

CAMBRIA HOTELS & SUITES, NORTH MIAMI BEACH, FL.



3
A000 163rd NE St. VIEW
1/4" = 1'-0"

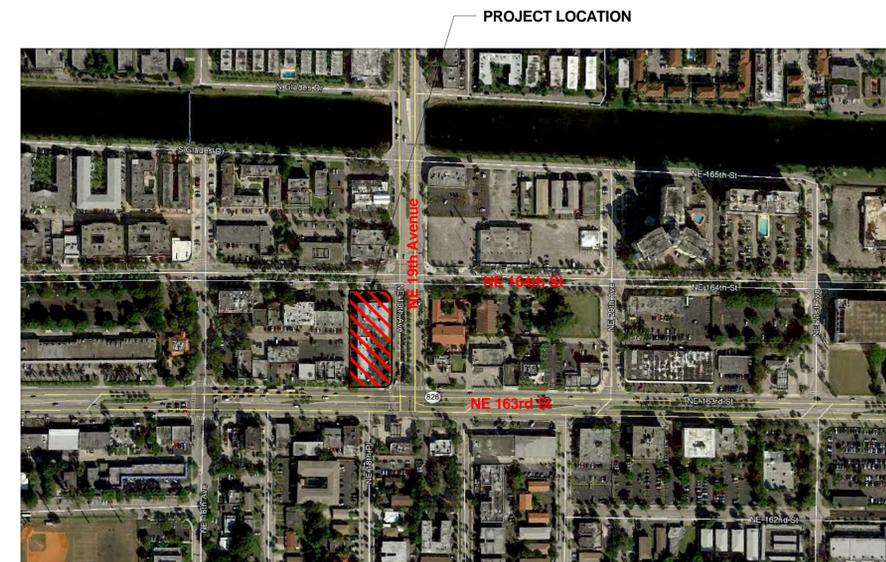
BUILDING CODES	
CODES	EDITION
BUILDING	2014 FLORIDA BUILDING CODE
MECHANICAL	2014 FLORIDA MECHANICAL CODE
PLUMBING	2014 FLORIDA PLUMBING CODE
ELECTRICAL	2014 NATIONAL ELECTRIC CODE
GAS	2014 FLORIDA BUILDING CODE
ENERGY CONSERVATION	2014 ENERGY CONSERVATION CODE
ACCESSIBILITY	2014 FLORIDA ACCESSIBILITY CODE
FIRE CODE	2015 FIRE CODE N.F.P.A 1
LIFE SAFETY	2015 N.F.P.A 101

DRAWING INDEX	
SHEET NUMBER	SHEET NAME
A000	COVER
A100	SITE PLAN
A200	FIRST FLOOR PLAN
A201	SECOND FLOOR PLAN
A202	3RD FLOOR PLAN PARKING GARAGE
A206	5TH TO 9 FLOOR PLAN TYPICAL
A207	10TH FLOOR PLAN
A208	ROOF PLAN / POOL DECK
A300	WEST ELEVATION
A301	EAST ELEVATION
A302	NORTH & SOUTH ELEVATION
A400	BUILDING SECTIONS
A401	BUILDING SECTIONS
R01	RENDERS

ARCHITECTURE

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LIC. # 6837579-0301



1
A000 Location Map
1/8" = 1'-0"

Revision Schedule		
Number	Description	Date

CAMBRIA NORTH MIAMI BEACH
16300 NE 19th Ave.
North Miami Beach, FL 33162

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JOB NUMBER
15-0035

SHEET NAME
COVER

IHG Property ID# 16649

SHEET NUMBER

A000



2
R01 NORTH WEST VIEW
1/4" = 1'-0"



3
R01 EAST VIEW
1/4" = 1'-0"



1
R01 SOUTH WEST VIEW
1/4" = 1'-0"

Revision Schedule

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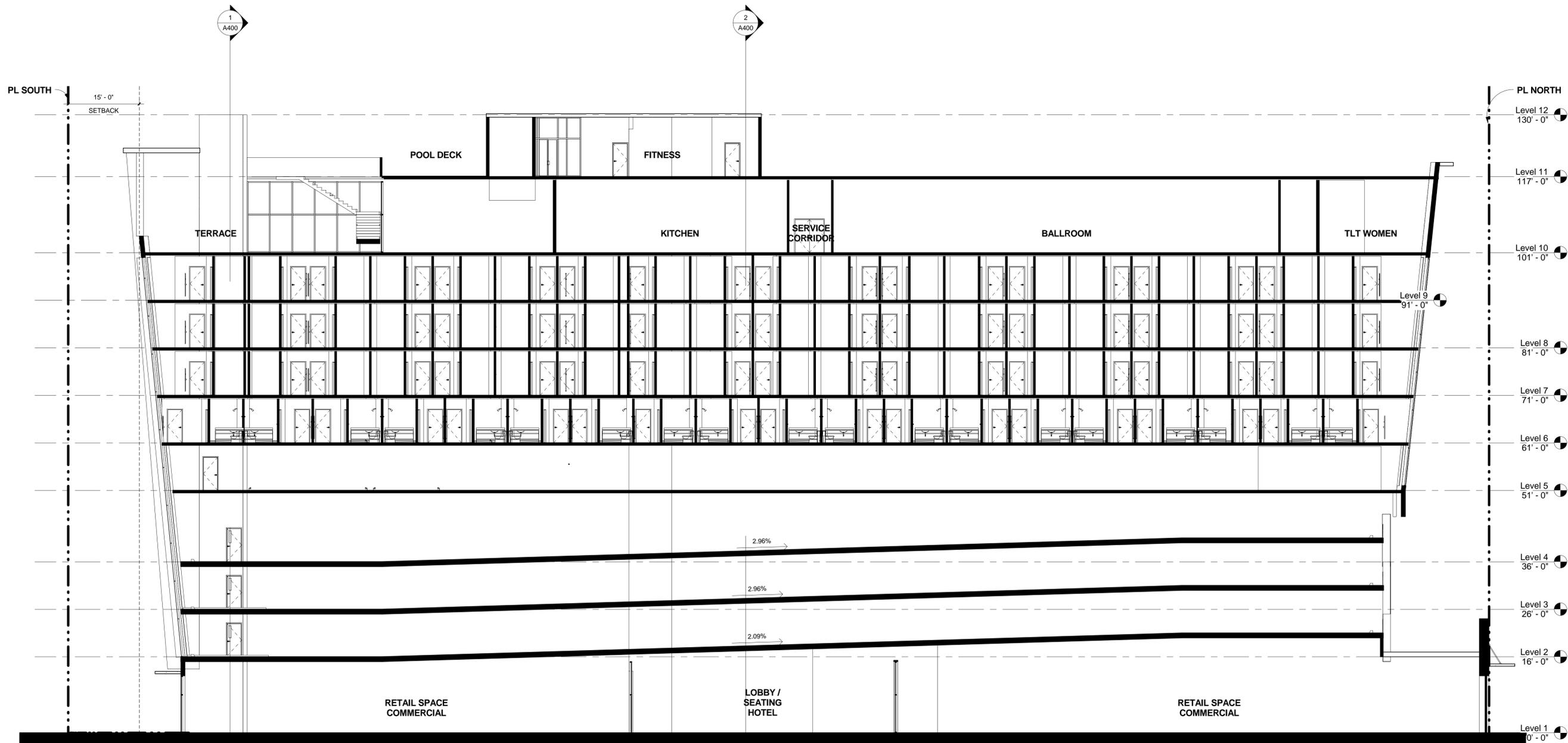
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SHEET NAME
RENDERS

IHG Property ID# 16649

SHEET NUMBER

R01



1
A401 BUILDING SECTION 3
3/32" = 1'-0"

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SHEET NAME
BUILDING SECTIONS
IHG Property ID# 16649
SHEET NUMBER
A401

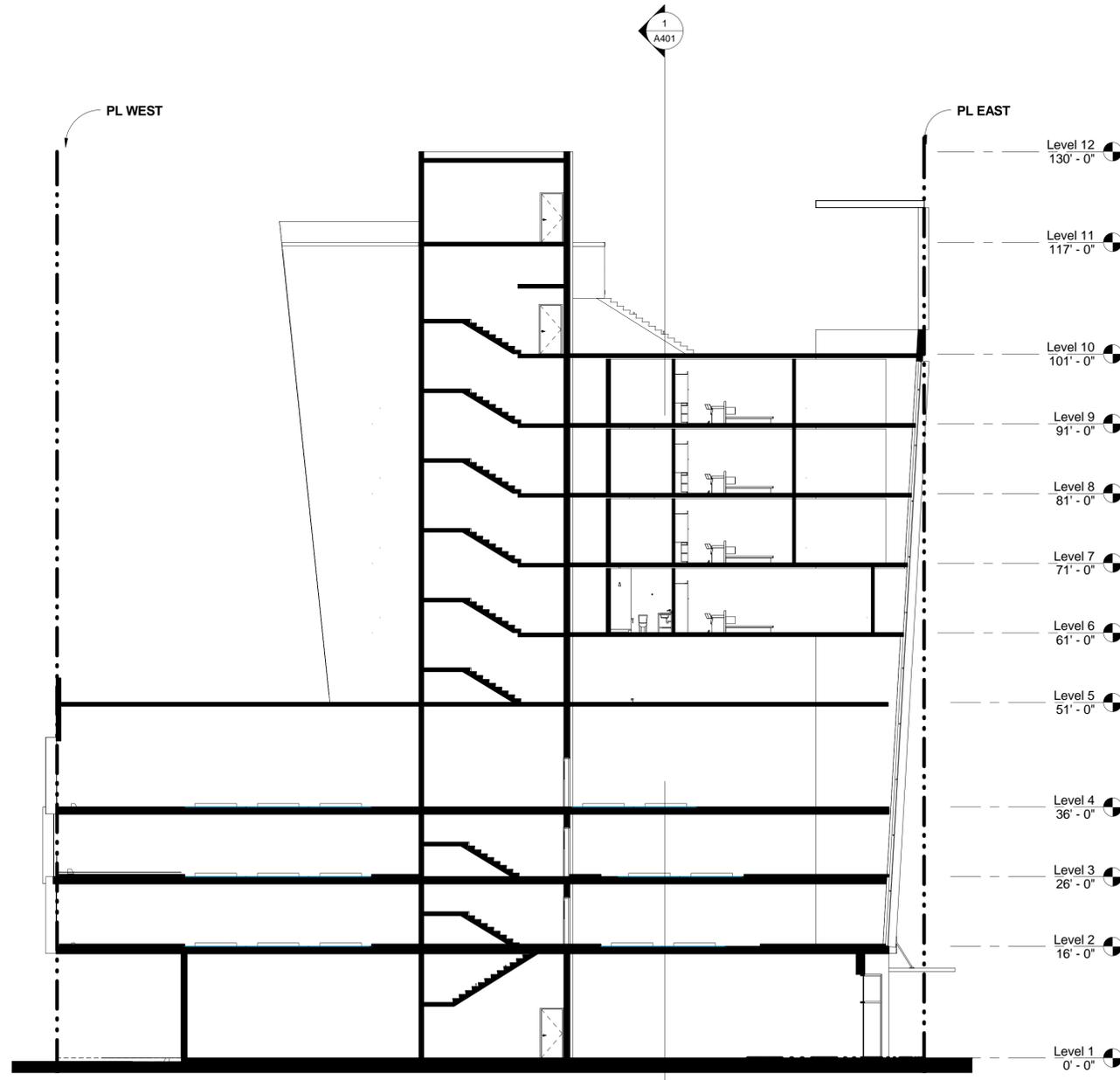
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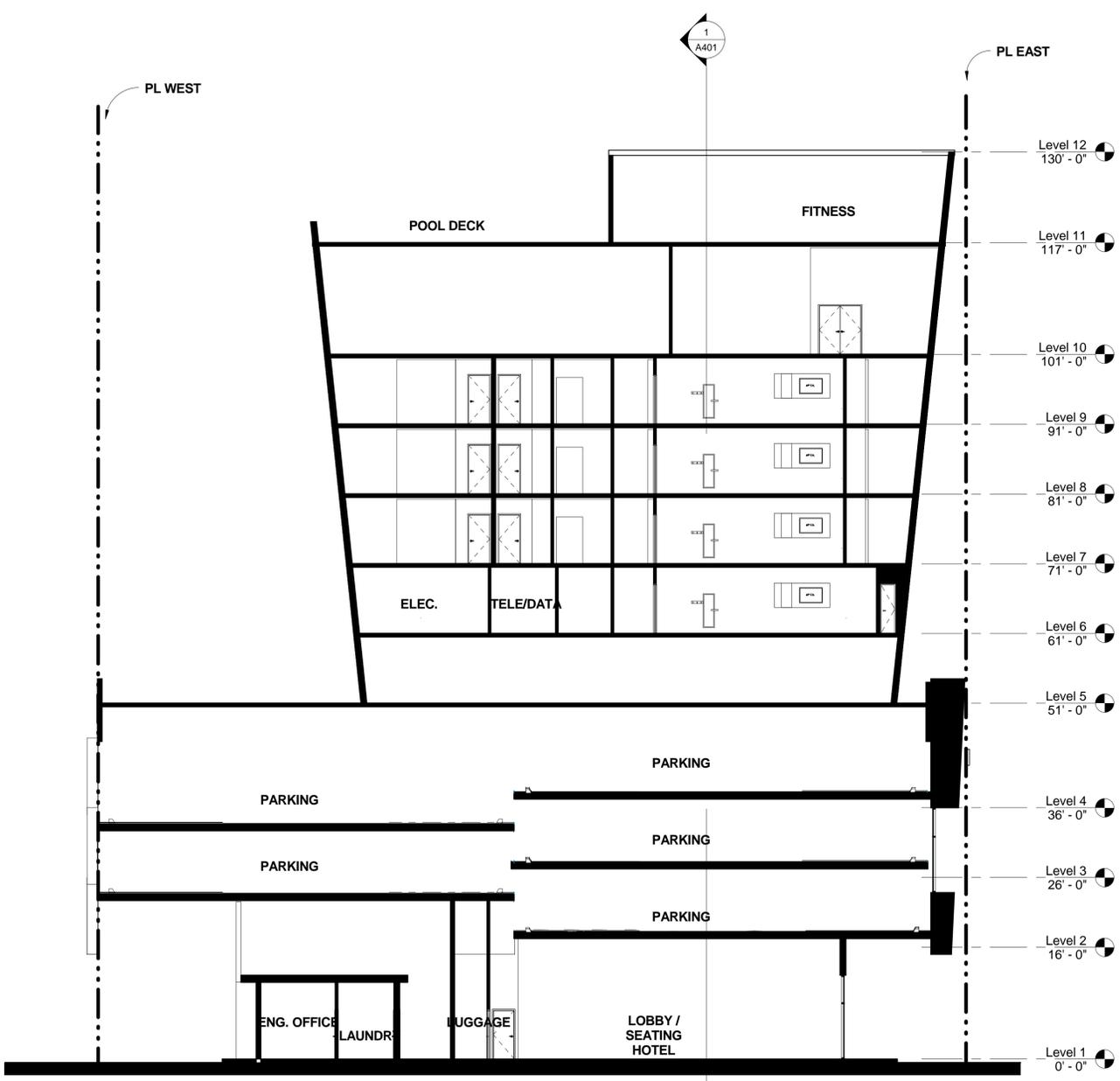
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SCALE
3/32" = 1'-0"
JOB NUMBER
15-0035
SHEET NAME
BUILDING SECTIONS
IHG Property ID# 16649
SHEET NUMBER
A400



1
 A400 BUILDING SECTION 1
 3/32" = 1'-0"



2
 A400 BUILDING SECTION 2
 3/32" = 1'-0"

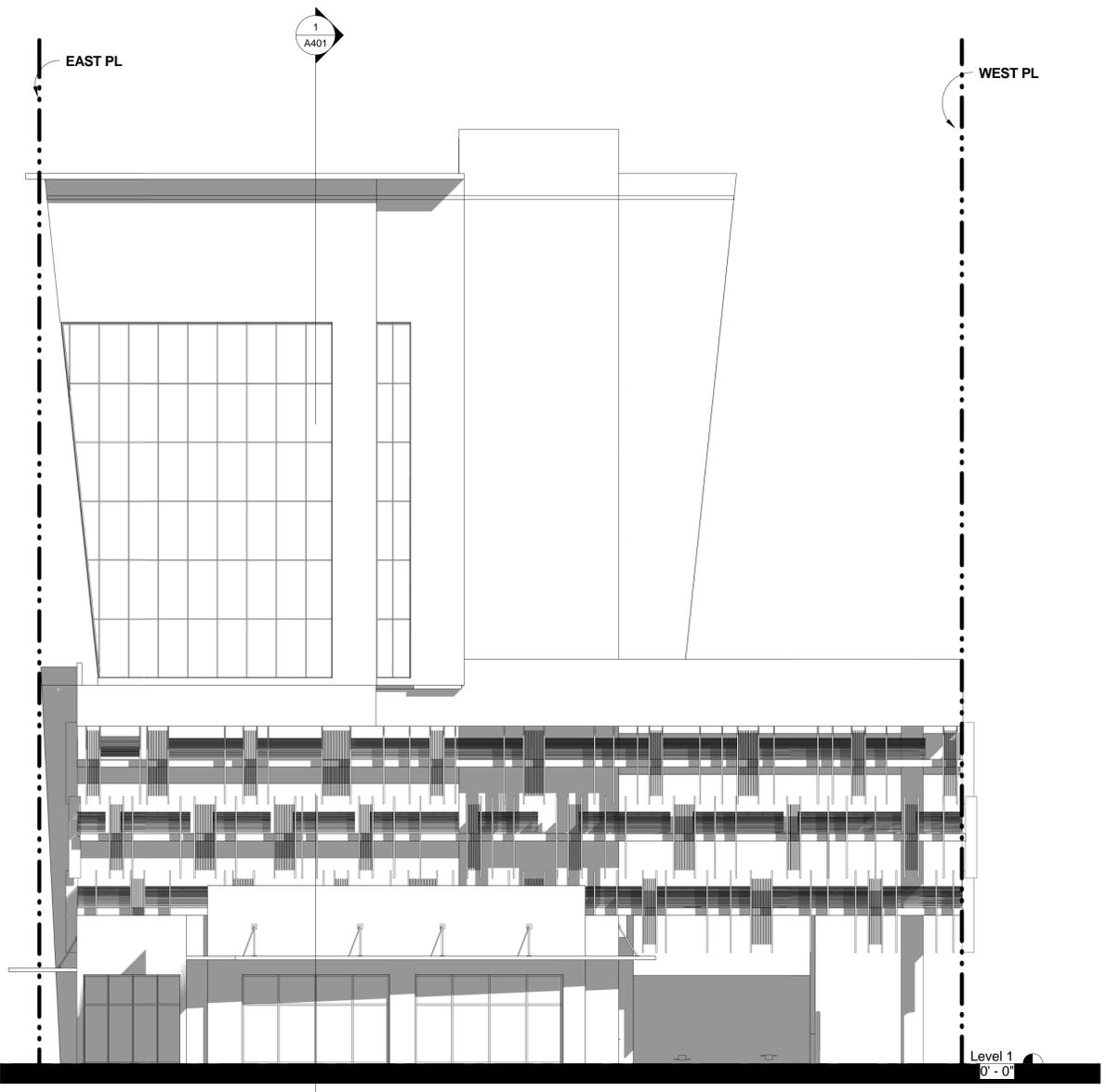
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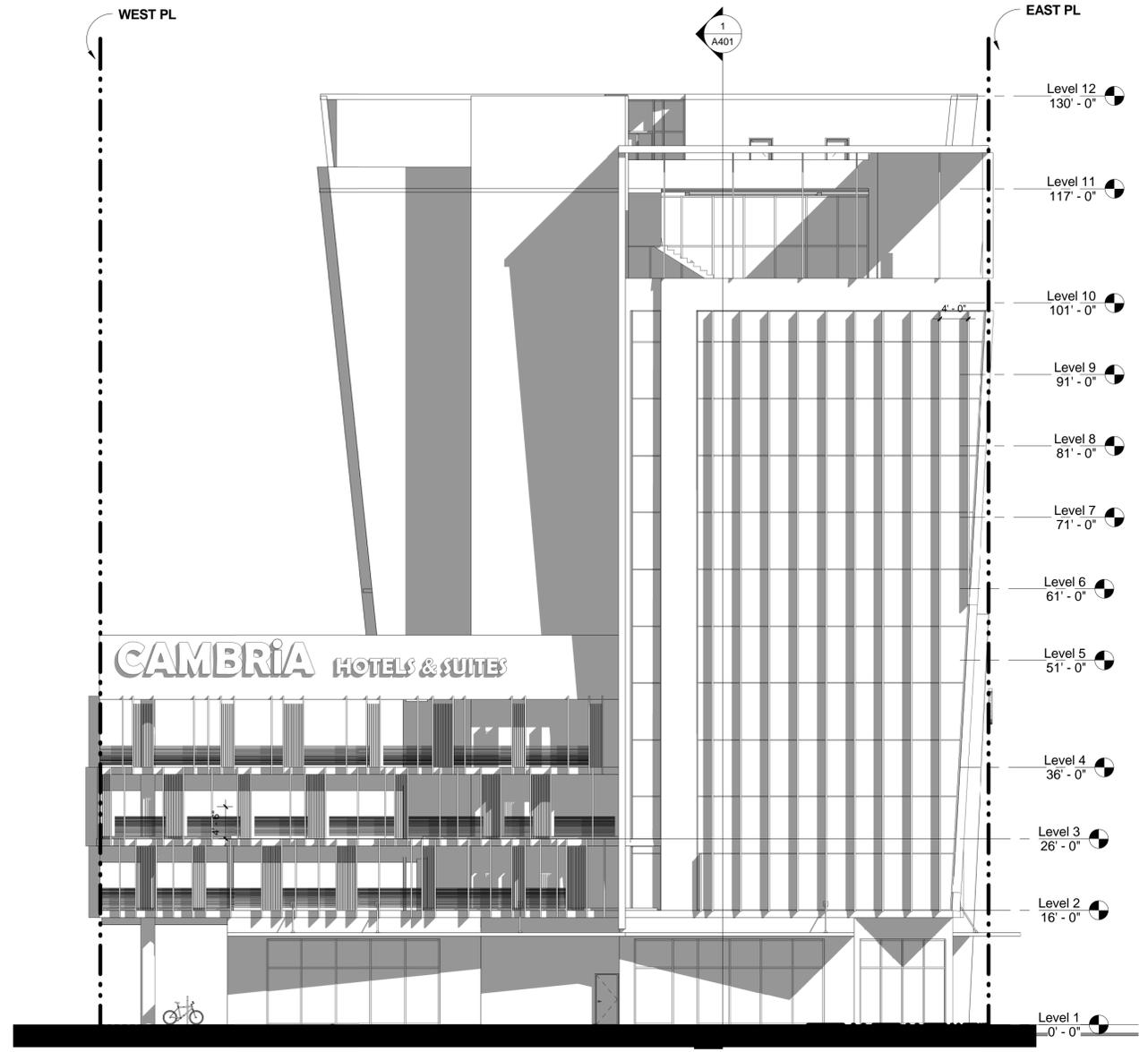
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ISSUE DATE	08/31/15
SCALE	3/32" = 1'-0"
JOB NUMBER	15-0035
SHEET NAME	NORTH & SOUTH ELEVATION
IHG Property ID#	16649
SHEET NUMBER	A302

