREA
20.0' LAKE MAINTENANCE EASEMENT
3.0'
PL
1.0'
PROP. WALL SEE ARCHITECTURAL PLANS
EL. 11.50' T.O.B.
5
CONTROL ELEV. EL. 7.00'
CONTROL ELEV. EL. 7.00'
5
EL. 11.50' T.O.B.
PROP. FENCE SEE ARCHITECTURAL PLANS
1
4
1
4
4
1
MATCH EXISTING GRADE AT 4:1 MAX
LAKE
EL. 5.00'
EL. 5.00'
EL. VARIES 9.99–11.02
2:1 OR ANGLE OF REPOSE OF MATERIAL EXCAVATED
12' MIN
2:1 OR ANGLE OF REPOSE OF MATERIAL EXCAVATED
EL. –5.00'

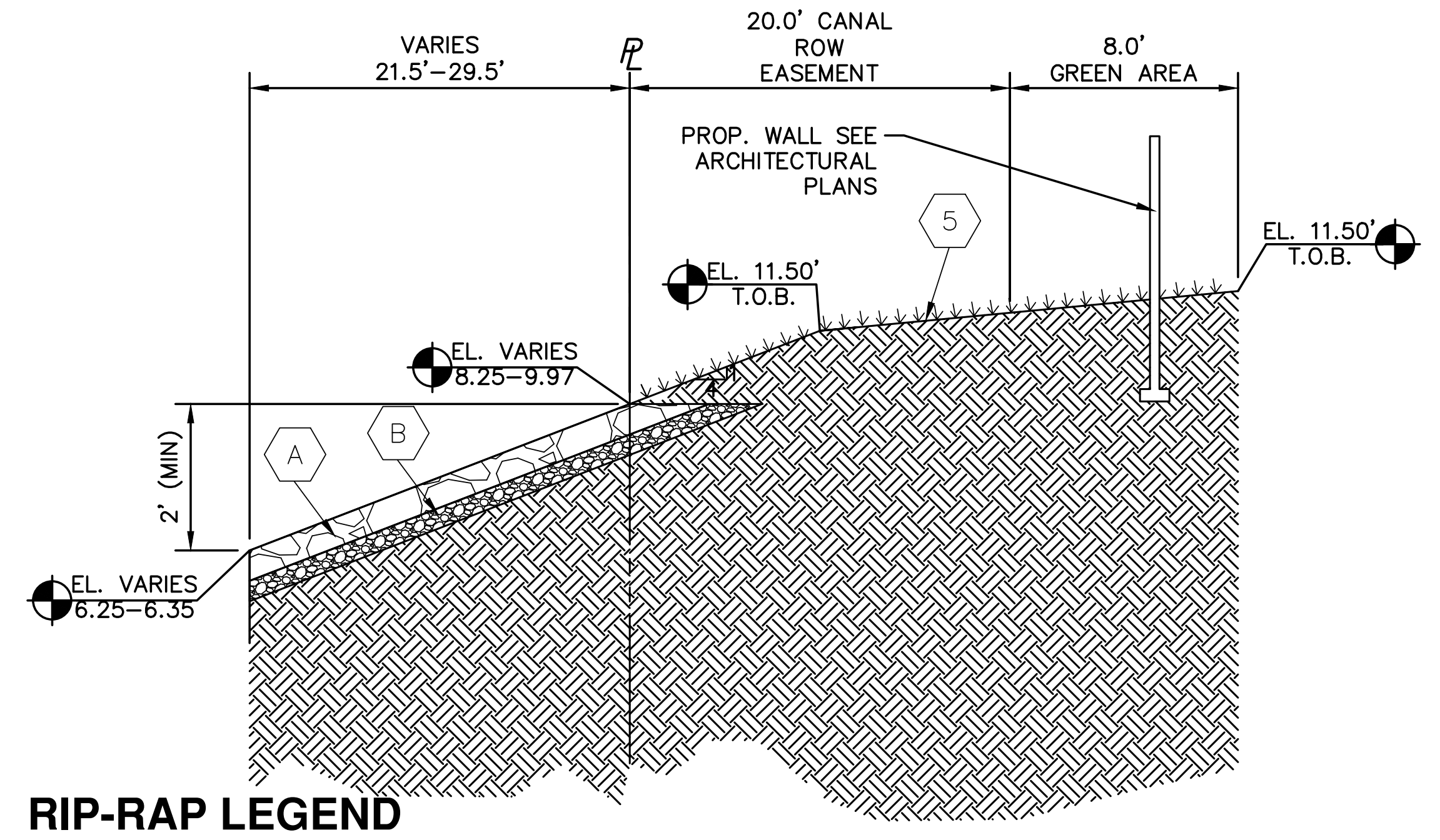
SECTION E LAKE WET RETENTION POND

SCALE: N.T.S.


20.0' LAKE MAINTENANCE EASEMENT
8.0' LITTORAL AREA
VARIES SEE PLAN
8.0' LITTORAL AREA
20.0' LAKE MAINTENANCE EASEMENT
3.0'
PL
1.0'
10.0' UTILITY EASEMENT
PROP. WALL SEE ARCHITECTURAL PLANS
EL. 11.50' T.O.B.
5
CONTROL ELEV. EL. 7.00'
CONTROL ELEV. EL. 7.00'
5
EL. 11.50' T.O.B.
1
4
4
1
LAKE
EL. 5.00'
EL. 5.00'
EL. VARIES 10.28–10.48
2:1 OR ANGLE OF REPOSE OF MATERIAL EXCAVATED
12' MIN
2:1 OR ANGLE OF REPOSE OF MATERIAL EXCAVATED
EL. –5.00'

SECTION F LAKE WET RETENTION POND

SCALE: N.T.S.

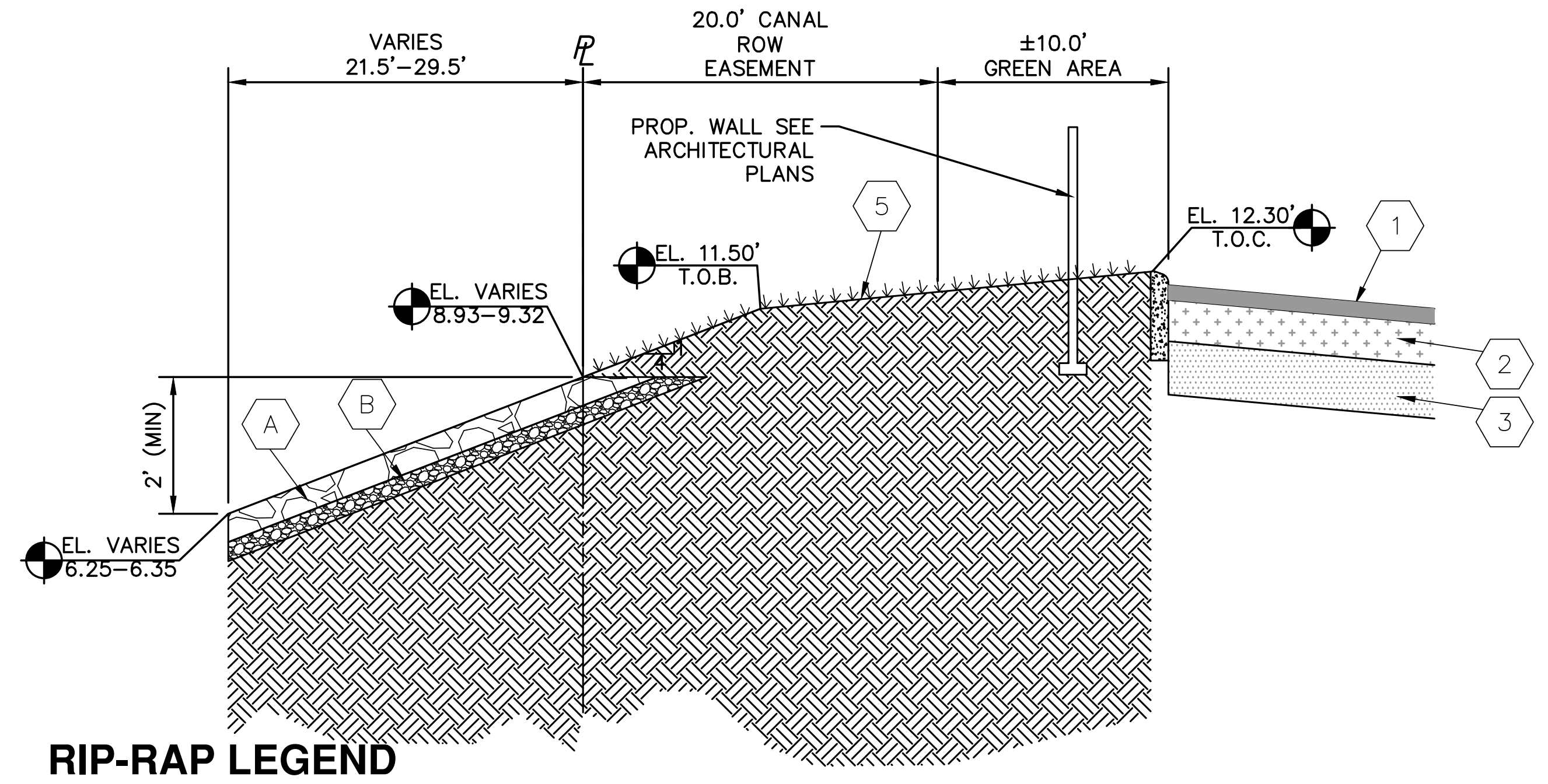

VARIES 21.5'–29.5'
PL
20.0' CANAL ROW EASEMENT
8.0' GREEN AREA
PROP. WALL SEE ARCHITECTURAL PLANS
5
EL. 11.50' T.O.B.
EL. 11.50' T.O.B.
EL. VARIES 8.25–9.97
2' (MIN)
A
B
4
1
EL. VARIES 6.25–6.35

RIP-RAP LEGEND

- Ⓐ 1.5' (MIN) RIP-RAP RUBBLE DITCH LINING PER FDOT STANDARD SPECIFICATIONS (JULY 2016) SECTION 530-2.1.3.2
- Ⓑ 1' (MIN) BEDDING STONE ON WOVEN GEOTEXTILE FILTER FABRIC PER FDOT STANDARD SPECIFICATIONS (JULY 2016) SECTION 530-2.1.4 & SECTION 985 (TYPE D2)

SECTION G CANAL BANK AREA

SCALE: N.T.S.

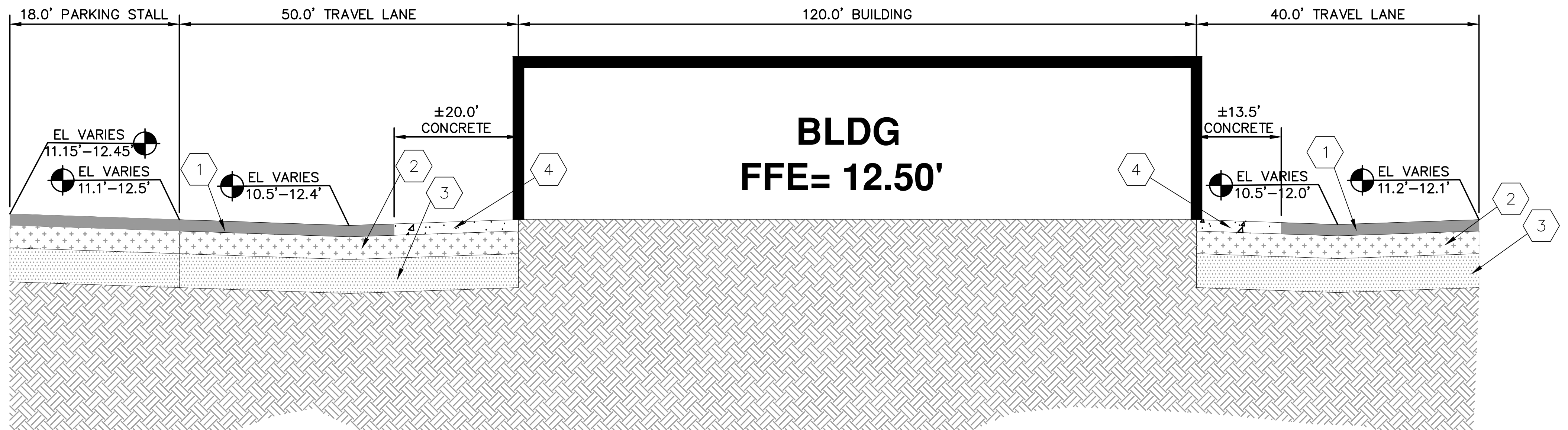

VARIES 21.5'–29.5'
PL
20.0' CANAL ROW EASEMENT
±10.0' GREEN AREA
PROP. WALL SEE ARCHITECTURAL PLANS
5
EL. 11.50' T.O.B.
EL. 12.30' T.O.C.
1
2
3
EL. VARIES 8.93–9.32
2' (MIN)
A
B
4
1
EL. VARIES 6.25–6.35

RIP-RAP LEGEND

- Ⓐ 1.5' (MIN) RIP-RAP RUBBLE DITCH LINING PER FDOT STANDARD SPECIFICATIONS (JULY 2016) SECTION 530-2.1.3.2
- Ⓑ 1' (MIN) BEDDING STONE ON WOVEN GEOTEXTILE FILTER FABRIC PER FDOT STANDARD SPECIFICATIONS (JULY 2016) SECTION 530-2.1.4 & SECTION 985 (TYPE D2)

SECTION H CANAL BANK AREA

SCALE: N.T.S.


18.0' PARKING STALL
50.0' TRAVEL LANE
120.0' BUILDING
40.0' TRAVEL LANE
±20.0' CONCRETE
±13.5' CONCRETE
BLDG
FFE= 12.50'
EL VARIES 11.15'–12.45'
EL VARIES 11.1'–12.5'
1
EL VARIES 10.5'–12.4'
2
3
4
4
EL VARIES 10.5'–12.0'
1
EL VARIES 11.2'–12.1'
2
3

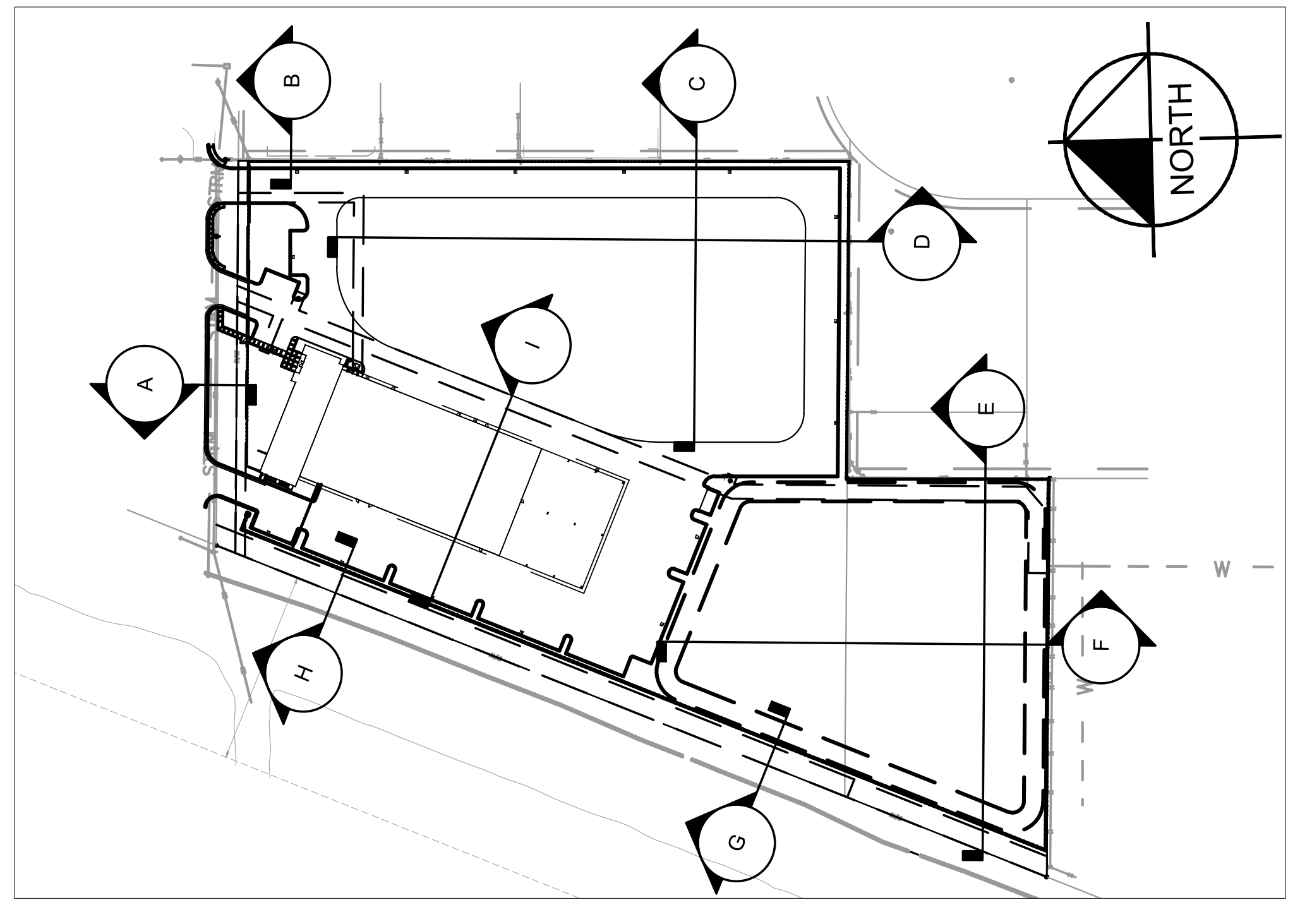
SECTION I BUILDING

SCALE: N.T.S.

PAVING LEGEND

1	$1\frac{1}{2}$" FDOT SP 9.5 TL-B ASPHALT
2	8" LIMEROCK BASE COMPACTED AT LEAST 98% WITH MINIMUM LBR OF 100
3	12" FDOT TYPE B STABILIZED SUBGRADE LBR 40, FDOT 160-2 (CONTRACTOR TO EXCAVATE AS REQUIRED AND REPLACE WITH BACKFILL AS SPECIFIED ON PLANS)
4	8" CONCRETE SURFACE (MIN. 4,000 PSI)
5	BAHIA SOD (SEE LANDSCAPING PLANS)
6	12" FDOT TYPE B STABILIZED SUBGRADE LBR 40, FDOT 160-2 (CONTRACTOR TO EXCAVATE AS REQUIRED AND REPLACE WITH BACKFILL AS SPECIFIED ON PLANS)

KEY MAP


A
B
C
D
E
F
G
H
I
NORTH
W

CONTRACTOR SHALL ENSURE ALL SITE PREPARATION REQUIREMENTS ARE MET AS DICTATED IN THE GEOTECHNICAL REPORT

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

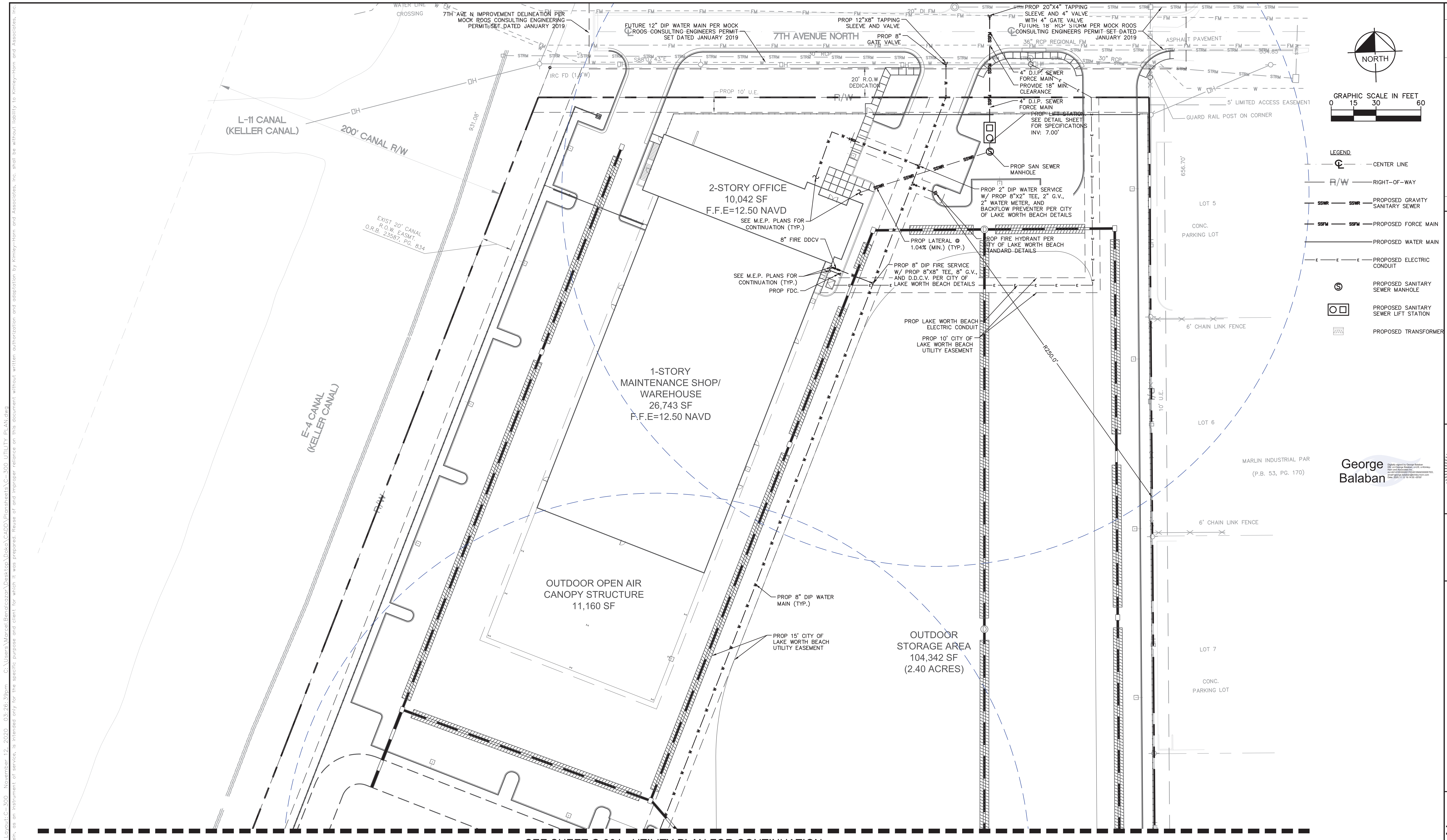
PAVING AND GRADING CROSS SECTIONS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-208

Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-208 PAVING AND GRADING CROSS SECTIONS November 20, 2020 06:34:11pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-208 PAVING AND GRADING CROSS SECTIONS.dwg
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: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-300 November 12, 2020 03:26:39pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-300 UTILITY PLAN.dwg
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.


