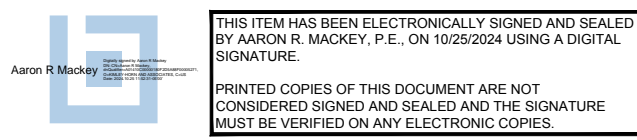



1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DRIVEWAYS, SIDEWALKS, AND RELATED MARKINGS AND SIGNING, PAVEMENTS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.

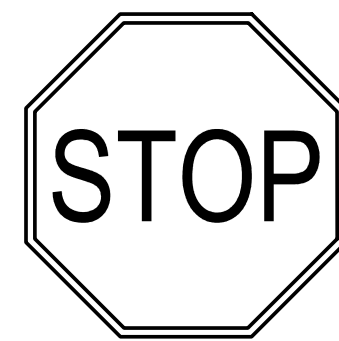
1. SEE GEOMETRY SIGNAGE AND STRIPING DETAILS.
2. CONTRACTOR SHALL REPLACE ALL STRIPING REMOVED AND/OR DAMAGED DURING CONSTRUCTION ALONG THE ROAD ABUTTING THE PROPERTY PER APPLICABLE CITY, COUNTY, AND/OR STATE STANDARDS.
3. CONTRACTOR SHALL FIELD VERIFY THAT ALL EXISTING AND PROPOSED ADA ITEMS WITHIN PROJECT LIMITS (I.E., ROUTES, PARKING, STRIPING, SIGNAGE, ETC.) MEET THE MINIMUM REQUIREMENTS AND SHALL ADJUST ACCORDINGLY, BEFORE THE PROJECT CAN BE DEEMED CERTIFIED AND COMPLETE.
4. ALL CURB RAMPS AND DETECTABLE WARNINGS TO BE INSTALLED IN ACCORDANCE WITH FDOT STANDARD INDEX 522 (LATEST EDITION).
5. ALL SIGNS TO BE INSTALLED PER BCTED MOST CURRENT STANDARDS AND FDOT DESIGN STANDARDS INDEX NO. 700 (LATEST EDITION), AND AS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED.
6. ALL PAVEMENT SYMBOLS AND MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS UNLESS OTHERWISE NOTED. INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 711 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND BCTED MOST CURRENT STANDARDS.
7. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 711 (LATEST EDITION) AND BCTED MOST CURRENT STANDARDS.

8. PAINTED PAVEMENT MARKINGS, INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 710 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FOLLOWING:
 - A. APPLY TWO COATS OF VOC COMPLIANT, LOCAL DOT APPROVED, UNDILUTED SOLVENT BASED OR LATEX TRAFFIC PAINT.
 - B. FOLLOW MANUFACTURERS RECOMMENDED APPLICATION RATE, WITHOUT THE ADDITION OF A THINNER, WITH A MAXIMUM OF 100 SF PER GALLON, OR AS REQUIRED, PROVIDING MINIMUM 25 MILS WET FILM THICKNESS AND 7.5 MILES DRY FILM THICKNESS PER COAT WITH MINIMUM OF 30 DAYS BETWEEN APPLICATIONS.
 - C. SECOND COAT OF PAINT SHALL NOT BE APPLIED EARLIER THAN 7 DAYS PRIOR TO GRAND OPENING.
 - D. PAINT SHALL BE CRISP, STRAIGHT, AND APPLIED UNIFORMLY ACROSS THE WIDTH OF THE LINE FOR A TOTAL DRY FILM THICKNESS OF 15 MILS.
9. CONTRACTOR SHALL NOT ALLOW TRAFFIC ONTO NEWLY APPLIED PAVEMENT STRIPING/ MARKINGS UNTIL THEY ARE SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THEM WITHOUT DAMAGE. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REMOVE AND REPLACE ANY PORTION OF THE PAVEMENT STRIPING/MARKINGS DAMAGED BY PASSING TRAFFIC OR ANY OTHER CAUSE.
10. SIGNS SHALL BE IN ACCORDANCE WITH SECTION NO. 700, HIGHWAY SIGNING, OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND BCTED MOST CURRENT STANDARDS.

11. TRAFFIC SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PART II AND BCTED MOST CURRENT STANDARDS, AND IN THE LOCATIONS SHOWN ON PLANS.
12. PARKING STALL MARKINGS DEPICTED ON PLAN ARE FOR GRAPHICAL PURPOSES ONLY.
13. CONTRACTOR TO COORDINATE WITH THE CITY, COUNTY, AND FDOT REGARDING THE CONSTRUCTION AND PHASING OF THE WAVE STREETCAR ROADWAY AND TRAFFIC SIGNAL IMPROVEMENTS.
14. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS BCTED IS NOTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
15. CONTRACTOR TO SEE DEMOLITION PLAN FOR EXACT LIMITS OF SAWCUT, MILL AND RESURFACE.



<div><div>3</div></div>		CITY OF FORT LAUDERDALE		FLORIDA	42 HOTEL PREPARED FOR ADACHE GROUP ARCHITECTS, INC		GEOMETRY, SIGNAGE & MARKING PLAN		<div>KHA PROJECT 040879023</div> <div>DATE 10/25/2024</div> <div>SCALE AS SHOWN</div> <div>DESIGNED BY KHA</div> <div>DRAWN BY KHA</div> <div>CHECKED BY ARM</div>		<div></div>	<div>Kimley»Horn</div> <div>© 2024 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 REGISTRY NO. 35106</div>	<table><tr><th>No.</th><th>REVISIONS</th><th>DATE</th><th>BY</th></tr><tr><td>3</td><td>ISSUED FOR DRC</td><td>10/25/2024</td><td>KHA</td></tr><tr><td>2</td><td>ISSUED FOR DRC</td><td>06/07/2024</td><td>KHA</td></tr><tr><td>1</td><td>ISSUED FOR DRC</td><td>09/22/2023</td><td>KHA</td></tr><tr><td></td><td>ISSUED FOR DRC</td><td>06/23/2023</td><td>KHA</td></tr></table>	No.	REVISIONS	DATE	BY	3	ISSUED FOR DRC	10/25/2024	KHA	2	ISSUED FOR DRC	06/07/2024	KHA	1	ISSUED FOR DRC	09/22/2023	KHA		ISSUED FOR DRC	06/23/2023	KHA
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R1-1
(36"x36")
STOP SIGN DETAIL
N.T.S.



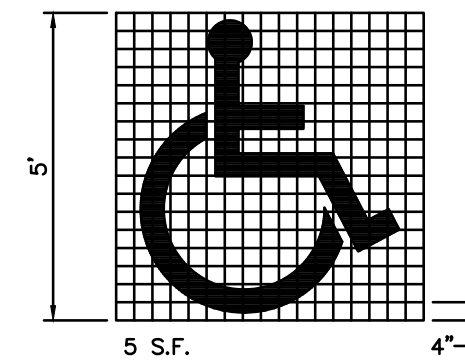
R5-11
(30"x24")
AUTHORIZED
VEHICLES ONLY
SIGN DETAIL
N.T.S.



R7-8
(12"x18")
RESERVED PARKING
SIGN DETAIL
N.T.S.



R5-1
(30"x30")
DO NOT ENTER
SIGN DETAIL
N.T.S.