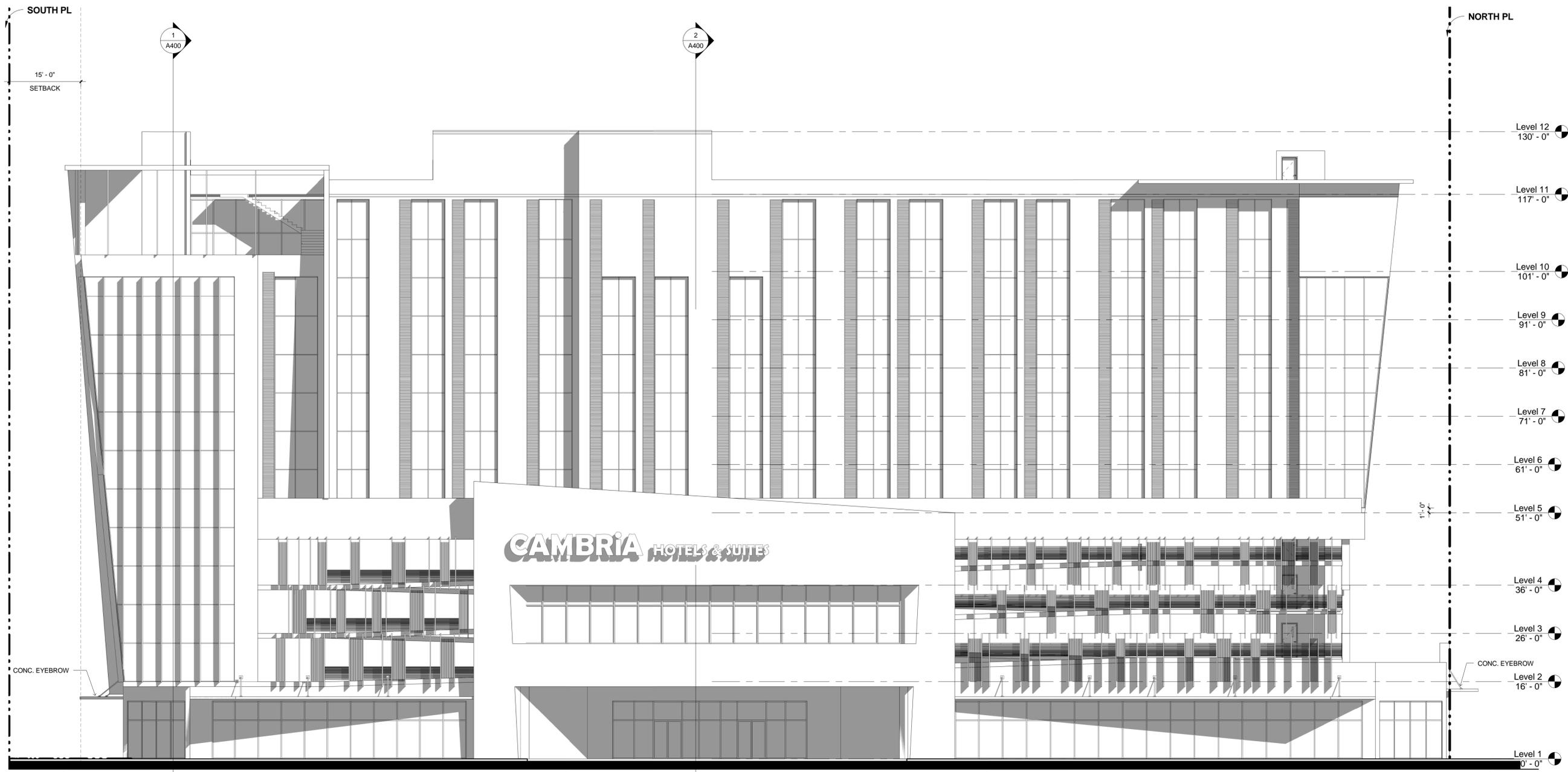


1 NORTH ELEVATION
 A302 3/32" = 1'-0"



2 SOUTH ELEVATION
 A302 3/32" = 1'-0"

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- Level 12 130' - 0"
- Level 11 117' - 0"
- Level 10 101' - 0"
- Level 9 91' - 0"
- Level 8 81' - 0"
- Level 7 71' - 0"
- Level 6 61' - 0"
- Level 5 51' - 0"
- Level 4 36' - 0"
- Level 3 26' - 0"
- Level 2 16' - 0"
- Level 1 0' - 0"

1 EAST ELEVATION
 A301 3/32" = 1'-0"

Revision Schedule		
Number	Description	Date

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SHEET NAME
EAST ELEVATION
IHG Property ID# 16649
SHEET NUMBER
A301

Revision Schedule		
Number	Description	Date

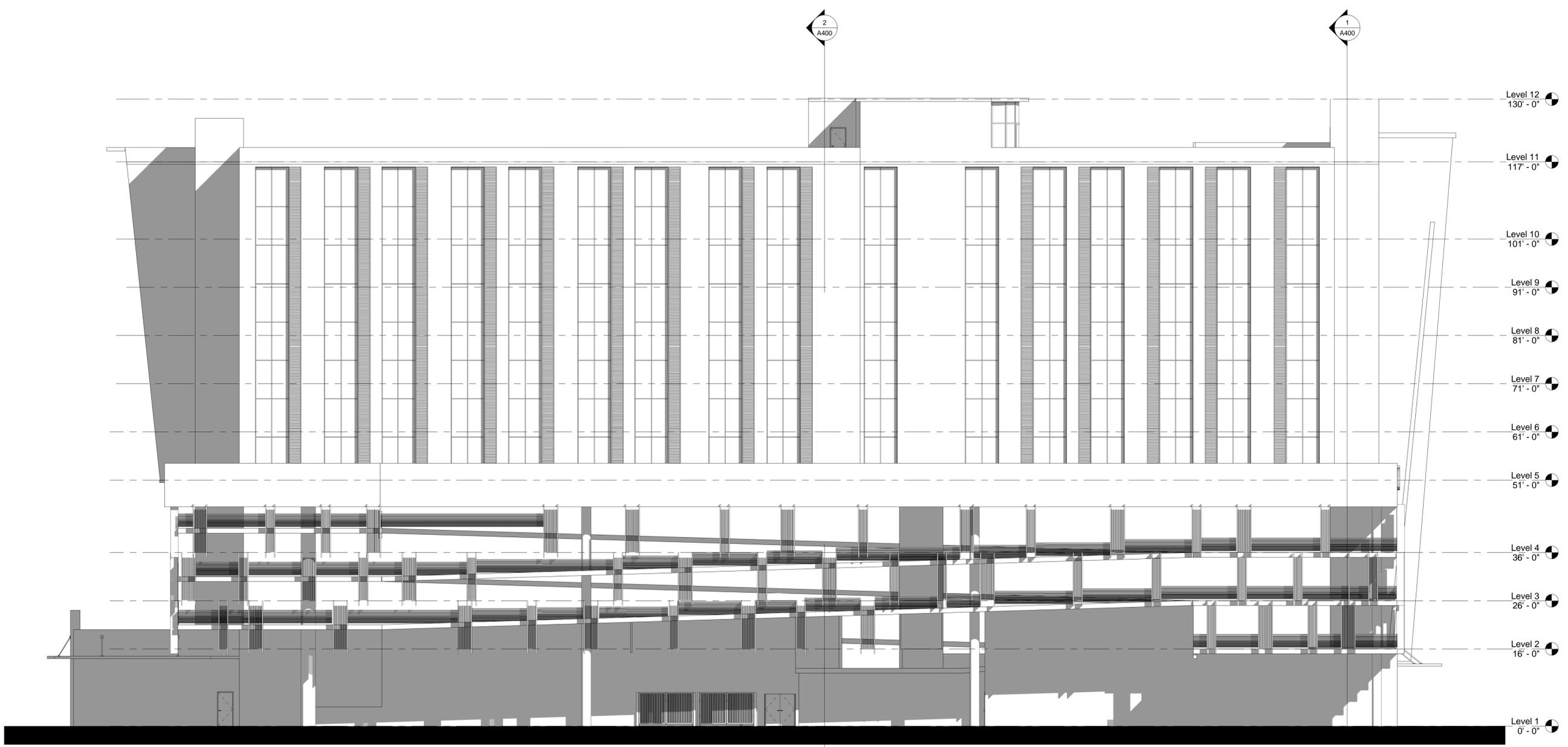
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SHEET NAME
WEST ELEVATION
IHG Property ID# 16649
SHEET NUMBER
A300

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1 WEST ELEVATION
 A300 3/32" = 1'-0"

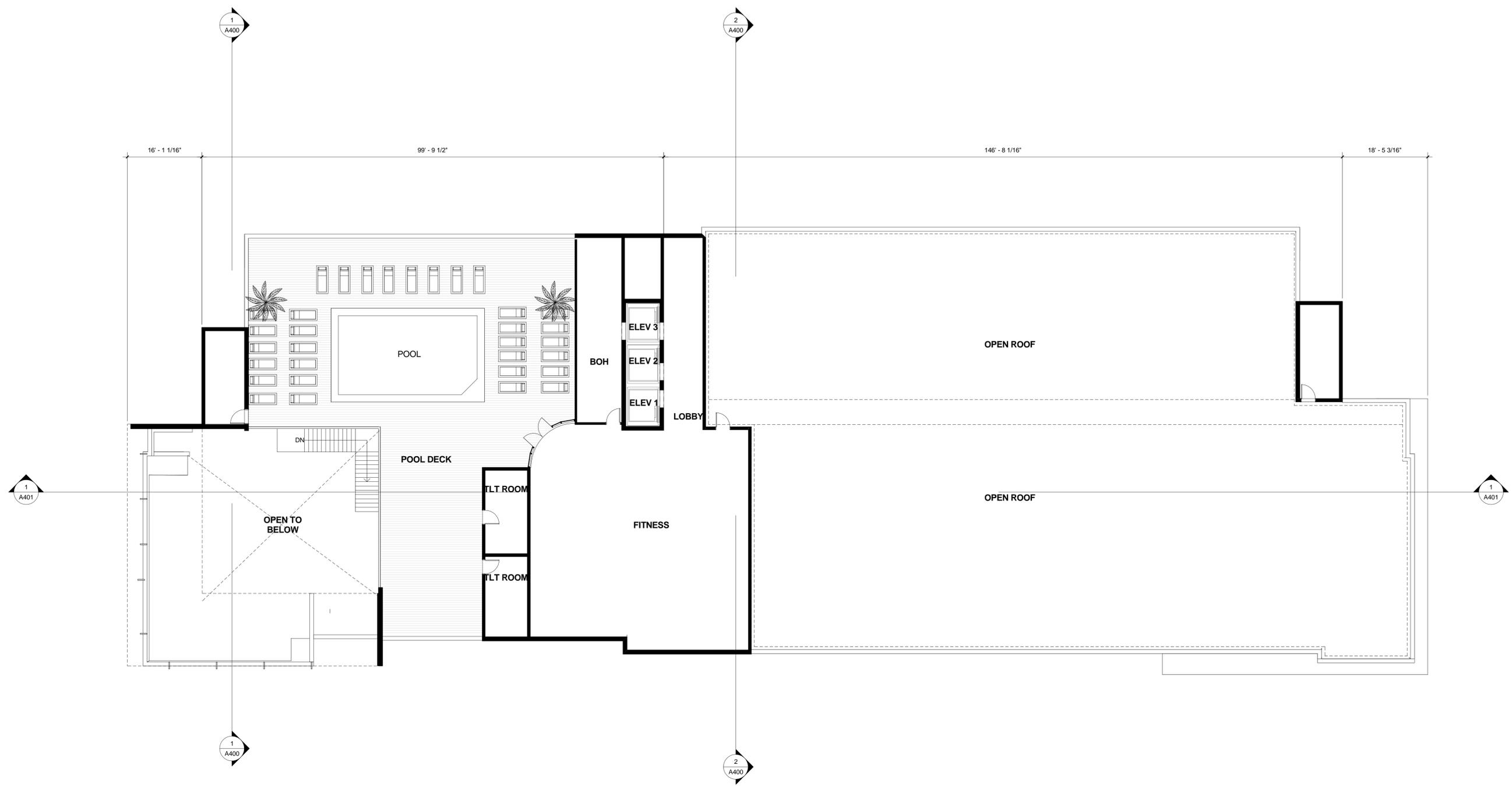
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SCALE
3/32" = 1'-0"
JOB NUMBER
15-0035
SHEET NAME
ROOF PLAN / POOL DECK
IHG Property ID# 16649
SHEET NUMBER
A208



1
 A208 **ROOF PLAN / POOL DECK**
 3/32" = 1'-0"

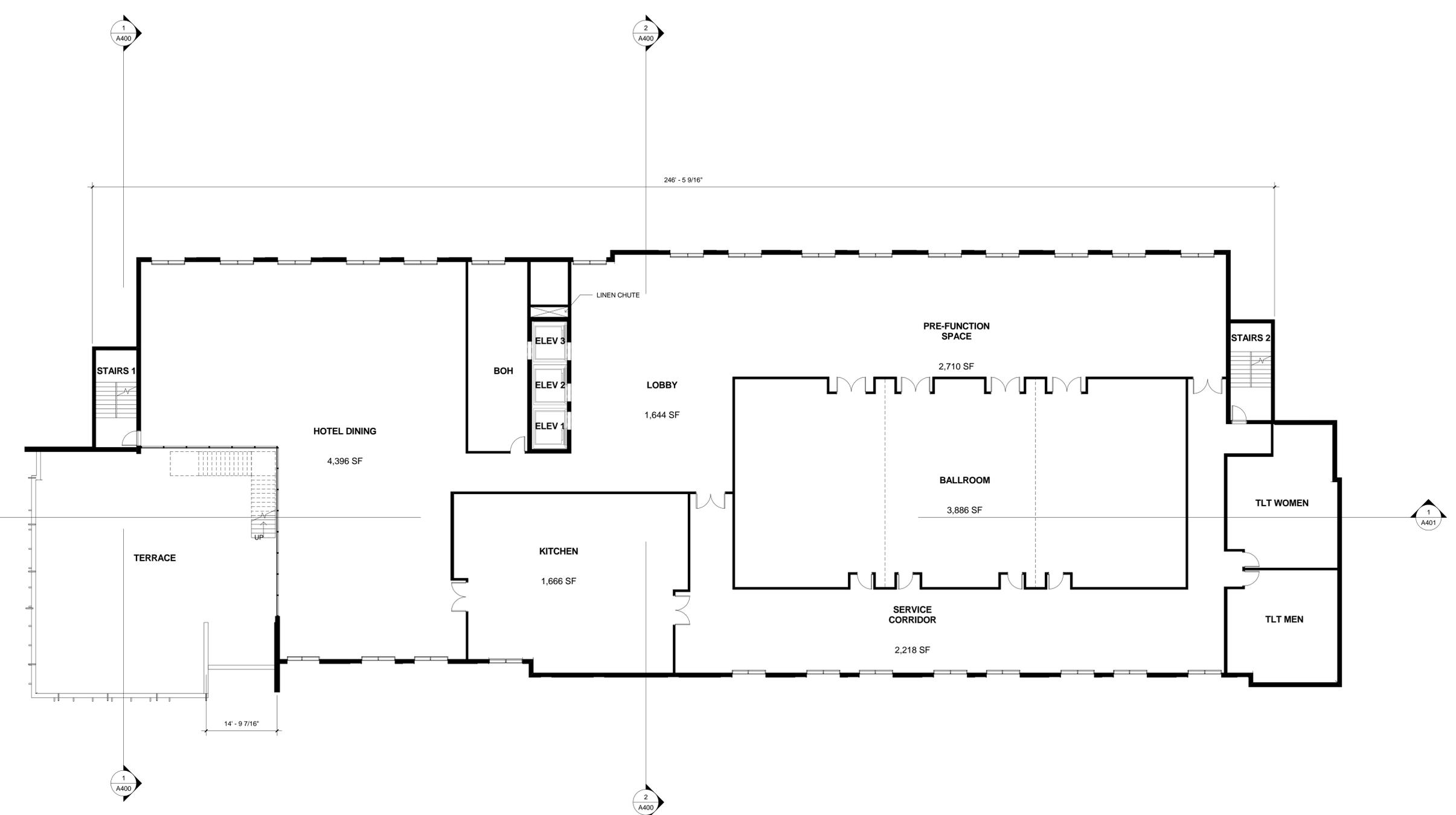
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ISSUE DATE	09/09/15
SCALE	3/32" = 1'-0"
JOB NUMBER	15-0035
SHEET NAME	10TH FLOOR PLAN
IHG Property ID#	16649
SHEET NUMBER	A207