WATER LINE CROSSING
7TH AVE N IMPROVEMENT DELINEATION PER MOCK ROOS CONSULTING ENGINEERING PERMIT SET DATED JANUARY 2019
FUTURE 12" DIP WATER MAIN PER MOCK ROOS CONSULTING ENGINEERS PERMIT SET DATED JANUARY 2019
7TH AVENUE NORTH
PROP 12"X8" TAPPING SLEEVE AND VALVE
PROP 8" GATE VALVE
20" DI FM
PROP 20"X4" TAPPING SLEEVE AND 4" VALVE WITH 4" GATE VALVE
FUTURE 18" RCP STORM PER MOCK ROOS CONSULTING ENGINEERS PERMIT SET DATED JANUARY 2019
36" RCP REGIONAL FM
30" RCP
ASPHALT PAVEMENT
S88°07'43"E
IRC FD (1.6'W)
20' R.O.W DEDICATION
PROP 10' U.E.
R/W
4" D.I.P. SEWER FORCE MAIN
PROVIDE 18" MIN. CLEARANCE
4" D.I.P. SEWER FORCE MAIN
PROP LIFT STATION. SEE DETAIL SHEET FOR SPECIFICATIONS INV: 7.00'
PROP SAN SEWER MANHOLE
5' LIMITED ACCESS EASEMENT
GUARD RAIL POST ON CORNER
L-11 CANAL (KELLER CANAL)
200' CANAL R/W
931.08'
EXIST 20' CANAL R.O.W. EASMT. O.R.B. 23587, PG. 834
2-STORY OFFICE 10,042 SF F.F.E=12.50 NAVD
SEE M.E.P. PLANS FOR CONTINUATION (TYP.)
8" FIRE DDCV
SEE M.E.P. PLANS FOR CONTINUATION (TYP.)
PROP FDC.
PROP 2" DIP WATER SERVICE W/ PROP 8"X2" TEE, 2" G.V., 2" WATER METER, AND BACKFLOW PREVENTER PER CITY OF LAKE WORTH BEACH DETAILS
PROP LATERAL @ 1.04% (MIN.) (TYP.)
PROP FIRE HYDRANT PER CITY OF LAKE WORTH BEACH STANDARD DETAILS
PROP 8" DIP FIRE SERVICE W/ PROP 8"X8" TEE, 8" G.V., AND D.D.C.V. PER CITY OF LAKE WORTH BEACH DETAILS
PROP LAKE WORTH BEACH ELECTRIC CONDUIT
PROP 10' CITY OF LAKE WORTH BEACH UTILITY EASEMENT
R250.0'
656.70'
10' U.E.
LOT 5
CONC. PARKING LOT
6' CHAIN LINK FENCE
LOT 6
MARLIN INDUSTRIAL PAR (P.B. 53, PG. 170)
6' CHAIN LINK FENCE
LOT 7
CONC. PARKING LOT
E-4 CANAL (KELLER CANAL)
R/W
1-STORY MAINTENANCE SHOP/ WAREHOUSE 26,743 SF F.F.E=12.50 NAVD
OUTDOOR OPEN AIR CANOPY STRUCTURE 11,160 SF
PROP 8" DIP WATER MAIN (TYP.)
PROP 15' CITY OF LAKE WORTH BEACH UTILITY EASEMENT
OUTDOOR STORAGE AREA 104,342 SF (2.40 ACRES)
NORTH
GRAPHIC SCALE IN FEET
0 15 30 60
LEGEND
℄ CENTER LINE
R/W RIGHT-OF-WAY
SSWR PROPOSED GRAVITY SANITARY SEWER
SSFM PROPOSED FORCE MAIN
PROPOSED WATER MAIN
E PROPOSED ELECTRIC CONDUIT
Ⓢ PROPOSED SANITARY SEWER MANHOLE
PROPOSED SANITARY SEWER LIFT STATION
PROPOSED TRANSFORMER

SEE SHEET C-301 - UTILITY PLAN FOR CONTINUATION

George Balaban

Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:14:55 -05'00'

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN LICENSE No 74543 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE:

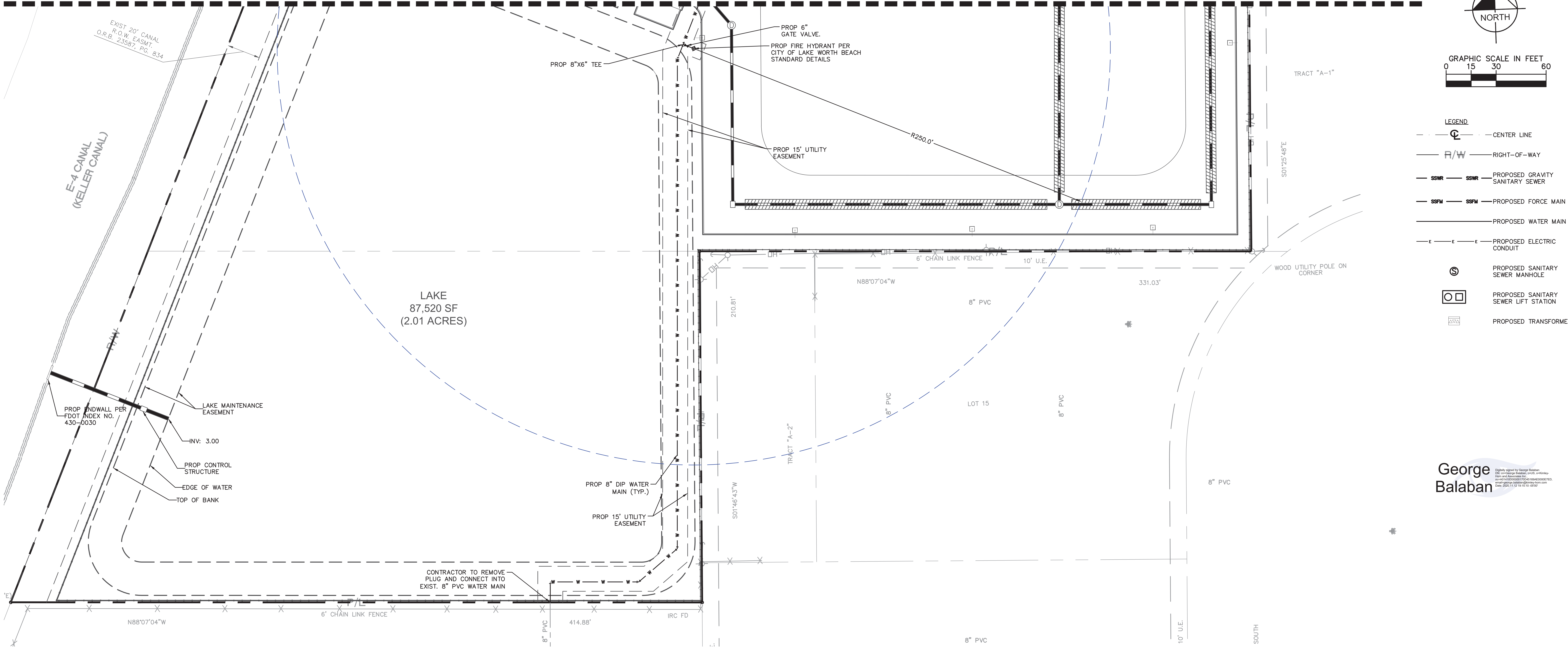
KHA PROJECT	143189000
DATE	9/2/2020
SCALE	AS SHOWN
DESIGNED BY	GB
DRAWN BY	MB
CHECKED BY	GB

UTILITY PLAN

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-300

SEE SHEET C-300 - UTILITY PLAN FOR CONTINUATION


NORTH
GRAPHIC SCALE IN FEET
0
15
30
60
EXIST 20' CANAL R.O.W. EASMT. O.R.B. 23587, PG. 834
E-4 CANAL (KELLER CANAL)
R/W
PROP 8"X6" TEE
PROP 6" GATE VALVE.
PROP FIRE HYDRANT PER CITY OF LAKE WORTH BEACH STANDARD DETAILS
PROP 15' UTILITY EASEMENT
R250.0'
TRACT "A-1"
S01°25'48"E
LAKE
87,520 SF
(2.01 ACRES)
PROP ENDWALL PER FDOT INDEX NO. 430-0030
LAKE MAINTENANCE EASEMENT
INV: 3.00
PROP CONTROL STRUCTURE
EDGE OF WATER
TOP OF BANK
PROP 8" DIP WATER MAIN (TYP.)
PROP 15' UTILITY EASEMENT
CONTRACTOR TO REMOVE PLUG AND CONNECT INTO EXIST. 8" PVC WATER MAIN
6' CHAIN LINK FENCE
10' U.E.
N88°07'04"W
331.03'
8" PVC
WOOD UTILITY POLE ON CORNER
210.81'
S01°46'43"W
TRACT "A-2"
8" PVC
LOT 15
8" PVC
8" PVC
N88°07'04"W
6' CHAIN LINK FENCE
8" PVC
414.88'
IRC FD
8" PVC
10' U.E.
SOUTH
P/L

LEGEND

℄	CENTER LINE
R/W	RIGHT-OF-WAY
SSWR —— SSWR	PROPOSED GRAVITY SANITARY SEWER
SSFM —— SSFM	PROPOSED FORCE MAIN
——	PROPOSED WATER MAIN
E —— E —— E	PROPOSED ELECTRIC CONDUIT
Ⓢ	PROPOSED SANITARY SEWER MANHOLE
○□	PROPOSED SANITARY SEWER LIFT STATION
△▽△	PROPOSED TRANSFORMER

George
Balaban
Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:15:10 -05'00'

Always call 811 two full business days before you dig
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
LICENSE No 74543
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE:

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

UTILITY PLAN

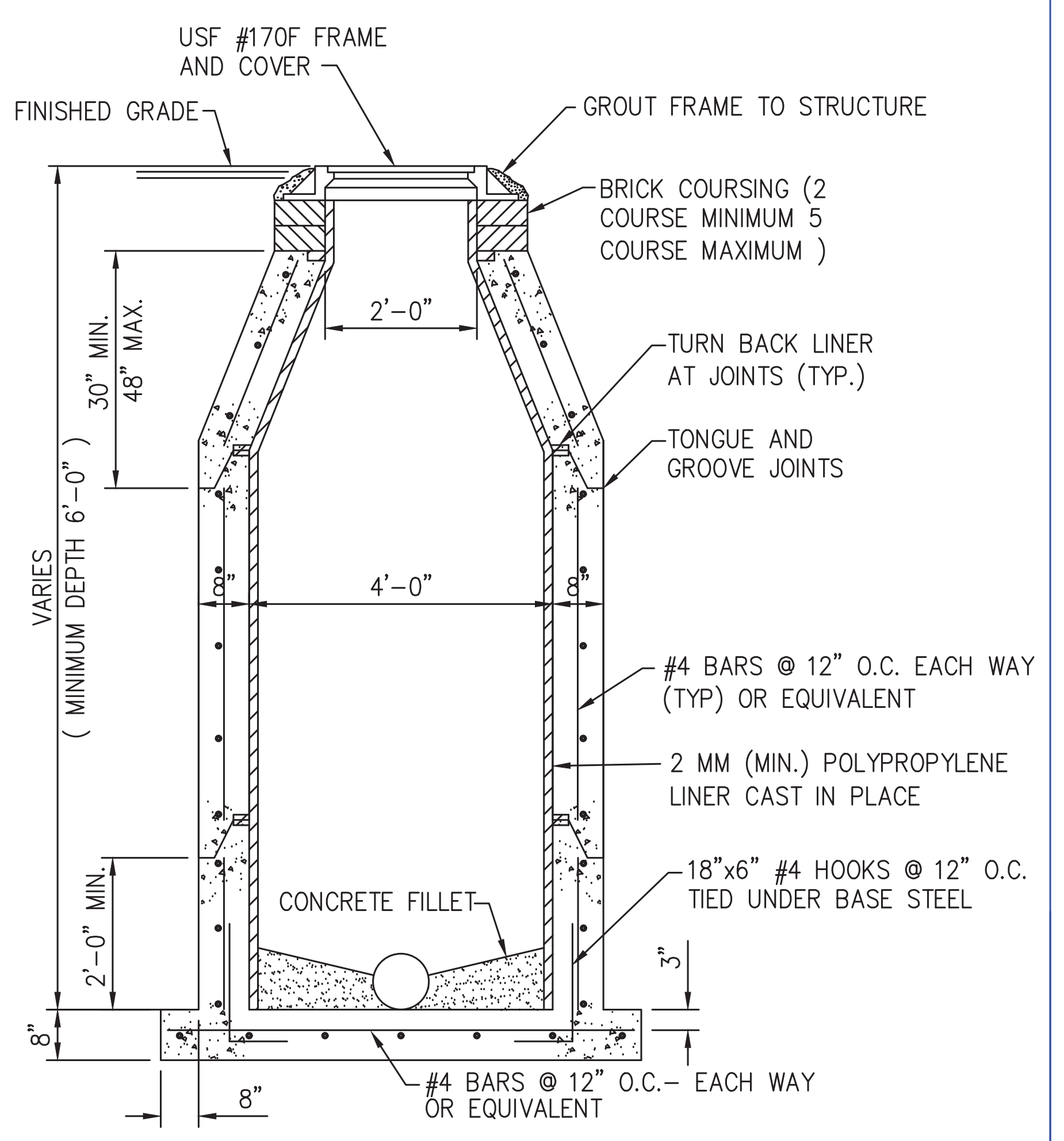
OFFICE/INDUSTRIAL FACILITY

PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

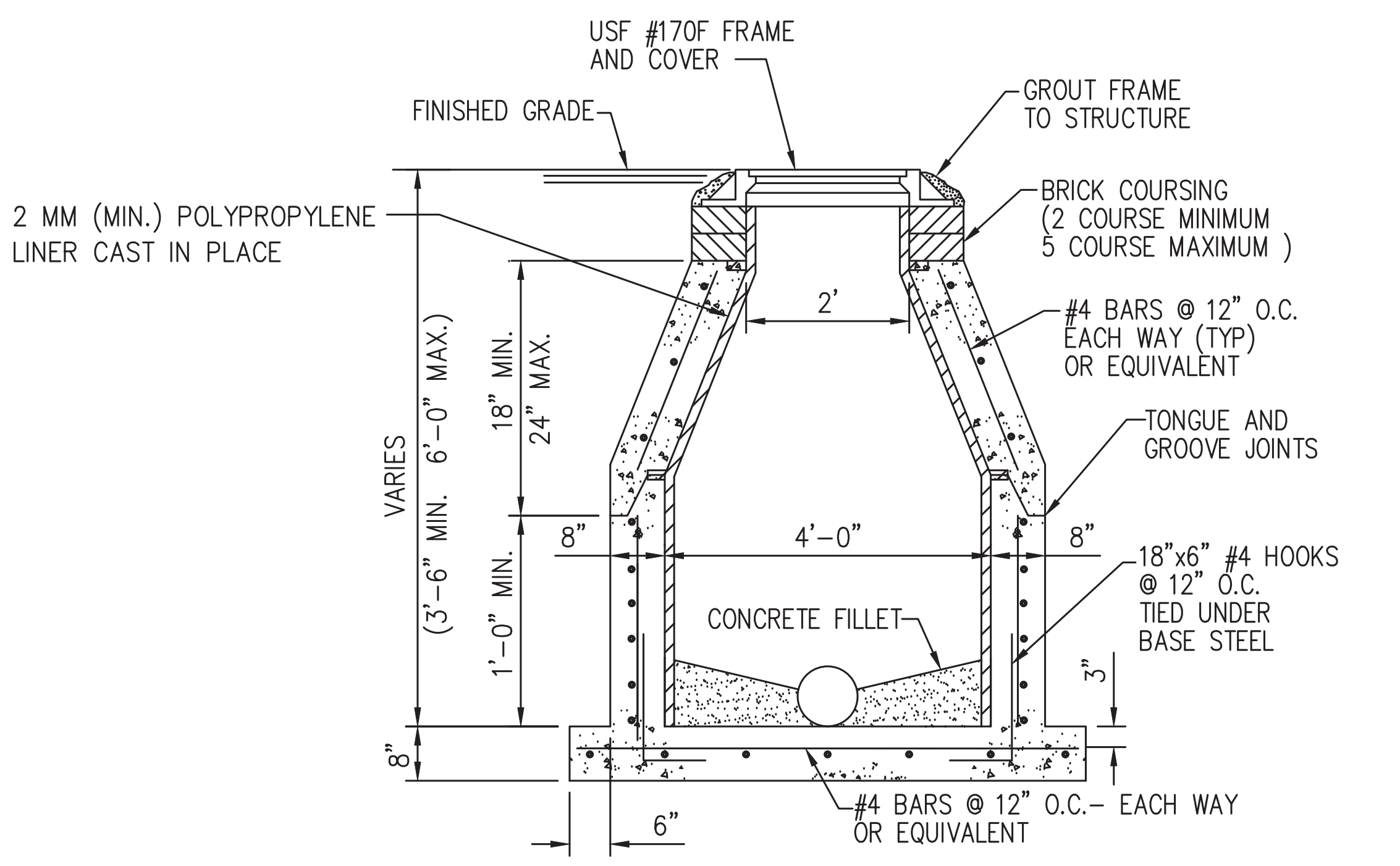
SHEET NUMBER
C-301

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-301 November 12, 2020 03:26:40pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-300 UTILITY PLAN.dwg
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.

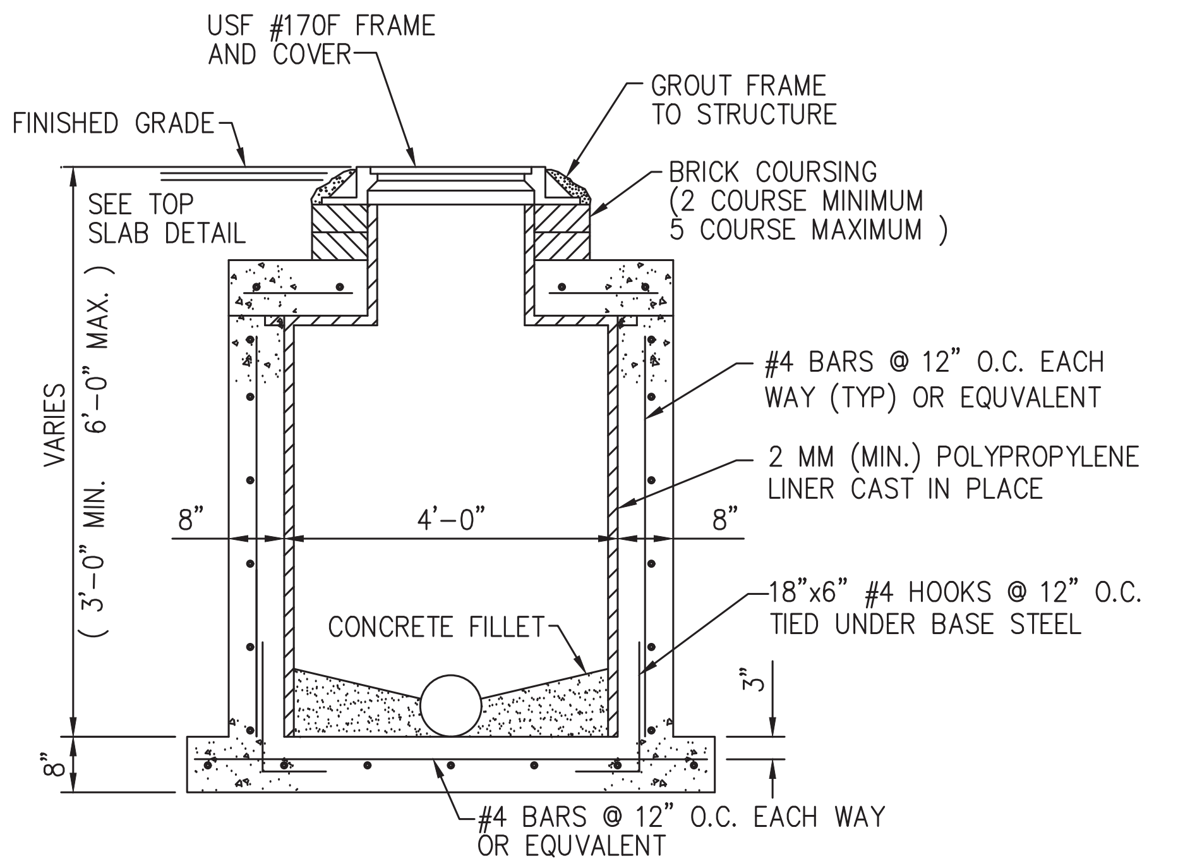
Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-302 CITY OF LAKE WORTH BEACH SEWER DETAILS November 12, 2020 03:26:45pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-302 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument 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.


USF #170F FRAME AND COVER
FINISHED GRADE
GROUT FRAME TO STRUCTURE
BRICK COURSING (2 COURSE MINIMUM 5 COURSE MAXIMUM)
2'-0"
TURN BACK LINER AT JOINTS (TYP.)
TONGUE AND GROOVE JOINTS
30" MIN. 48" MAX.
VARIES (MINIMUM DEPTH 6'-0")
4'-0"
8"
#4 BARS @ 12" O.C. EACH WAY (TYP) OR EQUIVALENT
2 MM (MIN.) POLYPROPYLENE LINER CAST IN PLACE
18"x6" #4 HOOKS @ 12" O.C. TIED UNDER BASE STEEL
CONCRETE FILLET
2'-0" MIN.
3"
#4 BARS @ 12" O.C.– EACH WAY OR EQUIVALENT

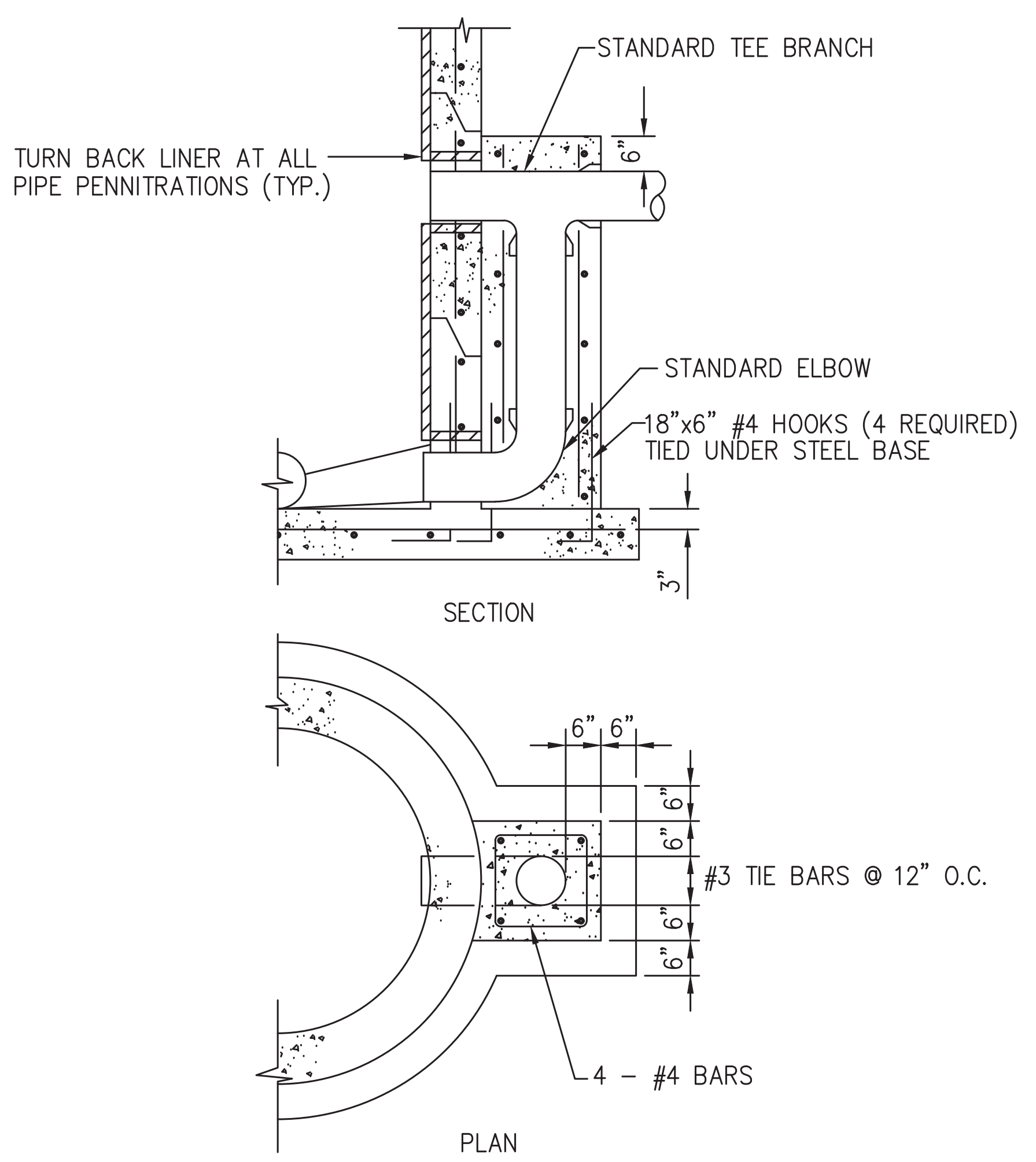
STANDARD MANHOLE 1


USF #170F FRAME AND COVER
FINISHED GRADE
GROUT FRAME TO STRUCTURE
BRICK COURSING (2 COURSE MINIMUM 5 COURSE MAXIMUM)
2 MM (MIN.) POLYPROPYLENE LINER CAST IN PLACE
2'
#4 BARS @ 12" O.C. EACH WAY (TYP) OR EQUIVALENT
TONGUE AND GROOVE JOINTS
VARIES (3'-6" MIN. 6'-0" MAX.)
18" MIN. 24" MAX.
1'-0" MIN.
8"
4'-0"
18"x6" #4 HOOKS @ 12" O.C. TIED UNDER BASE STEEL
CONCRETE FILLET
3"
6"
#4 BARS @ 12" O.C.– EACH WAY OR EQUIVALENT

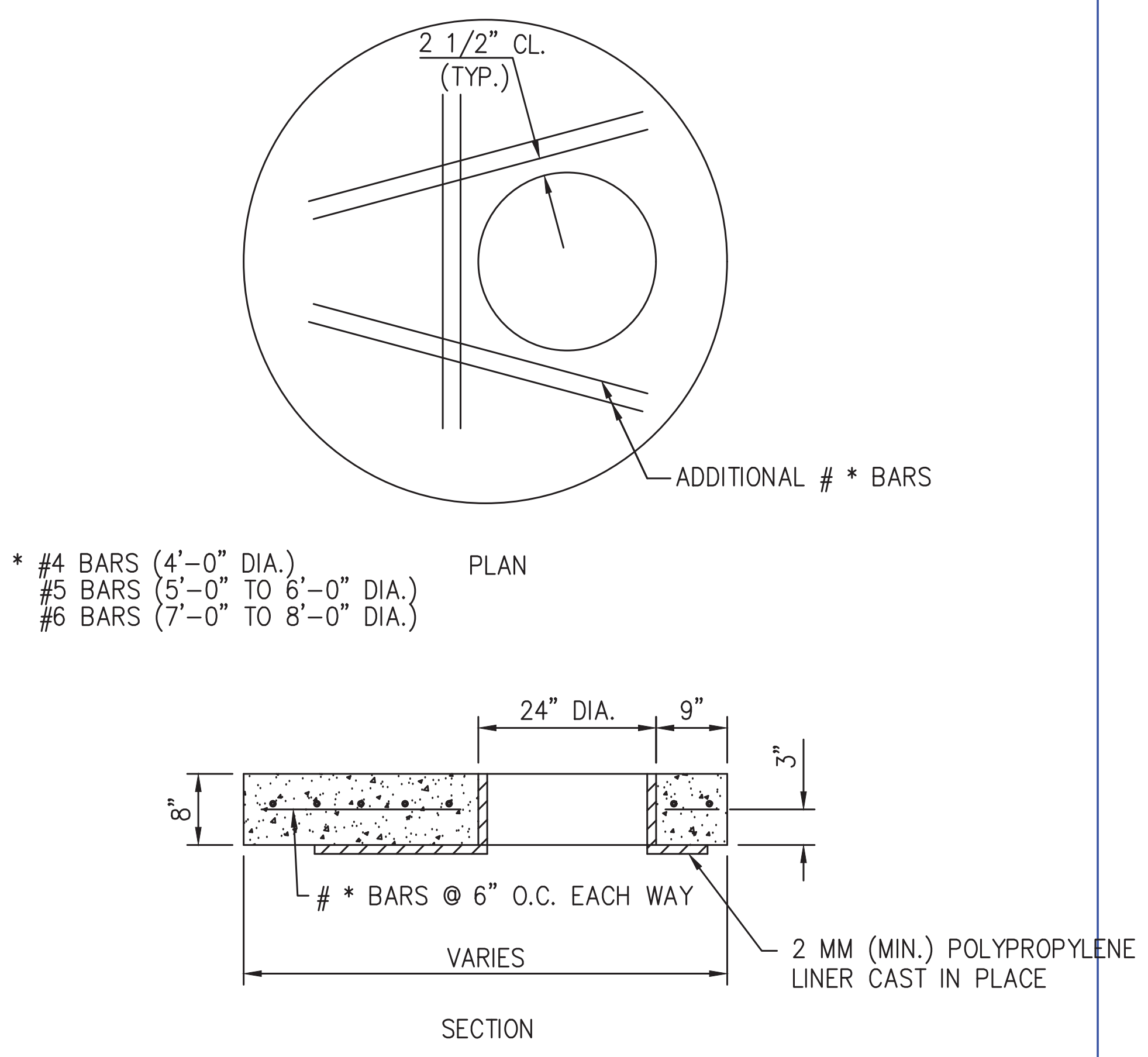
SHALLOW MANHOLE 2


USF #170F FRAME AND COVER
FINISHED GRADE
SEE TOP SLAB DETAIL
GROUT FRAME TO STRUCTURE
BRICK COURSING (2 COURSE MINIMUM 5 COURSE MAXIMUM)
#4 BARS @ 12" O.C. EACH WAY (TYP) OR EQUIVALENT
2 MM (MIN.) POLYPROPYLENE LINER CAST IN PLACE
VARIES (3'-0" MIN. 6'-0" MAX.)
8"
4'-0"
18"x6" #4 HOOKS @ 12" O.C. TIED UNDER BASE STEEL
CONCRETE FILLET
3"
#4 BARS @ 12" O.C. EACH WAY OR EQUVALENT