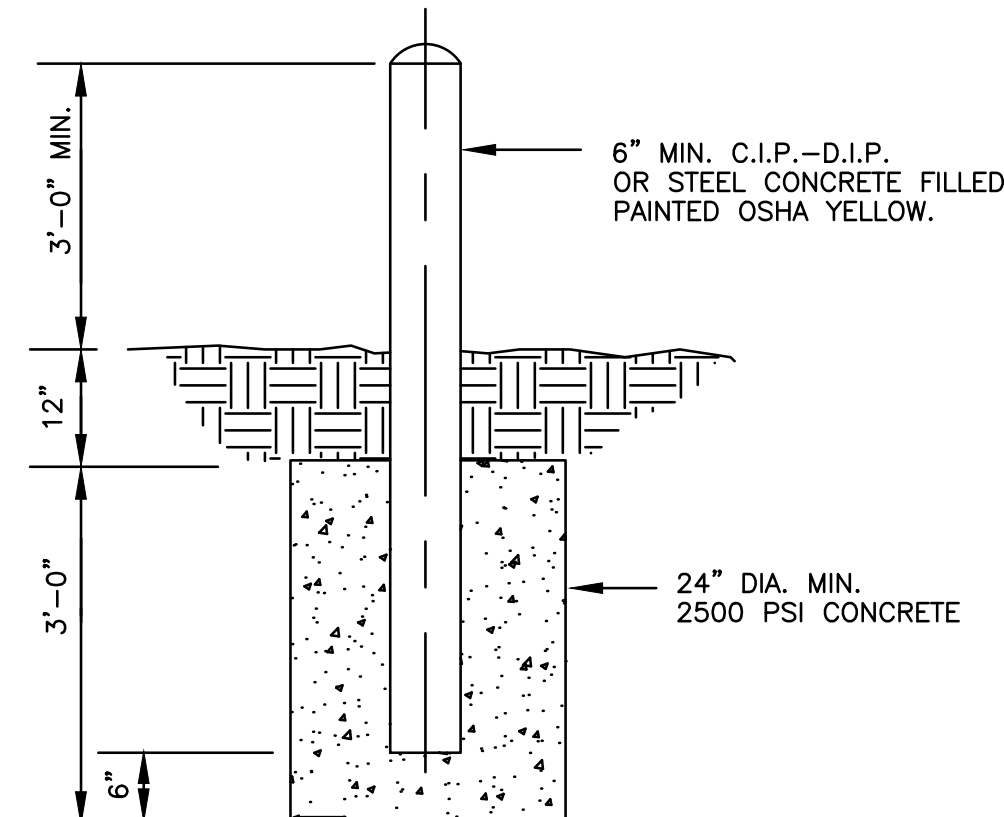
NOTE:

USE OF PAVEMENT SYMBOL IN HANDICAPPED PARKING SPACES IS REQUIRED, THE SYMBOL SHALL BE 5 FT. HIGH AND WHITE IN COLOR.

RE: FDOT INDEX NO. 17346

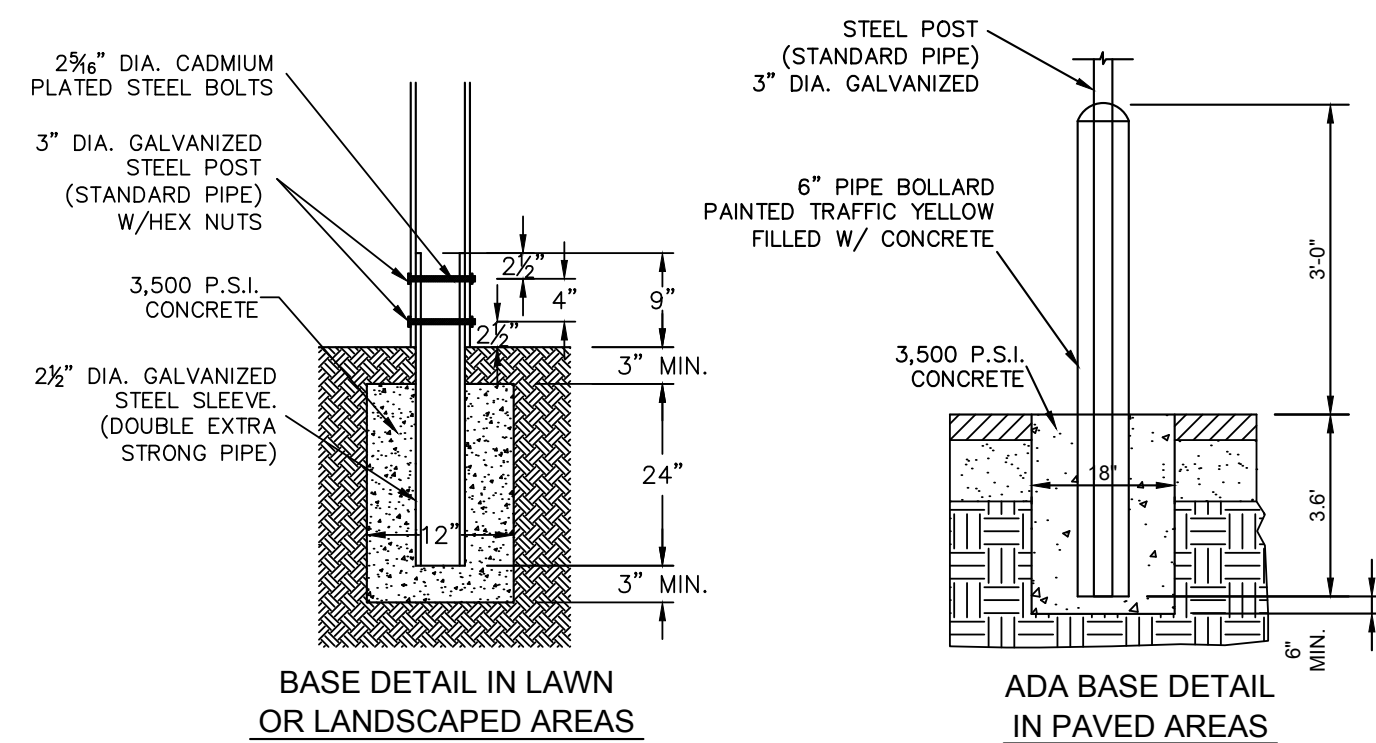
ACCESSIBLE PARKING SYMBOL

NOT TO SCALE



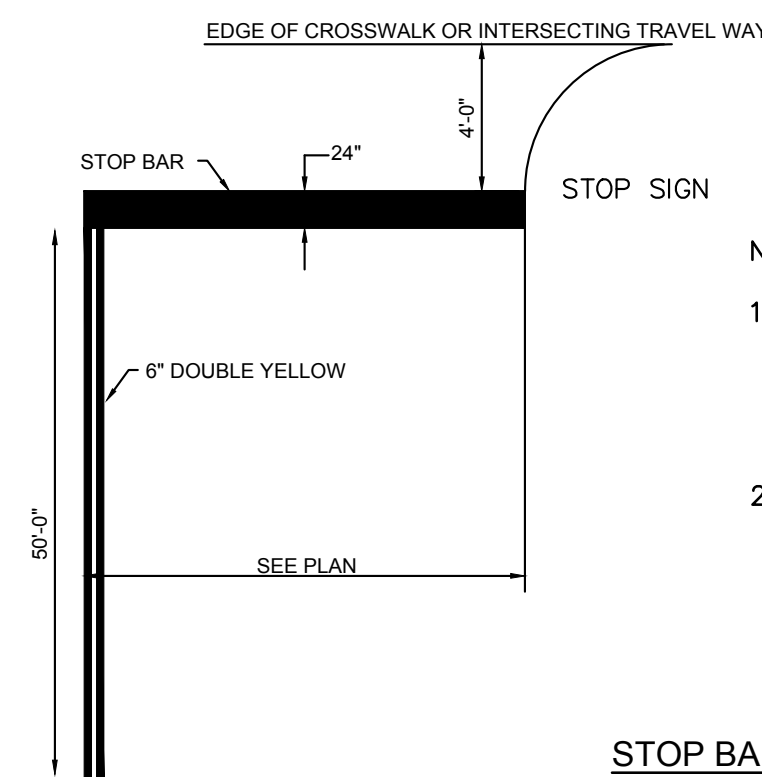
NOTE: SITE LOCATION, AND THE INSTALLATION TO BE PROTECTED, MAY REQUIRE A LARGER DIAMETER PIPE AND CONCRETE ANCHOR.

BOLLARD DETAIL
N.T.S.