1
A207
10TH FLOOR
3/32" = 1'-0"

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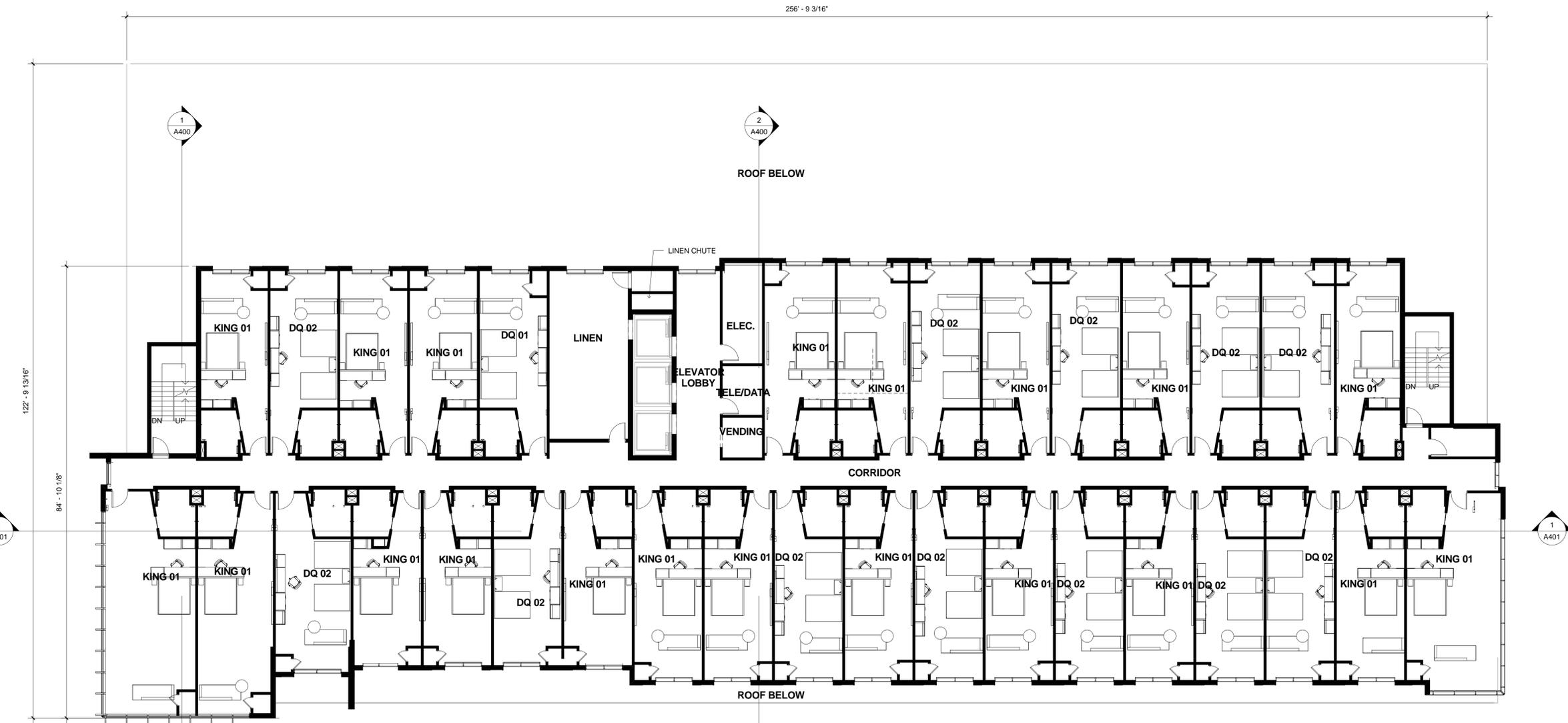
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SHEET NAME
5TH TO 9 FLOOR PLAN TYPICAL
IHG Property ID# 16649
SHEET NUMBER
A206



5TH TO 9TH FLOOR PLAN
 TYPICAL
 3/32" = 1'-0"

2
 A206

Revision Schedule		
Number	Description	Date

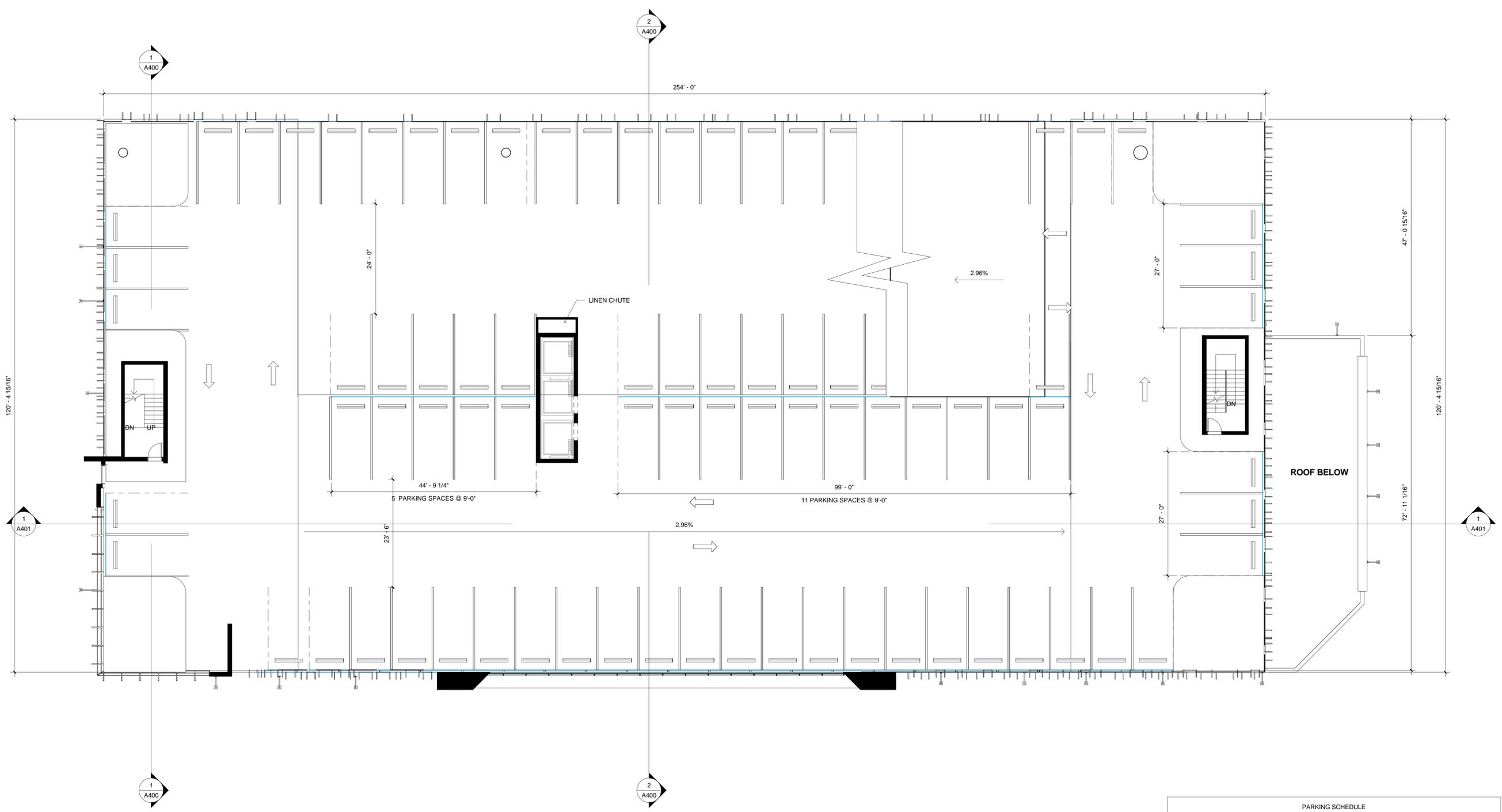
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SHEET NAME
 3RD FLOOR PLAN PARKING
 GARAGE
 IHG Property ID# 16649
 SHEET NUMBER
A202



1 THIRD FLOOR PLAN
 3/32" = 1'-0"

PARKING SCHEDULE			
LEVEL	QTY	TYPE	AREA
Level 1			
Level 1	7	PARKING SPACE 8' x 23' (ON STREET)	184 SF
Level 1	12	PARKING SPACE 9' x 18'	162 SF
	19		
Level 2			
Level 2	6	ADA PARKING SPACE DOUBLE	522 SF
Level 2	80	PARKING SPACE 9' x 18'	162 SF
	86		
Level 3			
Level 3	85	PARKING SPACE 9' x 18'	162 SF
	85		
Level 4			
Level 4	52	PARKING SPACE 9' x 18'	162 SF
	52		
	242		

Revision Schedule		
Number	Description	Date

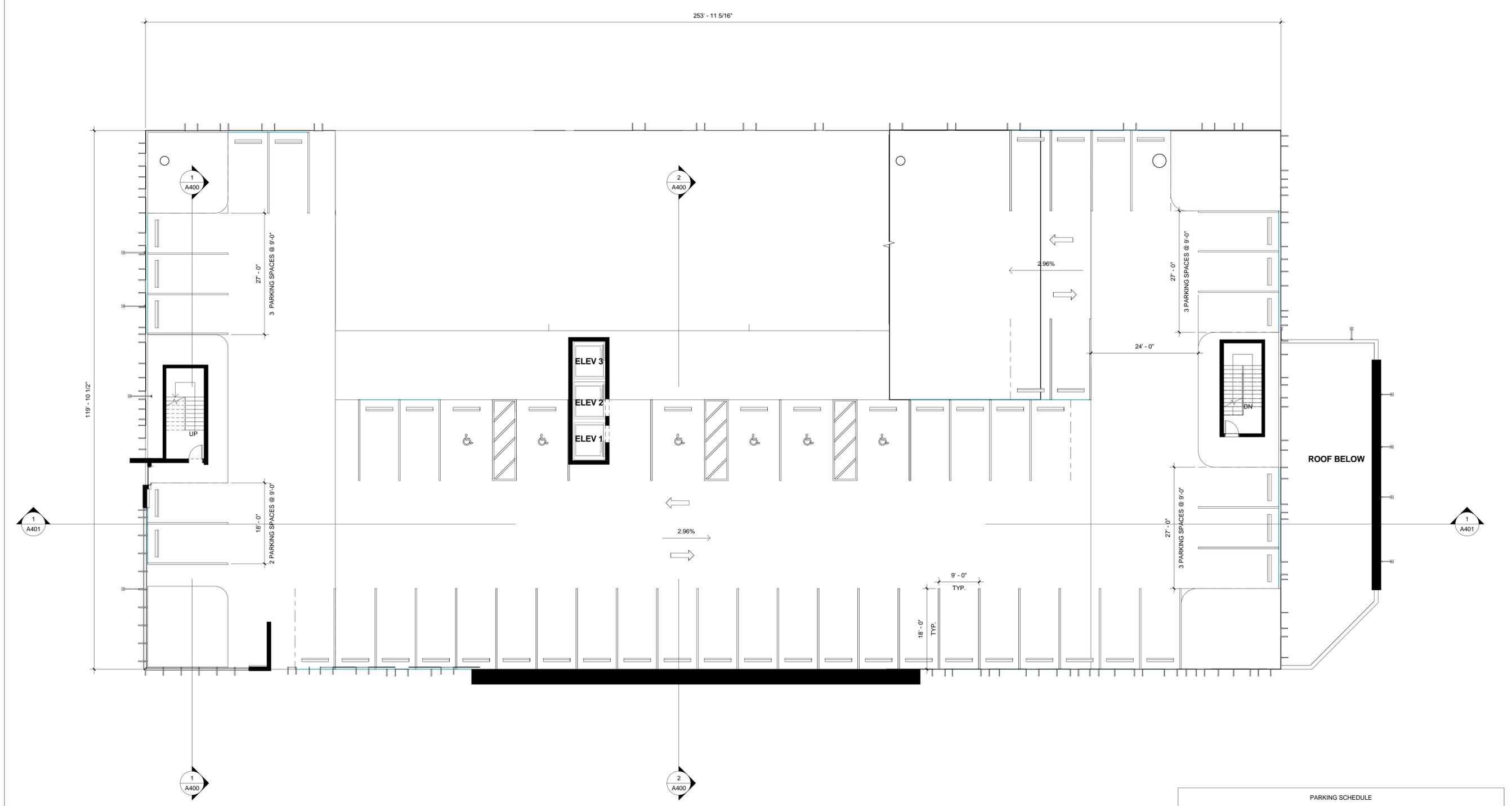
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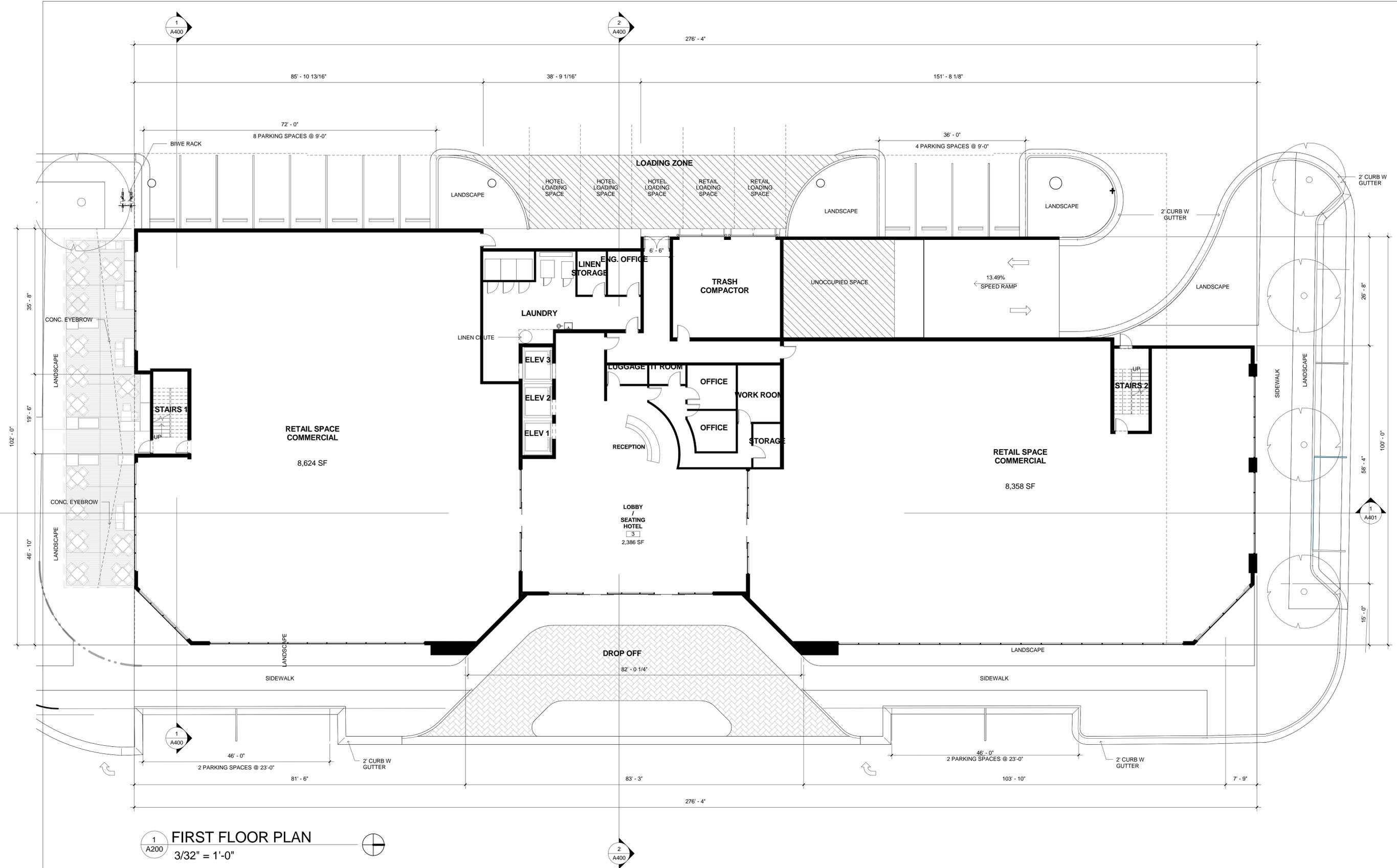
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 SCALE
 3/32" = 1'-0"
 JOB NUMBER
 15-0035

SHEET NAME
 SECOND FLOOR PLAN
 IHG Property ID# 16649
 SHEET NUMBER
A201



1
A201 **SECOND FLOOR PLAN**
 3/32" = 1'-0"

PARKING SCHEDULE			
LEVEL	QTY	TYPE	AREA
Level 1			
Level 1	7	PARKING SPACE 8' x 23' (ON STREET)	184 SF
Level 1	12	PARKING SPACE 9' x 18'	162 SF
	19		
Level 2			
Level 2	6	ADA PARKING SPACE DOUBLE	522 SF
Level 2	80	PARKING SPACE 9' x 18'	162 SF
	86		
Level 3			
Level 3	85	PARKING SPACE 9' x 18'	162 SF
	85		
Level 4			
Level 4	52	PARKING SPACE 9' x 18'	162 SF
	52		
	242		



1 A200 **FIRST FLOOR PLAN**
 3/32" = 1'-0"

Revision Schedule		
Number	Description	Date

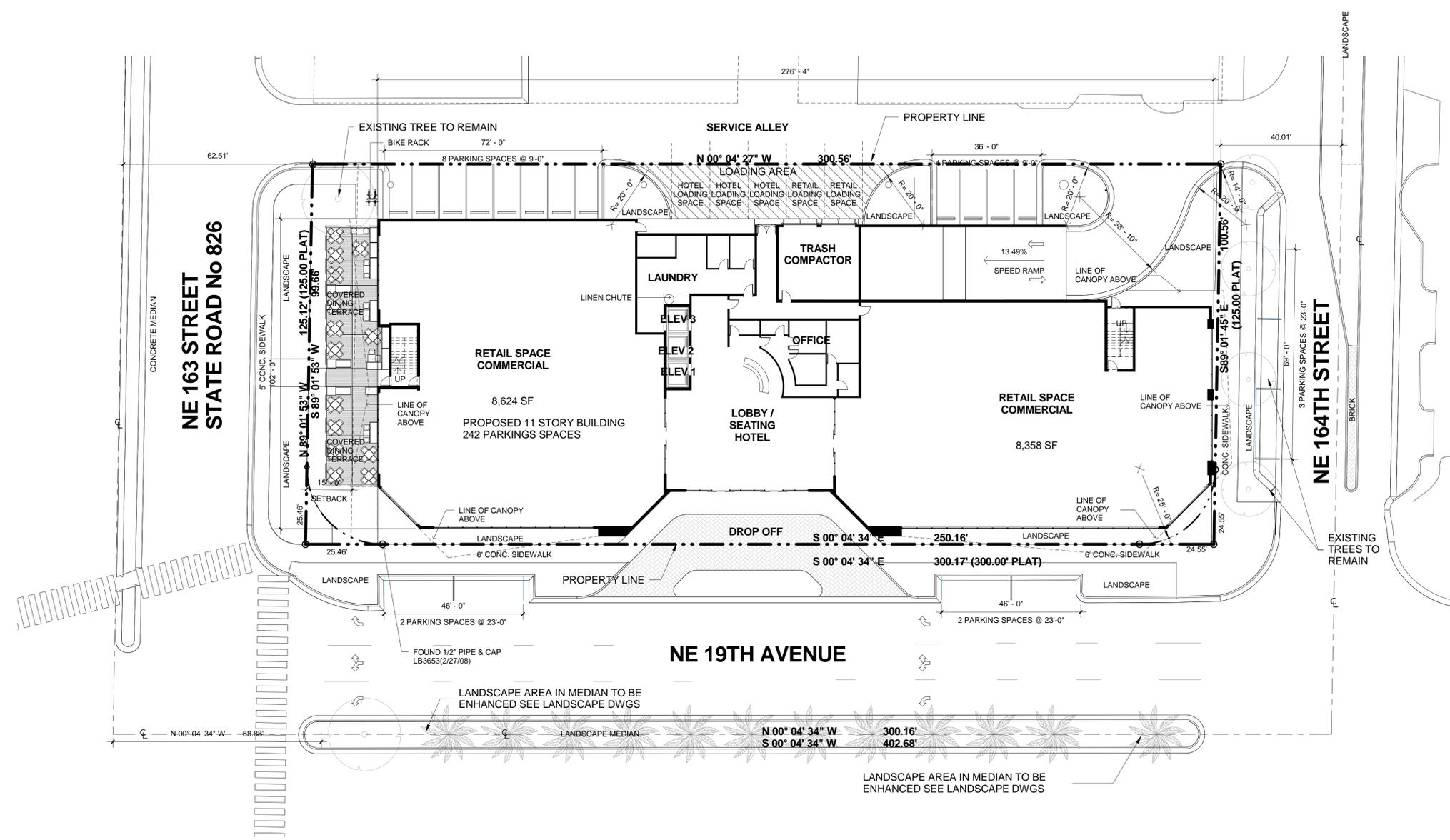
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SCALE	3/32" = 1'-0"
JOB NUMBER	15-0035
SHEET NAME	FIRST FLOOR PLAN
IHG Property ID#	16649
SHEET NUMBER	A200

Revision Schedule		
Number	Description	Date



1 SITE PLAN
A100
1" = 20'-0"

LAND USE DESIGNATION					
CURRENT USE	PROPOSED USE	ZONING	BUILDING TYPOLOGY	OCCUPANCY	CONST. TYPE
1 OCCUPIED LOT - OFFICE BUILDING	HOTEL	MU/TC	FLEX	R-1	TYPE IB