SHALLOW MANHOLE 3

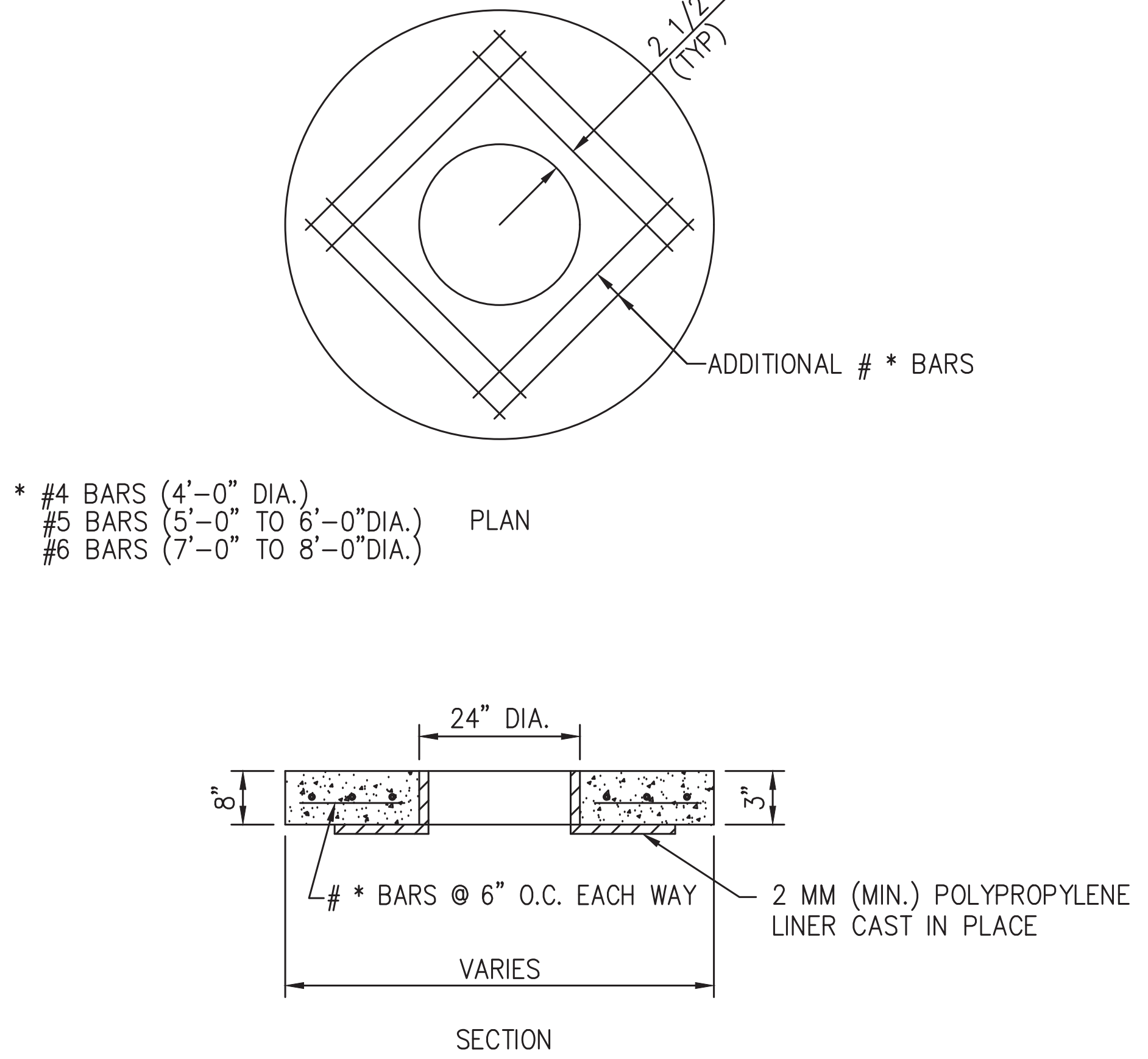

STANDARD TEE BRANCH
TURN BACK LINER AT ALL PIPE PENNITRATIONS (TYP.)
6"
STANDARD ELBOW
18"x6" #4 HOOKS (4 REQUIRED) TIED UNDER STEEL BASE
3"
SECTION
6" 6"
6"
6"
#3 TIE BARS @ 12" O.C.
6"
6"
4 – #4 BARS
PLAN

DROP CONNECTION 4


2 1/2" CL. (TYP.)
ADDITIONAL # * BARS
PLAN
24" DIA.
9"
3"
8"
# * BARS @ 6" O.C. EACH WAY
2 MM (MIN.) POLYPROPYLENE LINER CAST IN PLACE
VARIES
SECTION

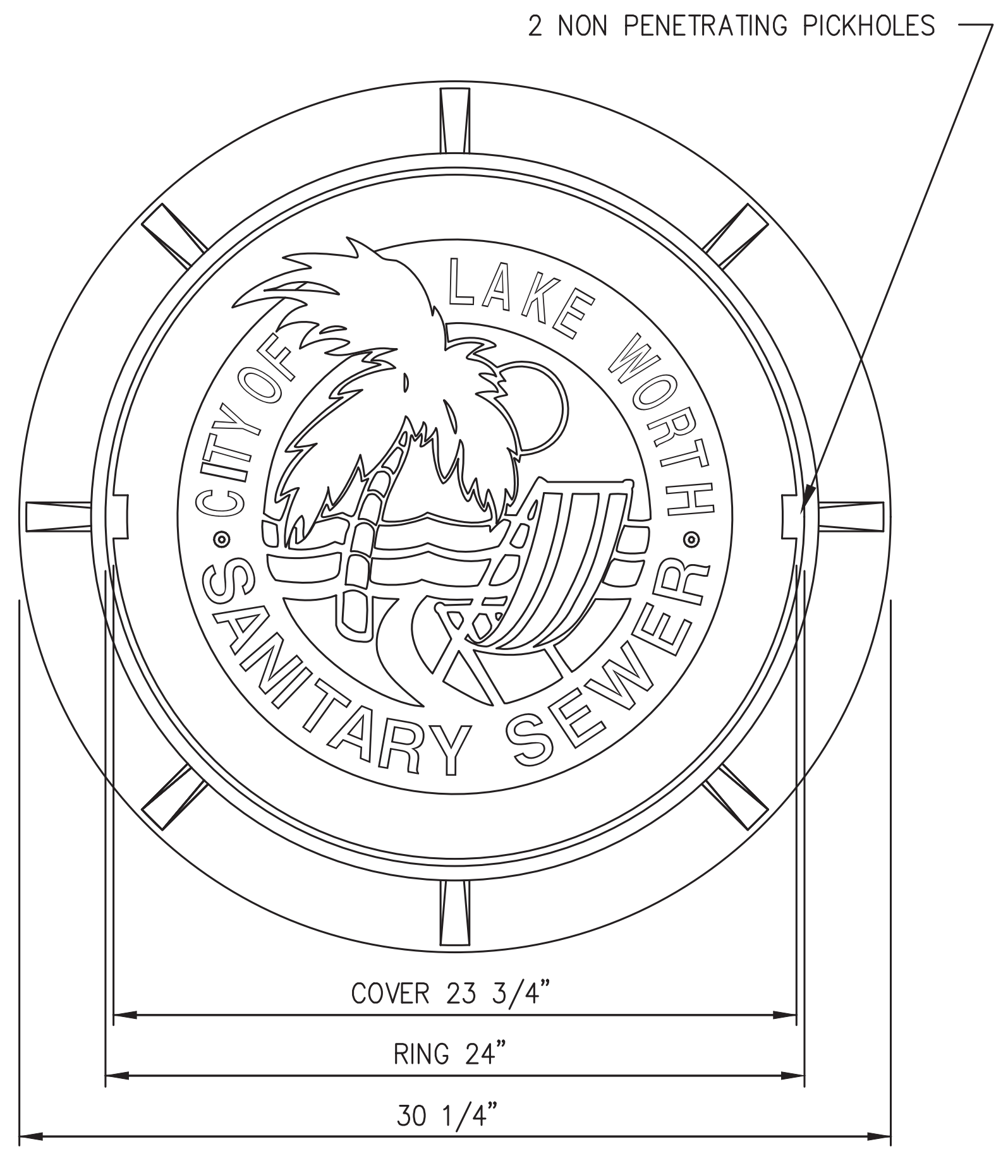
* #4 BARS (4'-0" DIA.)
#5 BARS (5'-0" TO 6'-0" DIA.)
#6 BARS (7'-0" TO 8'-0" DIA.)

FLAT TOP SLAB 5


2 1/2" CL (TYP)
ADDITIONAL # * BARS
PLAN
24" DIA.
8"
3"
# * BARS @ 6" O.C. EACH WAY
2 MM (MIN.) POLYPROPYLENE LINER CAST IN PLACE
VARIES
SECTION

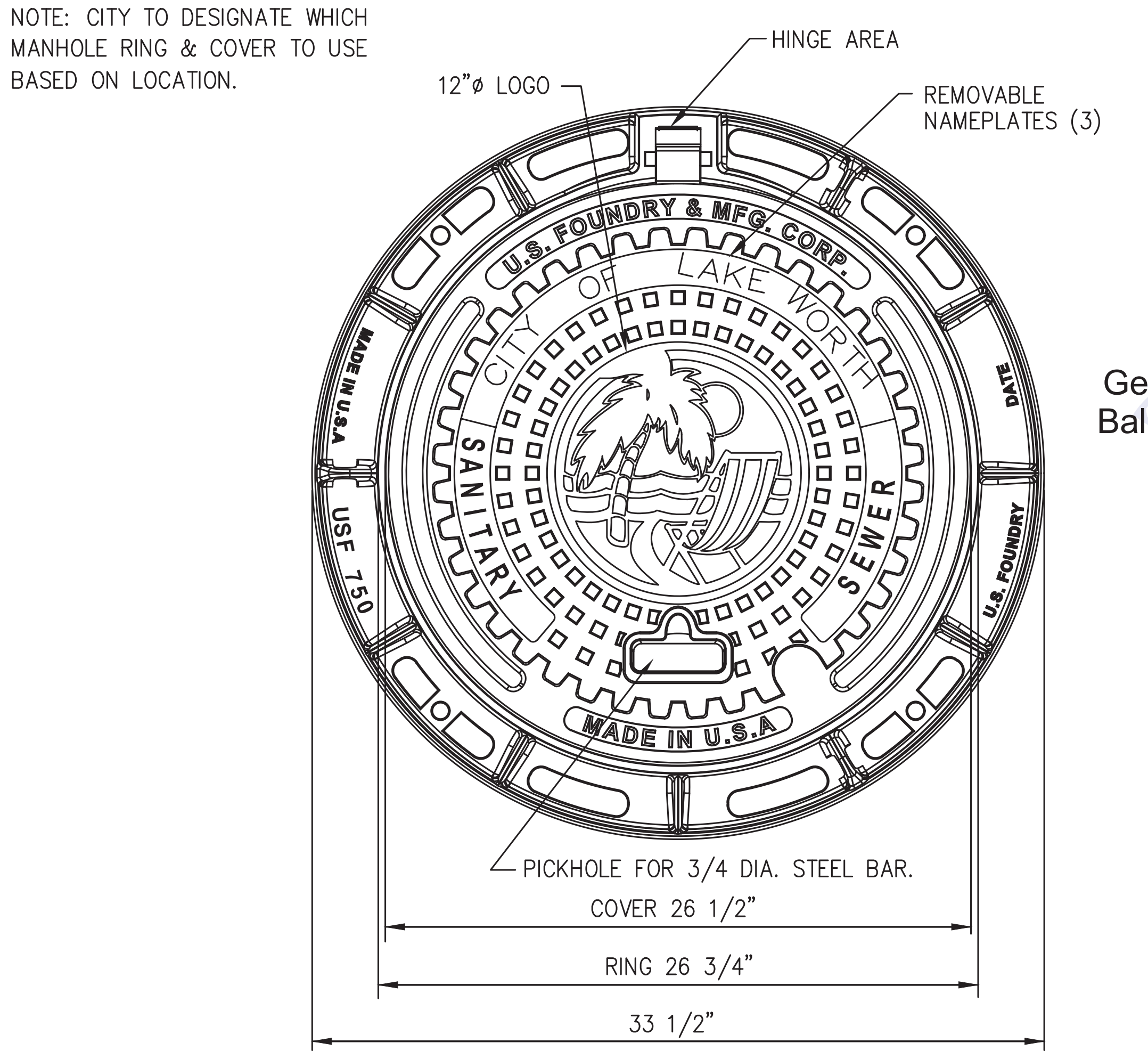
* #4 BARS (4'-0" DIA.)
#5 BARS (5'-0" TO 6'-0"DIA.)
#6 BARS (7'-0" TO 8'-0"DIA.)

FLAT TOP SLAB 6


2 NON PENETRATING PICKHOLES
CITY OF LAKE WORTH
SANITARY SEWER
COVER 23 3/4"
RING 24"
30 1/4"

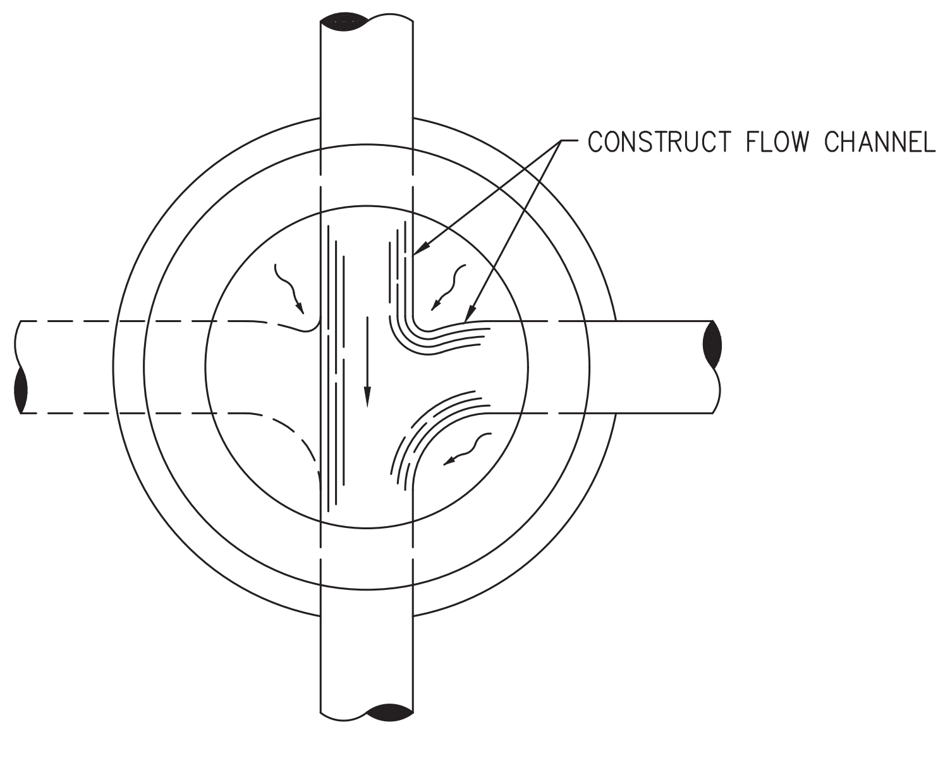
USF 170 RING & EU COVER 7

NOTE: CITY TO DESIGNATE WHICH MANHOLE RING & COVER TO USE BASED ON LOCATION.

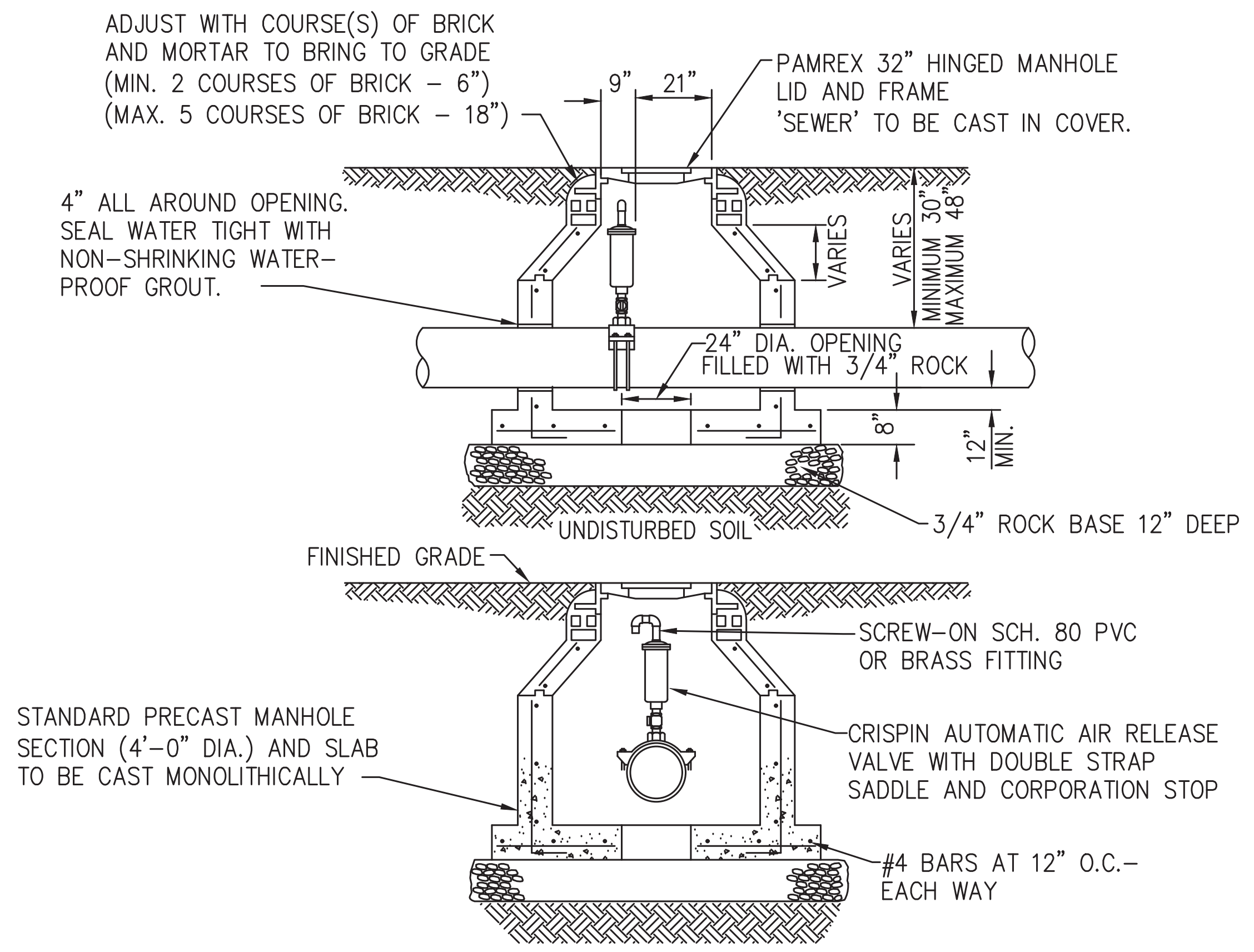

12"ø LOGO
HINGE AREA
REMOVABLE NAMEPLATES (3)
U.S. FOUNDRY & MFG. CORP.
CITY OF LAKE WORTH
SANITARY SEWER
MADE IN U.S.A.
USF 750
U.S. FOUNDRY
PICKHOLE FOR 3/4 DIA. STEEL BAR.
COVER 26 1/2"
RING 26 3/4"
33 1/2"

George Balaban

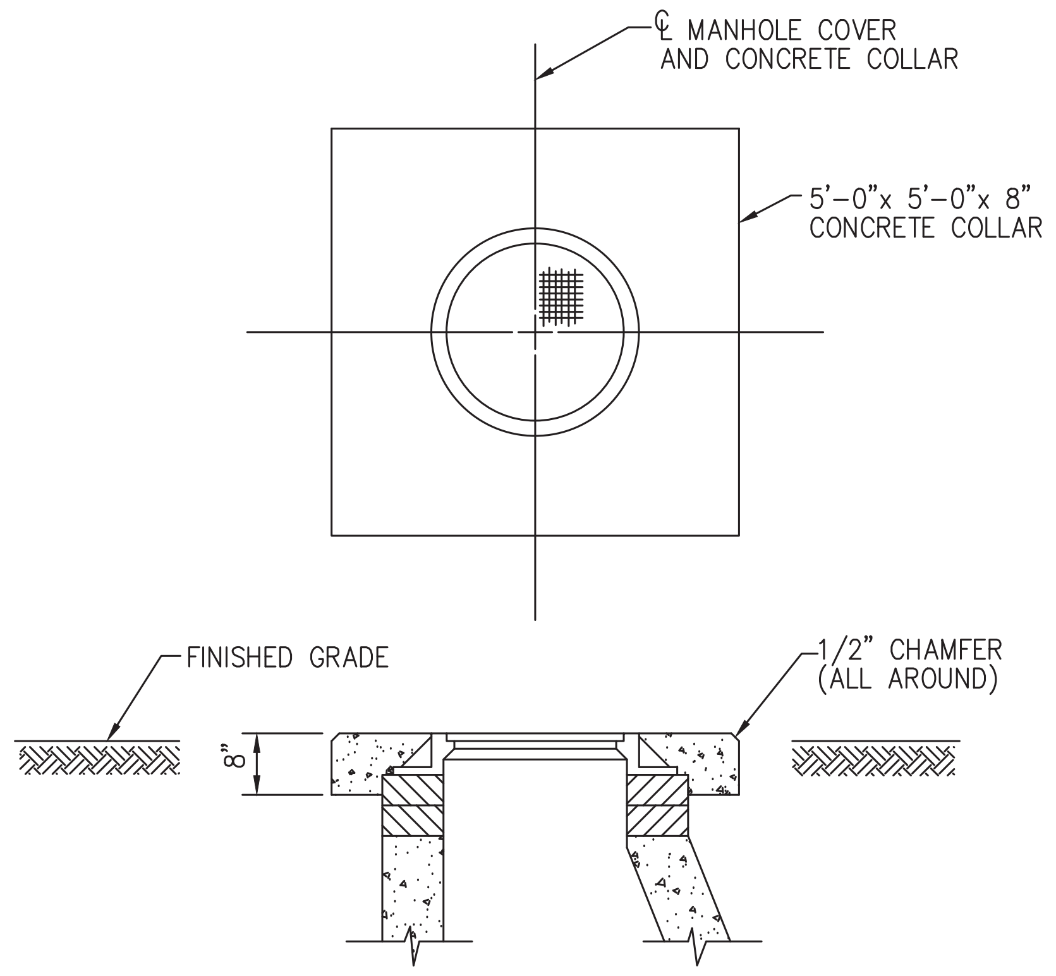
USF 750 RING & NH COVER 8


CONSTRUCT FLOW CHANNEL

MANHOLE BOTTOM FOR TWO OR MORE INFLUENT LINES 9


ADJUST WITH COURSE(S) OF BRICK AND MORTAR TO BRING TO GRADE (MIN. 2 COURSES OF BRICK – 6") (MAX. 5 COURSES OF BRICK – 18")
9"
21"
PAMREX 32" HINGED MANHOLE LID AND FRAME 'SEWER' TO BE CAST IN COVER.
4" ALL AROUND OPENING. SEAL WATER TIGHT WITH NON-SHRINKING WATER-PROOF GROUT.
VARIES
VARIES MINIMUM 30" MAXIMUM 48"
24" DIA. OPENING FILLED WITH 3/4" ROCK
8"
12" MIN.
UNDISTURBED SOIL
3/4" ROCK BASE 12" DEEP
FINISHED GRADE
SCREW-ON SCH. 80 PVC OR BRASS FITTING
STANDARD PRECAST MANHOLE SECTION (4'-0" DIA.) AND SLAB TO BE CAST MONOLITHICALLY
CRISPIN AUTOMATIC AIR RELEASE VALVE WITH DOUBLE STRAP SADDLE AND CORPORATION STOP
#4 BARS AT 12" O.C.– EACH WAY

AIR RELEASE VALVE MANHOLE 10


℄ MANHOLE COVER AND CONCRETE COLLAR
5'-0"x 5'-0"x 8" CONCRETE COLLAR
FINISHED GRADE
1/2" CHAMFER (ALL AROUND)
8"

CONCRETE COLLAR (REQUIRED WHEN MANHOLE IS OUT OF PAVEMENT) 11

1. REINFORCING STEEL ON ALL CONCRETE STRUCTURES SHALL HAVE A MINIMUM COVER OF 3 INCHES.
2. BRICK COURSING ON MANHOLES SHALL BE PLASTERED WITH 1/2 INCH CEMENT MORTAR ON THE INSIDE AND OUTSIDE FACES.
3.
4. THE DISTANCES AND CONTROLS SHOWN ON THE DRAWINGS REFER TO THE CENTERLINE OF THE MANHOLES.
5. COAT EXTERIOR AND INTERIOR SURFACES OF MANHOLES WITH KOPPERS 300–M OR EQUAL APPROVED BY THE ENGINEER. PROVIDE A MINIMUM DRY FILM THICKNESS OF 16 MILS. APPLY IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INTERIOR COATING SHALL BE FIELD APPLIED AFTER FINAL LAMPING AND REVIEW BY THE ENGINEER.
6. STEPS ARE REQUIRED IN MANHOLES GREATER THAN 3 FEET IN DEPTH. STEPS SHALL BE SPACED 16 INCHES ON CENTER AND SHALL BE POLYPROPYLENE PLASTIC COATED NO.3 AS MANUFACTURED BY MA INDUSTRIES, INC. OR EQUAL APPROVED BY THE ENGINEER.
7. PVC FORCE MAIN PIPE SHALL BE WRAPPED WITH WIRE FOR LOCATING PURPOSES. A 14 GAUGE, THIN INSULATED, SOLID COPPER WIRE SHALL BE LAID IN THE PIPE TRENCH CONTINUOUS FROM VALVE BOX TO VALVE BOX. WIRE SHALL BE WRAPPED TWO TIMES AROUND EACH JOINT OF PIPE AND EXTENDED INSIDE EACH VALVE BOX TO ENABLE LOCATION DEVICES TO BE ATTACHED WITHOUT DIGGING UP THE VALVE BOX . WIRE CONNECTIONS SHALL BE MADE WITH COMMERCIAL CONNECTORS AND SEALED AGAINST MOISTURE WITH SCOTCH E–Z SEAL NO.2200 ELECTRICAL INSULATING PAD WITH VINYL BACKING.
8. DROP CONNECTIONS ON MANHOLES ARE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED 2 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
9. CAST IRON MANHOLE COVERS SHALL HAVE THE WORD 'SANITARY' CAST IN THEM IN RAISED LETTERS.