SIGN BASE
NOT TO SCALE

K-H

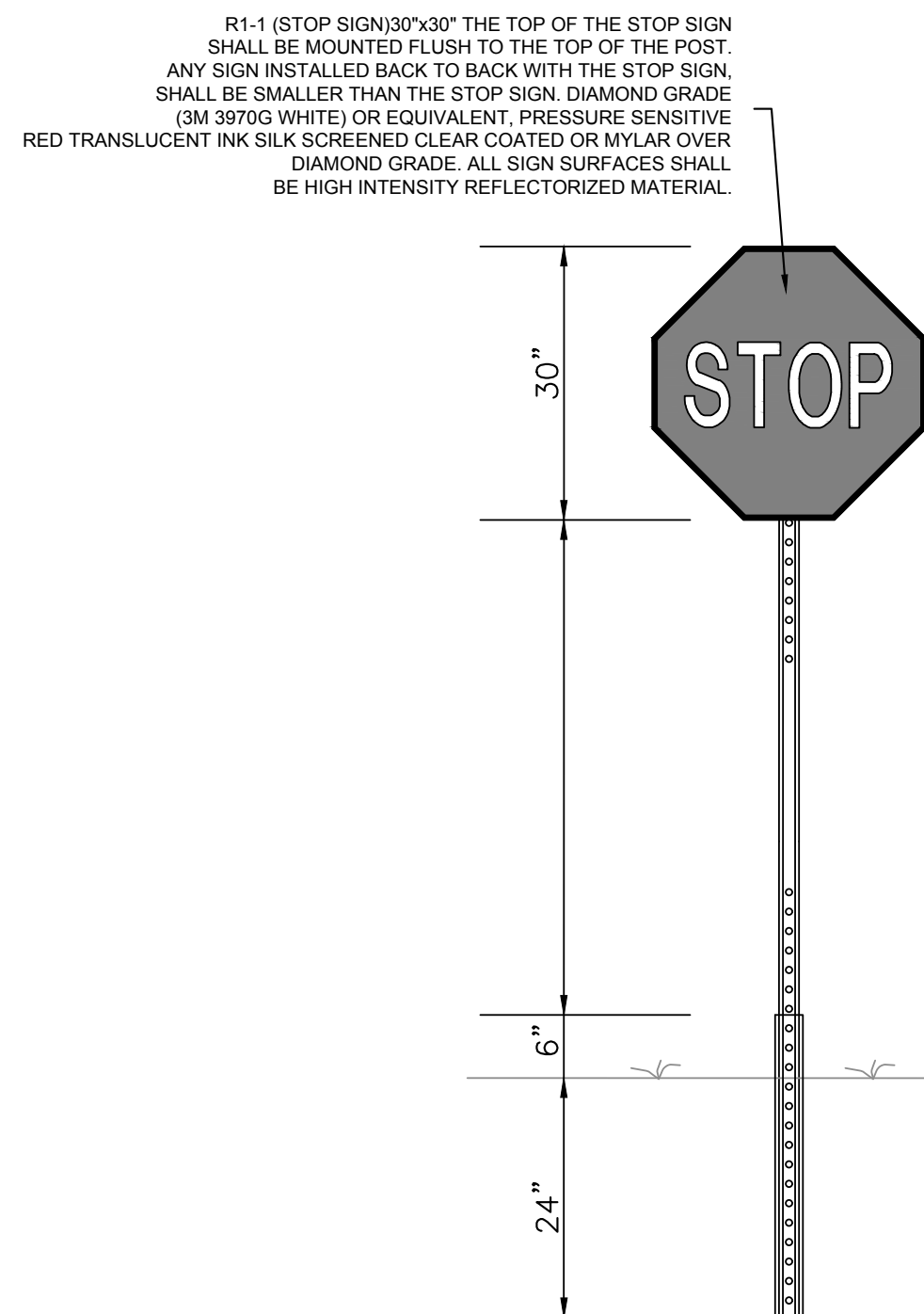


NOTE:

1. LINES SHALL BE APPLIED IN ACCORDANCE WITH SECTIONS 3B.16 AND 3B.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE BARS ARE TO BE PAINTED RETROREFLECTIVE.

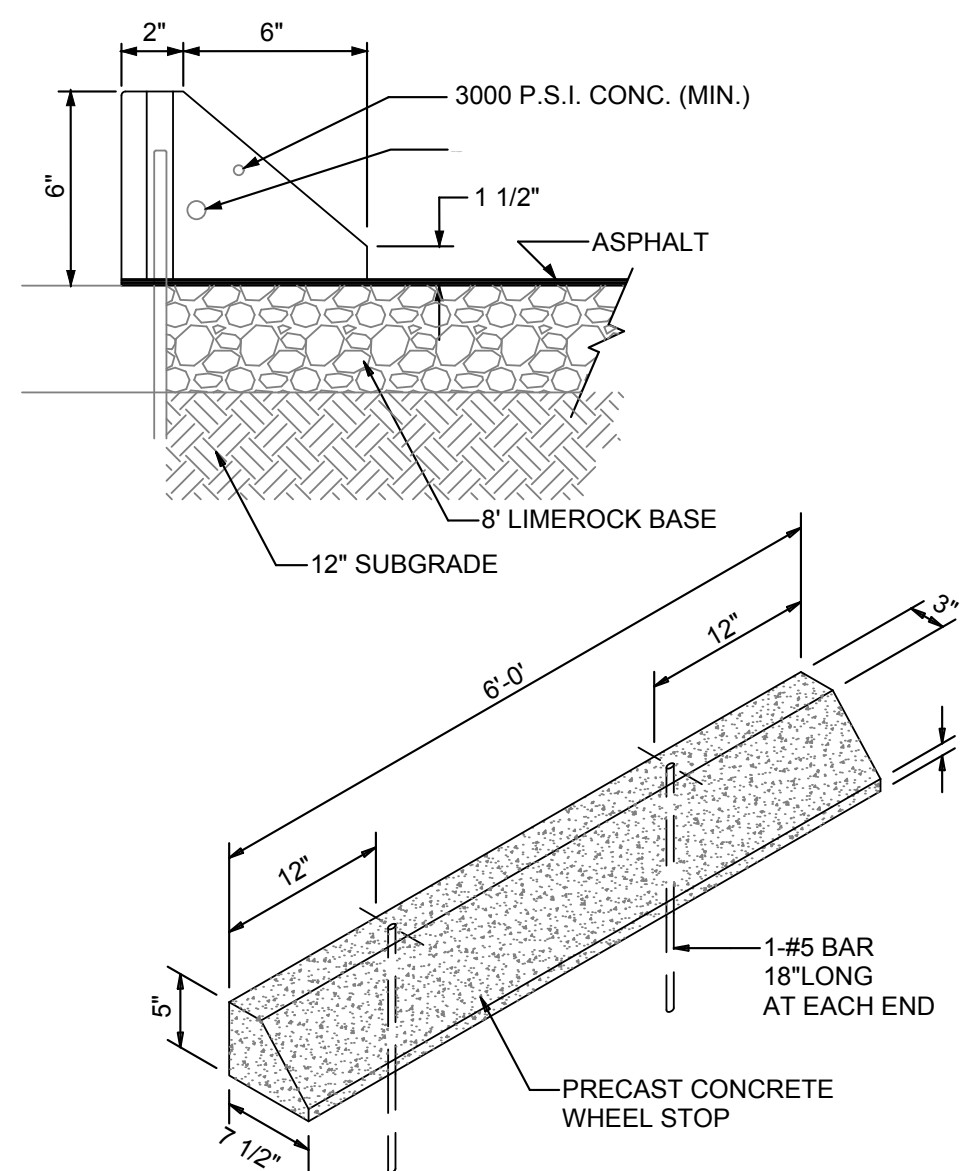
STOP BAR MARKING
NOT TO SCALE

K-H



GROUND MOUNTED SIGN DETAIL

SCALE: N.T.S.



NOTES:

1. CONCRETE STRENGTH SHALL BE 3,000 P.S.I.

WHEELSTOP DETAIL

SCALE: N.T.S.




THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY AARON R. MACKEY, P.E., ON 10/25/2024 USING A DIGITAL SIGNATURE.