PROPERTY DATA		
DESCRIPTION	AREA (SQ.FT)	ACRES
2	37,550 SF	0.86 acres

SITE AREA		
DESCRIPTION	AREA (SQ.FT)	AREA RATIO
BUILDING	23,887 SF	64%
COVERED DINING TERRACE	2,776 SF	7%
DRIVEWAY	3,645 SF	10%
LANDSCAPE	2,949 SF	8%
LOADING AREA	1,377 SF	4%
PARKING	1,951 SF	5%
SIDEWALK	965 SF	3%
	37,550 SF	100%

DESCRIPTION	REQUIRED	PROPOSED
3 BUILDING SETBACKS (TRANSITION SUB-AREA)		
3A PRIMARY A (NE 164TH ST) MINIMUM SETBACK	0'-0"	0'-0"
3B SECONDARY (NE 163RD ST) MINIMUM SETBACK	15'-0"	15'-0"
3C PRIMARY A (NE 19TH AVE) MINIMUM SETBACK	0'-0"	2'-0"
3D SIDE SETBACK ALLEY	0'-0"	0'-0"
3F MAXIMUM BUILDING HEIGHT (TRANSITION SUB-AREA)	20 STORIES/255 FEET	± 130'-0"

IMPERVIOUS		
DESCRIPTION	REQUIRED	PROPOSED
4A BUILDING		4,775 SF
4B DRIVEWAY		23,887 SF
4C PARKING		580 SF
4D SIDEWALK		1,951 SF
4E COVERED DINING TERRACE		633 SF
		2,776 SF
		34,601 SF

PERVIOUS				
DESCRIPTION	LOT SIZE SQ. FT	REQUIRED	PERVIOUS REQUIRED	PROPOSED
LANDSCAPE	37,549.83		3,755 SF	2,949 SF
				2,949 SF

LOT COVERAGE		
NAME	REQUIRED	PROPOSED
4G LOT COVERAGE		34,601 SF
		34,601 SF

PARKING CALCULATION				
USE	SQUARE FOOTAGE	REQUIRED	PROVIDED	
HOTEL (165 KEYS) - REQ. 1 PER 4 ROOMS	101,277 SF	42	47	
HOTEL MEETING - REQ. 1 PER 800 SF	8,640 SF	10	10	
HOTEL DINING - REQ. 1 SPACE FOR EACH 3 SEATS IN THE PRINCIPAL ASSEMBLY AREA - 15 SF PER OCCUPANT - 6000 SF / 15 = 400 OCC. / 400 / 3 = 134 PARKING	6,000 SF	134	134	
HOTEL STAFF - REQ. 1 PER 15 ROOMS FOR STAFF	0 SF	12	12	
RETAIL - REQ. 2 PER 1000 SF	18,036 SF	36	39	
PARKING GARAGE	80,244 SF	0	0	
	220,044 SF	234	242	

PARKING SPACES PROVIDED ON SITE (BY TYPE)		
DESCRIPTION	PROPOSED	
PARKING SPACE 8' x 23' (ON STREET)	5	
5A ADA PARKING SPACE DOUBLE	6	
5B PARKING SPACE 9' x 18'	229	
5C PARKING SPACE 8' x 23' (ON STREET)	2	
	242	

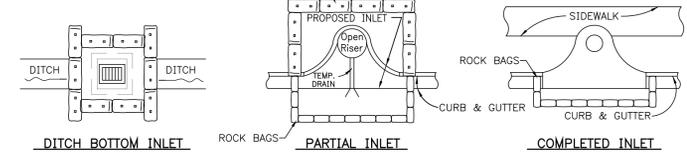
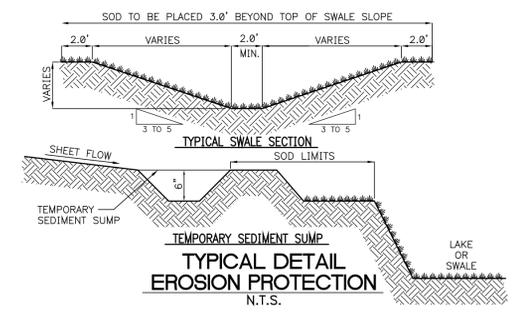
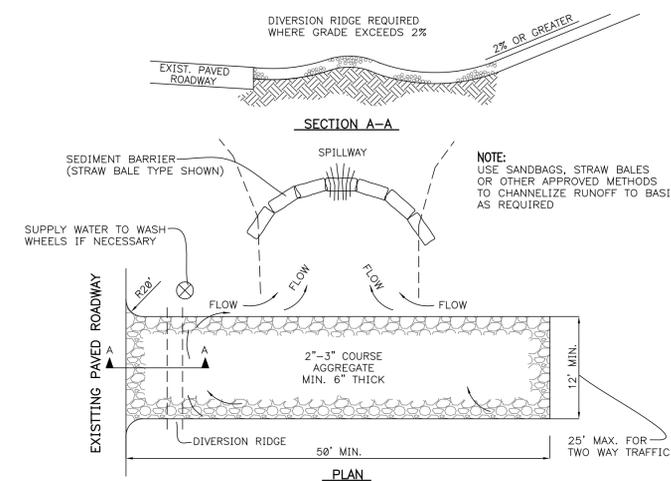
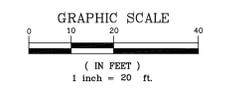
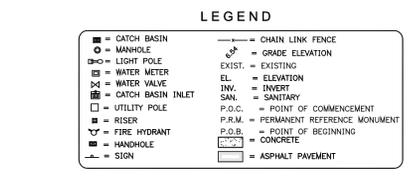
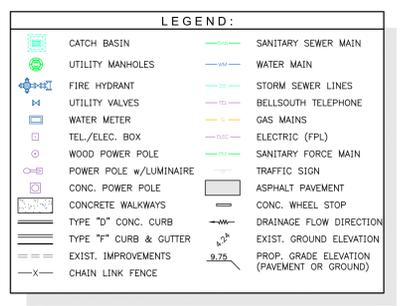
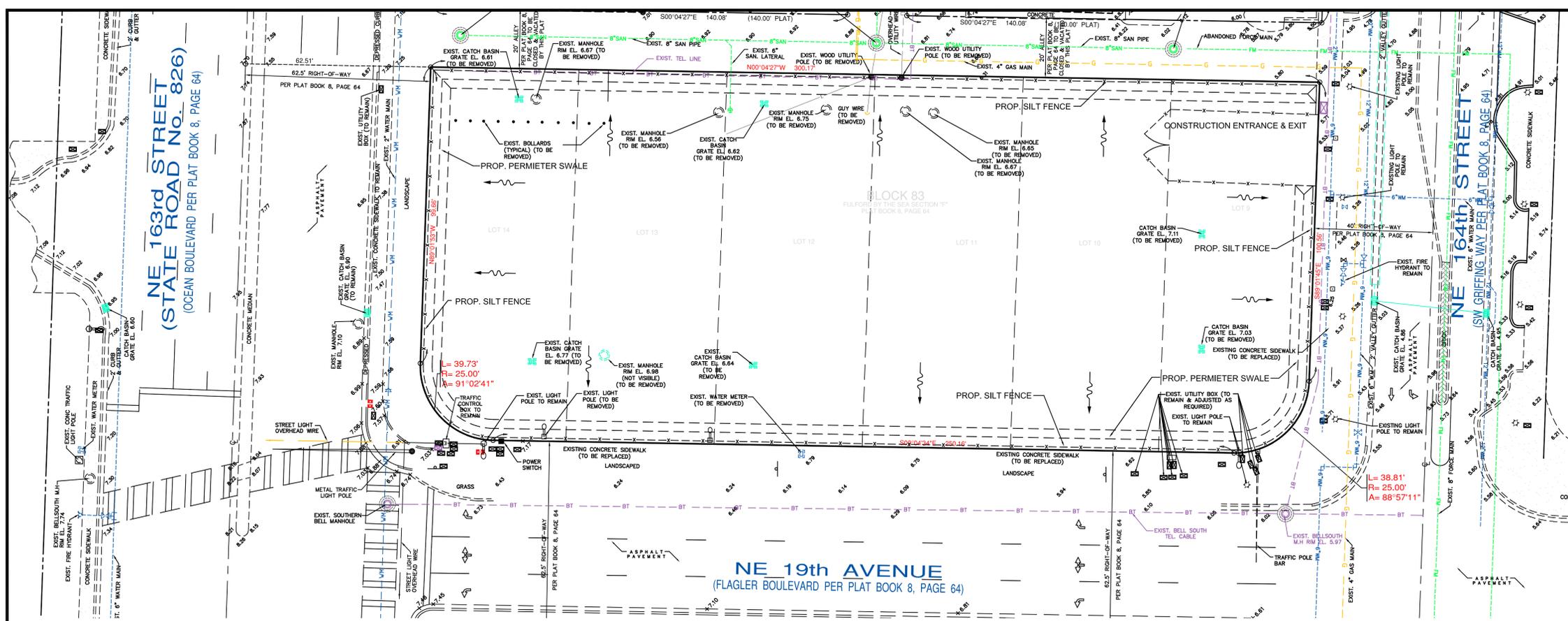
AREA GROSS BUILDING	
Name	Area
FIRST FLOOR HOTEL	5,649 SF
FIRST FLOOR RETAIL 1	9,127 SF
FIRST FLOOR RETAIL 2	8,909 SF
2ND FLOOR PARKING	30,128 SF
3RD FLOOR PARKING	30,128 SF
4TH FLOOR PARKING	19,988 SF
5TH FLOOR	19,036 SF
6TH FLOOR	19,643 SF
7TH FLOOR	20,253 SF
8TH FLOOR	20,868 SF
9TH FLOOR	21,477 SF
10TH FLOOR DINING HOTEL & MEETING	22,102 SF
11TH FLOOR POOL	3,737 SF
	231,045 SF

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EDIT DATE	9/22/2015 5:15:31 PM
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SCALE	1" = 20'-0"
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SHEET NAME	SITE PLAN
IHG Property ID#	16649
SHEET NUMBER	A100

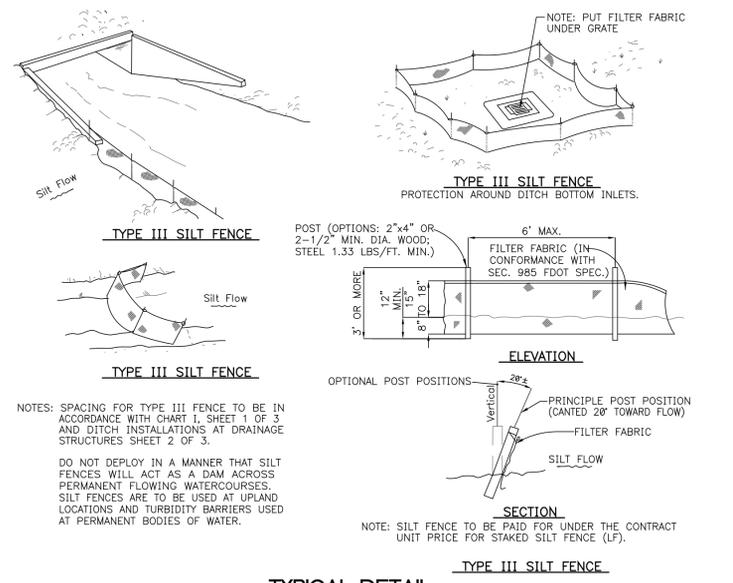


NOTE: THESE DETAILS ARE FOR TYPICAL INSTALLATIONS AND ARE REQUIRED ONLY WHEN NECESSARY TO PREVENT EROSION OF THE SITE.

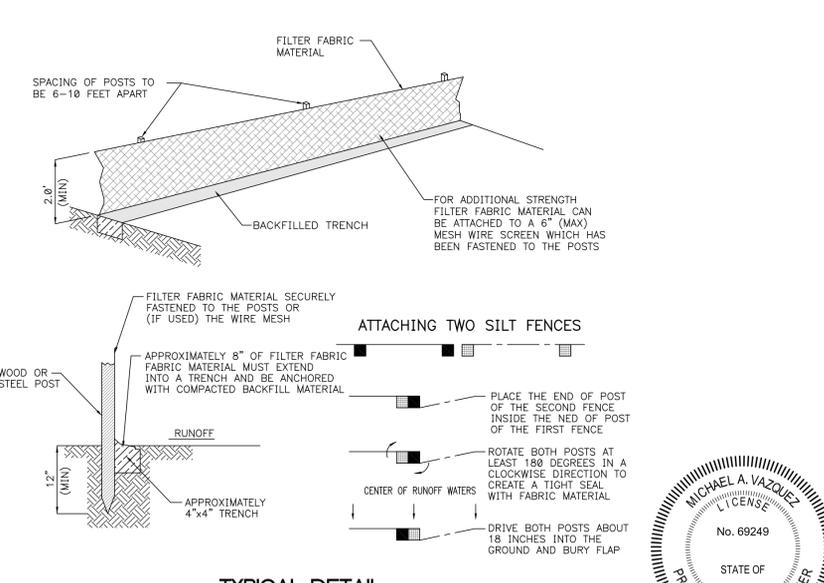
NOTE:
 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC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

- EROSION AND SEDIMENT CONTROL GENERAL NOTES**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS AS SHOWN HEREON AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.
 - ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
 - INSTALLATION OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
 - THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT THE POLLUTION CONTROL DEVICE.
 - CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO RESOLVE CONFLICTS BETWEEN DESIGN AND EXISTING FEATURES.
 - WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR 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 PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
 - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
 - CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, E.T.C. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
 - BALES IF USED SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
 - BALES SHALL BE PLACED LENGTH WISE IN A SINGLE ROW SURROUNDING THE INLET WITH THE ENDS OF THE ADJACENT BALES PRESSED TOGETHER.
 - SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS SHALL BE MADE IMMEDIATELY.
 - SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT, THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
 - THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES.
 - FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER) CHAPTER 6.

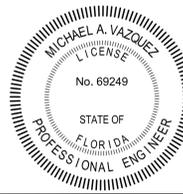
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS A POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
 - ANY DISCHARGE FROM Dewatering ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
 - Dewatering PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 - ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION SILT SCREENS, HAY BALES, AND GRASSINGS. ALL THE FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
 - ALL Dewatering EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
 - THIS PLAN INDICATES MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL EROSION AND SEDIMENTATION CONTROLS.
 - THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER D.E.P. INQUIRIES RELATIVE TO COMPLIANCE OF D.E.P. FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
 - WHERE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) SPECIFICATIONS AND INDEX ARE REFERENCED, PLEASE REFER TO (F.D.O.T.) ROADWAY AND TRAFFIC DESIGN STANDARDS AND (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.
- OTHER CONTROLS:**
- WASTE MATERIALS:** ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT AND IS RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
 - HAZARDOUS WASTE:** ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED OF IN A MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
 - SANITARY WASTE:** ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH THE STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.
 - OFFSITE VEHICLE TRACKING:** A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED.



TYPICAL DETAIL SILT FENCE INSTALLATION N.T.S.



TYPICAL DETAIL INSTALLING A FILTER FABRIC SILT FENCE N.T.S.



No.	Date	Revision Description

FORTIN, LEAVY, SKILES, INC.
 CONSULTING ENGINEERS, SURVEYORS & MAPPERS
 FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
 180 Northeast 168th Street, North Miami Beach, Florida 33162
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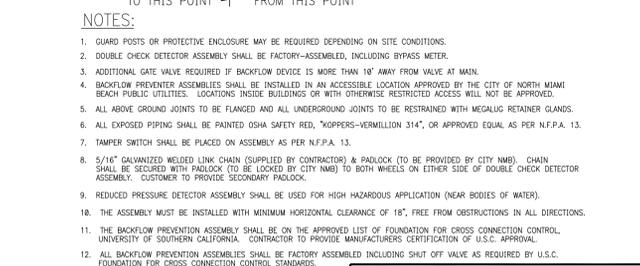
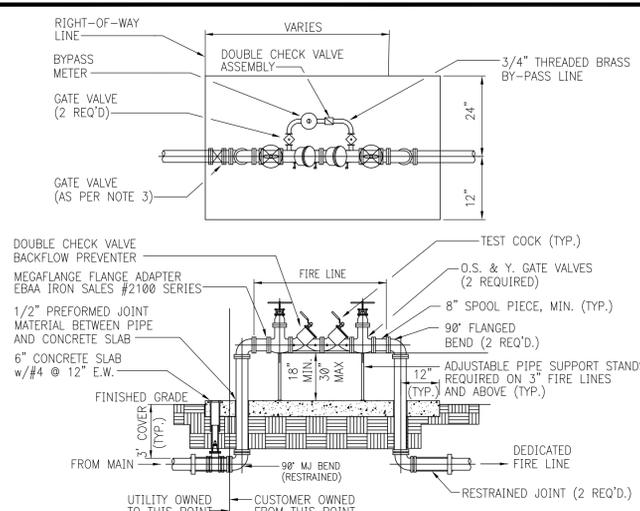
Drawn By: REP
 Reference: 3007-030
 Plotted: 9/22/2015 5:26 PM

Cad. No.: 151294CP
 Scale: 1" = 20'
 Job No.: 157016

16300 NE 19th Avenue
 City of North Miami Beach, Miami-Dade County, Florida

Cambria Hotel & Suites
 Conceptual Storm Water Pollution Prevention Plan

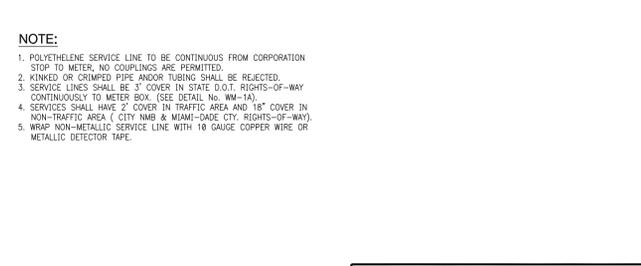
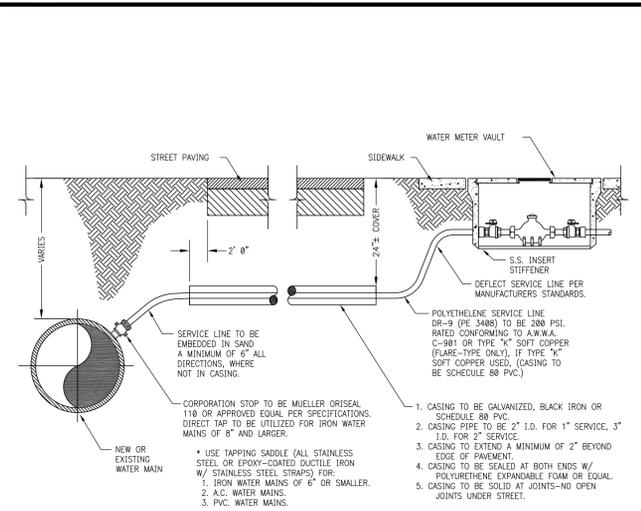
Original Date: 09/14/15
 Dwg. No.: 3015-034
 Sheet: C8



NOTES:

- GUARD POSTS OR PROTECTIVE ENCLOSURE MAY BE REQUIRED DEPENDING ON SITE CONDITIONS.
- DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE FACTORY-ASSEMBLED, INCLUDING BYPASS METER.
- ADDITIONAL GATE VALVE REQUIRED IF BACKFLOW DEVICE IS MORE THAN 18' AWAY FROM VALVE AT MAIN.
- BACKFLOW PREVENTER ASSEMBLIES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION APPROVED BY THE CITY OF NORTH MIAMI BEACH PUBLIC UTILITIES. LOCATIONS INSIDE BUILDINGS OR WITH OTHERWISE RESTRICTED ACCESS WILL NOT BE APPROVED.
- ALL ABOVE GROUND JOINTS TO BE FLANGED AND ALL UNDERGROUND JOINTS TO BE RESTRAINED WITH MEGALUG RETAINER GLANDS.
- ALL EXPOSED PIPING SHALL BE PAINTED OSHA SAFETY RED, "XOPPERS-VERMILLION 314", OR APPROVED EQUAL AS PER N.F.P.A. 13.
- TAMPER SWITCH SHALL BE PLACED ON ASSEMBLY AS PER N.F.P.A. 13.
- 5/16" GALVANIZED WELDED LINK CHAIN (SUPPLIED BY CONTRACTOR) & PADLOCK (TO BE PROVIDED BY CITY NMB). CHAIN SHALL BE SECURED WITH PADLOCK TO BE LOCKED BY CITY NMB) TO BOTH WHEELS ON EITHER SIDE OF DOUBLE CHECK DETECTOR ASSEMBLY. CUSTOMER TO PROVIDE SECONDARY PADLOCK.
- REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE USED FOR HIGH HAZARDOUS APPLICATION (NEAR BODIES OF WATER).
- THE ASSEMBLY MUST BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCE OF 18", FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
- THE BACKFLOW PREVENTION ASSEMBLY SHALL BE ON THE APPROVED LIST OF FOUNDATION FOR CROSS CONNECTION CONTROL, UNIVERSITY OF SOUTHERN CALIFORNIA. CONTRACTOR TO PROVIDE MANUFACTURERS CERTIFICATION OF U.S.C. APPROVAL.
- ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE FACTORY ASSEMBLED INCLUDING SHUT OFF VALVE AS REQUIRED BY U.S.C. FOUNDATION FOR CROSS CONNECTION CONTROL STANDARDS.