GENERAL NOTES 12

No.	REVISIONS	DATE	BY

Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

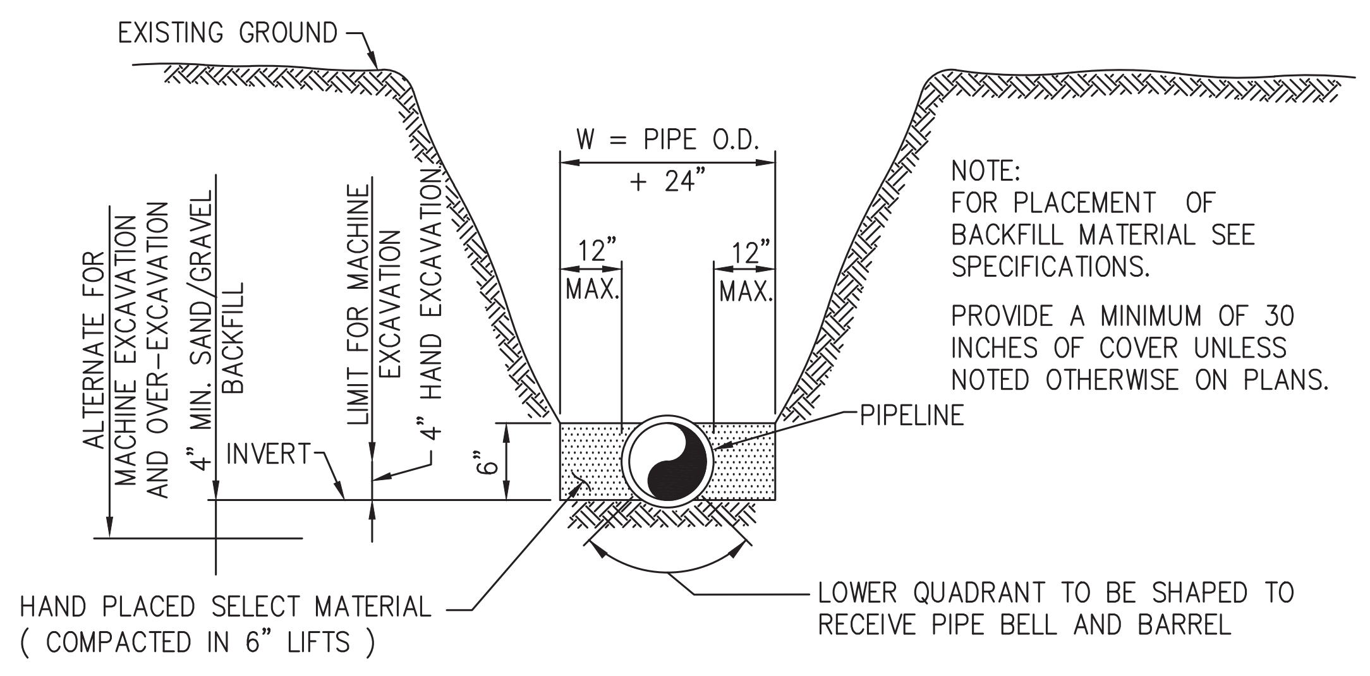
GEORGE BALABAN
LICENSE No 74543
DATE:

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

CITY OF LAKE WORTH BEACH SEWER DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

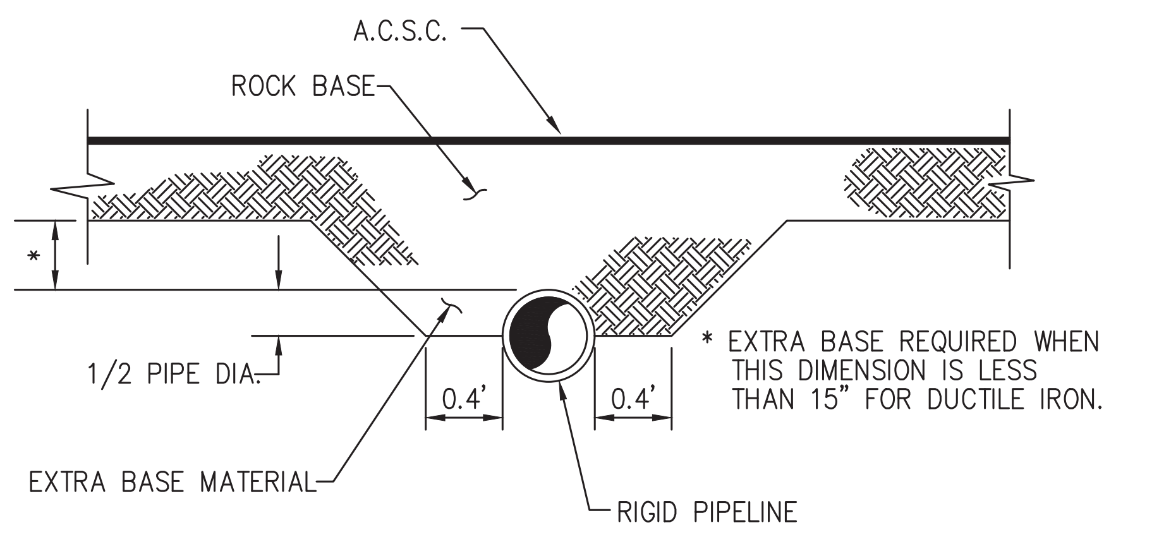
SHEET NUMBER
C-302


EXISTING GROUND
W = PIPE O.D. + 24"
12" MAX.
12" MAX.
ALTERNATE FOR MACHINE EXCAVATION AND OVER-EXCAVATION
4" MIN. SAND/GRAVEL BACKFILL
LIMIT FOR MACHINE EXCAVATION
4" HAND EXCAVATION
INVERT
6"
PIPELINE
HAND PLACED SELECT MATERIAL (COMPACTED IN 6" LIFTS)
LOWER QUADRANT TO BE SHAPED TO RECEIVE PIPE BELL AND BARREL

NOTE:
FOR PLACEMENT OF BACKFILL MATERIAL SEE SPECIFICATIONS.

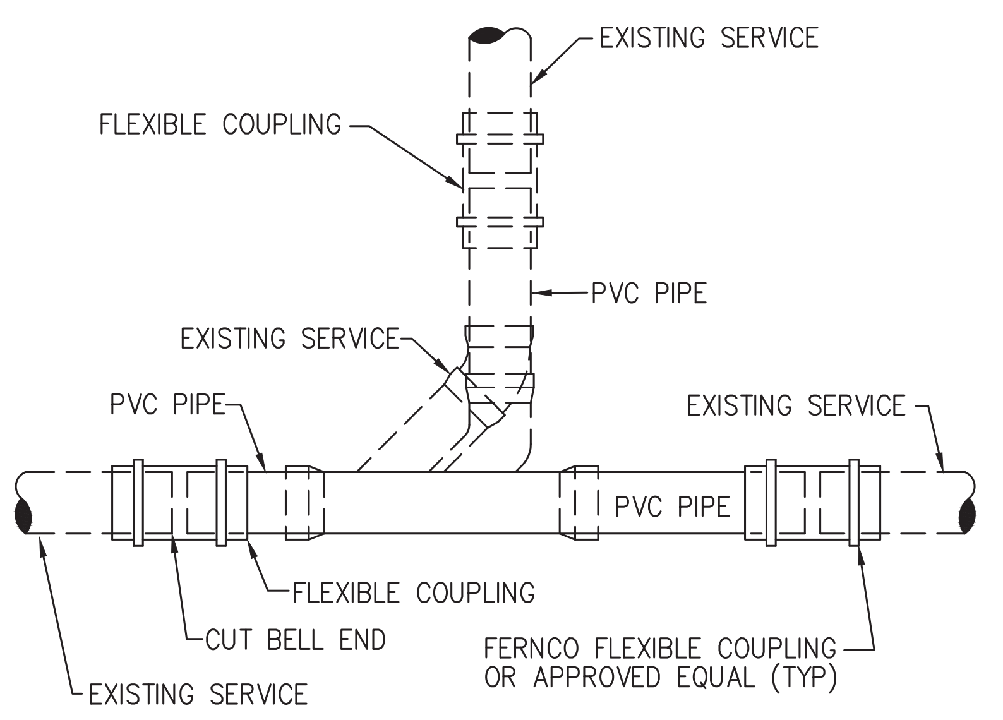
PROVIDE A MINIMUM OF 30 INCHES OF COVER UNLESS NOTED OTHERWISE ON PLANS.

TRENCHING 1

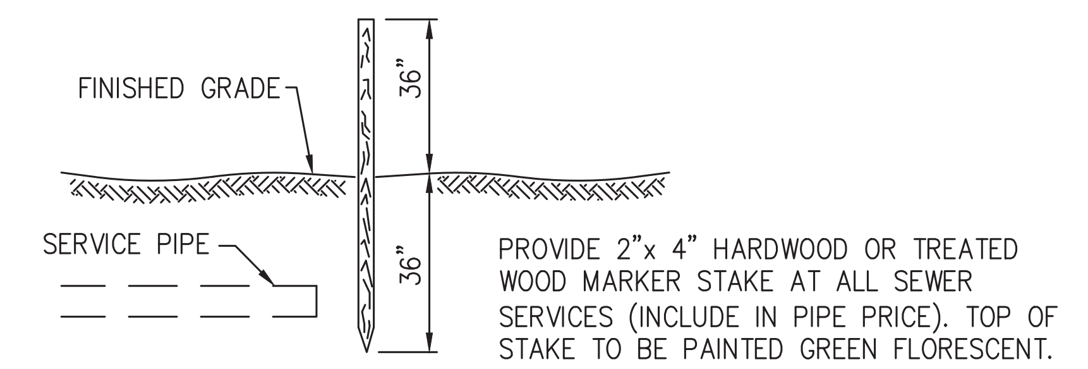

A.C.S.C.
ROCK BASE
*
1/2 PIPE DIA.
0.4'
0.4'
EXTRA BASE MATERIAL
RIGID PIPELINE

* EXTRA BASE REQUIRED WHEN THIS DIMENSION IS LESS THAN 15" FOR DUCTILE IRON.

EXTRA BASE MATERIAL FOR SHALLOW PIPES IN ROADWAYS 2


EXISTING SERVICE
FLEXIBLE COUPLING
PVC PIPE
EXISTING SERVICE
PVC PIPE
EXISTING SERVICE
PVC PIPE
FLEXIBLE COUPLING
CUT BELL END
FERNCO FLEXIBLE COUPLING OR APPROVED EQUAL (TYP)
EXISTING SERVICE

PIPE SECTION REPLACEMENT 3


FINISHED GRADE
36"
SERVICE PIPE
36"

PROVIDE 2"x 4" HARDWOOD OR TREATED WOOD MARKER STAKE AT ALL SEWER SERVICES (INCLUDE IN PIPE PRICE). TOP OF STAKE TO BE PAINTED GREEN FLORESCENT.

George Balaban

Digitally signed by George Balaban
Date: 2020.11.12 19:15:46 -05'00'

MARKER STAKE 4

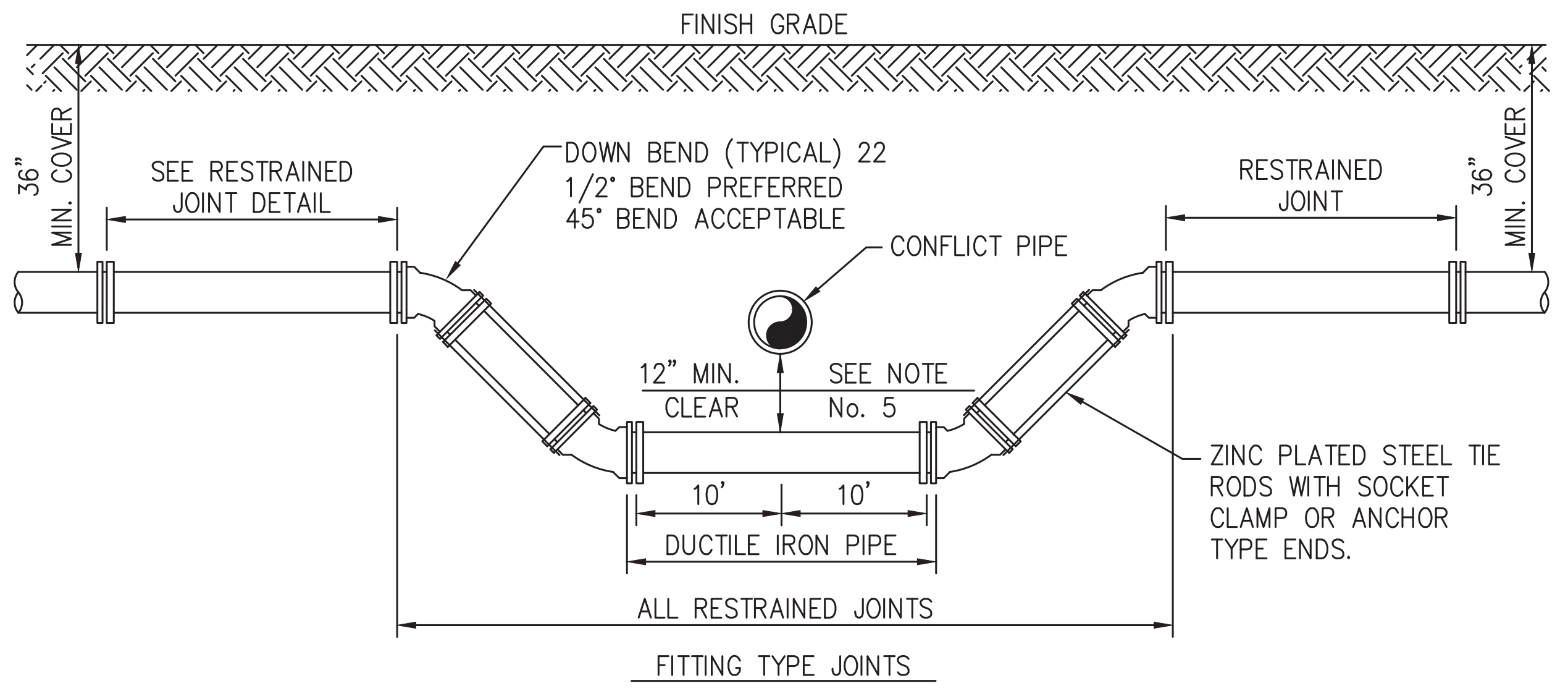
HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATERMAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

1. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED SEWER, STORMWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 2–610, F.A.C.
2. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM–TYPE SANITARY SEWER.
3. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAINS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATERMAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
4. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED 'ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM' AS DEFINED IN SECTION 381.0065(2), F.S. AND RULE 64E–6.002, F.A.C.

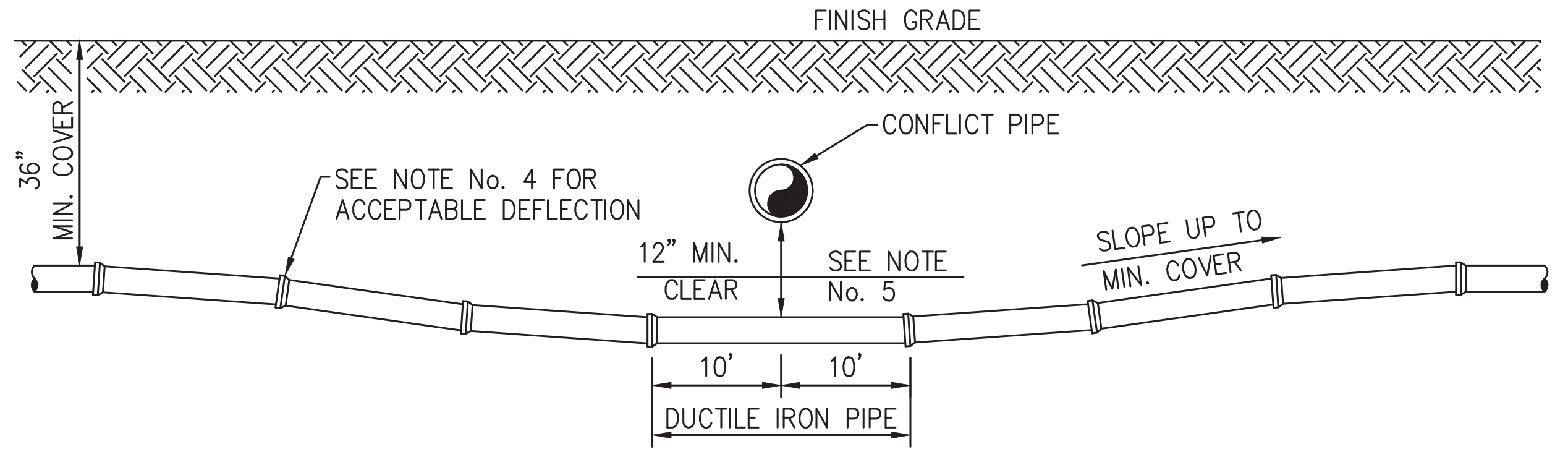
VERTICAL SEPARATION BETWEEN UNDERGROUND WATERMAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCEMAINS, AND RECLAIMED WATER PIPELINES.

1. NEW OR RELOCATED UNDERGROUND WATERMAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST SIX INCHES, AND PREFERABLY TWELVE INCHES ABOVE, OR AT LEAST TWELVE INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.
2. NEW OR RELOCATED UNDERGROUND WATERMAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST TWELVE INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.
3. AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPH 1 AND 2 ABOVE, ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATERMAIN JOINTS SHALL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATERMAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWER, STORM SEWERS, STORMWATER FORCEMAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCEMAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER III 62–610, F.A.C.

WATER AND SEWER SEPARATION CRITERIA 5


FINISH GRADE
36" MIN. COVER
SEE RESTRAINED JOINT DETAIL
DOWN BEND (TYPICAL) 22 1/2" BEND PREFERRED 45° BEND ACCEPTABLE
CONFLICT PIPE
RESTRAINED JOINT
36" MIN. COVER
12" MIN. CLEAR
SEE NOTE No. 5
ZINC PLATED STEEL TIE RODS WITH SOCKET CLAMP OR ANCHOR TYPE ENDS.
10'
10'
DUCTILE IRON PIPE
ALL RESTRAINED JOINTS

FITTING TYPE JOINTS

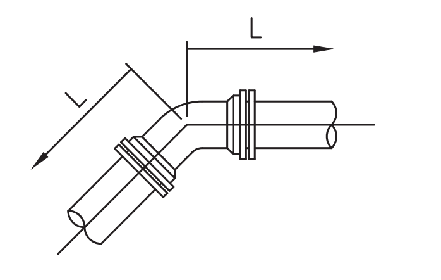

FINISH GRADE
36" MIN. COVER
CONFLICT PIPE
SEE NOTE No. 4 FOR ACCEPTABLE DEFLECTION
12" MIN. CLEAR
SEE NOTE No. 5
SLOPE UP TO MIN. COVER
10'
10'
DUCTILE IRON PIPE

DEFLECTION TYPE JOINTS
PREFERRED METHOD

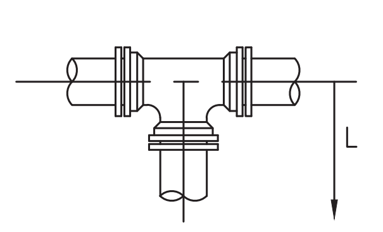
NOTES:

1. THERE SHALL BE, IN ALL CASES, A MINIMUM OF 12" SEPARATION BETWEEN WATER MAINS AND FORCE MAINS.
2. WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
3. FITTINGS SHALL BE RESTRAINED WITH MEGALUGS AND TIE RODS BETWEEN OFFSET FITTINGS. THRUST BLOCKS SHALL ONLY BE USED WITH THE APPROVAL OF THE ENGINEER.
4. THE DEFLECTION TYPE CROSSING IS PREFERRED. SEE SPECIFICATIONS AND MANUFACTURER'S SUBMITTAL FOR MAXIMUM DEFLECTION ALLOWED.
5. A MINIMUM OF 12" VERTICAL SEPARATION BETWEEN WATER MAINS AND STORM SEWERS SHALL BE MAINTAINED. WHERE THIS IS NOT POSSIBLE WATER MAIN SHALL BE D.I.P. WITH NO LESS THAN 6" SEPARATION.

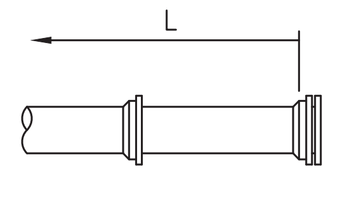
PRESSURE PIPE CONFLICT 6



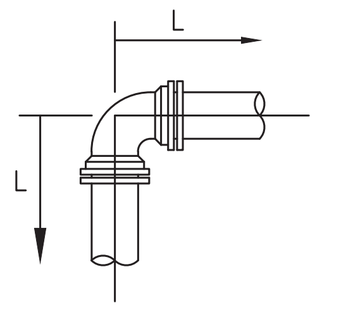
11 1/4", 22 1/2" & 45° BENDS



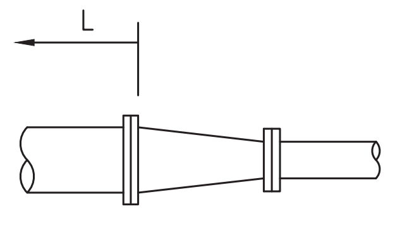
TEE



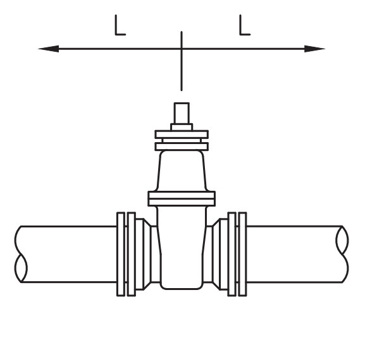
DEAD END



90° BEND



REDUCER



VALVE

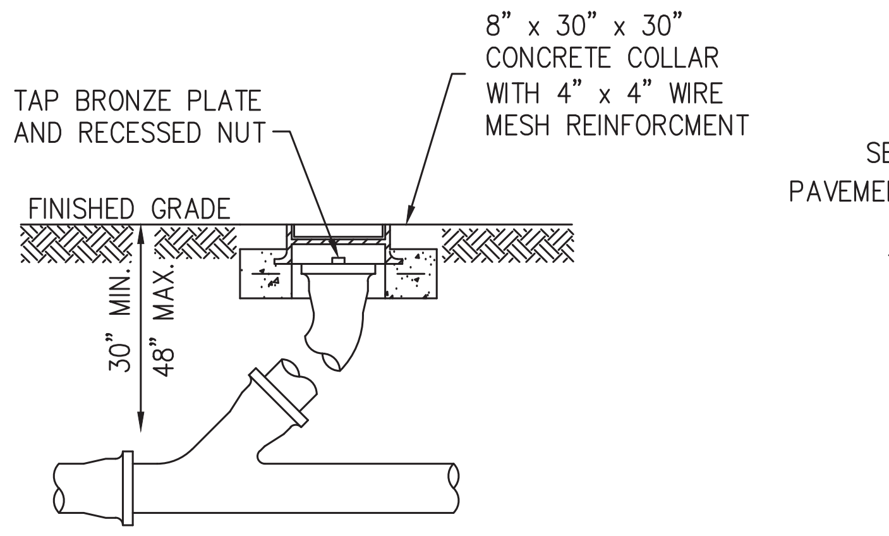
NOTES:

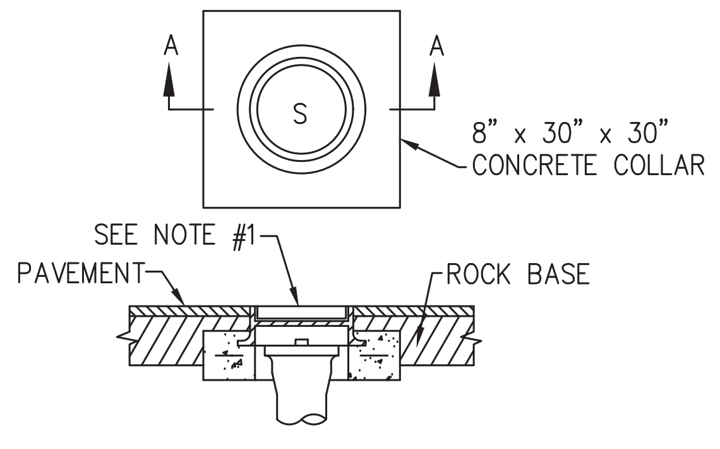
1. LENGTH 'L' IS IN FEET.
2. RESTRAINED LENGTHS ARE BASED ON THE FOLLOWING:
   .A. 150 PSI TEST PRESSURE
   .B. MIN. 30" COVER.
   .C. PVC – PIPE SIZES 4" – 12". DI – PIPE SIZES 4" – 48". PVC/DI
   .D. SANDY SOIL.
   .E. SAFETY FACTOR OF 1.5.
3. LENGTH 'L' SHOWN IN THE TABLE TO BE RESTRAINED IN THE DIRECTION OF THE ARROWS.