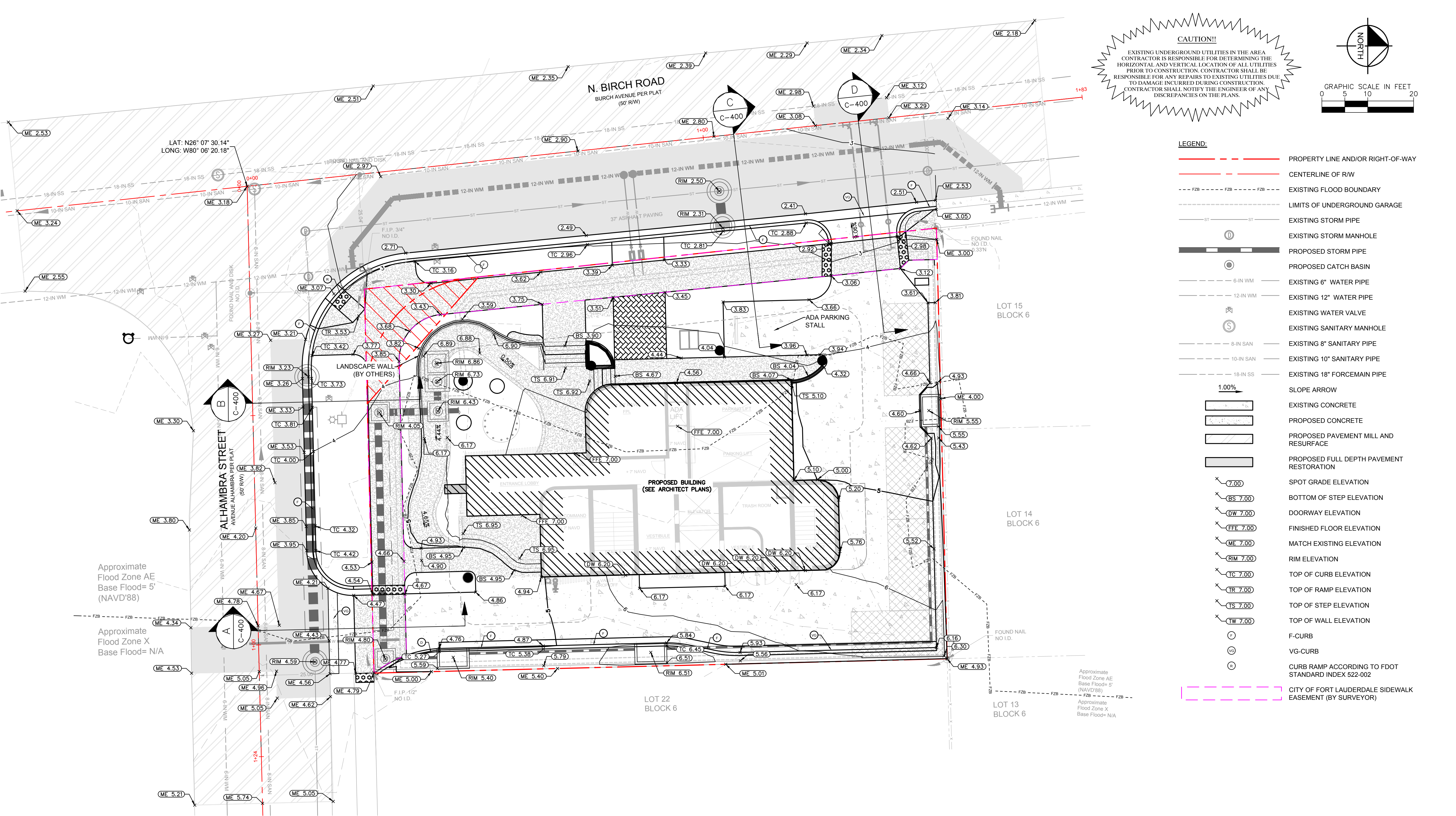
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42 HOTEL PREPARED FOR ADACHE GROUP ARCHITECTS, INC		CITY OF FORT LAUDERDALE FLORIDA		GEOMETRY SIGNAGE & MARKING DETAILS		KHA PROJECT 04/07/2023 DATE 10/25/2024 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY ARM				<div>Kimley»»Horn</div> <div>© 2024 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 REGISTRY No. 35108</div>		<table><thead><tr><th>No.</th><th>REVISIONS</th><th>DATE</th><th>BY</th></tr></thead><tbody><tr><td>3</td><td>ISSUED FOR DRC</td><td>10/25/2024</td><td>KHA</td></tr><tr><td>2</td><td>ISSUED FOR DRC</td><td>06/07/2024</td><td>KHA</td></tr><tr><td>1</td><td>ISSUED FOR DRC</td><td>09/22/2023</td><td>KHA</td></tr><tr><td></td><td>ISSUED FOR DRC</td><td>06/23/2023</td><td>KHA</td></tr></tbody></table>		No.	REVISIONS	DATE	BY	3	ISSUED FOR DRC	10/25/2024	KHA	2	ISSUED FOR DRC	06/07/2024	KHA	1	ISSUED FOR DRC	09/22/2023	KHA		ISSUED FOR DRC	06/23/2023	KHA
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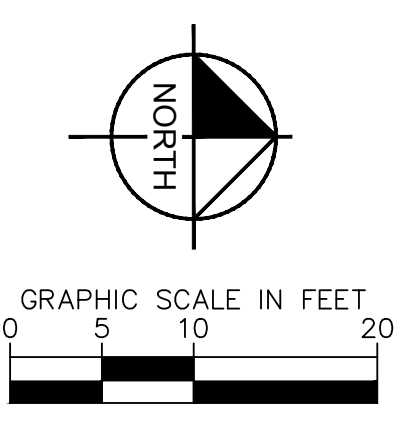
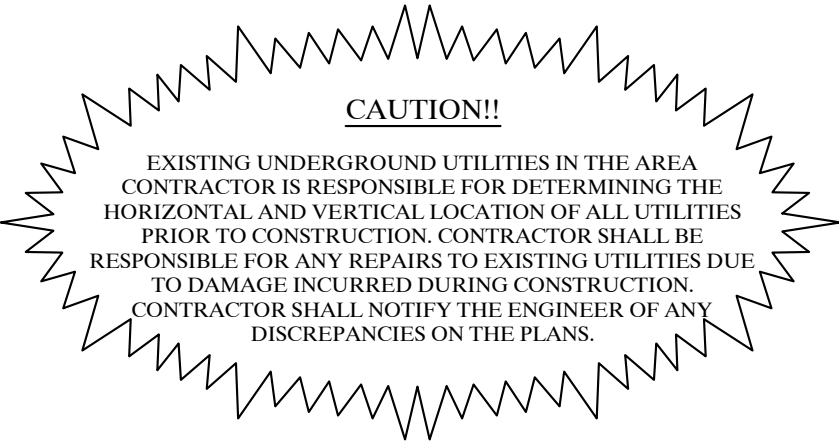


NOTES:

- ALL WALKWAYS SHALL HAVE A SLOPE LESS THAN 2% PERPENDICULAR TO THE DIRECTION OF TRAVEL AND LESS THAN 5% IN THE DIRECTION OF TRAVEL.
- ALL WALKWAYS NEAR BUILDING ENTRANCES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION FOR A MINIMUM OF 60 INCHES, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR.
- THE LIMITS OF THE PASEO, PATIO, AND ALL OUTDOOR DINING AREAS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- CLEAR WIDTH OF ACCESSIBLE ROUTE MUST BE A MINIMUM OF 36 INCHES.
- RUNNING SLOPE OF RAMPS AND CURB RAMPS CANNOT EXCEED 8.33%. IF VERTICAL RISE IS LESS THAN 6 INCHES, HANDRAILS ARE NOT REQUIRED.
- RUNNING SLOPE FOR SIDE FLARES OR CURB RAMPS MUST BE LESS THAN 10%.
- SLOPES AT INTERSECTIONS OF ACCESSIBLE ROUTES MUST NOT EXCEED 2%, MEASURED IN ANY DIRECTION.
- SLOPES OF CLEAR FLOOR SPACES AT FIXTURES AND CONTROLS MUST NOT EXCEED 2%, MEASURED IN ANY DIRECTION. THE 30X48 INCH CLEAR FLOOR SPACE PROVIDED AT THE CONTROL MUST BE FLUSH WITH THE CONTROL.
- GAPS OR OPENINGS ALONG THE ACCESSIBLE ROUTE MUST NOT EXCEED 1/2 INCH WIDTH, PERPENDICULAR TO THE PREDOMINATE FLOW OF PEDESTRIAN TRAFFIC.
- LEVEL CHANGES BETWEEN GROUND SURFACE MATERIALS (E.G. PAVERS TO CONCRETE) MUST COMPLY WITH FLORIDA BUILDING CODE SECTION 303:
A. VERTICAL CHANGES MUST NOT EXCEED 1/4 INCH;
B. LEVEL CHANGES UP TO 1/2 MUST BE BEVELED WITH A SLOPE THAT DOES NOT EXCEED 1:2; AND
C. LEVEL CHANGES EXCEEDING 1/2 INCH MUST BE RAMPED TO COMPLY WITH ANSI SECTION 405.
- ALL ELEVATIONS LISTED ON PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).
- STEPS TO BE LOCATED OUTSIDE OF 7' SIDEWALK CLEAR PATH. REFER TO SHEET C-17 SIGNAGE AND MARKING PLAN FOR ADDITIONAL INFORMATION ON PROPOSED CLEAR PATH.
- CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO NOTIFY ENGINEER OF ANY CONFLICTS.
- 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.
- ALL MAXIMUM SLOPES ARE ABSOLUTE AND SUPERSEDE CONSTRUCTION TOLERANCES STATED IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR HAS THE OPTION OF ADJUSTING GRADES TO ALLOW FOR CONSTRUCTION TOLERANCES BUT SHALL NOT EXCEED MAXIMUMS SPECIFIED ABOVE BY ANY AMOUNT. PAVEMENTS SLOPES WILL BE REVIEWED AFTER CONSTRUCTION AND ANY PAVEMENTS FOUND TO EXCEED THE MAXIMUMS SPECIFIED ABOVE WILL BE REPLACED AT THE CONTRACTORS EXPENSE.
- ALL CUT AND FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND TOWARDS LANDSCAPE AREAS AND PROPOSED INLETS FOR ALL NATURAL AND PAVED AREAS.
- THE CONTRACTOR SHALL CONTACT THE SITE ENGINEER REGARDING ANY GRADING REVISIONS PRIOR TO CONSTRUCTION OF THE PAVEMENT AREAS.
- SPOT ELEVATIONS ARE AT EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAYS SHALL HAVE A MINIMUM CROSS SLOPE OF 2 PERCENT AND A MINIMUM LONGITUDINAL SLOPE OF 0.2 PERCENT.
- ALL ACCESS POINTS, SIDEWALKS, WALKWAYS, AND CURB CUTS ARE UNOBSTRUCTED AND ADA ACCESSIBLE.

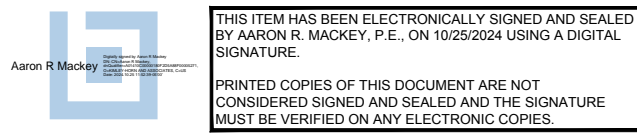
BROWARD COUNTY NOTES:

- ALL SIDEWALKS WITHIN THE APPROVED PERMIT LIMITS ARE TO BE ADA COMPLIANT, UPGRADE CURB RAMPS SHALL BE PROVIDED PER FDOT STANDARD INDEX 304.
- ANY DAMAGED SIDEWALK OR CURB AND GUTTER WITHIN THE APPROVED PERMIT LIMITS IS TO BE REMOVED AND REPLACED IN ACCORDANCE WITH BROWARD COUNTY MINIMUM STANDARDS LATEST EDITION.
- ANY PAVEMENT WITHIN THE APPROVED PERMIT LIMITS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED IN ACCORDANCE WITH BROWARD COUNTY MINIMUM STANDARDS LATEST EDITION.