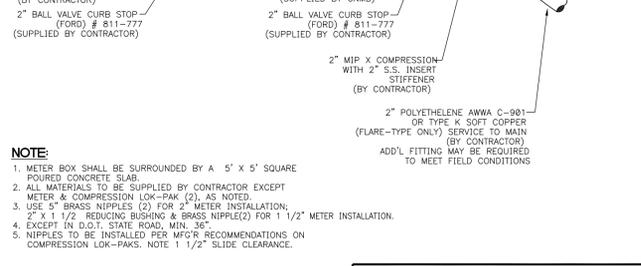
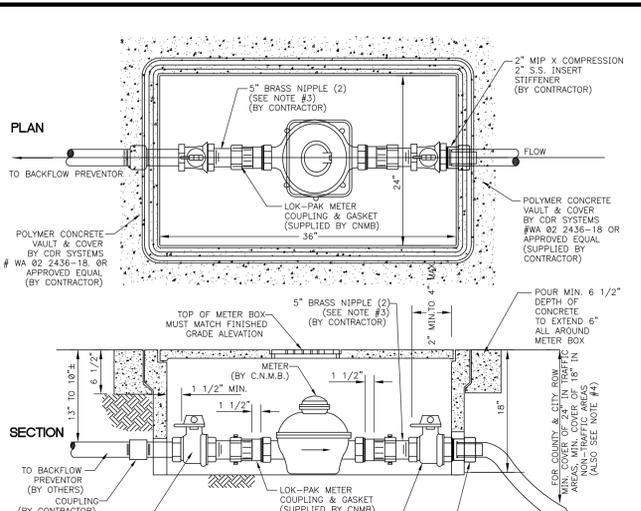
Date	Revisions	Appr. by
10/16/03	ADDED UTILITY/CUSTOMER DISTINCTION LINE	AGZ/KR
02/11/04	ADDED 1 NOTE/CHANGED NOTE 4,5,6, & 7	AV/KR



NOTE:

- POLYETHYLENE SERVICE LINE TO BE CONTINUOUS FROM CORPORATION STOP TO METER, NO COUPLINGS ARE PERMITTED.
- KINKED OR CRIMPED PIPE AND/OR TUBING SHALL BE REJECTED.
- SERVICE LINES SHALL BE 3" COVER IN STATE D.O.T. RIGHTS-OF-WAY CONTINUOUSLY TO METER BOX. (SEE DETAIL NO. WM-1A).
- SERVICES SHALL HAVE 2" COVER IN TRAFFIC AREA AND 18" COVER IN NON-TRAFFIC AREA (CITY NMB & MIAMI-DADE CITY RIGHTS-OF-WAY).
- WRAP NON-METALLIC SERVICE LINE WITH 10 GAUGE COPPER WIRE OR METALLIC DETECTOR TAPE.

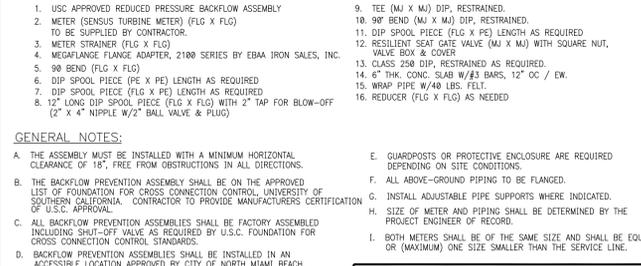
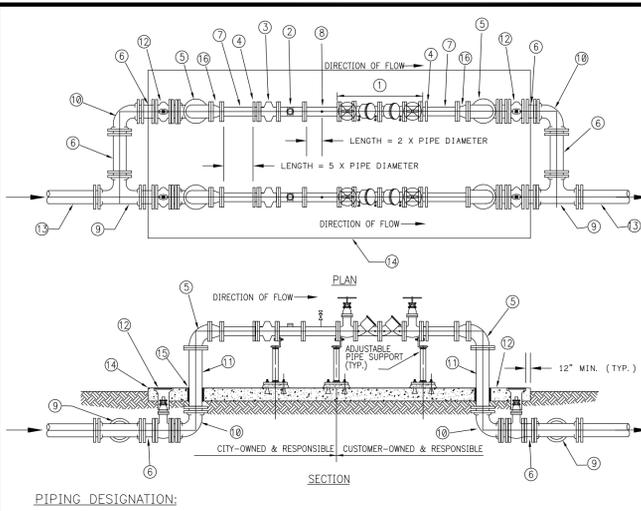
Date	Revisions	Appr. by
05/14/04	J.C.	K.R.



NOTE:

- METER BOX SHALL BE SURROUNDED BY A 5' X 5' SQUARE POURED CONCRETE SLAB.
- ALL MATERIALS TO BE SUPPLIED BY CONTRACTOR EXCEPT METERS & COMPRESSION LOK-PAK (2), AS NOTED.
- USE 5" BRASS NIPPLES (2) FOR 2" METER INSTALLATION; 2" X 1 1/2" REDUCING BUSHING & BRASS NIPPLE(2) FOR 1 1/2" METER INSTALLATION.
- EXCEPT IN D.O.T. STATE ROAD, MIN. 36".
- NIPPLES TO BE INSTALLED PER MFG'R RECOMMENDATIONS ON COMPRESSION LOK-PAKS. NOTE 1 1/2" SLIDE CLEARANCE.

Date	Revisions	Appr. by
05/12/04	J.C.	K.R.



GENERAL NOTES:

- THE ASSEMBLY MUST BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 18", FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
- THE BACKFLOW PREVENTION ASSEMBLY SHALL BE ON THE APPROVED LIST OF FOUNDATION FOR CROSS CONNECTION CONTROL, UNIVERSITY OF SOUTHERN CALIFORNIA. CONTRACTOR TO PROVIDE MANUFACTURERS CERTIFICATION OF U.S.C. APPROVAL.
- ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE FACTORY ASSEMBLED INCLUDING SHUT-OFF VALVE AS REQUIRED BY U.S.C. FOUNDATION FOR CROSS CONNECTION CONTROL STANDARDS.
- BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION APPROVED BY CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPT. LOCATIONS INSIDE BUILDINGS OR WITH OTHERWISE RESTRICTED ACCESS WILL NOT BE APPROVED.

Date	Revisions	Appr. by
05/04	SPECIFICATIONS	AV/KR
09/04	DWG & SPECIFICATIONS	JCC/KR
07/05	DWG & GENERAL NOTES	JCC/KR

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT		
Date	Revisions	Appr. by
Nov. 2000		

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT		
TYPICAL WATER SERVICE CONNECTION		
Date	Revisions	Appr. by
July 2000		

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT		
TYPICAL 1 1/2" & 2" SERVICE & METER INSTALLATION		
Date	Revisions	Appr. by
Nov. 2000		

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT		
ABOVE-GROUND METER & BACKFLOW INSTALLATION FOR METERS 3" AND LARGER		
Date	Revisions	Appr. by
Nov. 2000		

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FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
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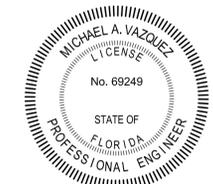
Drawn By: REP
Reference: 3007-030
Plotted: 9/22/2015 5:28 PM

Cad. No.: 151294CP
Scale: As Shown
Job No.: 157016

16300 NE 19th Avenue
City of North Miami Beach, Miami-Dade County, Florida

Cambria Hotel & Suites
Conceptual Paving, Drainage Water and Sewer Details

Original Date: 09/14/15
Dwg. No.: 3015-034
Sheet: C7



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MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). *	PIPE SIZE									
	6"	8"	10"	12"	16"	20"	24"	30"	36"	
90° BEND	23	30	36	42	53	63	73	86	97	
45° BEND	10	12	15	17	22	26	30	36	40	
22-1/2° BEND	5	6	7	8	11	13	16	19		
11-1/4° BEND	2	3	4	4	5	6	7	8	10	
PLUG, BRANCH OF TEE OR DEAD END	23	30	36	42	53	63	73	86	97	

NOTES:

- FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
- INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
- WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
- LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:

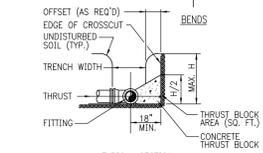
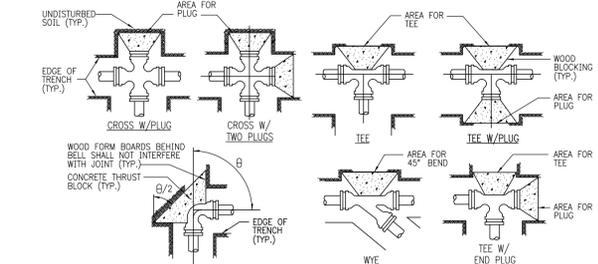
WORKING PRESSURE: 150 P.S.I.*
 SOIL CONDITIONS: SAND / SILT
 MINIMUM COVER: 3 FT.*

ENGINEER OF RECORD SHALL CONFIRM ACTUAL LYING CONDITIONS AND INCREASE RESTRAINED LENGTHS AS REQUIRED.

5. FOR PIPE ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR 1.5.

6. ALL FITTINGS AND PIPE JOINTS 6" OR SMALLER MAY BE RESTRAINED USING THRUST BLOCKS. ALL OTHERS MUST BE RESTRAINED AS FOLLOWS:

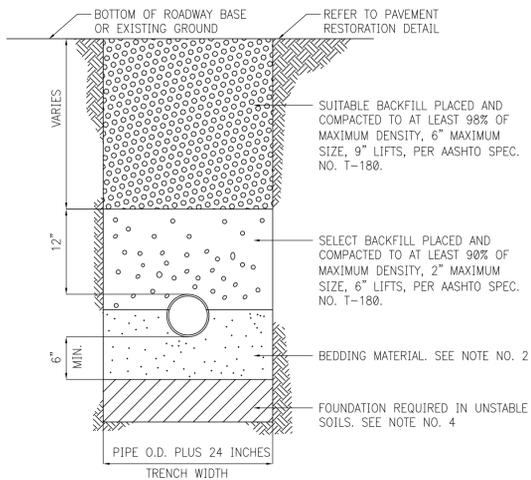
JOINT
 PUSH-ON PVC EBAA IRON SERIES 2000 HARNESS
 PUSH-ON DIP TR-FLEX BY U.S. PIPE OR FLEX RING BY AMERICAN
 FITTINGS WITH DIP EBAA IRON SERIES 1100 MEGALUG
 FITTINGS WITH PVC EBAA IRON SERIES 2000 MEGALUG



SCHEDULE FOR THRUST BLOCK AREAS *

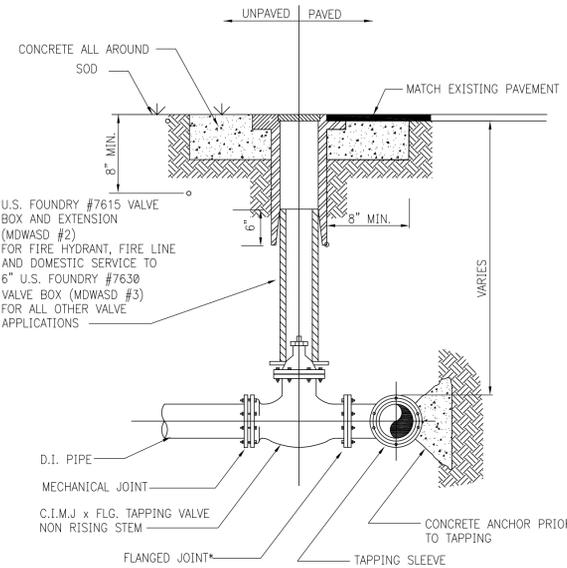
PIPE SIZE (INCHES)	90° BEND (SQ. FT)	45° BEND (SQ. FT)	22-1/2° BEND (SQ. FT)	11-1/4° BEND (SQ. FT)	TEE & PLUG (SQ. FT)	DESIGN PRESS (PSI)
4	1.8	1.0	0.5	0.2	1.3	150
6	4.0	2.2	1.1	0.6	2.8	150
8	7.1	3.8	2.0	1.0	5.0	150
10	11.1	6.0	3.1	1.5	7.9	150
12	16.0	8.7	4.4	2.2	11.3	150
14	21.8	11.8	6.0	3.0	15.4	150
16	28.4	15.4	7.8	3.9	20.1	150

NOTE: THRUST BLOCK AREAS TO BE COMPUTED ON BASIS OF U.S. PIPE CO. FT. SOIL RESISTANT BEARING. (1,200 MIN) SEE NOTE 5



NOTES:

- FOR EXCAVATION AND BACKFILL AROUND MANHOLES, APPURTENANCES, OR IN WATER, REFER TO PROVISIONS WITHIN THE SPECIFICATIONS.
- UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAX. SIZE, OR WASHED AND GRADED LIMEROCK (3/8" - 7/8"), COMPACTED TO AT LEAST 90% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-180.
- WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH SPECIFICATION.
- WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED, COMPACTED TO AT LEAST 90% OF MAX. DENSITY, 6" LIFTS PER AASHTO SPEC. NO. T-180. FOUNDATION MATERIAL SHALL BE SELECT BACKFILL MATERIAL, 2" MAXIMUM SIZE, 6" LIFTS. EXTEND EXCAVATION UNTIL A SUITABLE MATERIAL IS FOUND.
- IN A LOW PRESSURE SEWER SYSTEM USE SAND OR 1/4" RICE ROCK FOR SELECT BEDDING AND 12" SELECT BACKFILL MATERIAL AS SHOWN ABOVE. MINIMUM 36" OF COVER.



NOTES:

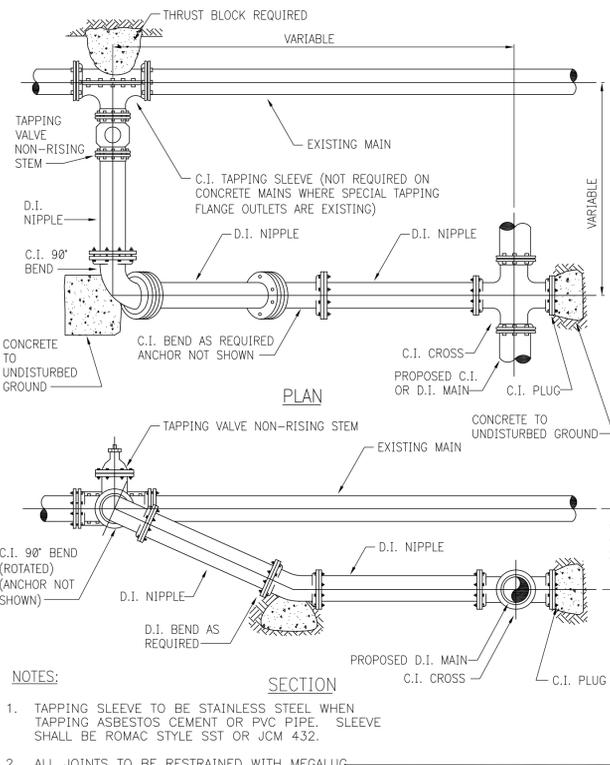
- DUCTILE IRON M.J. TAPPING SLEEVES SHALL BE USED FOR C.I. OR D.I. PIPE, WHEN MAKING A FULL DIAMETER TAP. WHERE THE TAP IS LESS THAN THE DIAMETER OF THE EXISTING MAIN, A STAINLESS STEEL SLEEVE MAY BE USED.
- TAP SLEEVE TO BE ROMAC STAINLESS STEEL STYLE (SST) OR JCM 432 FOR A.C. OR PLASTIC PIPE.
- WHEN TAPPING INTO A FORCE MAIN, AFTER COMPLETION OF THE TAPPING OPERATION, A PLUG VALVE SHALL BE INSTALLED AFTER THE TAPPING VALVE.

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
RESTRAINED PIPE DETAIL			
Date	Revisions	Appr. by	Date: July 2000 Scale: N.T.S. Dwg: F108 Fig: 240

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
THRUST BLOCK DETAIL			
Date	Revisions	Appr. by	Date: July 2000 Scale: N.T.S. Dwg: F107 Fig: 245

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
TYPICAL TRENCH BACKFILL			
Date	Revisions	Appr. by	Date: Nov. 2000 Scale: N.T.S. Dwg: F314 Fig: 250

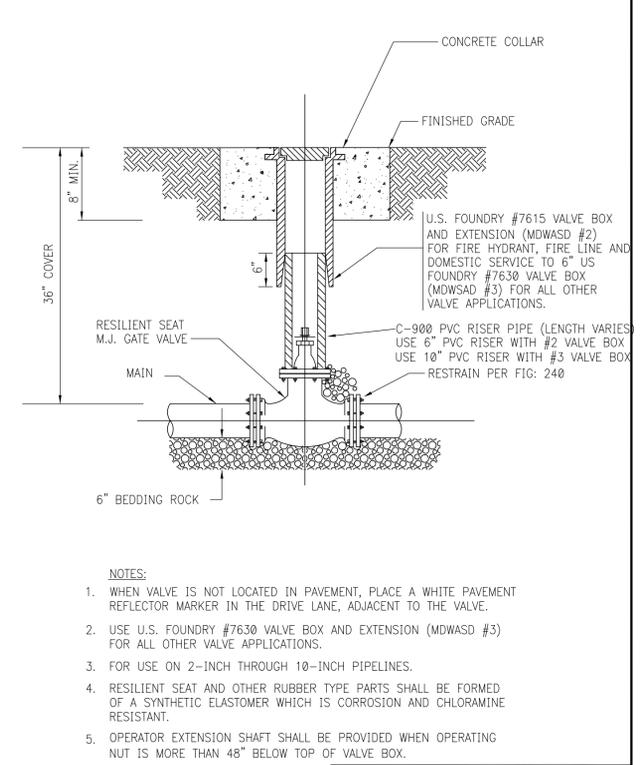
CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
TYPICAL TAPPING VALVE SETTING (10" AND SMALLER)			
Date	Revisions	Appr. by	Date: Nov. 2000 Scale: N.T.S. Dwg: F310 Fig: 264



NOTES:

- TAPPING SLEEVE TO BE STAINLESS STEEL WHEN TAPPING ASBESTOS CEMENT OR PVC PIPE. SLEEVE SHALL BE ROMAC STYLE SST OR JCM 432.
- ALL JOINTS TO BE RESTRAINED WITH MEGALUG RETAINER GLANDS.

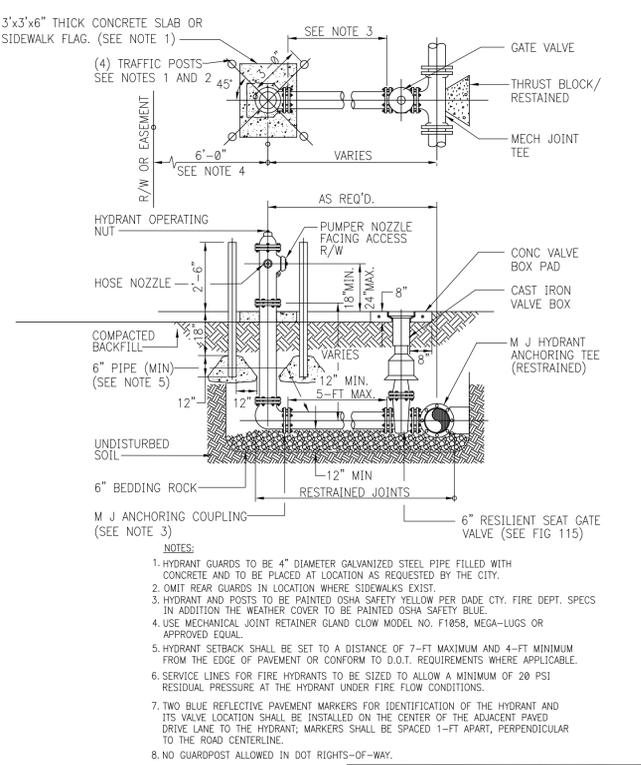
CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
TYPICAL CONNECTION TO EXISTING MAIN			
Date	Revisions	Appr. by	Date: Nov. 2000 Scale: N.T.S. Dwg: F313 Fig: 265



NOTES:

- WHEN VALVE IS NOT LOCATED IN PAVEMENT, PLACE A WHITE PAVEMENT REFLECTOR MARKER IN THE DRIVE LANE, ADJACENT TO THE VALVE.
- USE U.S. FOUNDRY #7630 VALVE BOX AND EXTENSION (MDWASD #3) FOR ALL OTHER VALVE APPLICATIONS.
- FOR USE ON 2-INCH THROUGH 10-INCH PIPELINES.
- RESILIENT SEAT AND OTHER RUBBER TYPE PARTS SHALL BE FORMED OF A SYNTHETIC ELASTOMER WHICH IS CORROSION AND CHLORAMINE RESISTANT.
- OPERATOR EXTENSION SHAFT SHALL BE PROVIDED WHEN OPERATING NUT IS MORE THAN 48" BELOW TOP OF VALVE BOX.