RESTRAINED PIPE JOINTS 7

FITTING TYPE		PIPE SIZE													
		4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
90° HORIZ. BEND		17/14	24/20	31/25	36/30	42/35	40	44	49	53	61	71	80	89	96
45° HORIZ. BEND		7/6	10/8	13/11	15/12	18/15	16	18	20	22	25	29	33	37	40
22.5° HORIZ. BEND		3/3	5/4	6/5	7/6	8/7	8	9	10	10	12	14	16	18	19
11.25° HORIZ. BEND		2/1	2/2	3/3	4/3	4/3	4	4	5	5	6	7	8	9	10
45° VERT. OFFSET	UPPER BEND	19/12	27/17	35/22	42/27	50/32	36	40	44	48	55	67	77	86	95
	LOWER BEND	5/4	7/6	9/8	11/9	13/11	12	14	15	17	19	23	26	29	32
22.5° VERT. OFFSET	UPPER BEND	9/6	13/8	17/11	20/13	24/15	17	19	21	23	27	32	37	41	46
	LOWER BEND	2/2	3/3	4/4	5/4	6/5	6	7	7	8	9	11	13	14	15
11.25° VERT. OFFSET	UPPER BEND	5/3	6/4	8/5	10/6	12/7	9	10	11	12	13	16	18	21	23
	LOWER BEND	1/1	2/1	2/2	3/2	3/3	3	3	4	4	5	5	6	7	8
DEAD END AND INLINE VALVE		46/30	65/42	85/54	102/65	120/76	86	97	107	117	136	162	186	208	229
TEE (BRANCH RESTRAINT)	4"x	21/13	8/5	1/1	1/1	1/1	–	–	–	–	–	–	–	–	–
	6"x	–	39/25	30/19	20/13	10/7	1	1	1	1	1	1	–	–	–
	8"x	–	–	59/37	51/32	44/28	23	17	12	6	1	1	1	–	–
	10"x	–	–	–	75/47	69/44	40	35	31	26	17	1	1	–	–
	12"x	–	–	–	–	93/59	55	52	48	44	36	23	8	1	1
	14"x	–	–	–	–	–	69	66	63	59	53	41	29	15	1
	16"x	–	–	–	–	–	–	79	76	74	68	58	47	35	23
	18"x	–	–	–	–	–	–	–	89	86	81	73	63	53	42
	20"x	–	–	–	–	–	–	–	–	99	94	86	78	69	59
	24"x	–	–	–	–	–	–	–	–	–	117	111	104	97	88
	30"x	–	–	–	–	–	–	–	–	–	–	143	137	132	125
	36"x	–	–	–	–	–	–	–	–	–	–	–	167	162	157
	42"x	–	–	–	–	–	–	–	–	–	–	–	–	188	184
	48"x	–	–	–	–	–	–	–	–	–	–	–	–	–	209
REDUCER (LARGER PIPE RESTRAINT)	6"x	34/21	–	–	–	–	–	–	–	–	–	–	–	–	–
	8"x	61/39	34/23	–	–	–	–	–	–	–	–	–	–	–	–
	10"x	83/53	63/40	34/22	–	–	–	–	–	–	–	–	–	–	–
	12"x	104/66	87/55	64/40	59/37	–	–	–	–	–	–	–	–	–	–
	14"x	–	69	56	54	22	–	–	–	–	–	–	–	–	–
	16"x	–	82	71	69	41	22	–	–	–	–	–	–	–	–
	18"x	–	–	84	82	58	41	22	–	–	–	–	–	–	–
	20"x	–	–	–	95	73	58	41	22	–	–	–	–	–	–
	24"x	–	–	–	–	100	88	74	58	41	–	–	–	–	–
	30"x	–	–	–	–	134	125	114	102	88	57	–	–	–	–
	36"x	–	–	–	–	–	–	–	–	127	102	56	–	–	–
	42"x	–	–	–	–	–	–	–	–	159	138	101	54	–	–
	48"x	–	–	–	–	–	–	–	–	–	–	138	99	53	–

MECHANICAL THRUST RESTRAINT – MINIMUM PIPE LENGTHS 8


8" x 30" x 30" CONCRETE COLLAR WITH 4" x 4" WIRE MESH REINFORCMENT
TAP BRONZE PLATE AND RECESSED NUT
FINISHED GRADE
30" MIN.
48" MAX.

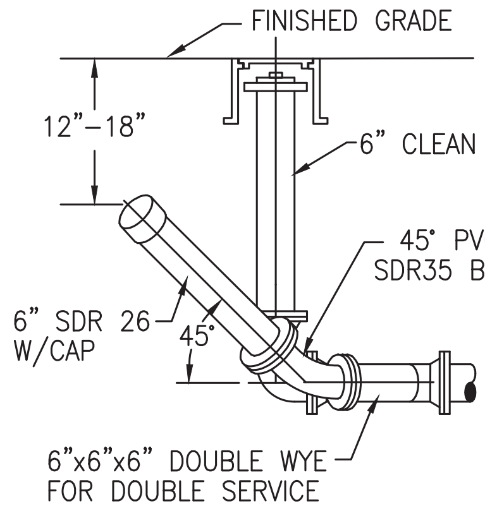

A
A
S
8" x 30" x 30" CONCRETE COLLAR
SEE NOTE #1
PAVEMENT
ROCK BASE

SECTION "A–A"
CLEAN–OUT IN PAVEMENT

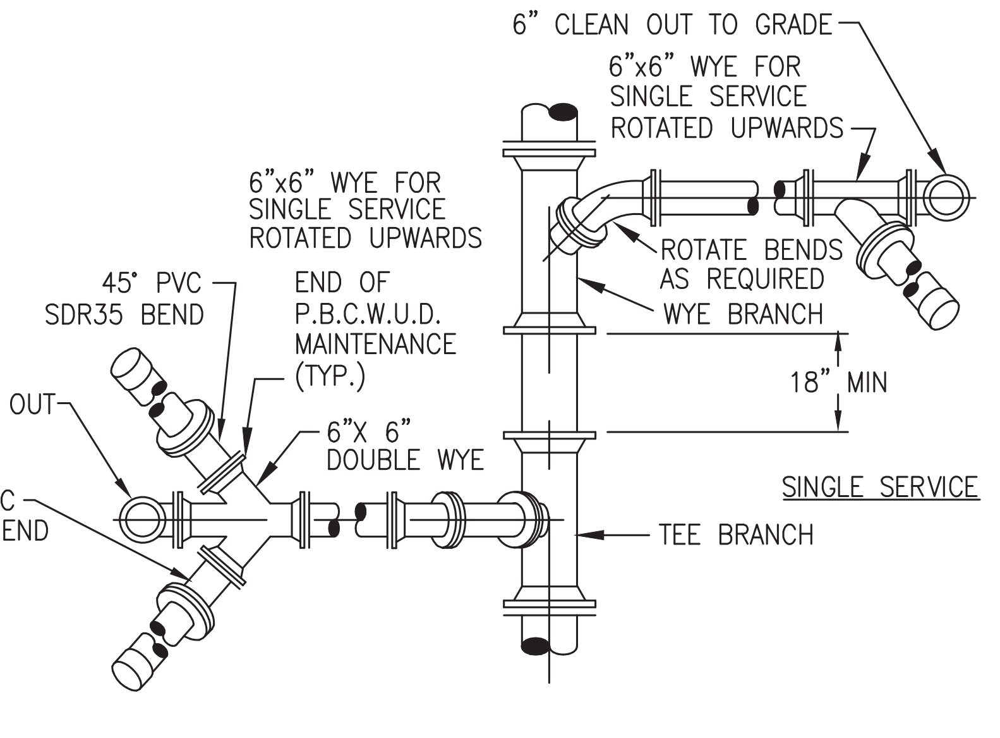
NOTES:

1. U.S. FOUNDRY NO. 7621 REVERSIBLE HANDHOLE RING AND COVER OR APPROVED EQUAL SHALL BE USED, COVER TO BE CAST WITH "S" IN THE CENTER.
2. CLEAN OUT REQUIRED ON ALL SERVICES AT PROPERTY LINE.
3. STANDARD WYE SHALL BE USED AT CLEAN OUT.
4. ALL PIPE AND CLENOUT SHALL BE 6" MIN.

CLEAN OUT 9


FINISHED GRADE
12"–18"
6" CLEAN OUT
45° PVC SDR35 BEND
6" SDR 26 W/CAP
45°
6"x6"x6" DOUBLE WYE FOR DOUBLE SERVICE

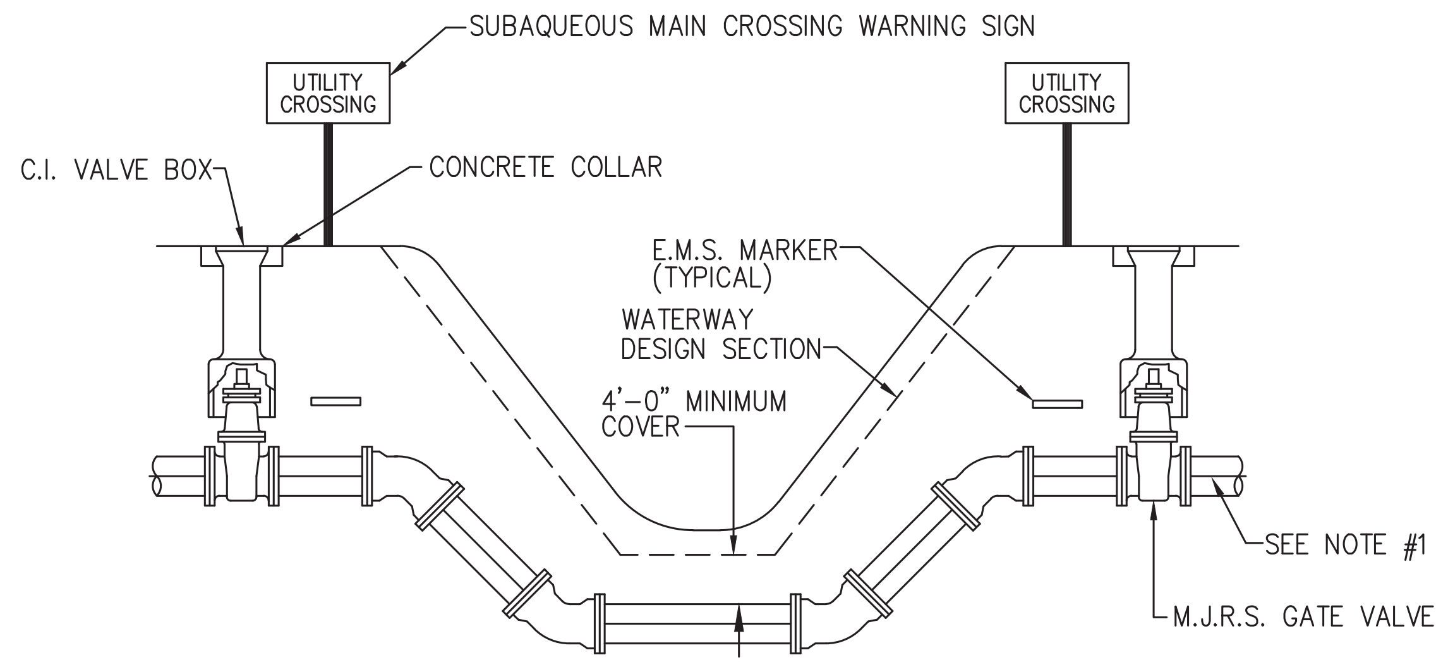
DOUBLE SERVICE


6" CLEAN OUT TO GRADE
6"x6" WYE FOR SINGLE SERVICE ROTATED UPWARDS
6"x6" WYE FOR SINGLE SERVICE ROTATED UPWARDS
45° PVC SDR35 BEND
END OF P.B.C.W.U.D. MAINTENANCE (TYP.)
ROTATE BENDS AS REQUIRED
WYE BRANCH
18" MIN
6"X 6" DOUBLE WYE
TEE BRANCH

DOUBLE SERVICE

SINGLE SERVICE

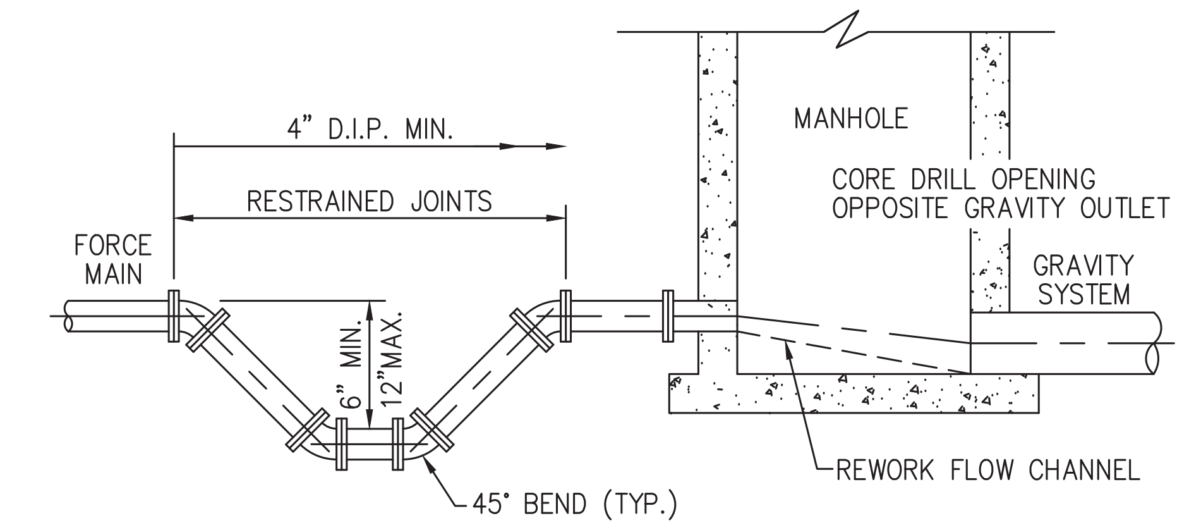
TYPICAL WASTEWATER SERVICE CONNECTION 10


SUBAQUEOUS MAIN CROSSING WARNING SIGN
UTILITY CROSSING
UTILITY CROSSING
C.I. VALVE BOX
CONCRETE COLLAR
E.M.S. MARKER (TYPICAL)
WATERWAY DESIGN SECTION
4'–0" MINIMUM COVER
SEE NOTE #1
M.J.R.S. GATE VALVE

NOTE:

1. GATE VALVES TO BE TIED BACK TO THE NEAREST FITTING ON EACH SIDE. ALL TIE RODS AND BOLTS SHALL BE COATED WITH KOPPERS 300–M OR APPROVED EQUAL.
2. FITTINGS SHALL BE RESTRAINED WITH MEGALUGS AND TIE RODS BETWEEN OFFSET FITTINGS. THRUST BLOCKS SHALL ONLY BE USED WITH THE APPROVAL OF THE ENGINEER.

SUBAQUEOUS CROSSING 11


4" D.I.P. MIN.
RESTRAINED JOINTS
FORCE MAIN
6" MIN.
12" MAX.
45° BEND (TYP.)
MANHOLE
CORE DRILL OPENING OPPOSITE GRAVITY OUTLET
GRAVITY SYSTEM
REWORK FLOW CHANNEL

NOTES:

1. INVERT LEVEL OF FORCE MAIN AT POINT OF ENTRY SHALL BE 6" ABOVE INVERT OF MANHOLE.

FORCE MAIN ENTERING MANHOLE 12

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2020 KIMLEY–HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954–535–5100 FAX: 954–739–2247
WWW.KIMLEY–HORN.COM CA 00000696

GEORGE BALABAN
No 74543
STATE OF FLORIDA
DATE:

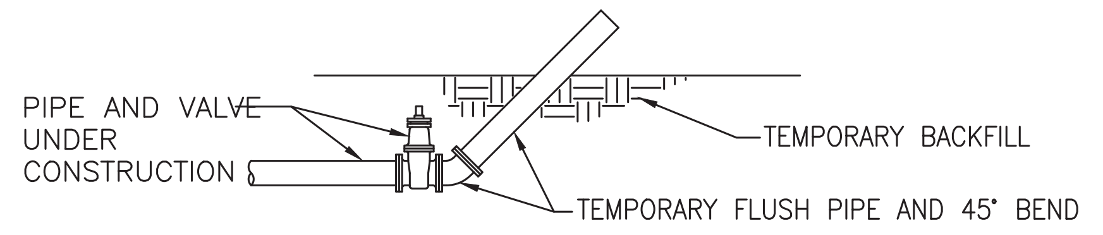
KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

CITY OF LAKE
WORTH BEACH
SEWER DETAILS

OFFICE/INDUSTRIAL
FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA
LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-303

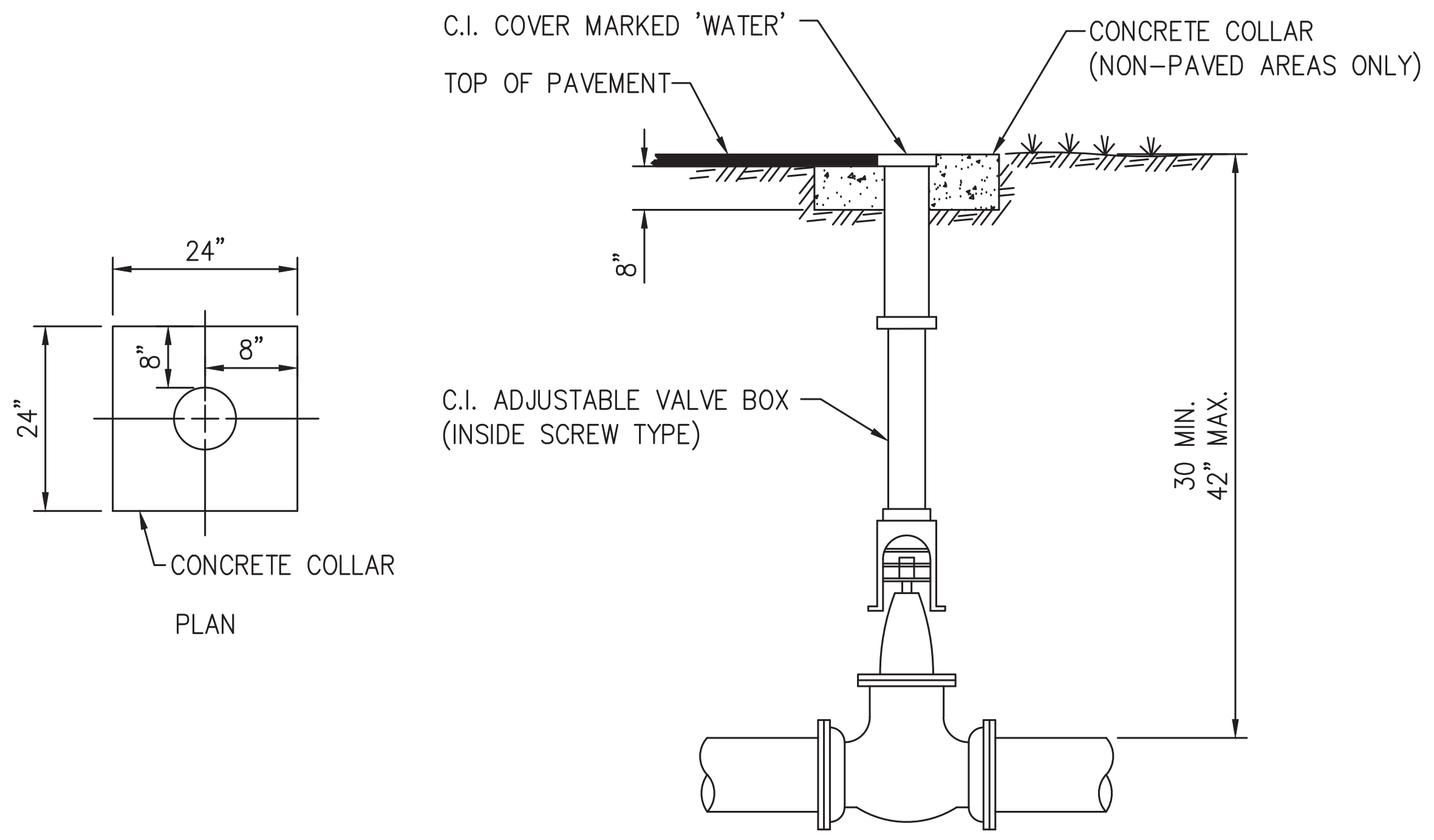
Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C–303 CITY OF LAKE WORTH BEACH SEWER DETAILS November 12, 2020 03:26:47pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C–302 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument 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.


PIPE AND VALVE UNDER CONSTRUCTION
TEMPORARY BACKFILL
TEMPORARY FLUSH PIPE AND 45° BEND

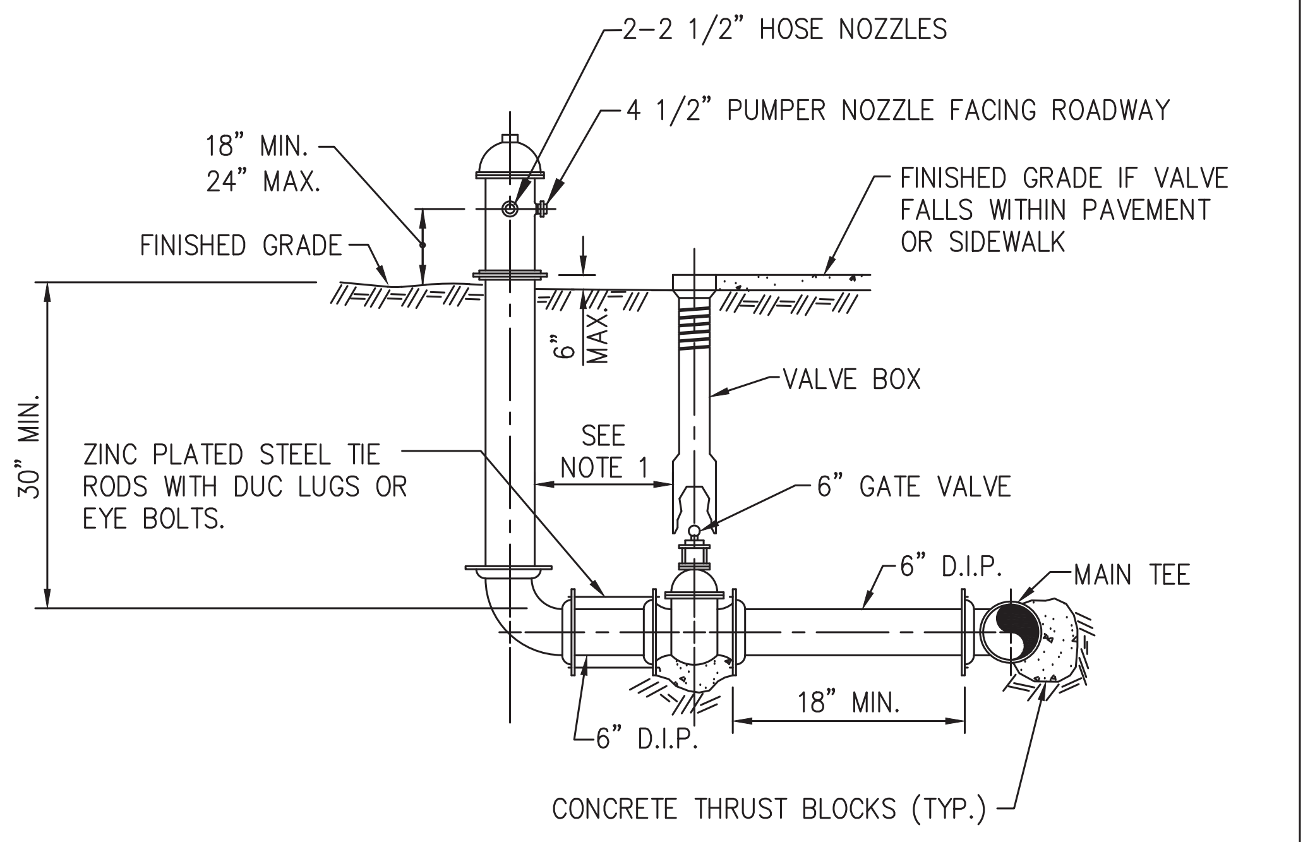
NOTES:

1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE PIGGED. CANNON FLUSHING MAY BE USED IN ADDITION TO PIGGING ONLY WITH THE APPROVAL OF THE ENGINEER. CANNON FLUSHING SHALL ACHIEVE A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE, FITTINGS, ETC.
2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE ENGINEER OF SUCH INTENDED WATER USE.
5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED UTILITY PERSONNEL.
6. PIGGING AND FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE ENGINEER.
7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY PIGGED AND FLUSHED, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.

PIGGING AND CANNON FLUSHING 1

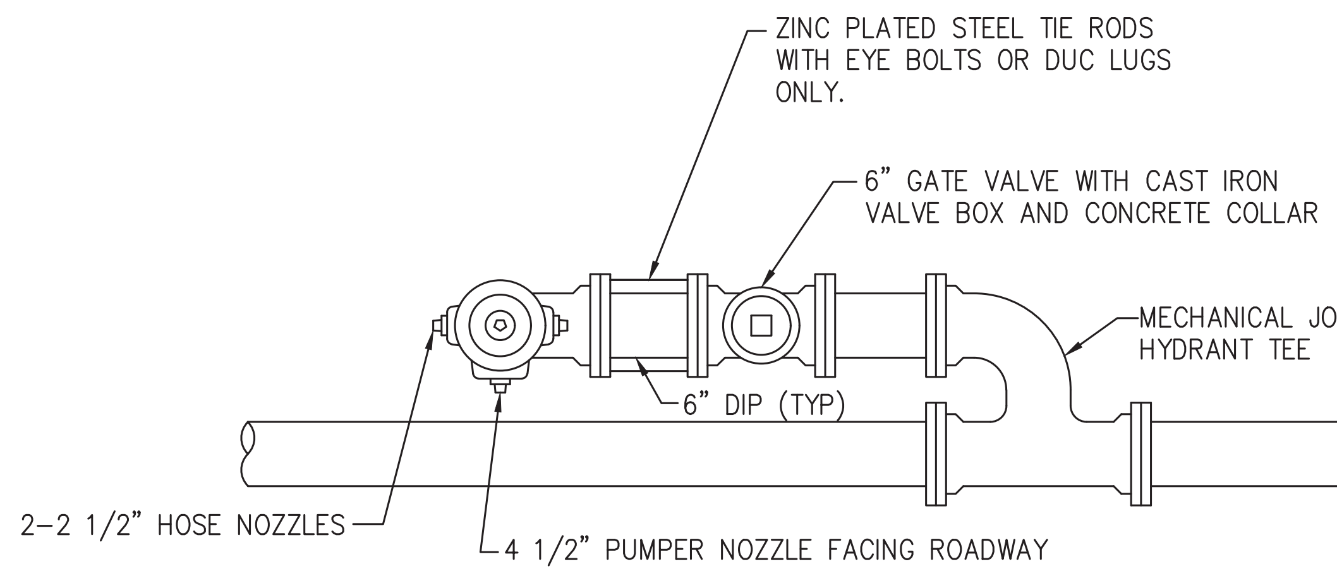

24"
8"
8"
24"
CONCRETE COLLAR
PLAN
C.I. COVER MARKED 'WATER'
TOP OF PAVEMENT
8"
CONCRETE COLLAR (NON-PAVED AREAS ONLY)
C.I. ADJUSTABLE VALVE BOX (INSIDE SCREW TYPE)
30 MIN.
42" MAX.