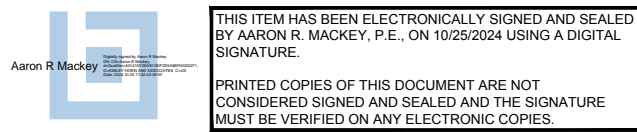
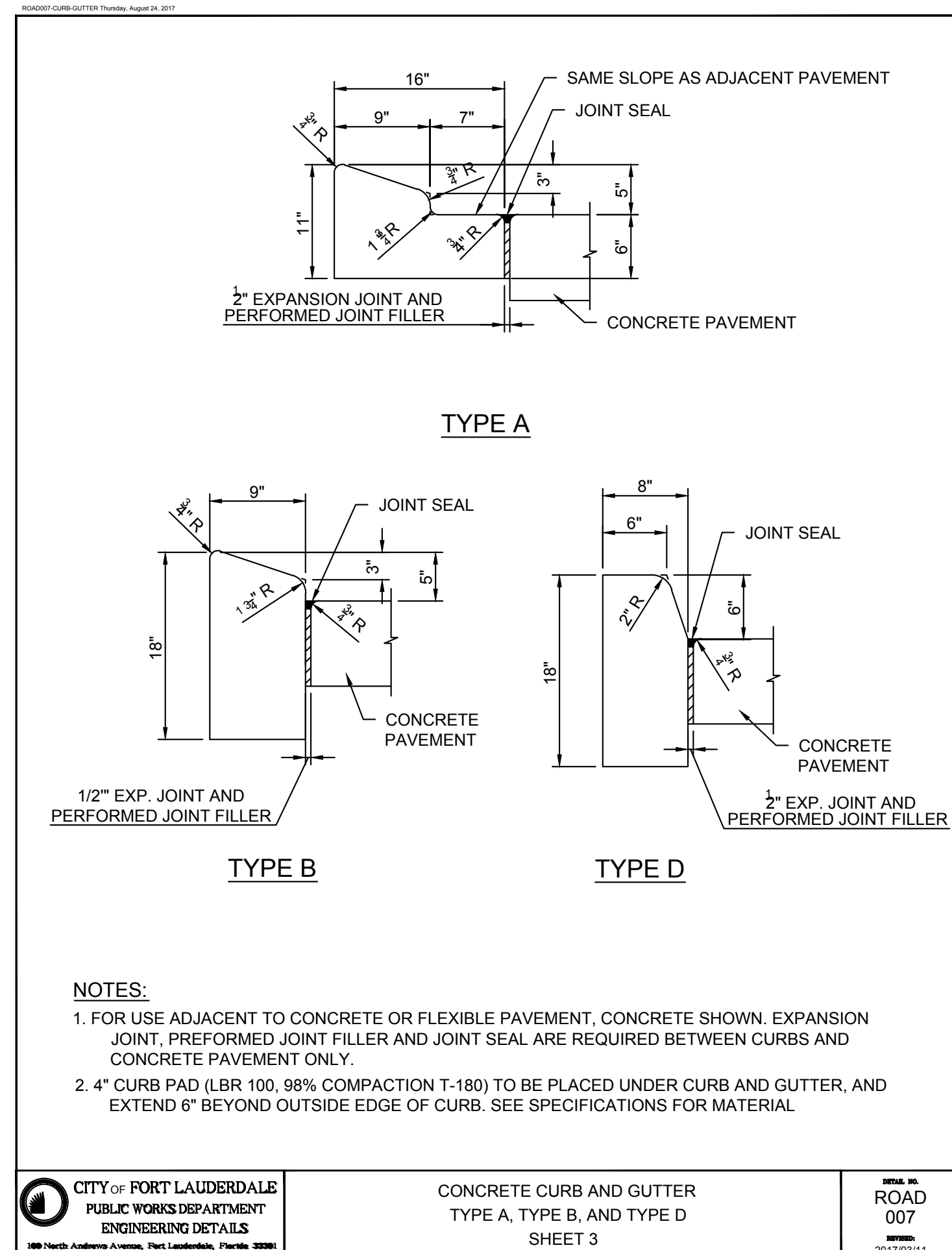
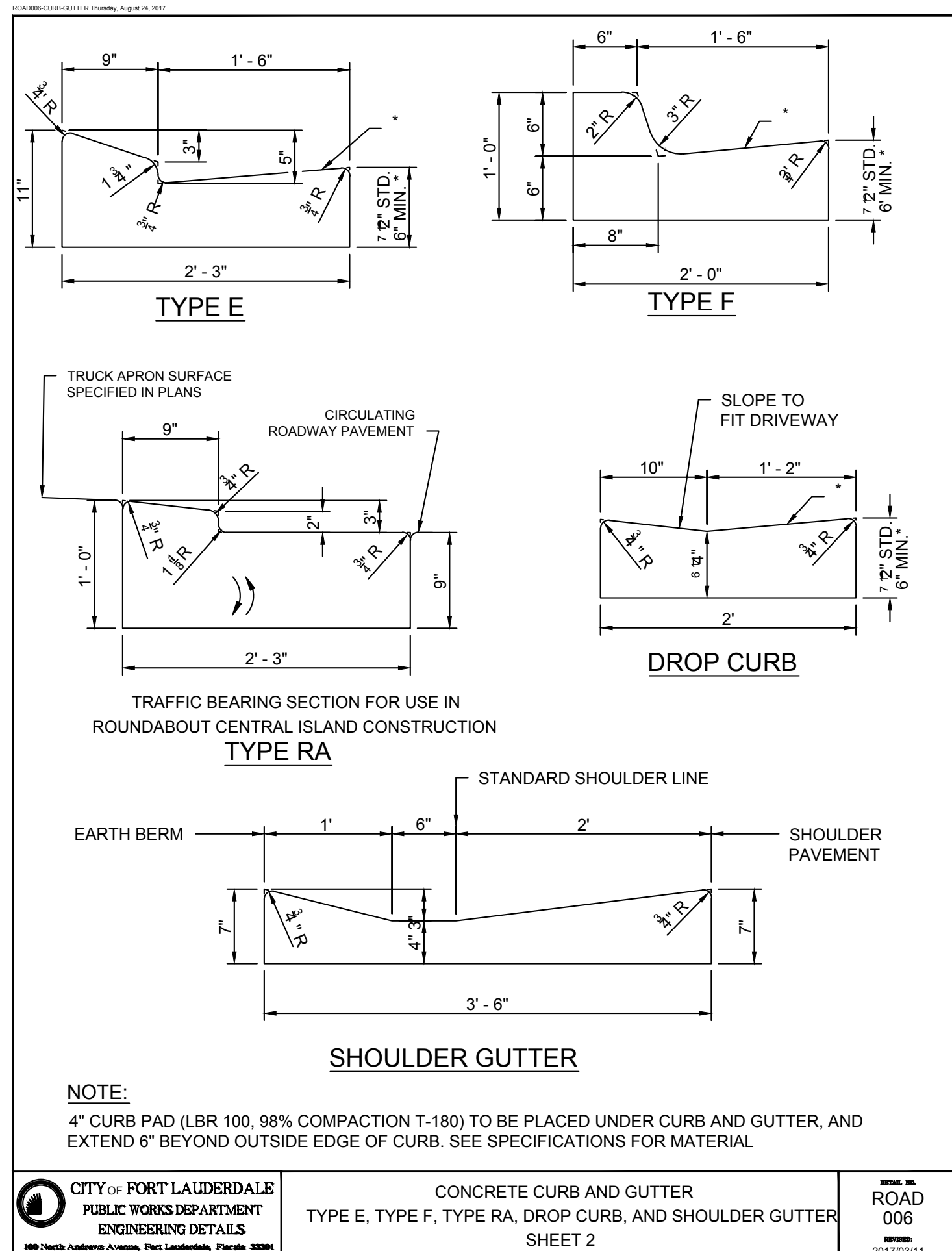
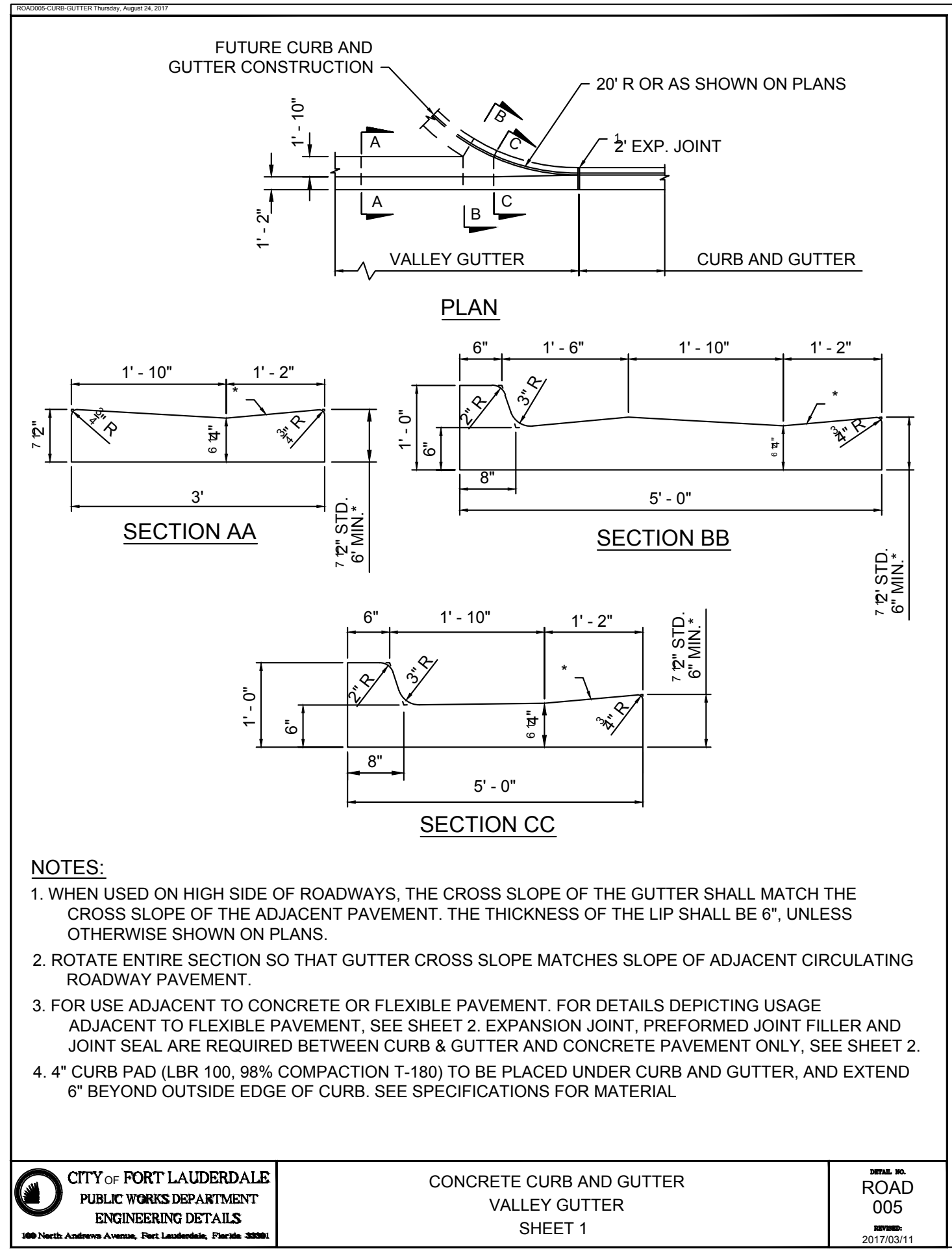


LEGEND:

- PROPERTY LINE AND/OR RIGHT-OF-WAY
- CENTERLINE OF R/W
- EXISTING FLOOD BOUNDARY
- LIMITS OF UNDERGROUND GARAGE
- EXISTING STORM PIPE
- EXISTING STORM MANHOLE
- PROPOSED STORM PIPE
- PROPOSED CATCH BASIN
- EXISTING 6" WATER PIPE
- EXISTING 12" WATER PIPE
- EXISTING WATER VALVE
- EXISTING SANITARY MANHOLE
- EXISTING 8" SANITARY PIPE
- EXISTING 10" SANITARY PIPE
- EXISTING 18" FORCEMAIN PIPE
- SLOPE ARROW
- EXISTING CONCRETE
- PROPOSED CONCRETE
- PROPOSED PAVEMENT MILL AND RESURFACE
- PROPOSED FULL DEPTH PAVEMENT RESTORATION
- SPOT GRADE ELEVATION
- BOTTOM OF STEP ELEVATION
- DOORWAY ELEVATION
- FINISHED FLOOR ELEVATION
- MATCH EXISTING ELEVATION
- RIM ELEVATION
- TOP OF CURB ELEVATION
- TOP OF RAMP ELEVATION
- TOP OF STEP ELEVATION
- TOP OF WALL ELEVATION
- F-CURB
- VG-CURB
- CURB RAMP ACCORDING TO FDOT STANDARD INDEX 522-002
- CITY OF FORT LAUDERDALE SIDEWALK EASEMENT (BY SURVEYOR)