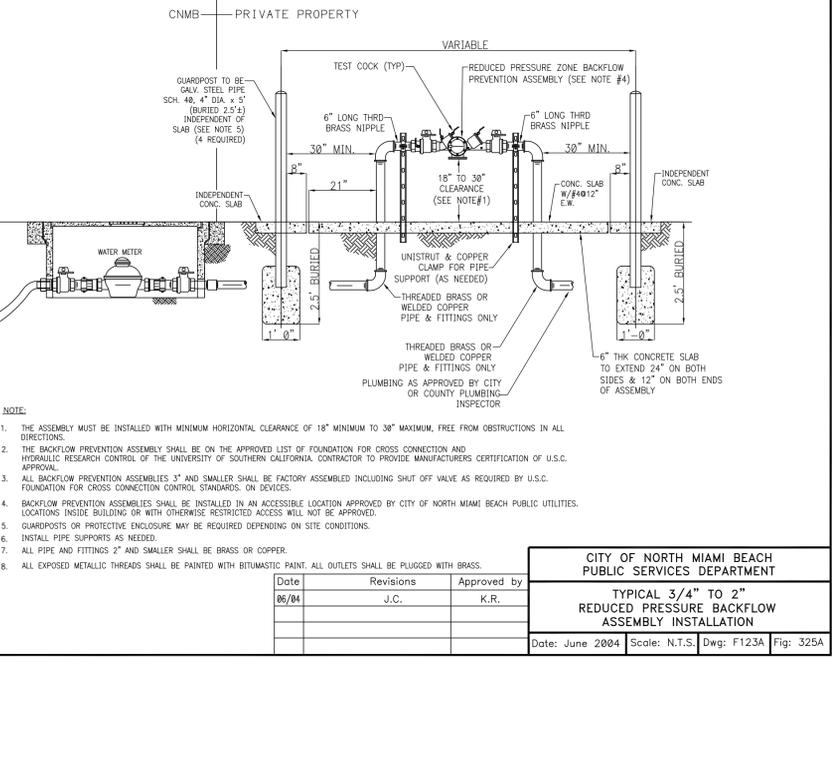
CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
GATE VALVE AND BOX DETAIL			
Date	Revisions	Appr. by	Date: July 2000 Scale: N.T.S. Dwg: F115 Fig: 305



NOTES:

- HYDRANT GUARDS TO BE 4" DIAMETER GALVANIZED STEEL PIPE FILLED WITH CONCRETE AND TO BE PLACED AT LOCATION AS REQUESTED BY THE CITY.
- OMIT REAR GUARDS IN LOCATION WHERE SIDEWALKS EXIST.
- HYDRANT AND POSTS TO BE PAINTED OSHA SAFETY YELLOW PER DADE CTY. FIRE DEPT. SPECS IN ADDITION THE WEATHER COVER TO BE PAINTED OSHA SAFETY BLUE.
- USE MECHANICAL JOINT RETAINER GLAND CLOW MODEL NO. F1858, MEGA-LUGS OR APPROVED EQUAL.
- HYDRANT SETBACK SHALL BE SET TO A DISTANCE OF 7-FT MAXIMUM AND 4-FT MINIMUM FROM THE EDGE OF PAVEMENT OR CONFORM TO D.O.T. REQUIREMENTS WHERE APPLICABLE.
- SERVICE LINES FOR FIRE HYDRANTS TO BE SIZED TO ALLOW A MINIMUM OF 20 PSI RESIDUAL PRESSURE AT THE HYDRANT UNDER FIRE FLOW CONDITIONS.
- TWO BLUE REFLECTIVE PAVEMENT MARKERS FOR IDENTIFICATION OF THE HYDRANT AND ITS VALVE LOCATION SHALL BE INSTALLED ON THE CENTER OF THE ADJACENT PARKED DRIVE LANE TO THE HYDRANT; MARKERS SHALL BE SPACED 1-FT APART, PERPENDICULAR TO THE ROAD CENTERLINE.
- NO GUARDPOST ALLOWED IN DOT RIGHTS-OF-WAY.

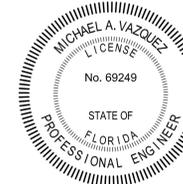
CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
HYDRANT ASSEMBLY DETAIL			
6/05	ADD NEW NOTE #3/A.V.	K.R.	
Date	Revisions	Appr. by	Date: Nov. 2000 Scale: N.T.S. Dwg: F103 Fig: 335



NOTES:

- THE ASSEMBLY MUST BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCE OF 18" MINIMUM TO 30" MAXIMUM, FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
- THE BACKFLOW PREVENTION ASSEMBLY SHALL BE ON THE APPROVED LIST OF FOUNDATION FOR CROSS CONNECTION AND HYDRAULIC RESEARCH CONTROL OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, CONTRACTOR TO PROVIDE MANUFACTURERS CERTIFICATION OF U.S.C. APPROVAL.
- ALL BACKFLOW PREVENTION ASSEMBLIES 3" AND SMALLER SHALL BE FACTORY ASSEMBLED INCLUDING SHUT OFF VALVE AS REQUIRED BY U.S.C. FOUNDATION FOR CROSS CONNECTION CONTROL STANDARDS, ON DEVICES.
- BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION APPROVED BY CITY OF NORTH MIAMI BEACH PUBLIC UTILITIES. LOCATIONS INSIDE BUILDING OR WITH OTHERWISE RESTRICTED ACCESS WILL NOT BE APPROVED.
- GUARDPOSTS OR PROTECTIVE ENCLOSURE MAY BE REQUIRED DEPENDING ON SITE CONDITIONS.
- INSTALL PIPE SUPPORTS AS NEEDED.
- ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE BRASS OR COPPER.
- ALL EXPOSED METALLIC THREADS SHALL BE PAINTED WITH BITUMASTIC PAINT. ALL OUTLETS SHALL BE PLUGGED WITH BRASS.

CITY OF NORTH MIAMI BEACH PUBLIC SERVICES DEPARTMENT			
TYPICAL 3/4" TO 2" REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION			
Date	Revisions	Approved by	
06/04	J.C.	K.R.	
Date	Revisions	Appr. by	Date: June 2004 Scale: N.T.S. Dwg: F123A Fig: 325A



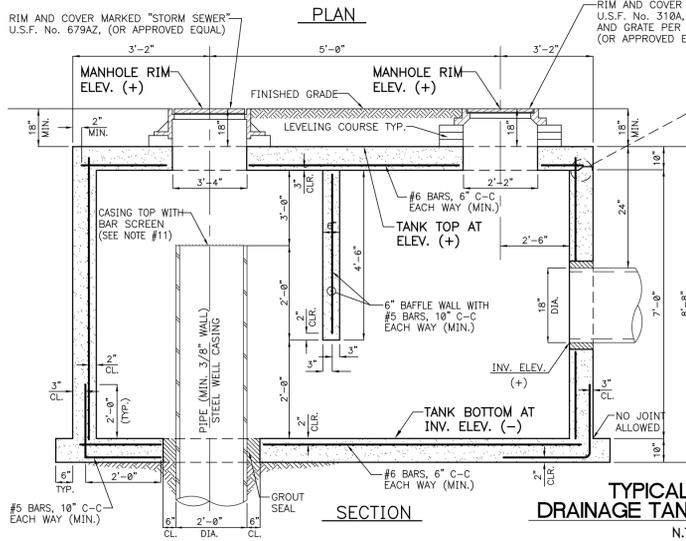
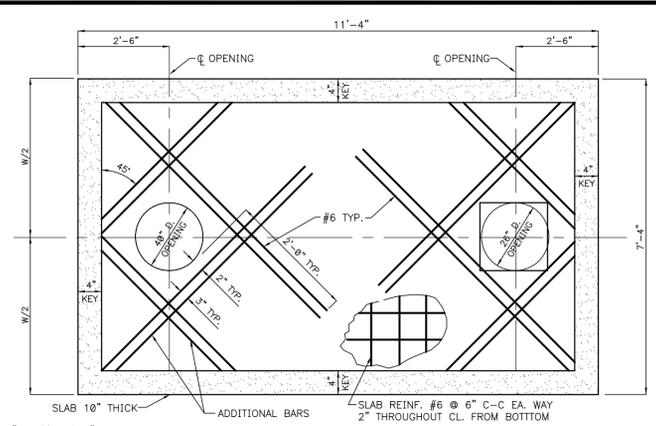
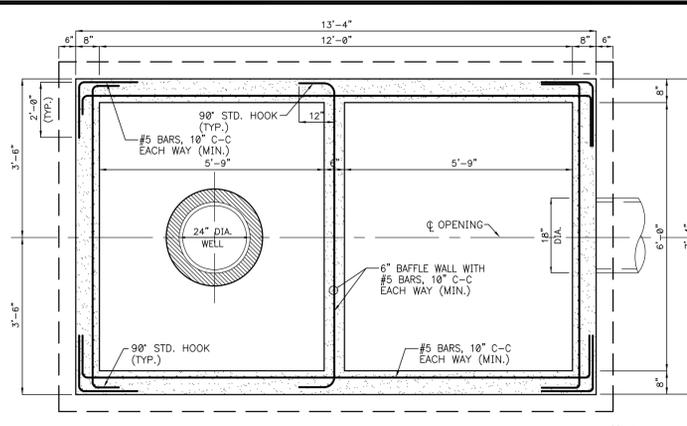
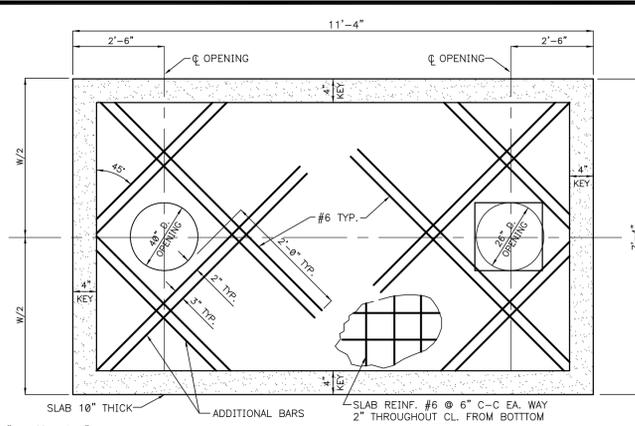
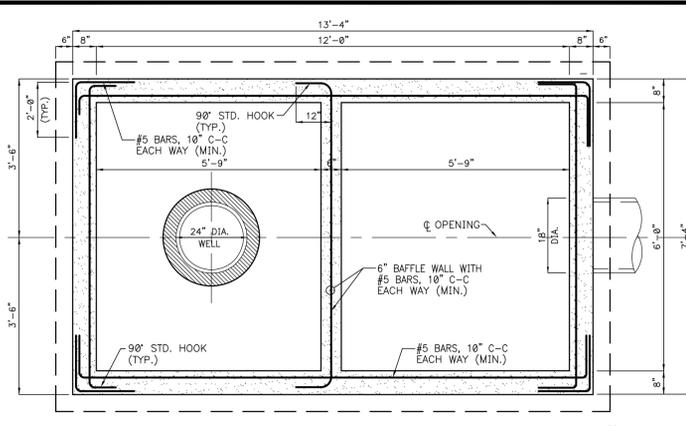
FORTIN, LEAVY, SKILES, INC.
 CONSULTING ENGINEERS, SURVEYORS & MAPPERS
 FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
 180 Northeast 168th Street, North Miami Beach, Florida 33162
 Phone: 305-653-4493 / Fax: 305-651-7152 / Email: fls@flsurvey.com

Drawn By: REP
 Reference: 3007-030
 Plotted: 9/22/2015 5:26 PM
 Cad. No.: 151294CP
 Scale: As Shown
 Job No.: 157016

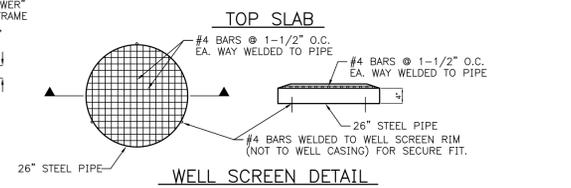
16300 NE 19th Avenue
 City of North Miami Beach, Miami-Dade County, Florida

Cambria Hotel & Suites
 Conceptual Paving, Drainage Water and Sewer Details

Original Date: 09/14/15
 Dwg. No.: 3015-034
 Sheet: C6



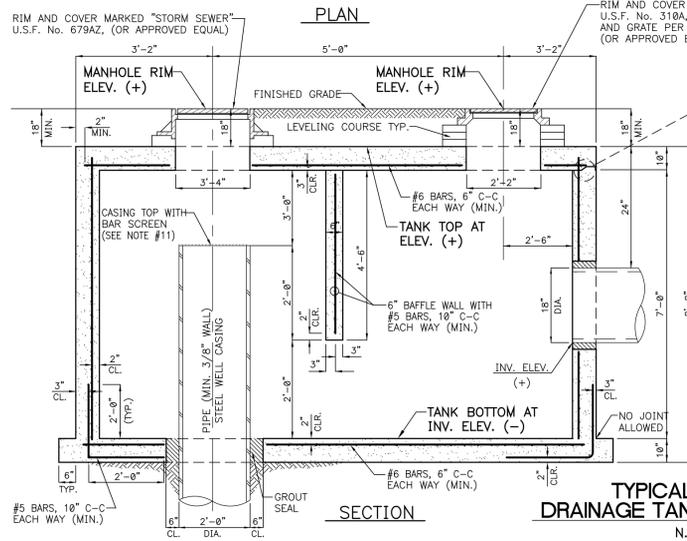
TYPICAL DETAIL DRAINAGE TANK AND WELL 'A'
N.T.S.



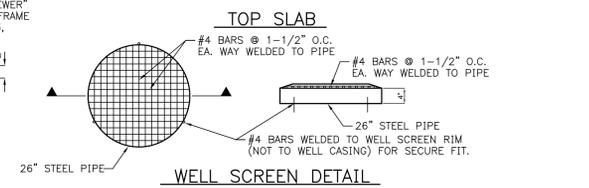
WELL SCREEN DETAIL

GENERAL NOTES:

1. THE DRAINAGE WELL CASING SHALL BE EXTENDED TO A DEPTH AT WHICH THE GROUND WATER CONTAINS NOT LESS THAN 10,000 P.P.M. TOTAL DISSOLVED SOLIDS.
2. THE BOTTOM OF THE WELL SHALL EXTEND AT LEAST 10 FT. BELOW THE BOTTOM OF THE WELL CASING.
3. EACH OF THE WELLS SHALL BE DEVELOPED TO DISCHARGE _____ G.P.M. PER FOOT OF HEAD.
4. TANK AND COVER SHALL BE MARKED "STORM SEWER" FOR U.S.F. No. 671-AE-BWT & 465-B-BWT (OR APPROVED EQUAL).
5. ALL CONCRETE SHALL BE 4,000 P.S.I. AT 28 DAYS.
6. ALL REINFORCING SHALL BE A.S.T.M. A-36.
7. TANK STRUCTURE SHALL BE PREFABRICATED.
8. LIFTING BARS TO BE CAST IN IF REQUIRED AND CUT OFF AFTER INSTALLATION OF BOX.
9. ENGINEERING INSPECTIONS REQUIRED FOR TANK AFTER UNLOADING AT JOB SITE PRIOR TO PLACEMENT, AND AGAIN AFTER PLACEMENT BUT PRIOR TO COVER INSTALLATION.
10. ELEVATIONS SHOWN HEREON ARE PER N.G.V.D. (NATIONAL GEODETIC VERTICAL DATUM, 1929)
11. A BAR SCREEN WITH 1-1/2" MAX. OPENING SHALL BE WELDED TO THE TOP OF THE WELL CASING (SEE DETAIL ABOVE).



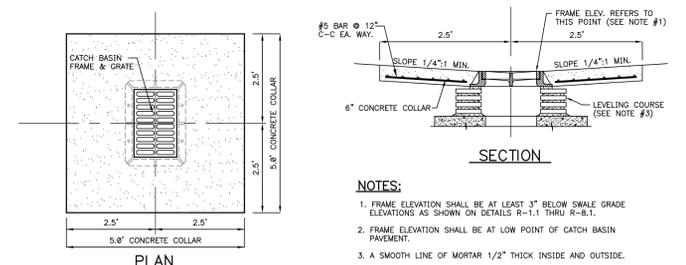
TYPICAL DETAIL DRAINAGE TANK AND WELL 'B'
N.T.S.



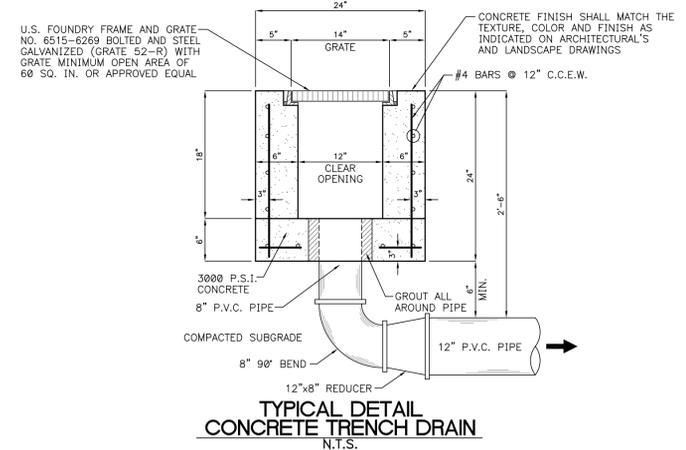
WELL SCREEN DETAIL

GENERAL NOTES:

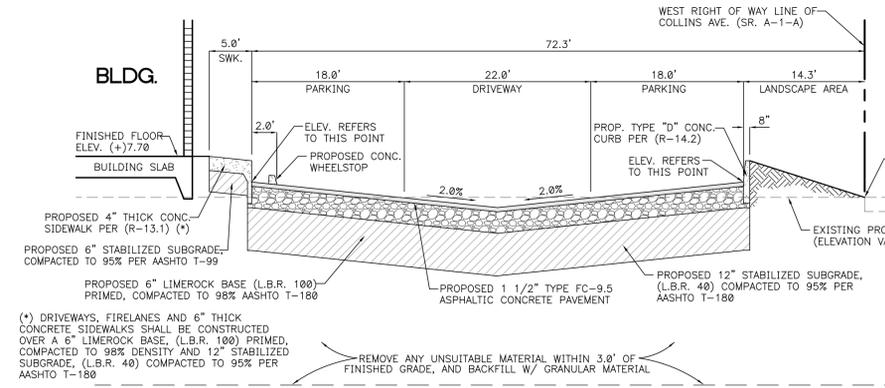
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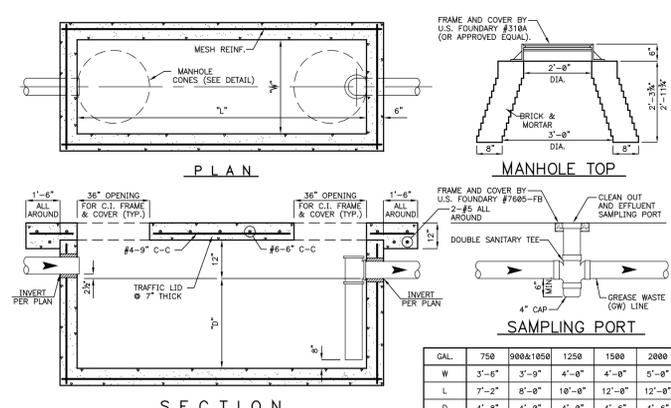
TYPICAL DETAIL CATCH BASIN CONCRETE COLLAR
N.T.S.