VALVE SETTING 2


2-2 1/2" HOSE NOZZLES
4 1/2" PUMPER NOZZLE FACING ROADWAY
18" MIN.
24" MAX.
FINISHED GRADE
FINISHED GRADE IF VALVE FALLS WITHIN PAVEMENT OR SIDEWALK
6" MAX.
VALVE BOX
30" MIN.
ZINC PLATED STEEL TIE RODS WITH DUC LUGS OR EYE BOLTS.
SEE NOTE 1
6" GATE VALVE
6" D.I.P.
MAIN TEE
18" MIN.
6" D.I.P.
CONCRETE THRUST BLOCKS (TYP.)

NOTE:
1. ON RUNS LONGER THAN 60' ANOTHER VALVE IS REQUIRED.
2. MEGALUGS REQUIRED ON ALL JOINTS.

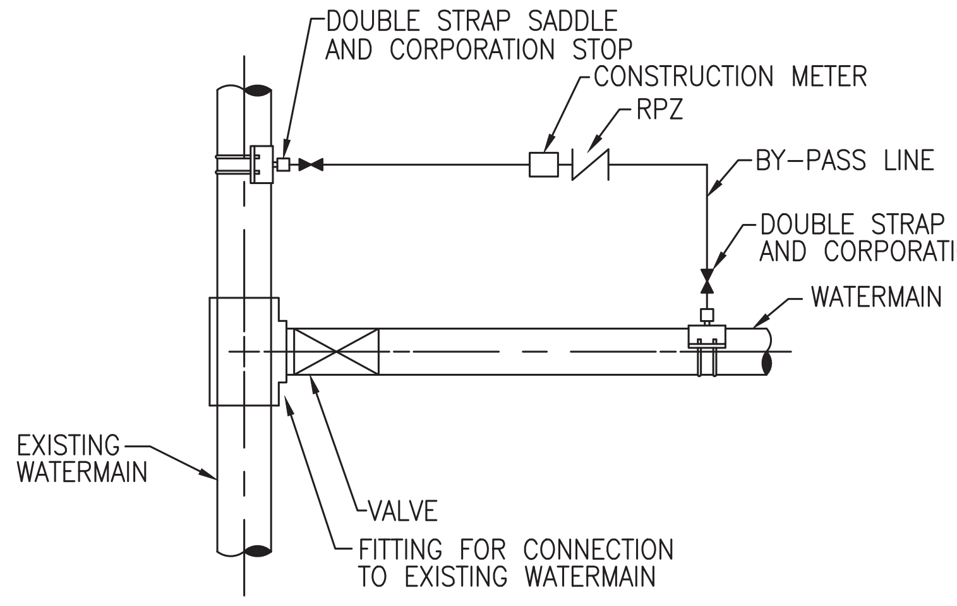
FIRE HYDRANT INSTALLATION 3


ZINC PLATED STEEL TIE RODS WITH EYE BOLTS OR DUC LUGS ONLY.
6" GATE VALVE WITH CAST IRON VALVE BOX AND CONCRETE COLLAR
MECHANICAL JOINT HYDRANT TEE
6" DIP (TYP)
2-2 1/2" HOSE NOZZLES
4 1/2" PUMPER NOZZLE FACING ROADWAY

NOTE:
MEGALUGS REQUIRED ON ALL JOINTS.

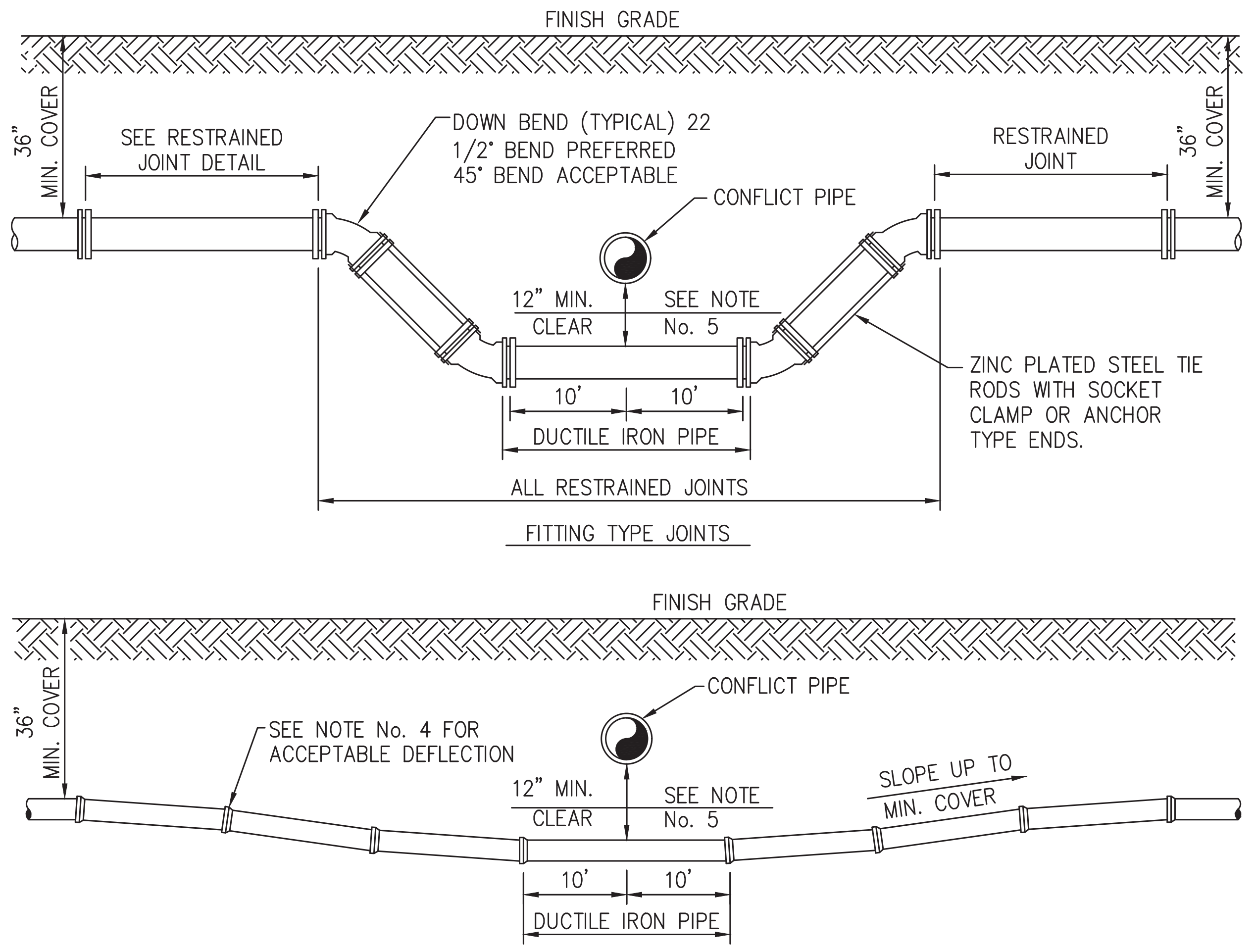
George Balaban
Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:16:02 -05'00'

FIRE HYDRANT INSTALLATION PARALLEL TO WATERMAIN 4


DOUBLE STRAP SADDLE AND CORPORATION STOP
CONSTRUCTION METER
RPZ
BY-PASS LINE
DOUBLE STRAP SADDLE AND CORPORATION STOP
WATERMAIN
EXISTING WATERMAIN
VALVE
FITTING FOR CONNECTION TO EXISTING WATERMAIN

1. PERFORM PRESSURE AND LEAKAGE TEST ON TAPPING SLEEVE AND TAPPING VALVE (WHEN USED) PRIOR TO MAKING TAP.
2. ALL WATER FOR FLUSHING, PRESSURE AND LEAKAGE TESTS, AND BACTERIOLOGICAL CLEARANCE MUST BE FROM THE "BY-PASS" LINE WITH CHECK VALVE IN PLACE.
3. DURING ALL PRESSURE AND LEAKAGE TESTS, BOTH CORPORATION STOPS ON THE "BY-PASS" LINE MUST BE CLOSED.
4. THE UTILITY COMPANY SUPPLYING THE WATER SHALL BE NOTIFIED BEFORE FILLING AND FLUSHING. ONLY THE UTILITY COMPANY SHALL OPERATE THE VALVES.
5. DOUBLE STRAP SADDLES ARE NOT REQUIRED WHEN CONNECTING TO DUCTILE IRON PIPE.
6. CONNECT PRESSURE TEST PUMP TO SERVICE LINE OR BLOWOFF. NO EXTRA TAPS ARE PERMITTED UNLESS NEITHER A SERVICE LINE OR BLOWOFF ARE PRESENT IN THE TEST SECTION.
7. WATERMAIN VALVES CANNOT BE OPENED UNTIL THE ENTIRE SYSTEM HAS BEEN CLEARED BY THE GOVERNING PERMITTING AGENCY.
8. REMOVE THE "BY-PASS" LINE AFTER THE MAIN HAS BEEN CLEARED. PLUG CORPORATION STOP WITH THREADED BRASS PLUG.
9. INSTALL ADJUSTABLE CAST IRON VALVE BOX ON THE VALVE.

DOUBLE VALVE CONNECTION 5

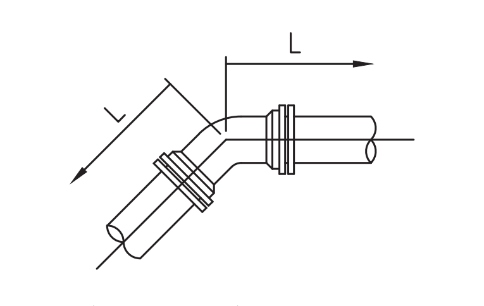

FINISH GRADE
36" MIN. COVER
SEE RESTRAINED JOINT DETAIL
DOWN BEND (TYPICAL) 22 1/2° BEND PREFERRED 45° BEND ACCEPTABLE
CONFLICT PIPE
RESTRAINED JOINT
36" MIN. COVER
12" MIN. CLEAR
SEE NOTE No. 5
10'
10'
DUCTILE IRON PIPE
ZINC PLATED STEEL TIE RODS WITH SOCKET CLAMP OR ANCHOR TYPE ENDS.
ALL RESTRAINED JOINTS
FITTING TYPE JOINTS
FINISH GRADE
36" MIN. COVER
CONFLICT PIPE
SEE NOTE No. 4 FOR ACCEPTABLE DEFLECTION
12" MIN. CLEAR
SEE NOTE No. 5
SLOPE UP TO MIN. COVER
10'
10'
DUCTILE IRON PIPE

DEFLECTION TYPE JOINTS
PREFERRED METHOD

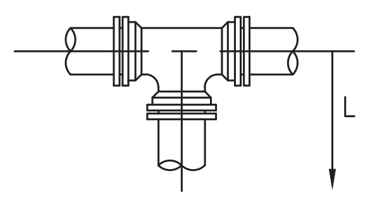
NOTES:

1. THERE SHALL BE, IN ALL CASES, A MINIMUM OF 12" SEPARATION BETWEEN WATER MAINS AND FORCE MAINS.
2. WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
3. FITTINGS SHALL BE RESTRAINED WITH MEGALUGS AND TIE RODS BETWEEN OFFSET FITTINGS. THRUST BLOCKS SHALL ONLY BE USED WITH THE APPROVAL OF THE ENGINEER.
4. THE DEFLECTION TYPE CROSSING IS PREFERRED. SEE SPECIFICATIONS AND MANUFACTURER'S SUBMITTAL FOR MAXIMUM DEFLECTION ALLOWED.
5. A MINIMUM OF 12" VERTICAL SEPARATION BETWEEN WATER MAINS AND STORM SEWERS SHALL BE MAINTAINED. WHERE THIS IS NOT POSSIBLE WATER MAIN SHALL BE D.I.P. WITH NO LESS THAN 6" SEPARATION.

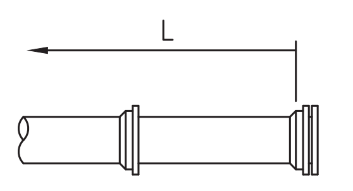
PRESSURE PIPE CONFLICT 6



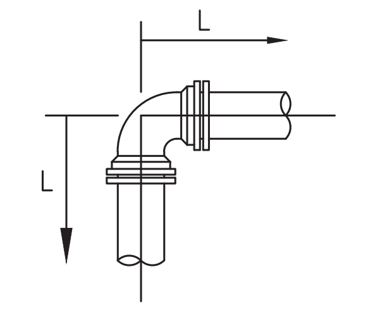
11 1/4°, 22 1/2° & 45° BENDS



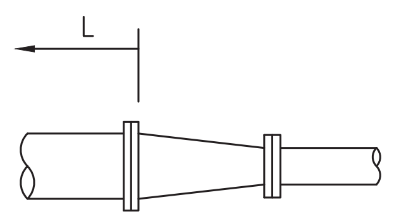
TEE



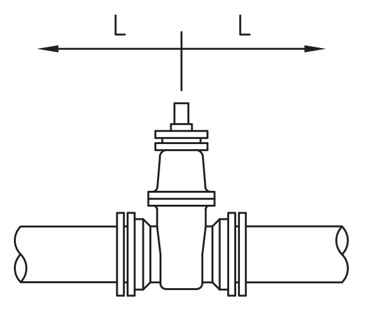
DEAD END



90° BEND



REDUCER



VALVE

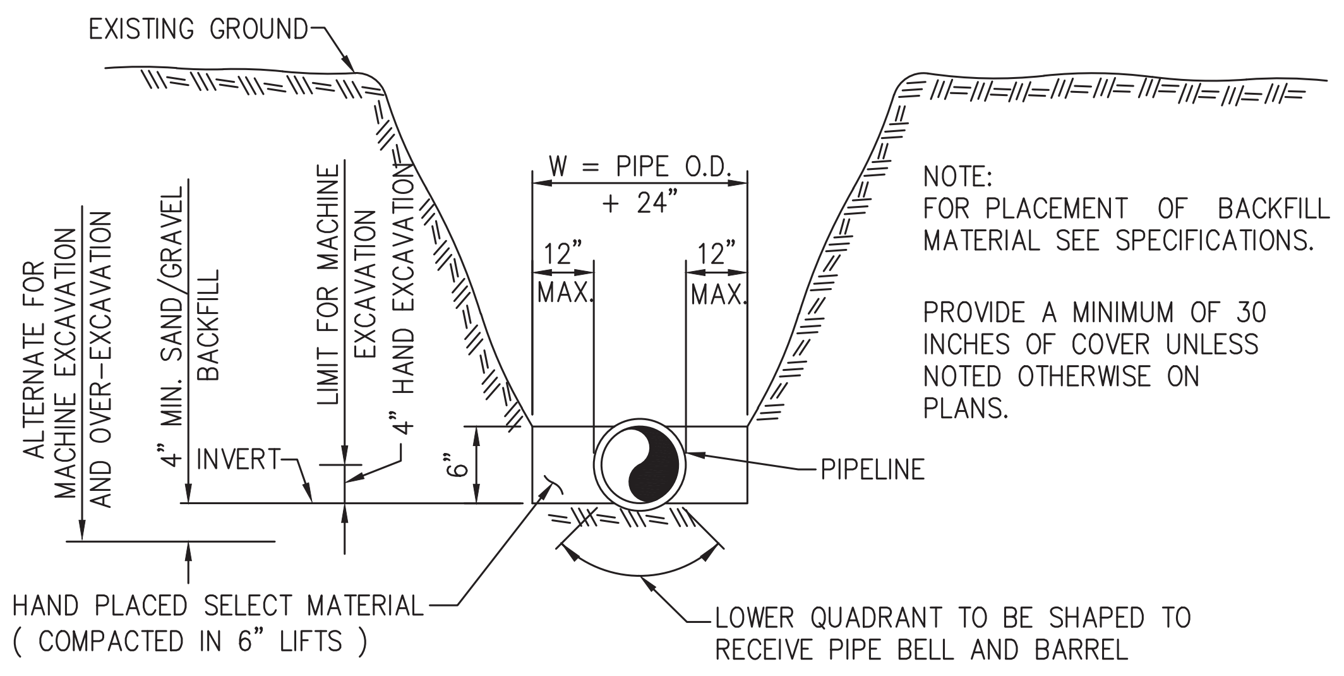
NOTES:

1. LENGTH 'L' IS IN FEET.
2. RESTRAINED LENGTHS ARE BASED ON THE FOLLOWING:
   .A. 150 PSI TEST PRESSURE
   .B. MIN. 30" COVER.
   .C. PVC – PIPE SIZES 4" – 12". DI – PIPE SIZES 4" – 48". PVC/DI
   .D. SANDY SOIL.
   .E. SAFETY FACTOR OF 1.5.
3. LENGTH 'L' SHOWN IN THE TABLE TO BE RESTRAINED IN THE DIRECTION OF THE ARROWS.

RESTRAINED PIPE JOINTS 7

FITTING TYPE		PIPE SIZE													
		4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"
90° HORIZ. BEND		17/14	24/20	31/25	36/30	42/35	40	44	49	53	61	71	80	89	96
45° HORIZ. BEND		7/6	10/8	13/11	15/12	18/15	16	18	20	22	25	29	33	37	40
22.5° HORIZ. BEND		3/3	5/4	6/5	7/6	8/7	8	9	10	10	12	14	16	18	19
11.25° HORIZ. BEND		2/1	2/2	3/3	4/3	4/3	4	4	5	5	6	7	8	9	10
45° VERT. OFFSET	UPPER BEND	19/12	27/17	35/22	42/27	50/32	36	40	44	48	55	67	77	86	95
	LOWER BEND	5/4	7/6	9/8	11/9	13/11	12	14	15	17	19	23	26	29	32
22.5° VERT. OFFSET	UPPER BEND	9/6	13/8	17/11	20/13	24/15	17	19	21	23	27	32	37	41	46
	LOWER BEND	2/2	3/3	4/4	5/4	6/5	6	7	7	8	9	11	13	14	15
11.25° VERT. OFFSET	UPPER BEND	5/3	6/4	8/5	10/6	12/7	9	10	11	12	13	16	18	21	23
	LOWER BEND	1/1	2/1	2/2	3/2	3/3	3	3	4	4	5	5	6	7	8
DEAD END AND INLINE VALVE		46/30	65/42	85/54	102/65	120/76	86	97	107	117	136	162	186	208	229
TEE (BRANCH RESTRAINT)	4"x	21/13	8/5	1/1	1/1	1/1	–	–	–	–	–	–	–	–	–
	6"x	–	39/25	30/19	20/13	10/7	1	1	1	1	1	1	–	–	–
	8"x	–	–	59/37	51/32	44/28	23	17	12	6	1	1	1	–	–
	10"x	–	–	–	75/47	69/44	40	35	31	26	17	1	1	–	–
	12"x	–	–	–	–	93/59	55	52	48	44	36	23	8	1	1
	14"x	–	–	–	–	–	69	66	63	59	53	41	29	15	1
	16"x	–	–	–	–	–	–	79	76	74	68	58	47	35	23
	18"x	–	–	–	–	–	–	–	89	86	81	73	63	53	42
	20"x	–	–	–	–	–	–	–	–	99	94	86	78	69	59
	24"x	–	–	–	–	–	–	–	–	–	117	111	104	97	88
	30"x	–	–	–	–	–	–	–	–	–	–	143	137	132	125
	36"x	–	–	–	–	–	–	–	–	–	–	–	167	162	157
	42"x	–	–	–	–	–	–	–	–	–	–	–	–	188	184
	48"x	–	–	–	–	–	–	–	–	–	–	–	–	–	209
REDUCER (LARGER PIPE RESTRAINT)	6"x	34/21	–	–	–	–	–	–	–	–	–	–	–	–	–
	8"x	61/39	34/23	–	–	–	–	–	–	–	–	–	–	–	–
	10"x	83/53	63/40	34/22	–	–	–	–	–	–	–	–	–	–	–
	12"x	104/66	87/55	64/40	59/37	–	–	–	–	–	–	–	–	–	–
	14"x	–	69	56	54	22	–	–	–	–	–	–	–	–	–
	16"x	–	82	71	69	41	22	–	–	–	–	–	–	–	–
	18"x	–	–	84	82	58	41	22	–	–	–	–	–	–	–
	20"x	–	–	–	95	73	58	41	22	–	–	–	–	–	–
	24"x	–	–	–	–	100	88	74	58	41	–	–	–	–	–
	30"x	–	–	–	–	134	125	114	102	88	57	–	–	–	–
	36"x	–	–	–	–	–	–	–	–	127	102	56	–	–	–
	42"x	–	–	–	–	–	–	–	–	159	138	101	54	–	–
	48"x	–	–	–	–	–	–	–	–	–	–	138	99	53	–

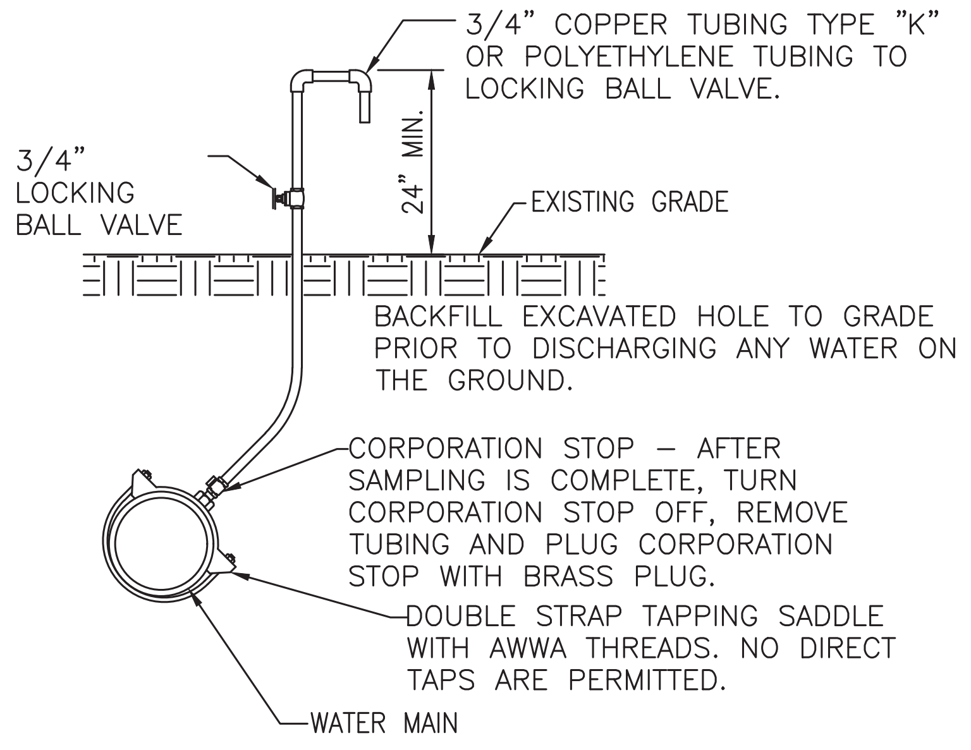
MECHANICAL THRUST RESTRAINT – MINIMUM PIPE LENGTHS 8


EXISTING GROUND
ALTERNATE FOR MACHINE EXCAVATION AND OVER-EXCAVATION
4" MIN. SAND/GRAVEL BACKFILL
LIMIT FOR MACHINE EXCAVATION
4" HAND EXCAVATION
W = PIPE O.D. + 24"
12" MAX.
12" MAX.
INVERT
6"
PIPELINE
HAND PLACED SELECT MATERIAL (COMPACTED IN 6" LIFTS)
LOWER QUADRANT TO BE SHAPED TO RECEIVE PIPE BELL AND BARREL

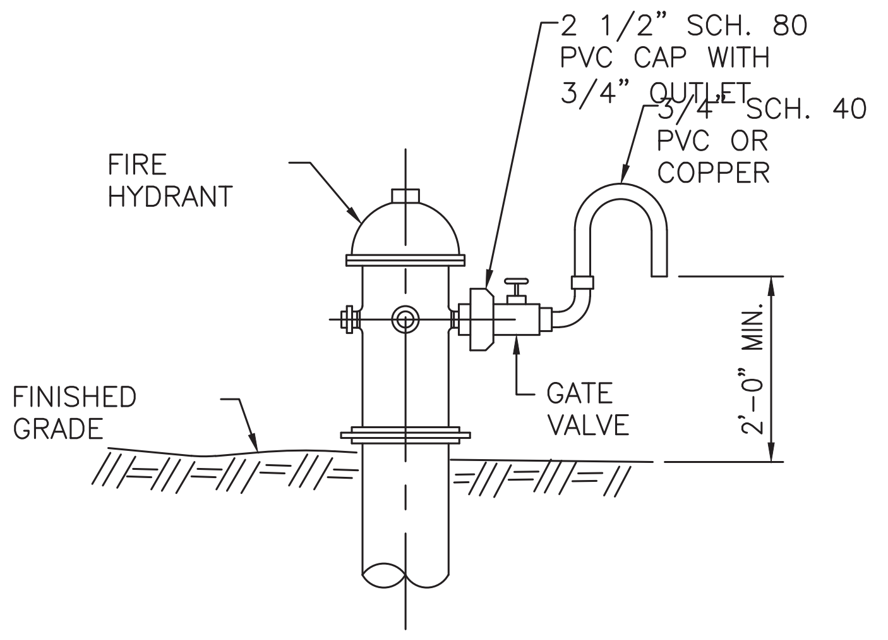
NOTE:
FOR PLACEMENT OF BACKFILL MATERIAL SEE SPECIFICATIONS.

PROVIDE A MINIMUM OF 30 INCHES OF COVER UNLESS NOTED OTHERWISE ON PLANS.