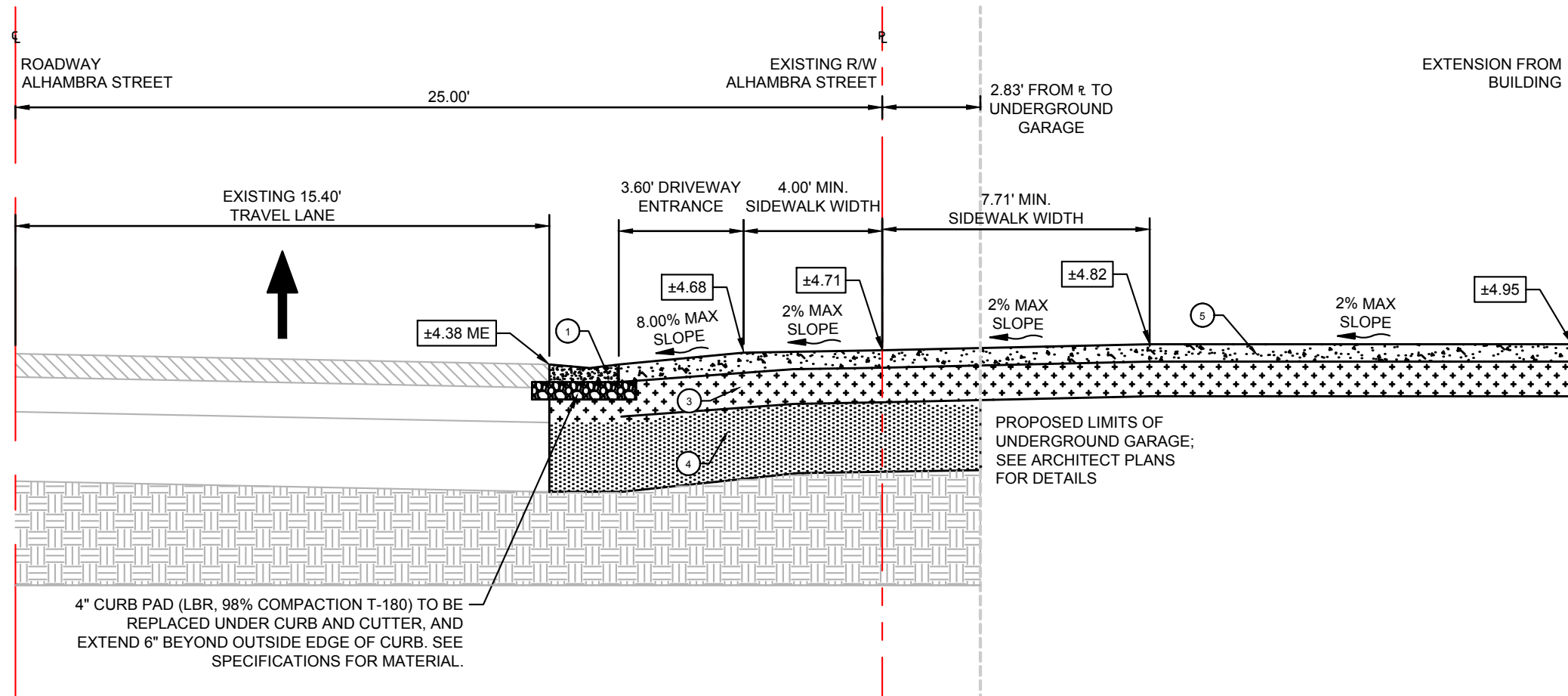


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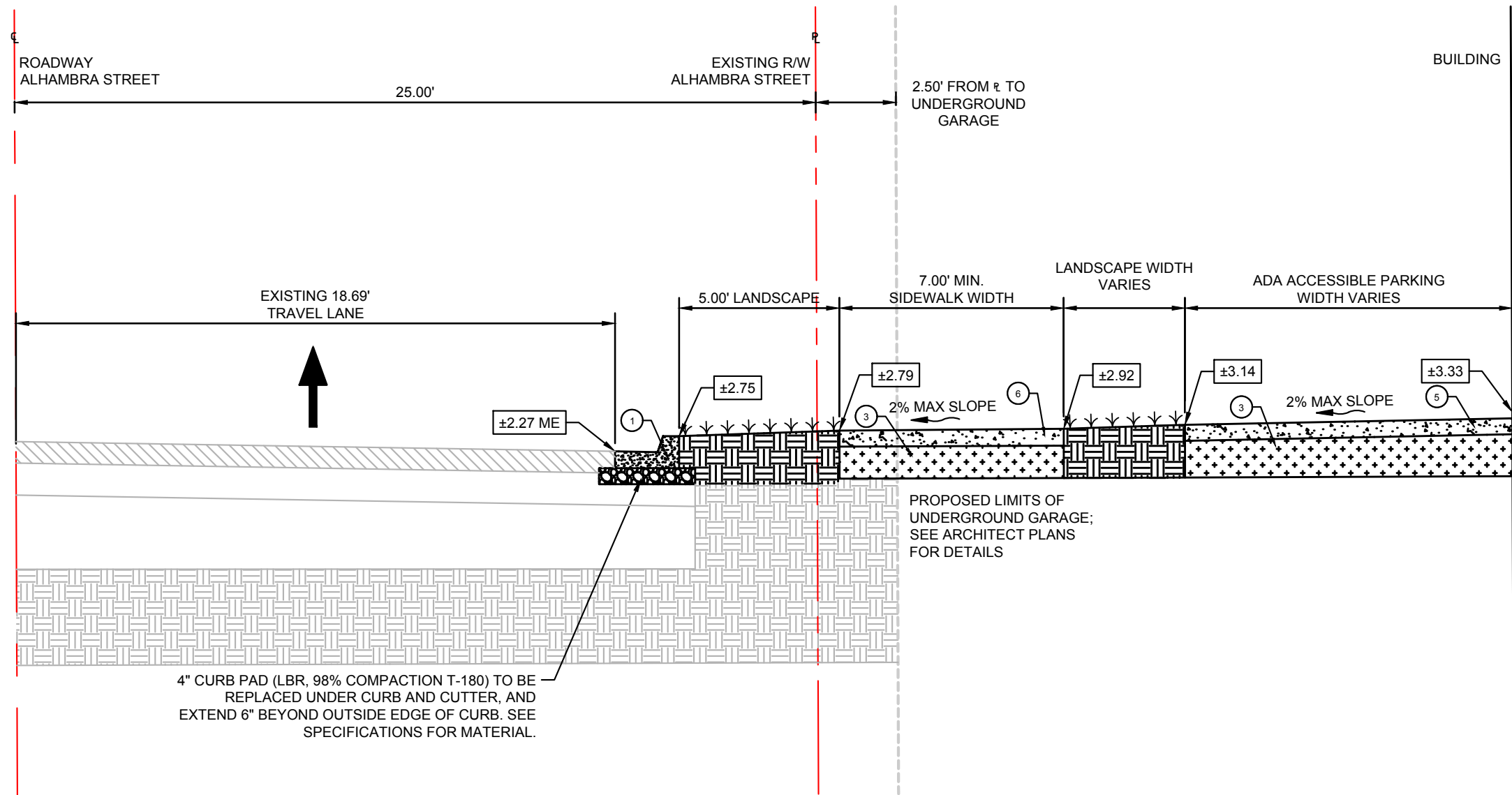