TYPICAL DETAIL CONCRETE TRENCH DRAIN
N.T.S.

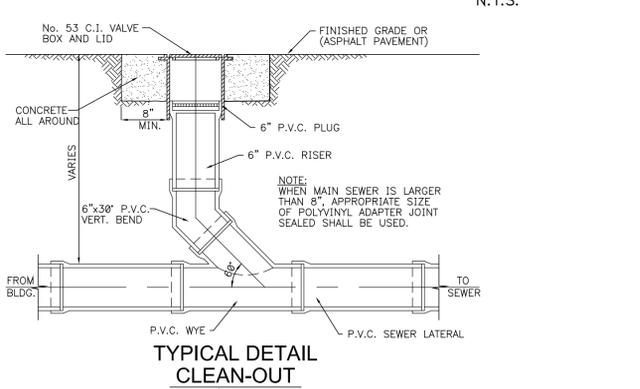


TYPICAL SECTION DRIVEWAY AND PARKING AREA
N.T.S.



TYPICAL DETAIL GREASE TRAP
N.T.S.

	750	900x1050	1250	1500	2000
W	3'-6"	3'-9"	4'-0"	4'-8"	5'-0"
L	7'-2"	8'-0"	10'-0"	12'-0"	12'-0"
D	4'-8"	4'-8"	4'-8"	4'-6"	4'-6"



TYPICAL DETAIL CLEAN-OUT
N.T.S.

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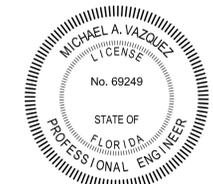
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Plotted: 9/22/2015 5:26 PM

Cad. No.: 151294CP
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Cambria Hotel & Suites
Conceptual Paving, Drainage Water and Sewer Details

Original Date: 09/14/15
Dwg. No.: 3015-034
Sheet: C5



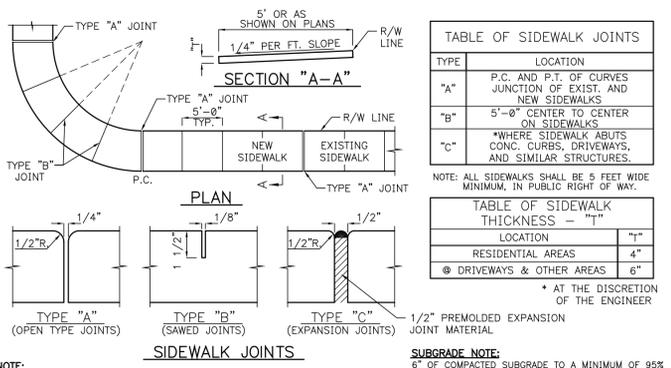
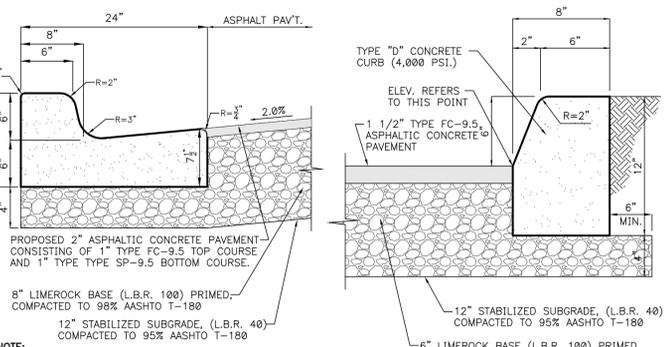


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXIST. AND NEW SIDEWALKS
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS
"C"	*WHERE SIDEWALK ABUTS CONC. CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

TABLE OF SIDEWALK THICKNESS	
LOCATION	THICKNESS
RESIDENTIAL AREAS	4"
DRIVEWAYS & OTHER AREAS	6"

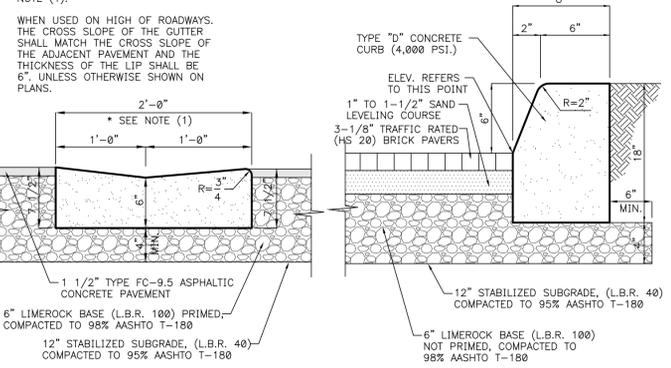
NOTE: 6" THICK CONC. SIDEWALKS SHALL BE CONSTRUCTED OVER A 6" LIMEROCK BASE (L.B.R. 100) PRIMED, COMPACTED TO 98% DENSITY AND 12" STABILIZED SUBGRADE, AND 1 FOOT BEYOND EACH SIDE WHERE RIGHT OF WAY (L.B.R. 40) COMPACTED TO 95% PER AASHTO T-180

TYPICAL DETAIL SIDEWALK CONSTRUCTION
N.T.S.



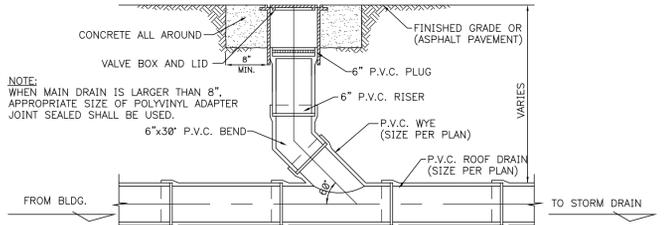
NOTE: WHEN USED ON HIGH OF ROADWAY, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON PLANS.

TYPICAL DETAIL TYPE 'F' CURB AND GUTTER
N.T.S.



NOTE: WHEN USED ON HIGH OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON PLANS.

TYPICAL DETAIL TYPE 'D' CONC. CURB
N.T.S.

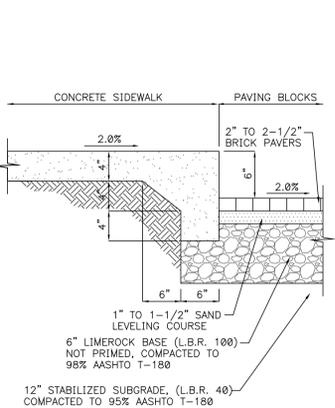


NOTE: WHEN MAIN DRAIN IS LARGER THAN 8" APPROPRIATE SIZE OF POLYVINYL ADAPTER JOINT SEALED SHALL BE USED.

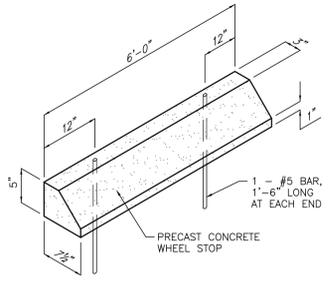
TYPICAL DETAIL 2' VALLEY GUTTER
N.T.S.



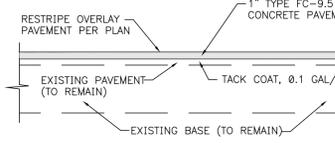
TYPICAL DETAIL STORM DRAIN AND CLEAN-OUT
N.T.S.



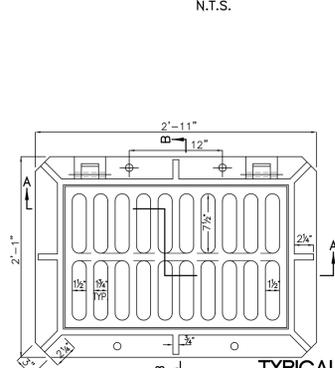
TYPICAL DETAIL SWK. ADJACENT TO PAVERS
N.T.S.



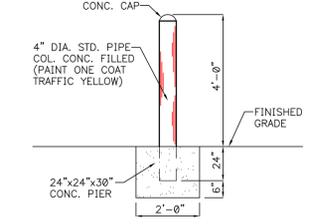
TYPICAL DETAIL CONCRETE WHEEL STOP
N.T.S.



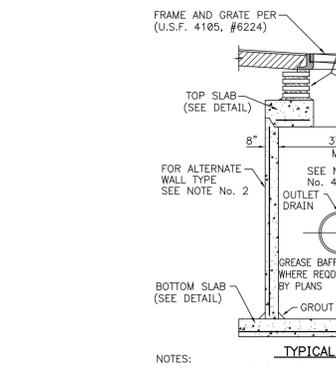
TYPICAL DETAIL PAVEMENT OVERLAY
N.T.S.



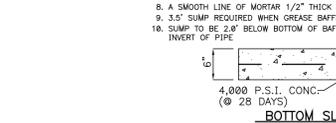
TYPICAL DETAIL CATCH BASIN FRAME AND HINGED GRATE
N.T.S.



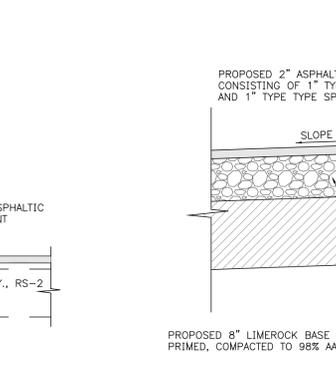
TYPICAL DETAIL BOLLARDS
N.T.S.



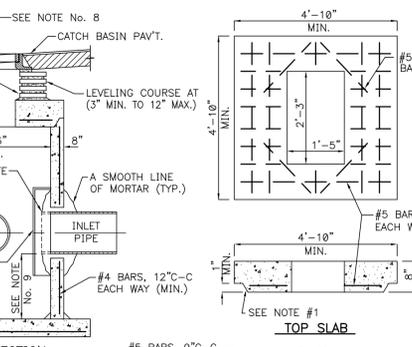
TYPICAL SECTION PRECAST CATCH BASIN
N.T.S.



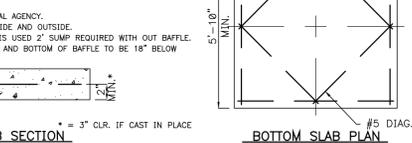
BOTTOM SLAB SECTION



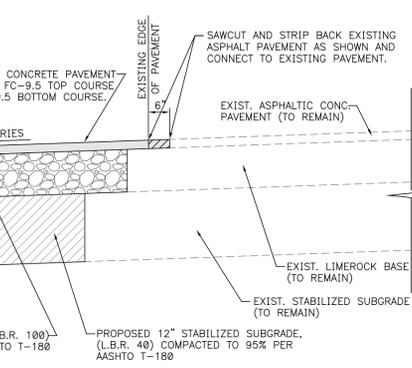
TYPICAL DETAIL PAVEMENT CONNECTION
N.T.S.



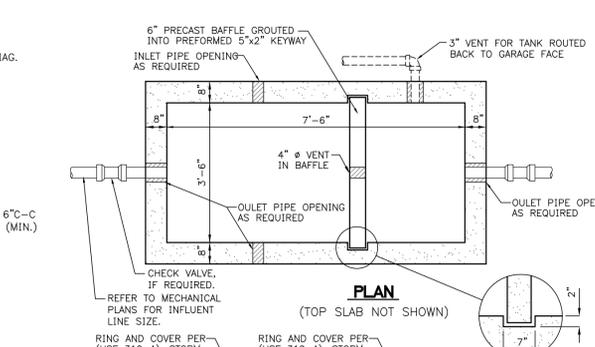
TYPICAL SECTION PRECAST CATCH BASIN
N.T.S.



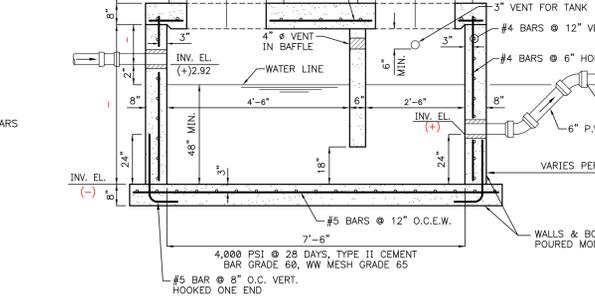
BOTTOM SLAB SECTION



TYPICAL DETAIL PAVEMENT CONNECTION
N.T.S.

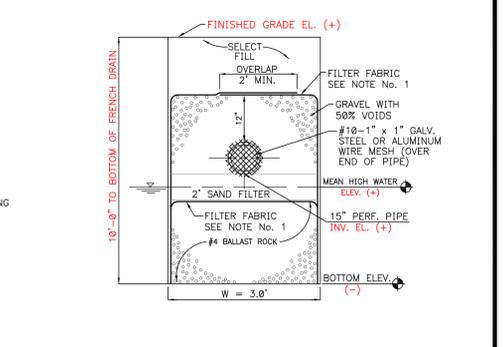


TYPICAL SECTION OIL INTERCEPTOR AND INFILTRATION TRENCH DETAIL
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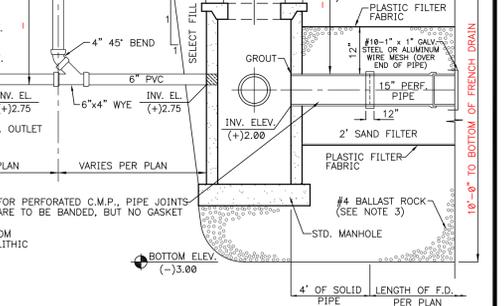


TYPICAL SECTION OIL INTERCEPTOR AND INFILTRATION TRENCH DETAIL
N.T.S.

NOTES:
1. NON-WOVEN PLASTIC FILTER FABRIC PER F.D.O.T. STANDARD INDEX #199 (TYPE D-3 FOR FRENCH DRAIN) SHALL BE USED AT EACH SIDE AND ON TOP AND AT EACH END OF FRENCH DRAIN TRENCH. SHOP SPECS. AND A SAMPLE OF THE MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLING THE FABRIC.
2. THE BOTTOM OF THE INFILTRATION TRENCH SHALL BE AT ELEV. -13.00 N.G.V.D. UNLESS OTHERWISE SHOWN.
3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY VIBRATED OR COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION SO THAT THE INFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAIL.

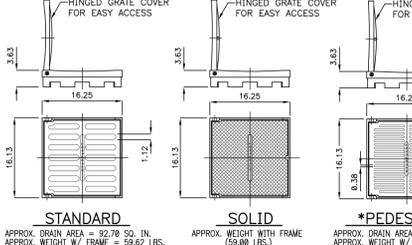


TYPICAL SECTION OIL INTERCEPTOR AND INFILTRATION TRENCH DETAIL
N.T.S.

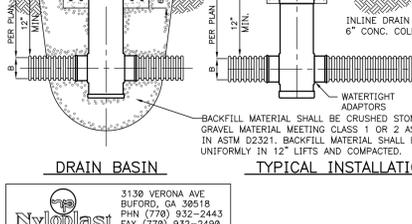


TYPICAL SECTION OIL INTERCEPTOR AND INFILTRATION TRENCH DETAIL
N.T.S.

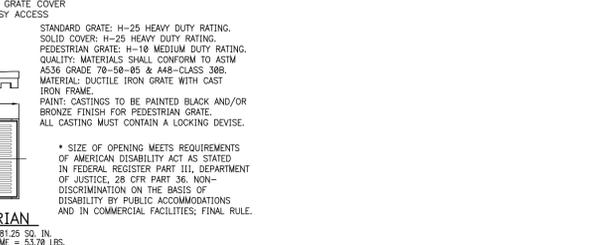
NOTES:
1. MIN. OF 750 GALLONS) CONSTRUCTION OF OIL INTERCEPTOR SHALL MEET THE FLORIDA BUILDING CODE DESIGN CONSTRUCTION AND SPECIFICATIONS.
2. THE BOTTOM OF THE INFILTRATION TRENCH SHALL BE AT ELEV. -13.00 N.G.V.D. UNLESS OTHERWISE SHOWN.
3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY VIBRATED OR COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION SO THAT THE INFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAIL.



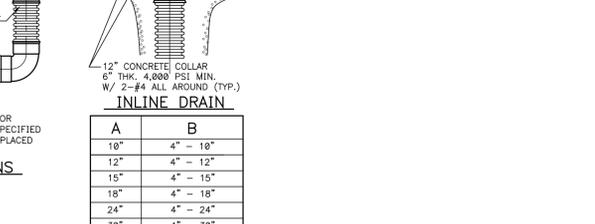
TYPICAL DETAIL HINGED GRATE COVER
N.T.S.



TYPICAL DETAIL 12' OR 15' DRAIN BASIN / INLINE DRAIN
N.T.S.



TYPICAL DETAIL HINGED GRATE COVER
N.T.S.



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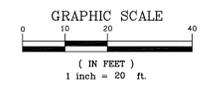


LEGEND:			
	CATCH BASIN		SANITARY SEWER MAIN
	UTILITY MANHOLES		WATER MAIN
	FIRE HYDRANT		STORM SEWER LINES
	UTILITY VALVES		BELLSOUTH TELEPHONE
	WATER METER		GAS MAINS
	TEL./ELEC. BOX		ELECTRIC (FPL)
	WOOD POWER POLE		SANITARY FORCE MAIN
	POWER POLE w/LUMINAIRE		TRAFFIC SIGN
	CONC. POWER POLE		ASPHALT PAVEMENT
	CONCRETE WALKWAYS		CONC. WHEEL STOP
	TYPE "T" CONC. CURB		DRAINAGE FLOW DIRECTION
	TYPE "T" CURB & GUTTER		EXIST. GROUND ELEVATION
	EXIST. IMPROVEMENTS		PROP. GRADE ELEVATION (PAVEMENT OR GROUND)
	CHAIN LINK FENCE		

NE 163rd STREET
(STATE ROAD NO. 826)
(OCEAN BOULEVARD PER PLAT BOOK 8, PAGE 64)

NE 164th STREET
(SW GRIFLING WAY PER PLAT BOOK 8, PAGE 64)

NE 19th AVENUE
(FLAGLER BOULEVARD PER PLAT BOOK 8, PAGE 64)



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No.	Date	Revision Description

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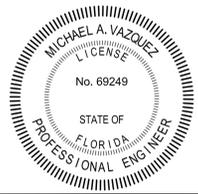
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Reference: 3007-030
Plotted: 9/22/2015 5:25 PM

Cad. No.: 151294CP
Scale: 1" = 20'
Job No.: 157016

16300 NE 19th Avenue
City of North Miami Beach, Miami-Dade County, Florida

Cambria Hotel & Suites
Conceptual Water & Sewer Plans

Original Date: 09/14/15
Dwg. No.: 3015-034
Sheet: C3



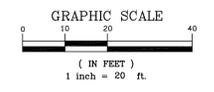
NE 163rd STREET
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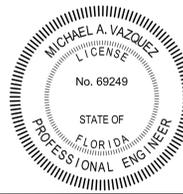
- LEGEND:**
- CATCH BASIN
 - UTILITY MANHOLES
 - FIRE HYDRANT
 - UTILITY VALVES
 - WATER METER
 - TEL./ELEC. BOX
 - WOOD POWER POLE
 - POWER POLE w/LUMINAIRE
 - CONC. POWER POLE
 - CONCRETE WALKWAYS
 - TYPE "D" CONC. CURB
 - TYPE "T" CURB & GUTTER
 - EXIST. IMPROVEMENTS
 - CHAIN LINK FENCE
 - SANITARY SEWER MAIN
 - WATER MAIN
 - STORM SEWER LINES
 - BELLSOUTH TELEPHONE
 - GAS MAINS
 - ELECTRIC (FPL)
 - SANITARY FORCE MAIN
 - TRAFFIC SIGN
 - ASPHALT PAVEMENT
 - CONC. WHEEL STOP
 - DRAINAGE FLOW DIRECTION
 - EXIST. GROUND ELEVATION
 - PROP. GRADE ELEVATION (PAVEMENT OR GROUND)

- LEGEND**
- CATCH BASIN
 - MANHOLE
 - LIGHT POLE
 - WATER METER
 - WATER VALVE
 - CATCH BASIN INLET
 - UTILITY POLE
 - RISER
 - FIRE HYDRANT
 - HANDHOLE
 - SIGN
 - CHAIN LINK FENCE
 - GRADE ELEVATION
 - EXIST.
 - ELEVATION
 - INVERT
 - SANITARY
 - P.O.C. = POINT OF COMMENCEMENT
 - P.R.M. = PERMANENT REFERENCE MONUMENT
 - P.O.B. = POINT OF BEGINNING
 - CONCRETE
 - ASPHALT PAVEMENT



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No.	Date	Revision Description

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
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Drawn By: REP
Reference: 3007-030
Plotted: 9/22/2015 5:25 PM

Cad. No.: 151294CP
Scale: 1" = 20'
Job No.: 157016

16300 NE 19th Avenue
City of North Miami Beach, Miami-Dade County, Florida

Cambria Hotel & Suites
Conceptual Paving & Drainage Plans

Original Date: 09/14/15
Dwg. No.: 3015-034
Sheet: C2

Camabria Hotel & Suites

Conceptual Paving, Drainage, Water & Sewer Plans

City of North Miami Beach, Miami-Dade County, Florida

I. APPLICABLE CODES:

A. GENERAL:
EXCEPT AS PARTICULARLY NOTED ON THE PLANS, ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF NORTH MIAMI BEACH, THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL, THE FLORIDA BUILDING CODE, AND THE AMERICANS WITH DISABILITIES ACT (ADA), 2010 STANDARDS. IF ANY ITEM OF WORK IS NOT COVERED IN EITHER OF THOSE SPECIFICATIONS, IT SHALL BE CONSTRUCTED PER THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

B. CONSTRUCTION SAFETY:
1. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) SHALL BE STRICTLY OBSERVED.
2. CONTRACTOR PERFORMING UNDERGROUND WORK SHALL COMPLY WITH ANY AND ALL REQUIREMENTS OF CHAPTER 556, FLORIDA STATUTES AND THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT".