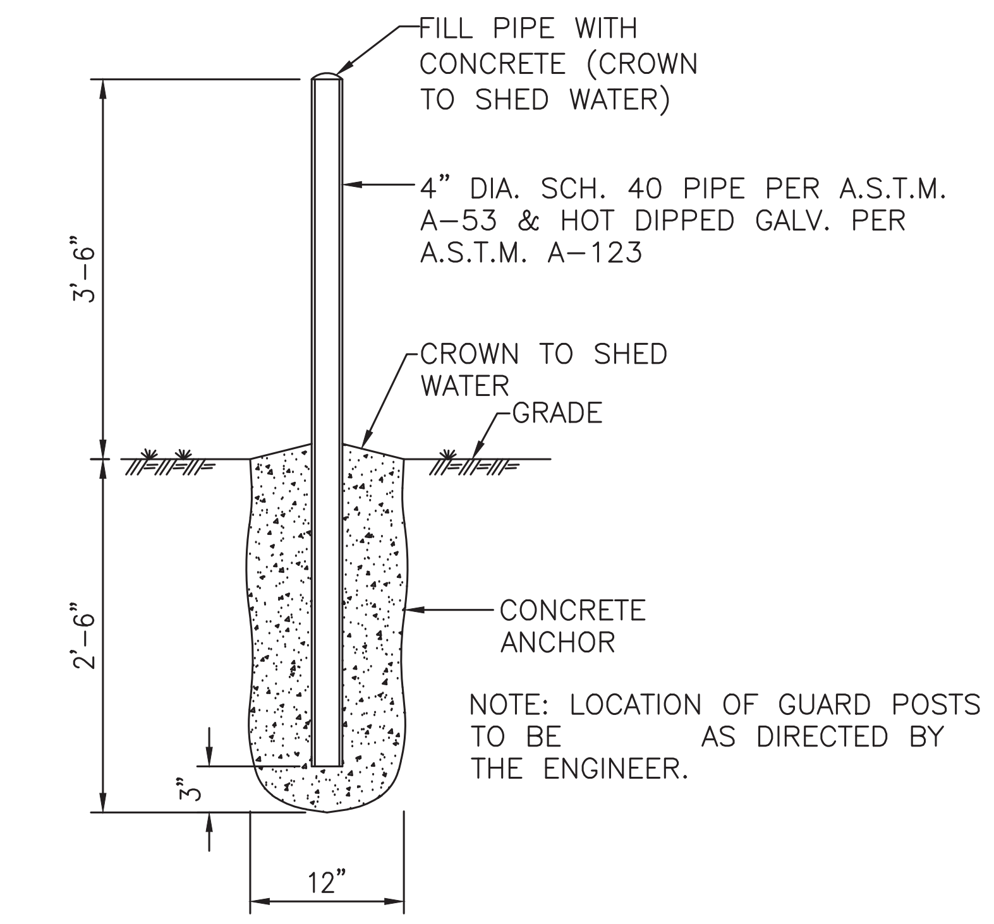
TRENCHING 9


3/4" COPPER TUBING TYPE "K" OR POLYETHYLENE TUBING TO LOCKING BALL VALVE.
3/4" LOCKING BALL VALVE
24" MIN.
EXISTING GRADE
BACKFILL EXCAVATED HOLE TO GRADE PRIOR TO DISCHARGING ANY WATER ON THE GROUND.
CORPORATION STOP – AFTER SAMPLING IS COMPLETE, TURN CORPORATION STOP OFF, REMOVE TUBING AND PLUG CORPORATION STOP WITH BRASS PLUG.
DOUBLE STRAP TAPPING SADDLE WITH AWWA THREADS. NO DIRECT TAPS ARE PERMITTED.
WATER MAIN

SAMPLING POINT 10


2 1/2" SCH. 80 PVC CAP WITH 3/4" OUTLET
3/4" SCH. 40 PVC OR COPPER
FIRE HYDRANT
FINISHED GRADE
GATE VALVE
2'-0" MIN.

SAMPLE POINT ON FIRE HYDRANT 11


FILL PIPE WITH CONCRETE (CROWN TO SHED WATER)
4" DIA. SCH. 40 PIPE PER A.S.T.M. A-53 & HOT DIPPED GALV. PER A.S.T.M. A-123
3'-6"
CROWN TO SHED WATER
GRADE
2'-6"
CONCRETE ANCHOR
3"
12"

NOTE: LOCATION OF GUARD POSTS TO BE AS DIRECTED BY THE ENGINEER.

GUARD POST 12

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
No 74543
DATE:

KHA PROJECT 143189000
DATE 9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

CITY OF LAKE WORTH BEACH WATER DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

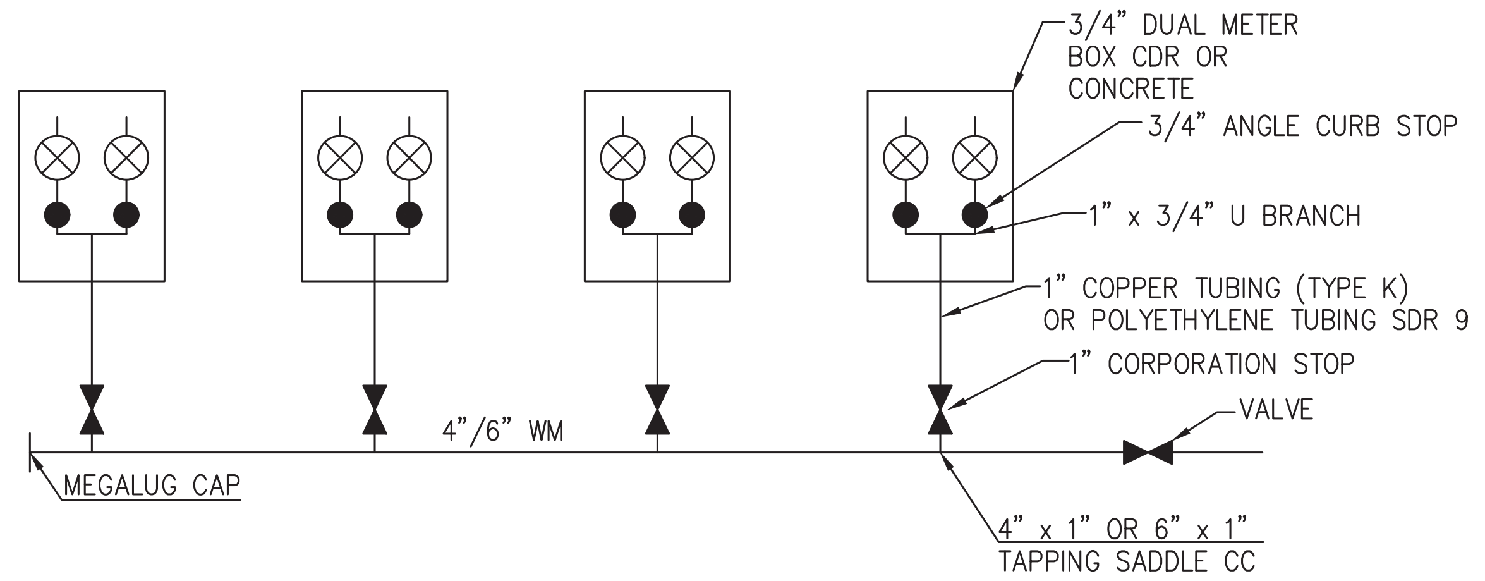
SHEET NUMBER
C-304

Plotted By:Benalcazar, Marcel Sheet Set:DOKA LAKE WORTH Layout:C-304 CITY OF LAKE WORTH BEACH WATER DETAILS November 12, 2020 03:26:50pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-302 UTILITY DETAILS.dwg
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.

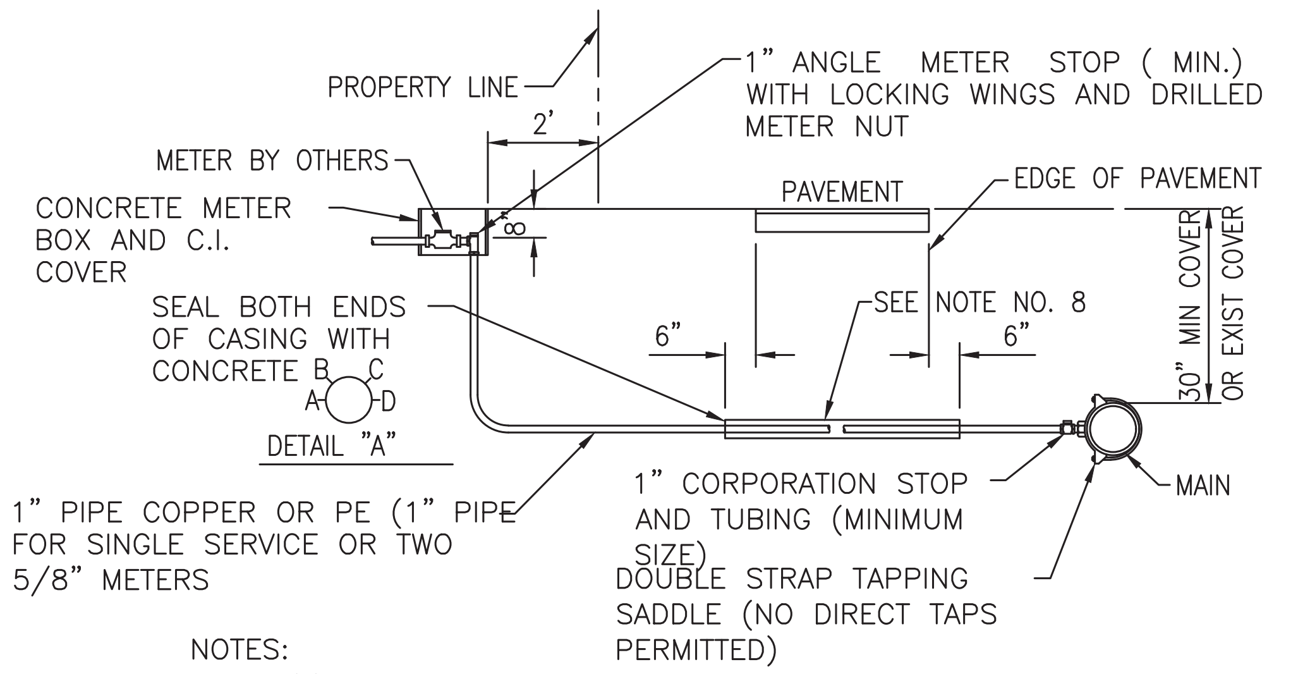
MULTIPLE WATER SERVICES
1

TAPPING SADDLE 1" – JCM 402-CC
MULLERS PARTS MATERIAL OR A. Y. McDONALD ONLY

	MULLER	A. Y. McDONALD
CORPORATION STOP	H-15008	XXX
CURB STOP	B-25170	XXX
ANGLE CURB STOP	H-14265	XXX
METER COUPLING – 3/4" OR 1"	H-10890	XXX
U-BRANCH CONNECTION – 1'x 3/4"x 6 1/2"	H-15365	XXX


3/4" DUAL METER BOX CDR OR CONCRETE
3/4" ANGLE CURB STOP
1" x 3/4" U BRANCH
1" COPPER TUBING (TYPE K) OR POLYETHYLENE TUBING SDR 9
1" CORPORATION STOP
VALVE
4"/6" WM
MEGALUG CAP
4" x 1" OR 6" x 1" TAPPING SADDLE CC

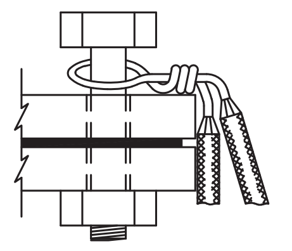
WATER SERVICE FOR 1" OR 2" PIPE
2


PROPERTY LINE
2'
1" ANGLE METER STOP (MIN.) WITH LOCKING WINGS AND DRILLED METER NUT
METER BY OTHERS
CONCRETE METER BOX AND C.I. COVER
PAVEMENT
EDGE OF PAVEMENT
8"
SEAL BOTH ENDS OF CASING WITH CONCRETE
B
C
A
D
DETAIL "A"
SEE NOTE NO. 8
6"
6"
30" MIN COVER OR EXIST COVER
1" PIPE COPPER OR PE (1" PIPE FOR SINGLE SERVICE OR TWO 5/8" METERS
1" CORPORATION STOP AND TUBING (MINIMUM SIZE)
MAIN
DOUBLE STRAP TAPPING SADDLE (NO DIRECT TAPS PERMITTED)

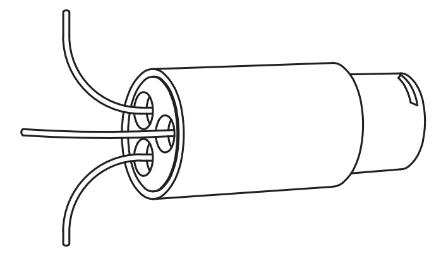
NOTES:

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18". OFFSET AND AT 45° FROM THE CENTERLINE (ON MAINS WITH GREATER THAN 30" OF COVER. SEE DETAIL 'A').
2. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISH GRADE..
3. COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS. POLYETHYLENE TUBING SHALL BE SDR 9, COPPER SIZE TUBING.
4. ROTATE THE CORPORATION STOP SO THAT THE OPERATING NUT IS ACTUATED FROM THE VERTICAL POSITION RATHER THAN THE HORIZONTAL.
5. COPPER SERVICE LINES SHALL BE CONTINUOUS FROM CORPORATION STOP TO ANGLE METER STOP WITH NO FITTINGS IN BETWEEN.
6. TAPPING SADDLES AND CORPORATION STOPS SHALL HAVE CC THREADS.
7. SERVICE CASING SHALL NOT BE INSTALLED BY WATER JETTING UNDER ROADWAY.
8. GALVANIZED CASING REQUIRED FOR JACK AND BORE IN MOST CASES, SCHEDULE 40 PVC MAY BE USED WITH THE APPROVAL OF THE ENGINEER . CASING SHOULD EXTEND SIX (6) FEET BEYOND EDGE OF PAVEMENT AND SIZED AS FOLLOWS
   - A. 1" SERVICE USE 2" CASING
   - B. 2" SERVICE USE 4" CASING
9. METER BOX TO BE SET TWO FEET BEHIND PROPERTY LINE AND TWO FEET INSIDE SIDE PROPERTY LINE ON EITHER SIDE OF PROPERTY.
10. PIPING LAYOUT SHOWN IS TYPICAL FOR 2" SERVICE.

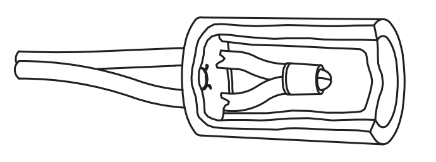
TRACE WIRE
3



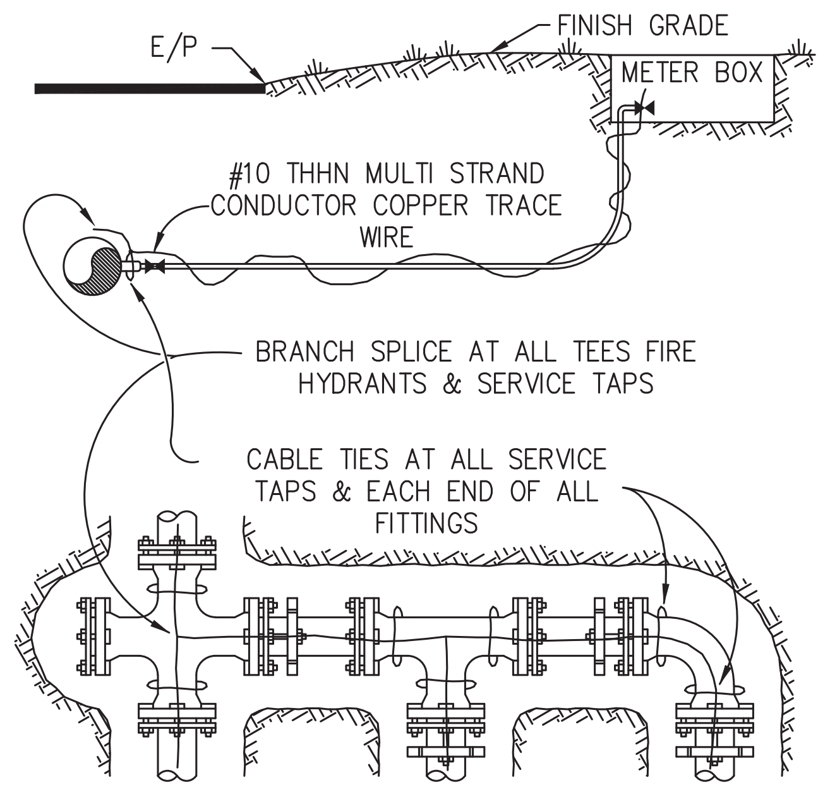
TO PUT CONTINUOUS TRACE WIRE UNDER BOLT, FIRST LOOSEN BOLT, THEN STRIP 3" MIN., WRAP ONCE AROUND BOLT, 1 TWIST, 2 WRAPS. DO "NOT CUT WIRE" TIGHTEN BOLT AFTER WRAPPING TRACE WIRE AROUND THE BOLT.



DETAIL OF THREE (3) WIRE SPLICE



CUTAWAY DETAIL OF A TWO (2) WIRE SPLICE


E/P
FINISH GRADE
METER BOX
#10 THHN MULTI STRAND CONDUCTOR COPPER TRACE WIRE
BRANCH SPLICE AT ALL TEES FIRE HYDRANTS & SERVICE TAPS
CABLE TIES AT ALL SERVICE TAPS & EACH END OF ALL FITTINGS

NOTES:

1. TRACE WIRE IS REQUIRED ON ALL NON METALLIC PIPE.
2. INCLUDE ALL COST OF MATERIAL & LABOR IN PRICE OF PIPE.
3. CONTRACTOR IS RESPONSIBLE FOR CONTINUITY OF ALL TRACE WIRE.
4. WIRE SPLICE CONNECTORS SHALL BE DRY-CON DIRECT BURY LUG BY KING INNOVATIONS, DS-500 DRI-SPLICE BY SPEARS OR DIRECT BURY PRODUCTS BY 3M

WATER AND SEWER SEPARATION CRITERIA
4

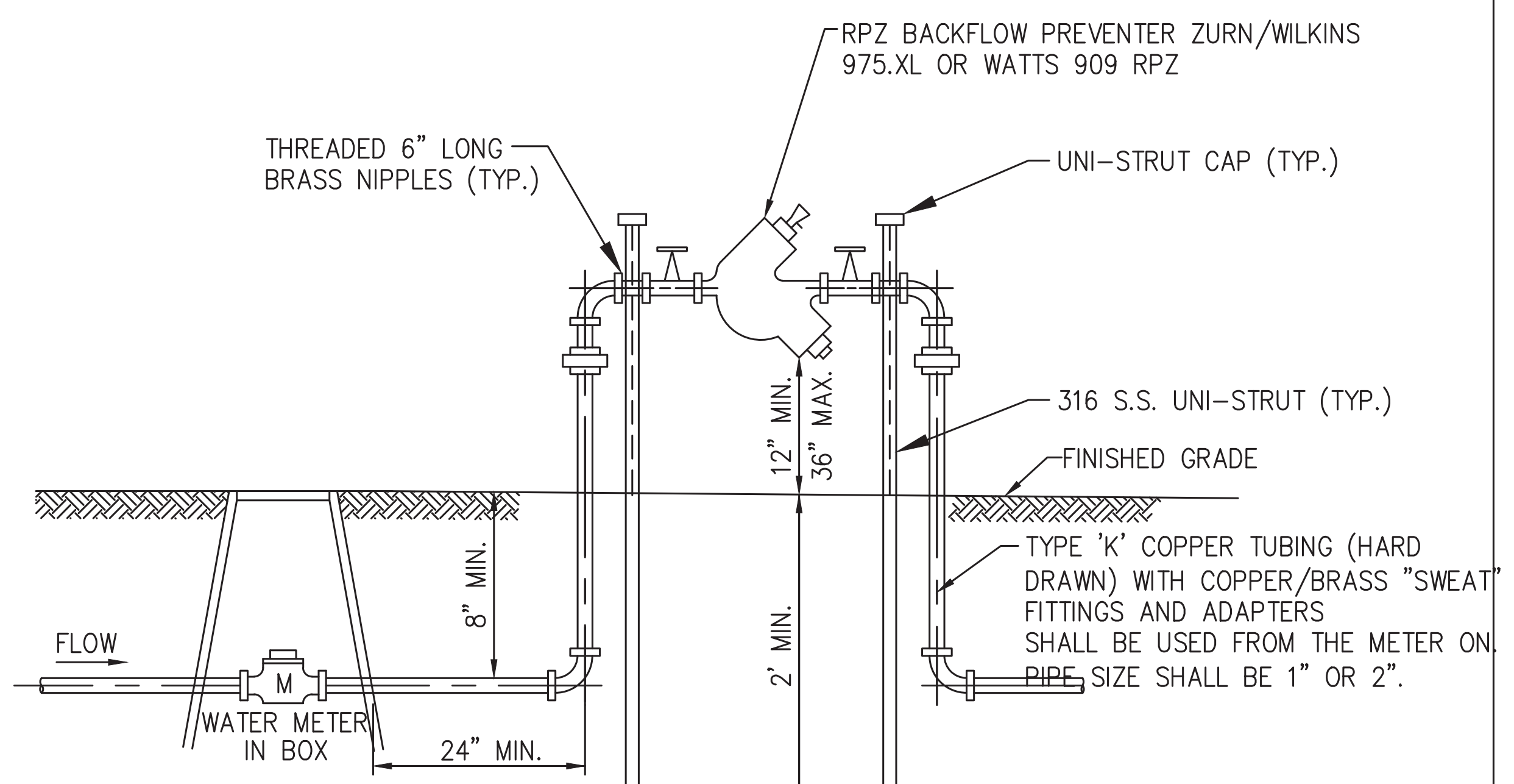
HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATERMAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

1. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED SEWER, STORMWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 2-610, F.A.C.
2. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
3. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAINS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATERMAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
4. NEW OR RELOCATED UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED 'ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM' AS DEFINED IN SECTION 381.0065(2), F.S. AND RULE 64E-6.002, F.A.C.

VERTICAL SEPARATION BETWEEN UNDERGROUND WATERMAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCEMAINS, AND RECLAIMED WATER PIPELINES.

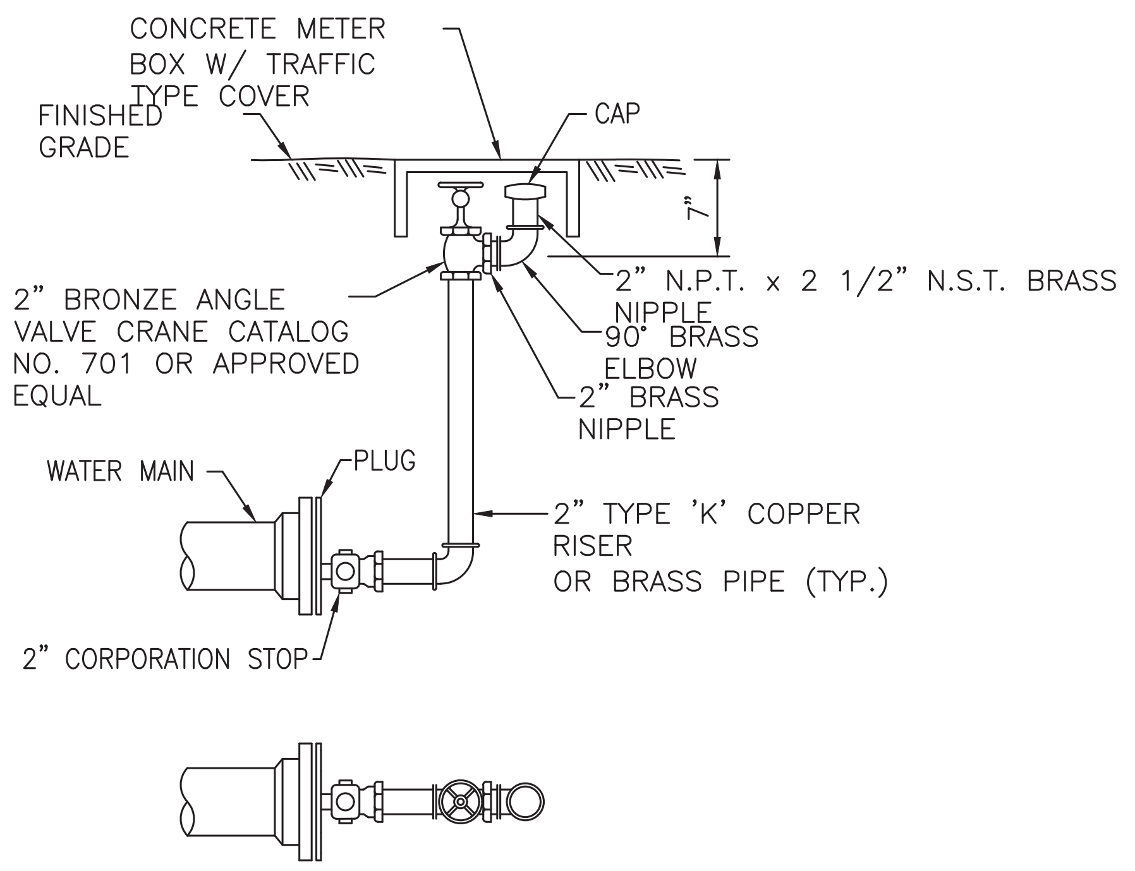
1. NEW OR RELOCATED UNDERGROUND WATERMAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST SIX INCHES, AND PREFERABLY TWELVE INCHES ABOVE, OR AT LEAST TWELVE INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.
2. NEW OR RELOCATED UNDERGROUND WATERMAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST TWELVE INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.
3. AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPH 1 AND 2 ABOVE, ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATERMAIN JOINTS SHALL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATERMAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWER, STORM SEWERS, STORMWATER FORCEMAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCEMAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER III 62-610, F.A.C.

BACKFLOW PREVENTION DEVICE – 3/4" TO 2"
5


RPZ BACKFLOW PREVENTER ZURN/WILKINS 975.XL OR WATTS 909 RPZ
THREADED 6" LONG BRASS NIPPLES (TYP.)
UNI-STRUT CAP (TYP.)
316 S.S. UNI-STRUT (TYP.)
FINISHED GRADE
12" MIN.
36" MAX.
8" MIN.
2' MIN.
TYPE 'K' COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS "SWEAT" FITTINGS AND ADAPTERS SHALL BE USED FROM THE METER ON. PIPE SIZE SHALL BE 1" OR 2".
FLOW
M
WATER METER IN BOX
24" MIN.