C. TRENCH SAFETY ACT:
1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT", AND ALL REQUIREMENTS OF O.S.H.A.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5.0') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
a. A REFERENCE TO THE SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
b. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
c. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
3. WHERE A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2, TO THE ENGINEER PRIOR TO STARTING WORK.

D. SURVEY DATA:
1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
2. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
3. THE APPROXIMATE LOCATION OF ALL EXISTING UTILITIES SHOWN HEREON WERE DETERMINED FROM AVAILABLE "AS-BUILT" PLANS AND/OR FIELD LOCATION OF VISIBLE IMPROVEMENTS. SOME EXISTING UTILITIES MIGHT NOT BE SHOWN DUE TO THE LACK OF RECORDS AND/OR INACCESSIBILITY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR LOCATION PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT OR CONSTRUCT THE PROJECT. UPON REQUEST, AN ELECTRONIC FILE OR GEOMETRIC CONTROL SHEET WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER OF RECORD.

II. PRECONSTRUCTION RESPONSIBILITY:

A. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE CONSTRUCTION CONFERENCE TO INCLUDE THE APPROPRIATE PERMITTING AGENCIES, THE OWNER, AND THE ENGINEER OF RECORD, AFTER OBTAINING A CONSTRUCTION PERMIT FROM THE APPROPRIATE PERMITTING AGENCY.
B. THE CONTRACTOR SHALL OBTAIN A "SUNSHINE CERTIFICATION NUMBER" AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
C. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, MATERIAL, AND CONDITION OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
D. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
E. CONTRACTOR SHALL UNCOVER ALL UNDERGROUND UTILITIES IN THE PATH OF THE WORK, WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS, AND TAKE VERTICAL AND HORIZONTAL MEASUREMENTS OF THE LOCATION OF THESE UTILITIES, AND IF ANY CONFLICTS ARE APPARENT REPORT THE MEASUREMENTS TO THE ENGINEER OF RECORD.
F. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO RESOLVE CONFLICTS BETWEEN DESIGN AND EXISTING FEATURES.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS SUNSHINE CERTIFICATION NUMBER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
H. ALL EXISTING IMPROVEMENTS THAT ARE TO BE DEMOLISHED MUST BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
I. CONTRACTOR SHALL COORDINATE SEQUENCE OF UTILITY CONSTRUCTION TO PREVENT UNDERMINING THE EXISTING AND PROPOSED BUILDING FOUNDATIONS.

III. SHOP DRAWING NOTES:

A. SHOP DRAWINGS SHALL BE CHECKED AND APPROVED FIRST BY THE CONTRACTOR AND THEN ONE COPY SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS.
B. ANY SYSTEM COMPONENT THAT IS ADDED DURING CONSTRUCTION MUST BE APPROVED IN ADVANCE BY THE ENGINEER OF RECORD. SUCH APPROVAL REQUIRES THE SUBMISSION OF A SHOP DRAWING (ONE COPY ONLY) FOR EACH SYSTEM COMPONENT. SHOP DRAWINGS WILL ALSO BE REQUIRED FOR ALL NON-STANDARD ITEMS.
C. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

IV. TEMPORARY FACILITIES:

A. TEMPORARY UTILITIES:
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEE AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
2. OBTAIN CONSTRUCTION METER FOR ALL WATER USED ON JOB. ALL WATER USED FOR CLEANING, TESTING, ETC. WILL BE PAID FOR BY THE CONTRACTOR. IF WATER CAN NOT BE METERED THEN IT WILL BE CALCULATED.
B. TRAFFIC REGULATION:
1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. AND F.D.O.T.
2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
3. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE PERMITTING AGENCIES.

V. PROJECT CLOSE OUT:

A. GENERAL:
1. CERTIFICATION OF COMPLETION OF PROJECT IN ACCORDANCE WITH PLANS AND SPECIFICATIONS WILL "NOT" BE ISSUED BY THE ENGINEER OF RECORD TO THE APPROPRIATE APPROVAL AND PERMITTING AGENCIES UNTIL ALL THE REQUIREMENTS DESCRIBED HEREIN HAVE BEEN MET.
B. CLEANING UP:
1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEPED BROOM CLEAN.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY OR DRIVEWAY, SIDEWALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR 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 PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
4. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED AS REQUIRED BY THE APPROPRIATE PERMITTING AGENCIES.

C. PROJECT RECORD DOCUMENTS:
1. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A SET OF FINAL "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED SURVEYOR, FOR ENGINEER'S REVIEW AND FILE.
2. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF ALL WORK ITEMS COMPLETED.
3. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER OF RECORD THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
4. PRIOR TO SUBMIT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD "AS-BUILT" PLANS SHOWING LIMEROCK BASE GRADES AND ALL DRAINAGE, WATER, AND SEWER IMPROVEMENTS, PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER OF RECORD AND THE APPROPRIATE PERMITTING AGENCIES HAVE REVIEWED AND APPROVED THE "AS-BUILT" PLANS.
5. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING THE LIMEROCK BASE MATERIAL.
6. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING ASPHALT.

VI. EARTHWORK AND COMPACTION NOTES:

A. GENERAL:
1. QUALITY CONTROL TESTING FOR STABILIZATION, BASE, PAVEMENT, COMPACTION, AND MATERIALS SHALL BE IN ACCORDANCE WITH FLORIDA D.O.T. REQUIREMENTS, AND SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR. COPIES OF ALL TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER OF RECORD AS THEY ARE RECEIVED.
2. EXISTING ON-SITE BASE MATERIAL SHALL NOT BE REUSED FOR BASE CONSTRUCTION, BUT MAY BE USED FOR BACKFILL AROUND UTILITY AND DRAINAGE LINES, AND FOR SUBGRADE CONSTRUCTION, AND FOR GENERAL FILL IF NECESSARY.
3. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 40 AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. ALL SUBGRADE UNDER SIDEWALK AREAS SHALL HAVE A MINIMUM OF 6" COMPACTED SUBGRADE TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
5. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
6. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SOODED.
7. SOO SHALL BE INSTALLED AND SPECIFIED AS SHOWN IN THE LANDSCAPED PLANS.
8. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.
9. NO MUCK BLANKET IS TO BE PLACED ON THE BOTTOM OF RETENTION AREAS OR SWALES.
B. ON-SITE:
1. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN THREE (3) FEET OF FINISHED GRADE AREAS TO BE PAVED SHALL BE REMOVED.
2. SUITABLE BACKFILL SHALL BE MINIMUM L.B.R. 40 MATERIAL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING.
3. EROSION CONTROL TO BE PROVIDED BY THE CONTRACTOR PER DETAILS ON THE PLANS.

VII. STORM DRAINAGE NOTES:

A. GENERAL:
1. EXISTING STORM DRAINAGE GRATES AND FRAMES AND MANHOLE COVERS AND RINGS THAT ARE TO BE REMOVED OR ADJUSTED, MAY BE REUSED ON THE SITE.
2. THE EXISTING DRAINAGE SYSTEM SHALL BE CLEANED AND/OR GRADED TO ENSURE PROPER FLOW AND FUNCTION.
3. THE CONTRACTOR SHALL INSTALL FILTER CLOTH AT ALL CATCH BASIN GRATES UNTIL FINAL ACCEPTANCE OF THE STORM DRAINAGE SYSTEM.
B. CONTRACTOR MAY UTILIZE ONE OF THE FOLLOWING MATERIALS, UNLESS OTHERWISE NOTED ON THE PLANS:
1. HIGH DENSITY POLYETHYLENE PIPE (H.D.P.E.)
a. PIPE SHALL BE CORRUGATED SMOOTH BORE POLYETHYLENE PIPE (N-12 PRO LINK ULTRA) OR APPROVED EQUAL, MANUFACTURED IN CONFORMANCE WITH ASTM M294.
b. PIPE SHALL HAVE BUILT-IN BELL JOINT WITH RUBBER GASKET IN CONFORMANCE WITH ASTM F477.
c. PIPE COUPLING BANDS IF NEEDED SHALL BE SPLIT/SPLIT PREMIUM REQUIRING MAXIMUM PULL-APART RESISTANT.
2. CORRUGATED ALUMINUM PIPE (CAP):
a. ALUMINUM PIPE SHALL CONFORM TO AASHTO M196 FOR CIRCULAR CORRUGATED PIPE OF AASHTO M211 FOR HELICALLY CORRUGATED PIPE, AND SECTION 945, AS PER FDOT STANDARD SPECIFICATIONS.
b. MAKE FIELD JOINTS IN (CAP) WITH BANDS FABRICATED OF THE SAME ALLOY AS THE CULVERT PIPE AND CONFORMING TO THE REQUIREMENTS OF AASHTO M196.

c. GASKET THE BANDED JOINTS WITH A NEOPRENE GASKET OF THE DESIGN INDICATED TO SECURE A SOIL-TIGHT OR WATERTIGHT JOINT.

3. POLYVINYL CHLORIDE PIPE (PVC):
a. PLASTIC PIPE SHALL CONFORM WITH ASTM D 3034, TYPE PSM, POLYVINYL CHLORIDE (PVC) MATERIAL; BELL AND SPIGOT STYLE SOLVENT SEALED END JOINTS.
4. REINFORCED CONCRETE PIPE (RCP):
a. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM C 76, CLASS III WITH WALL TYPE A; BAR REINFORCEMENT.
b. ALL REINFORCED CONCRETE PIPES SHALL HAVE BELL AND SPIGOT END JOINTS, AS MODIFIED BY SECTION 941, FDOT STANDARD SPECIFICATIONS.
c. ALL REINFORCED CONCRETE PIPES SHALL HAVE RUBBER COMPRESSION GASKET JOINTS AS PER ASTM C443, UNLESS OTHERWISE SPECIFIED.

C. MISCELLANEOUS:
1. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPES (EXCEPT FRENCH DRAINS) SHALL BE SAND WITH NO ROCK LARGER THAN 2" DIAMETER.
2. BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. CATCH BASINS SHALL BE PRECAST MINIMUM 3000 PSI CONCRETE WITH REINFORCED STEEL PER ASTM A615.

D. INSTALLATION:
1. PIPE SHALL BE PLACED ON STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO UNIFORM GRADE AND LINE.
2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL WELL TAMPED IN LAYERS NOT TO EXCEED SIX INCHES (6").
3. PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER. CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION SHALL NOT BE ALLOWED WITH LESS THAN 24 INCHES OF COVER.
4. THE CONTRACTOR SHALL NOTIFY THE LOCAL WATER MANAGEMENT DISTRICT AT LEAST 24 HOURS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

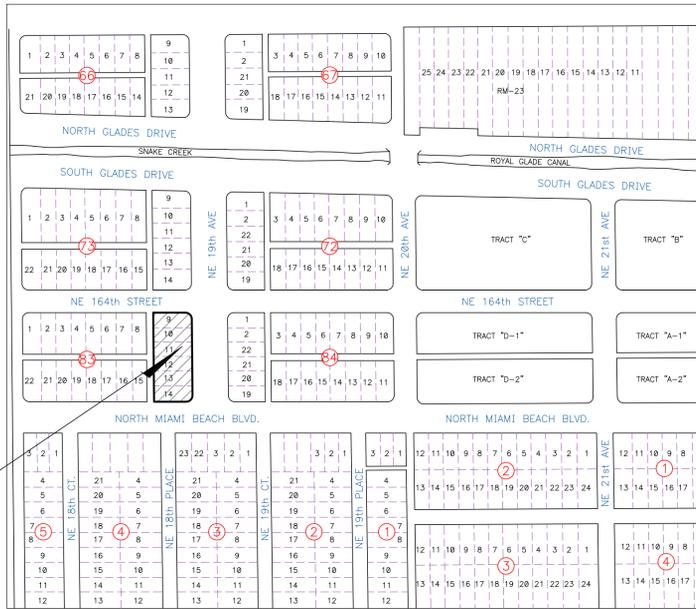
VIII. STORM DRAINAGE PRE-TREATMENT/EXFILTRATION SYSTEM:

A. ANY CONFLICT WITH EXISTING OR PROPOSED UTILITIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD. ANY IMPERMEABLE MATERIAL ENCOUNTERED IN THE EXCAVATION FOR THE DRAIN FIELD SHALL BE REMOVED AS DIRECTED BY THE ENGINEER OF RECORD.
B. THE TRENCH LINER SHALL BE NON-WOVEN TYPE D-3 PER F.D.O.T. INDEX 199, OR APPROVED EQUAL. IT SHALL BE USED ON THE SIDES AND TOP OF DRAIN FIELD DITCH. THE TOP SECTION OF THE MATERIAL SHALL BE LAPPED A MINIMUM OF 24 INCHES AND THE CONTRACTOR SHALL TAKE EXTREME CARE IN BACKFILLING TO AVOID BUNCHING OF THE FABRIC.
C. PERFORATED PIPE WITHIN THE DRAIN FIELD SHALL HAVE 3/8" INCH PERFORATIONS 360° AROUND THE PIPE WITH APPROXIMATELY 120 PERFORATIONS PER FOOT OF PIPE.
D. PERFORATED PIPE SHALL TERMINATE FIVE FEET (5.0') FROM THE DRAINAGE STRUCTURE. THE REMAINING FIVE FEET (5.0') SHALL BE NON-PERFORATED PIPE.
E. PIPES SHALL TERMINATE TWO FEET (2.0') FROM THE END OF THE TRENCH OR CONTACT TO ADDITIONAL CATCH BASINS.

IX. PAVING NOTES:

A. GENERAL:
1. ALL UNDERGROUND FACILITIES, INCLUDING WATER, SEWER, STORM DRAINAGE, SLEEVES FOR PUBLIC UTILITIES, AND IRRIGATION LINES SHALL BE INSTALLED PRIOR TO COMPACTION OF ROAD SUBGRADE AND INSTALLATION OF BASE MATERIAL.
2. ALL EXISTING PAVEMENT CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
3. WHERE PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
4. EXISTING ASPHALT PAVEMENT THAT IS TO BE REMOVED SHALL BE TRUCKED OFF SITE BY THE CONTRACTOR FOR DISPOSAL AT AN APPROVED LOCATION.
5. ALL ACCESSIBLE ROUTES CANNOT EXCEED A RUNNING SLOPE OF 1:20 (5%) AND CURB CUT RAMP AND RAMP CANNOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%). RAMP THAT EXCEED EXCEED 6" IN RISE REQUIRES HANDRAILS. ALL CROSS SLOPES CANNOT EXCEED A SLOPE 1:50 (2%).
B. MATERIALS:
1. BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI COLIUTE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM (60% FOR LOCAL STREETS AND PARKING AREAS) AND A MINIMUM LIMEROCK BEARING RATIO 100.
2. ALL LIMEROCK BASE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 100, AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. PRIME COAT AND TACK COAT SHALL MEET F.D.O.T. STANDARDS.
4. SURFACE COURSE SHALL BE EQUAL TO F.D.O.T. FC-9.5 ASPHALT.
5. REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI AND SHALL BE REINFORCED WITH A 6" x 6" No. 10 GAUGE WIRE MESH, OR AS SHOWN ON THE PLANS.
C. INSTALLATION:
1. LIMEROCK BASE MATERIAL SHALL BE IN THE COMPACTION THICKNESS SHOWN ON THE PLANS AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
2. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
3. ASPHALTIC CONCRETE PAVEMENT SHALL BE IN THE THICKNESS SHOWN ON THE PLANS.
4. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH F.D.O.T. STANDARDS.
5. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
D. TESTING:
1. ALL SUBGRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OF RECORD AND/OR THE PERMITTING AGENCY.
2. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
3. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, AND TAKEN AS DIRECTED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCY.
4. ALL TESTING COSTS SHALL BE PAID FOR BY THE CONTRACTOR.

PROJECT SITE



LOCATION SKETCH

SECT. 16, TWP. 52s., RNG. 42e.
SCALE: 1"=300'



XI. INSPECTION NOTES:

A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AT LEAST 24 HOURS PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:
1. STORM DRAINAGE.
2. SANITARY SEWER.
3. WATER SYSTEM.
4. SUBGRADE; SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK.
5. LIMEROCK BASE; SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT.
6. ASPHALTIC CONCRETE.
7. FINISH.
X. SIGNING AND MARKING NOTES:
A. ALL PAVEMENT MARKINGS AND SIGNS SHALL COMPLY WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE DADE COUNTY PUBLIC WORKS MANUAL.
B. ALL OFF-SITE MARKINGS TO BE THERMOPLASTIC PER FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, AND ALL ON-SITE MARKINGS SHALL BE TRAFFIC PAINT PER MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS, UNLESS OTHERWISE NOTED.
C. INSTALL REFLECTIVE PAVEMENT MARKERS PER F.D.O.T. STANDARDS, OR AS SHOWN ON THE PLANS.
D. ALL SIGNS SHALL BE HIGH-INTENSITY GRADE REFLECTIVE SHEETING, MOUNTED ON A BREAK AWAY POST ASSEMBLY PER F.D.O.T. SPECIFICATIONS.
E. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PAVEMENT MARKINGS AND SIGNS CONFLICTING WITH THE PROPOSED ROADWAY CONSTRUCTION.
F. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL PAVEMENT MARKINGS AND SIGNS AS SHOWN IN THE PLANS AND APPLICABLE TRAFFIC DESIGN STANDARDS.
G. CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT.
H. SIGN ASSEMBLY LOCATIONS SHOWN IN THE PLANS WHICH ARE IN CONFLICT WITH STREET LIGHTING UTILITIES, DRIVEWAYS, PEDESTRIAN RAMPS ETC. MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER OF RECORD AND/OR APPROVAL AGENCIES' INSPECTOR.

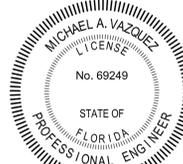
LEGAL DESCRIPTION:

Lots 9 thru 14, Block 83, FULFORD BY THE SEA SECTION "F", according to the plat thereof as recorded in Plat Book 8 at Page 64 of the Public Records of Miami-Dade County, Florida.

NOTES:

- Elevations shown hereon are relative to the National Geodetic Vertical Datum of 1929, based on Miami-Dade Benchmark No. N-805, Elevation +7.10, located on September 2, 2015 at the intersection of N.E. 164th St. and N.E. 19th Ave.
- Lands shown hereon are located within an area having a Zone Designation AE (EL 6) & X by the Federal Emergency Management Agency (FEMA), on Flood Insurance Rate Map No. 12086C0141L for Community No. 1208656, dated September 11, 2009, and index map revised September 11, 2009, and is relative to the National Geodetic Vertical Datum of 1929.
- Lands shown hereon containing 37,281 square feet, or 0.856 acres, more or less.

SHEET INDEX	
SHEET No.	TITLE
C1	COVER SHEET
C2	CONCEPTUAL PAVING AND DRAINAGE PLAN
C3	CONCEPTUAL WATER AND SEWER PLAN
C4 thru C7	CONCEPTUAL PAVING, DRAINAGE WATER AND SEWER DETAILS
C8	STORM WATER POLLUTION PREVENTION PLAN



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