NOTE:
PROVIDE GUARD SHACK STEEL ENCLOSURE WITH GREEN VINYL COATING FOR PROTECTION.

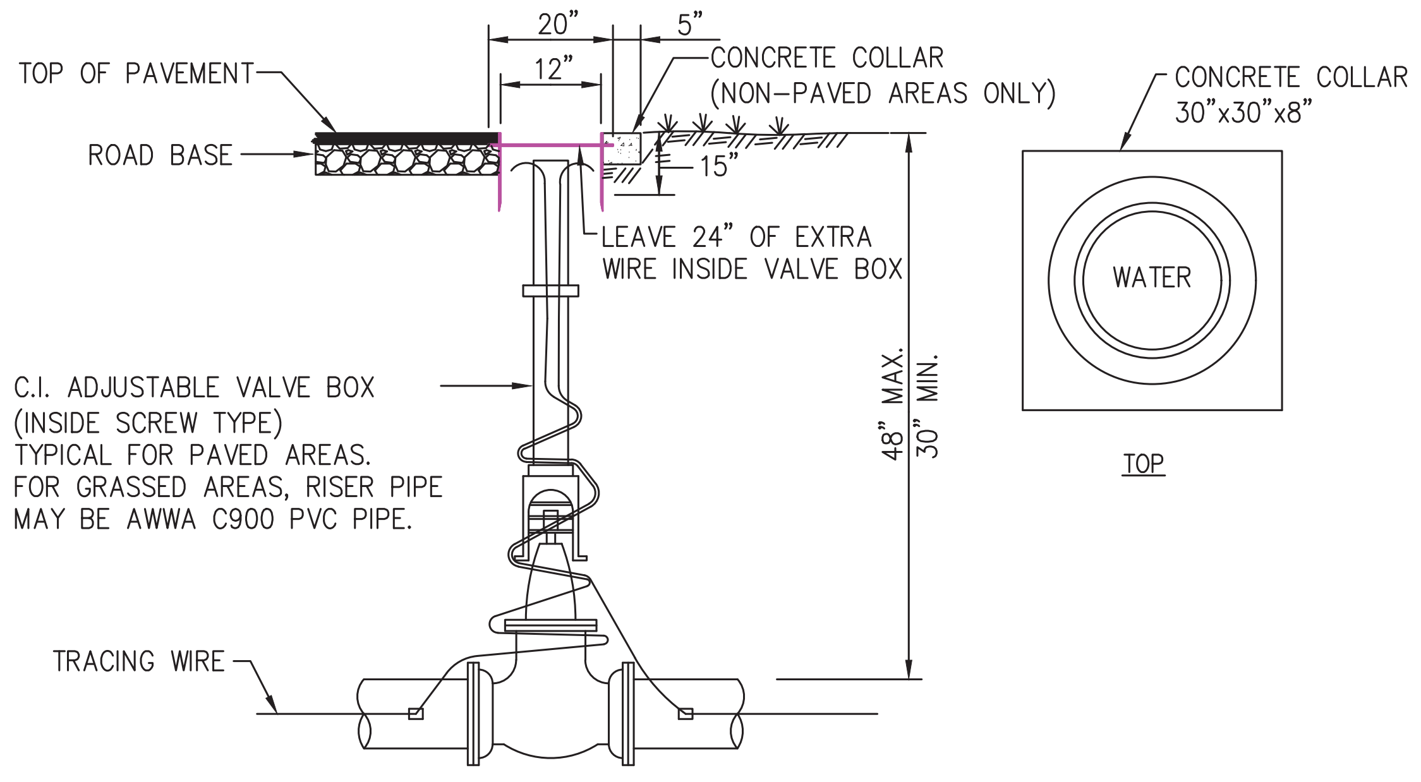
2" TERMINAL BLOWOFF
6


CONCRETE METER BOX W/ TRAFFIC TYPE COVER
FINISHED GRADE
CAP
7"
2" N.P.T. x 2 1/2" N.S.T. BRASS NIPPLE
90° BRASS ELBOW
2" BRASS NIPPLE
2" BRONZE ANGLE VALVE CRANE CATALOG NO. 701 OR APPROVED EQUAL
WATER MAIN
PLUG
2" TYPE 'K' COPPER RISER OR BRASS PIPE (TYP.)
2" CORPORATION STOP

NOTES:

1. GALVANIZED PIPING AND FITTINGS SHALL NOT BE USED ON TEMPORARY OR PERMANENT BLOWOFFS.
2. MEGALUG RESTRAINED JOINTS REQUIRED ON WATERMAIN.

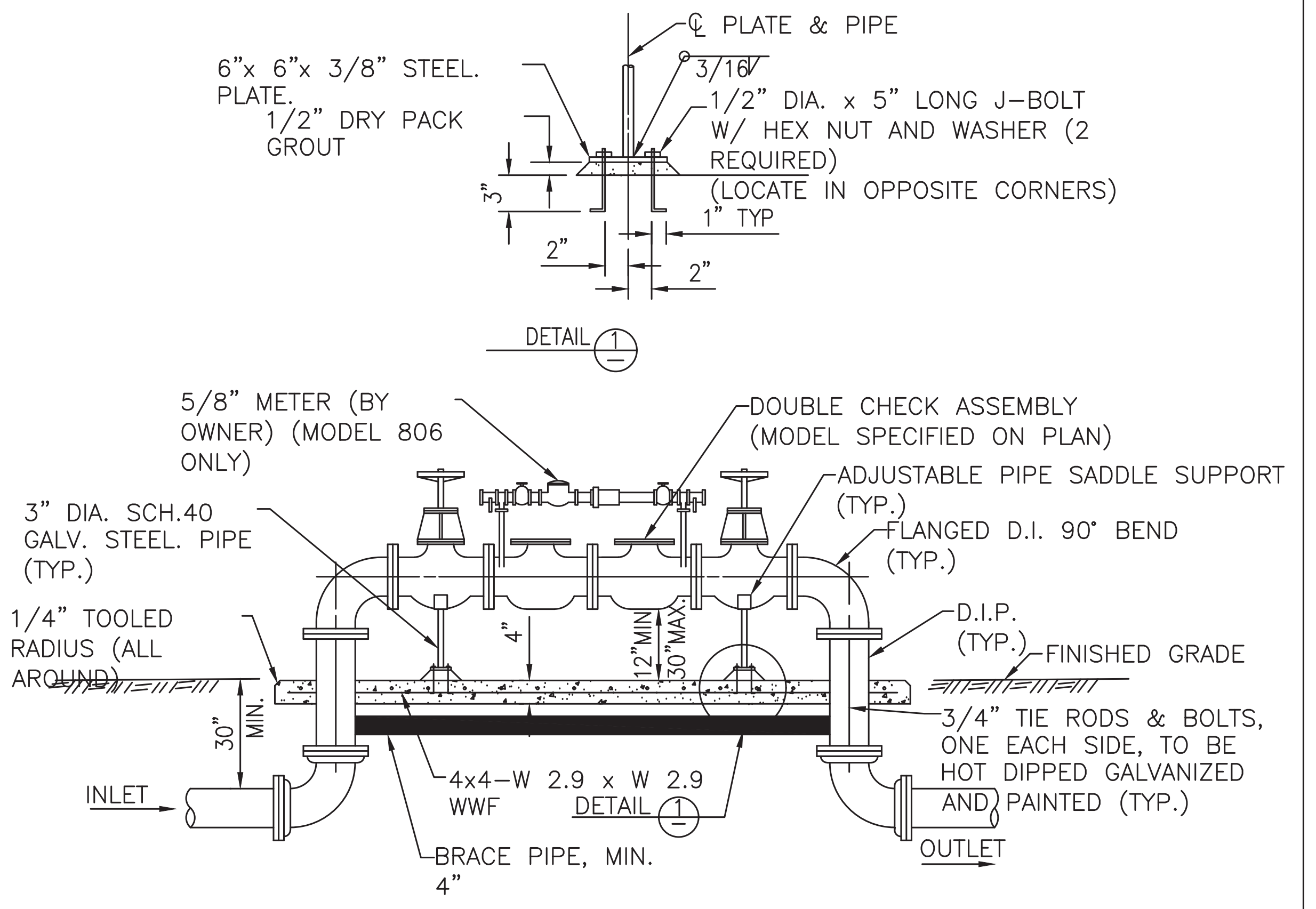
VALVE SETTING
7


20"
12"
5"
TOP OF PAVEMENT
CONCRETE COLLAR (NON-PAVED AREAS ONLY)
ROAD BASE
15"
LEAVE 24" OF EXTRA WIRE INSIDE VALVE BOX
48" MAX.
30" MIN.
C.I. ADJUSTABLE VALVE BOX (INSIDE SCREW TYPE) TYPICAL FOR PAVED AREAS. FOR GRASSED AREAS, RISER PIPE MAY BE AWWA C900 PVC PIPE.
TRACING WIRE
CONCRETE COLLAR 30"x30"x8"
WATER
TOP

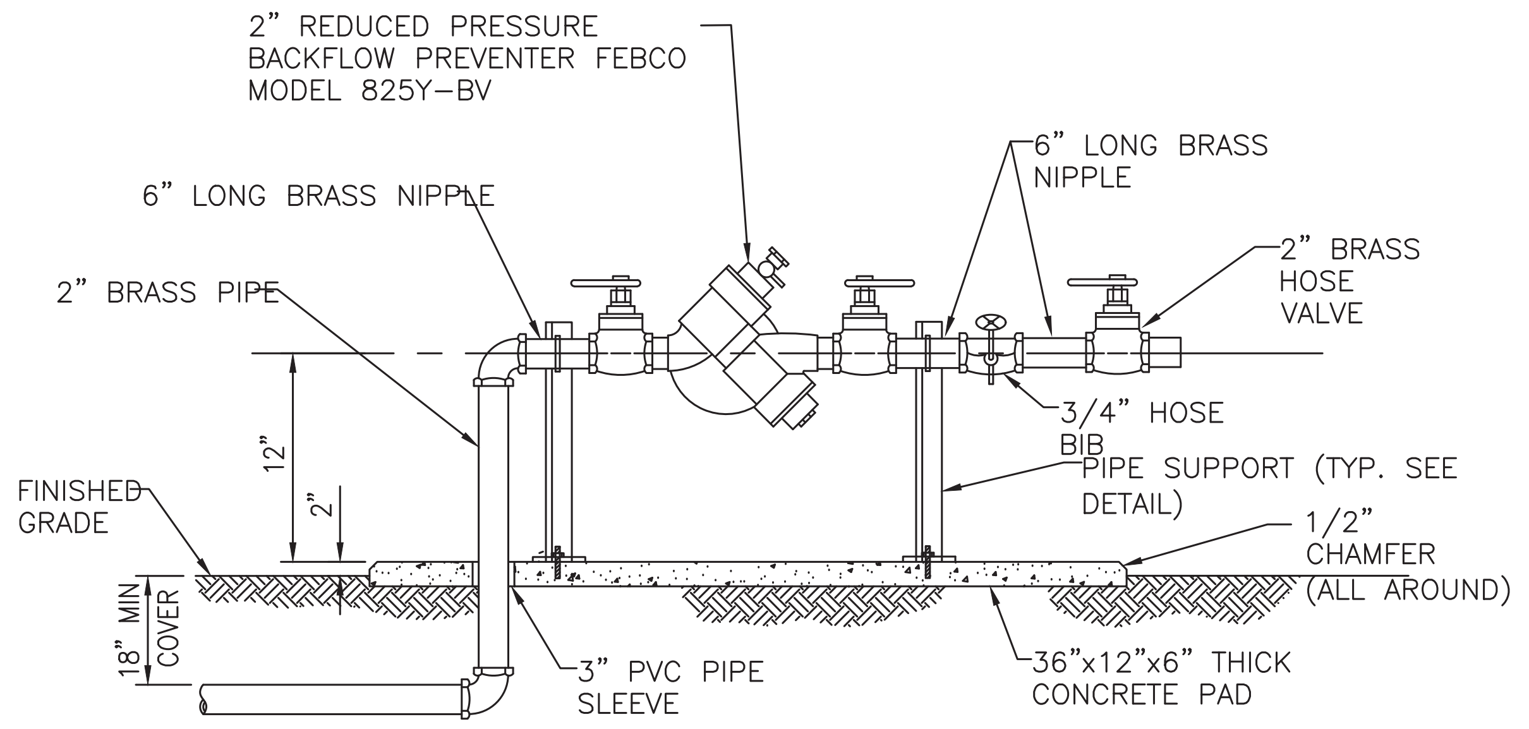
NOTES:

1. TOP OF LID MUST BE FLUSH WITH PAVEMENT OR CONCRETE COLLAR.
2. WHEN VALVE IS DEEPER THAN 36" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT TO 24" OF FINISHED GRADE. EXTENSION MUST BE SET SCREW TYPE AND ATTACHED TO OPERATING NUT.
3. OUTSIDE BOX SHALL BE UNITED STATES FOUNDRY NO. 7630 WITH TYPE FD LID. LID SHALL BE CAST WITH THE WORDS: "WATER" OR "RAW WATER".
4. USE NYLON CABLE TIES TO SECURE TRACE WIRE TO OUTSIDE OF VALVE EXTENSION AND CABLE TIE BEHIND EACH BELL.
5. SEE NOTES ON DETAIL NO. 3, THIS SHEET.

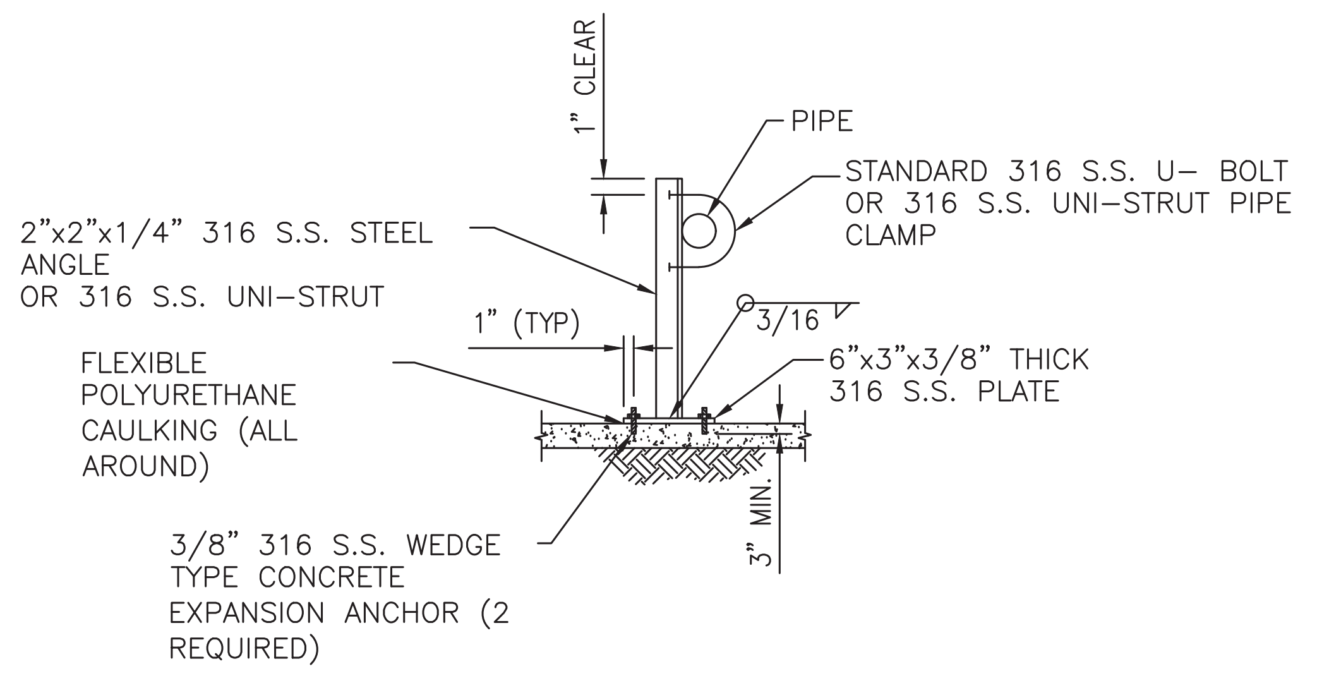
DOUBLE CHECK VALVE ASSEMBLY
9


℄ PLATE & PIPE
3/16
6"x 6"x 3/8" STEEL. PLATE.
1/2" DRY PACK GROUT
1/2" DIA. x 5" LONG J-BOLT W/ HEX NUT AND WASHER (2 REQUIRED) (LOCATE IN OPPOSITE CORNERS)
1" TYP
3"
2"
2"
DETAIL 1
5/8" METER (BY OWNER) (MODEL 806 ONLY)
DOUBLE CHECK ASSEMBLY (MODEL SPECIFIED ON PLAN)
ADJUSTABLE PIPE SADDLE SUPPORT (TYP.)
3" DIA. SCH.40 GALV. STEEL. PIPE (TYP.)
FLANGED D.I. 90° BEND (TYP.)
1/4" TOOLED RADIUS (ALL AROUND)
4"
12" MIN
30" MAX.
D.I.P. (TYP.)
FINISHED GRADE
30" MIN.
3/4" TIE RODS & BOLTS, ONE EACH SIDE, TO BE HOT DIPPED GALVANIZED AND PAINTED (TYP.)
INLET
4x4-W 2.9 x W 2.9 WWF
DETAIL 1
BRACE PIPE, MIN. 4"
OUTLET

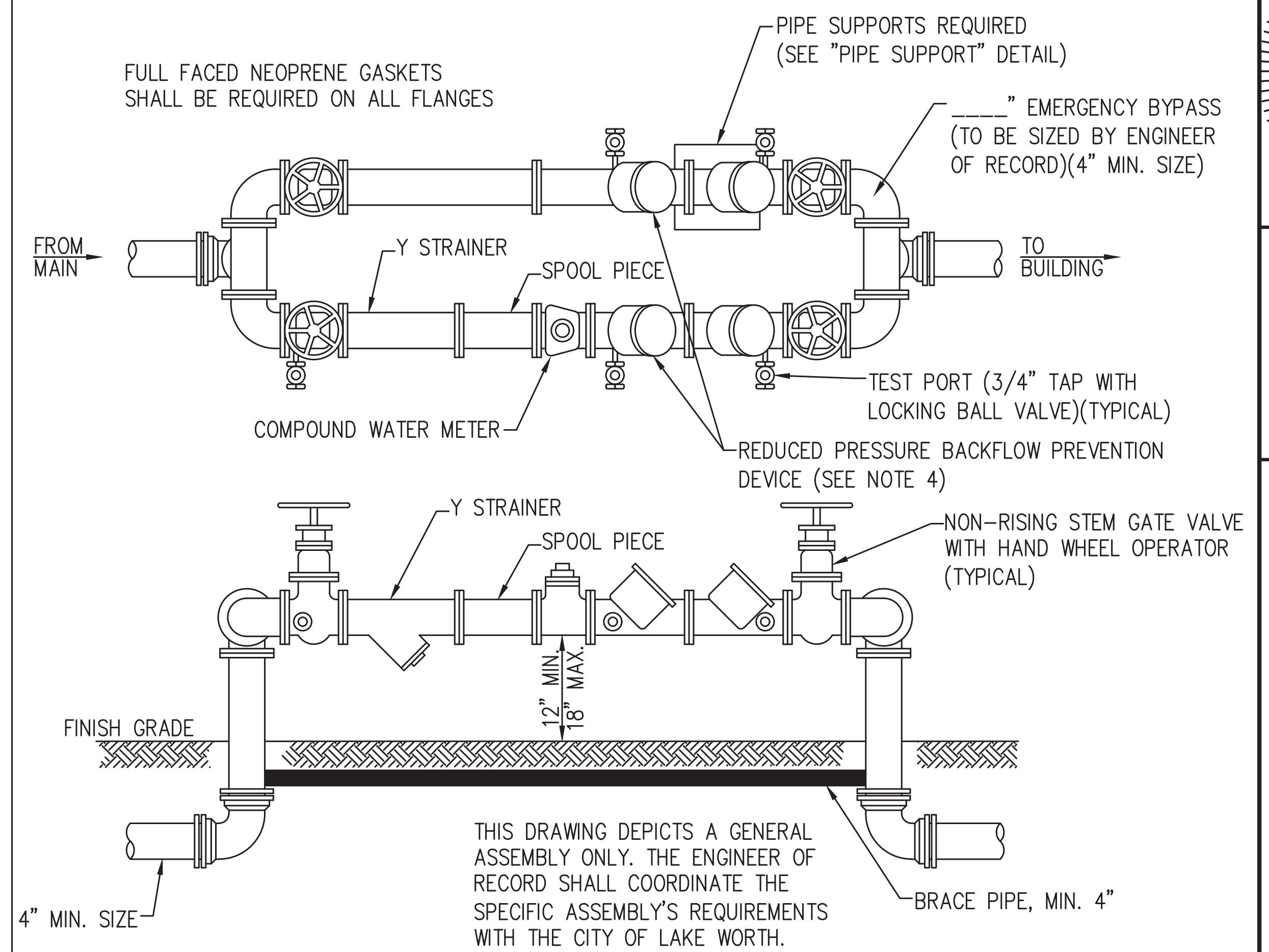
BACKFLOW PREVENTER WITH HOSE BIB
10


2" REDUCED PRESSURE BACKFLOW PREVENTER FEBCO MODEL 825Y-BV
6" LONG BRASS NIPPLE
6" LONG BRASS NIPPLE
2" BRASS PIPE
2" BRASS HOSE VALVE
3/4" HOSE BIB
PIPE SUPPORT (TYP. SEE DETAIL)
12"
2"
FINISHED GRADE
1/2" CHAMFER (ALL AROUND)
18" MIN COVER
3" PVC PIPE SLEEVE
36"x12"x6" THICK CONCRETE PAD

PIPE SUPPORT
11


1" CLEAR
PIPE
STANDARD 316 S.S. U- BOLT OR 316 S.S. UNI-STRUT PIPE CLAMP
2"x2"x1/4" 316 S.S. STEEL ANGLE OR 316 S.S. UNI-STRUT
1" (TYP)
3/16
6"x3"x3/8" THICK 316 S.S. PLATE
FLEXIBLE POLYURETHANE CAULKING (ALL AROUND)
3" MIN.
3/8" 316 S.S. WEDGE TYPE CONCRETE EXPANSION ANCHOR (2 REQUIRED)

3" AND LARGER METER INSTALLATION AND BACKFLOW ASSEMBLY
12


PIPE SUPPORTS REQUIRED (SEE "PIPE SUPPORT" DETAIL)
FULL FACED NEOPRENE GASKETS SHALL BE REQUIRED ON ALL FLANGES
____" EMERGENCY BYPASS (TO BE SIZED BY ENGINEER OF RECORD)(4" MIN. SIZE)
FROM MAIN
TO BUILDING
Y STRAINER
SPOOL PIECE
TEST PORT (3/4" TAP WITH LOCKING BALL VALVE)(TYPICAL)
COMPOUND WATER METER
REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (SEE NOTE 4)
Y STRAINER
SPOOL PIECE
NON-RISING STEM GATE VALVE WITH HAND WHEEL OPERATOR (TYPICAL)
12" MIN.
18" MAX.
FINISH GRADE
4" MIN. SIZE
BRACE PIPE, MIN. 4"

THIS DRAWING DEPICTS A GENERAL ASSEMBLY ONLY. THE ENGINEER OF RECORD SHALL COORDINATE THE SPECIFIC ASSEMBLY'S REQUIREMENTS WITH THE CITY OF LAKE WORTH.

NOTES:

1. MECHANICAL JOINT FITTINGS SHALL BE REQUIRED UNDERGROUND AND FLANGED FITTINGS FOR ABOVE GROUND USE, NO UNIFLANGES PERMITTED.
2. PAINT THE ABOVE GROUND ASSEMBLY IN ACCORDANCE WITH CONSTRUCTION STANDARD, AFTER MANUFACTURERS RECOMMENDED SURFACE PREP IS COMPLETED. DO NOT PAINT OVER NAME/SERIAL PLATE, STAINLESS STEEL OR BRASS FITTINGS.
3. PROTECTIVE PIPE STANCHIONS ARE REQUIRED.
4. APPROVED REDUCED PRESSURE BACKFLOW PREVENTER WITH SILICONE RUBBER SEAL RINGS OR DISKS:
   - A. WILKENS MODEL 375 S, 4" TO 10"
   - B. AMES MODEL 4000 SSSR, 4" TO 10"
   - C. AMES MODEL 4000 SESR, 4" TO 10"
   - D. AMES MODEL 4000 SSI, 4" TO 10"
5. 3" METER REQUIRES 4" BACKFLOW ASSEMBLY AND PIPING.
6. ALL TEST PORTS SHALL BE PLUGGED WITH BRASS PLUGS.
7. PROVIDE SPOOL PIECES DIRECTLY IN FRONT OF METER. MINIMUM LENGTH TO BE THREE PIPE DIAMETERS.
8. METER TO BE SUPPLIED BY CONTRACTOR. MODEL NUMBER TO BE DETERMINED BY CITY.

George Balaban
Digitally signed by George Balaban
DN: cn=George Balaban, c=US, o=Kimley-Horn and Associates Inc., ou=A01410D00000170D45169AE0000E7ED, email=george.balaban@kimley-horn.com
Date: 2020.11.12 19:16:27 -05'00'

No.	REVISIONS	DATE	BY

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

GEORGE BALABAN
No 74543
DATE:

KHA PROJECT
143189000
DATE
9/2/2020
SCALE AS SHOWN
DESIGNED BY GB
DRAWN BY MB
CHECKED BY GB

CITY OF LAKE WORTH BEACH WATER DETAILS

OFFICE/INDUSTRIAL FACILITY
PREPARED FOR
UMDASCH REAL ESTATE USA LTD.
LAKE WORTH BEACH FLORIDA

SHEET NUMBER
C-305

Plotted By: Benalcazar, Marcel Sheet Set: DOKA LAKE WORTH Layout: C-305 CITY OF LAKE WORTH BEACH WATER DETAILS November 12, 2020 03:26:50pm C:\Users\Marcel.Benalcazar\Desktop\Doka\CADD\Plansheets\C-302 UTILITY DETAILS.dwg