<div> <div>42 HOTEL</div> <div>PREPARED FOR</div> <div>ADACHE GROUP</div> <div>ARCHITECTS, INC</div> </div> <div> <div>CITY OF FORT LAUDERDALE</div> <div>FLORIDA</div> </div>	<div>PAVING DETAILS</div>		<div> <div>KHA PROJECT</div> <div>040879023</div> </div>	<div> <div>DATE</div> <div>10/25/2024</div> </div>	<div> <div>SCALE</div> <div>AS SHOWN</div> </div>	<div> <div>DESIGNED BY</div> <div>KHA</div> </div>	<div> <div>DRAWN BY</div> <div>KHA</div> </div>	<div> <div>CHECKED BY</div> <div>ARM</div> </div>	<div> <div>Kimley»Horn</div> <div> <div>© 2024 KIMLEY-HORN AND ASSOCIATES, INC.</div> <div>8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324</div> <div>PHONE: 954-535-5100 FAX: 954-739-2247</div> <div>WWW.KIMLEY-HORN.COM REGISTRY No. 35106</div> </div> </div>	<div> <div>No.</div> <div>3</div> </div>	<div> <div>ISSUED FOR</div> <div>DRC</div> </div>	<div> <div>10/25/2024</div> <div>KHA</div> </div>
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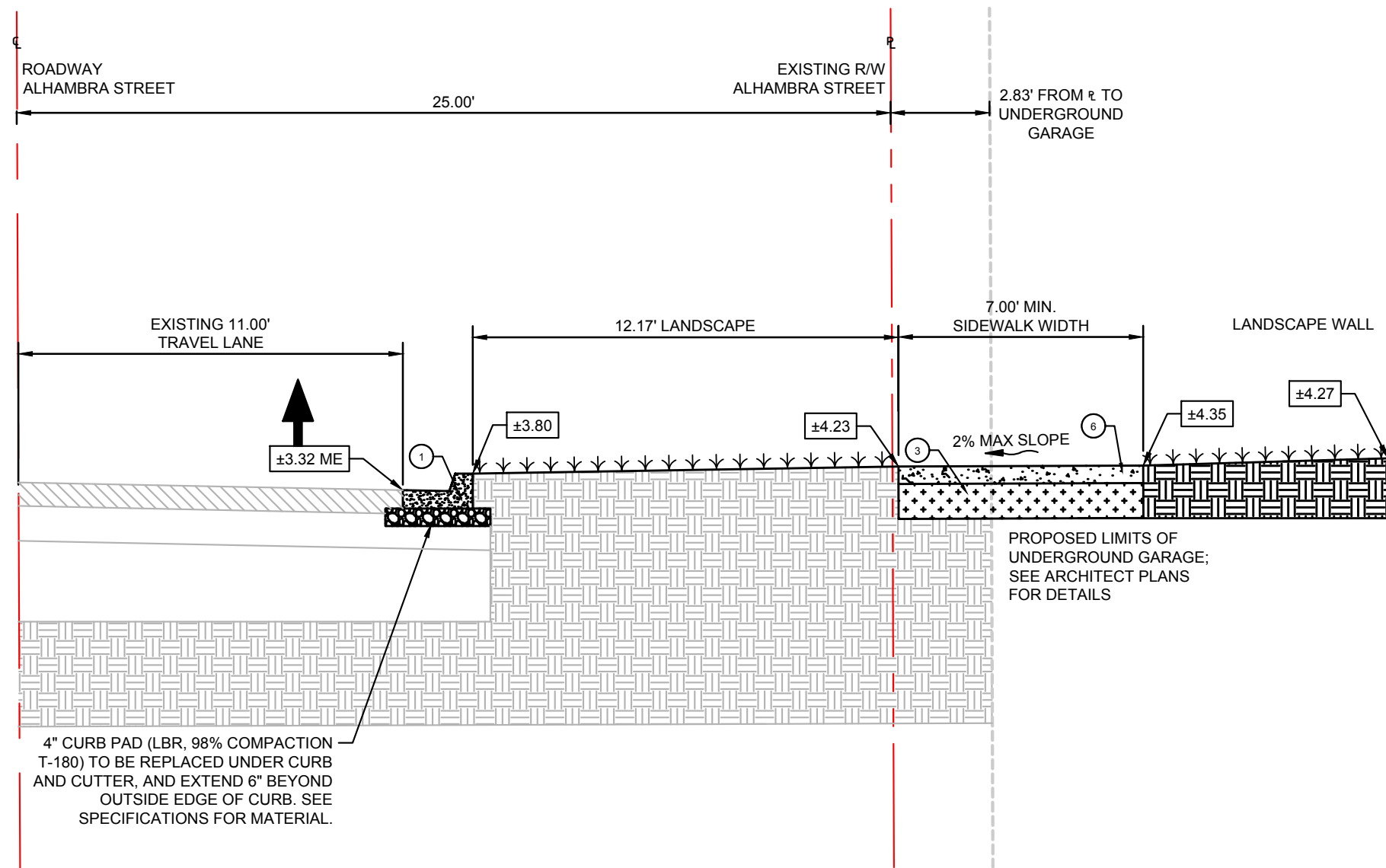
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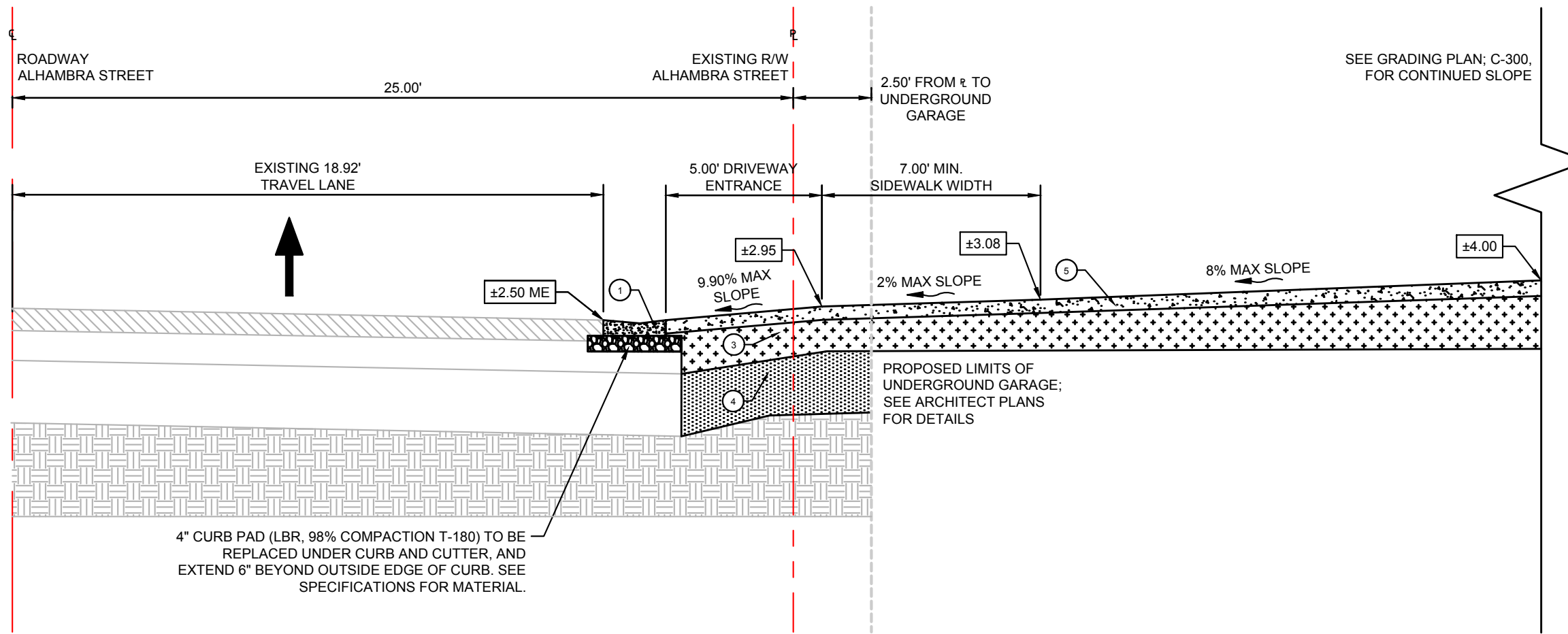
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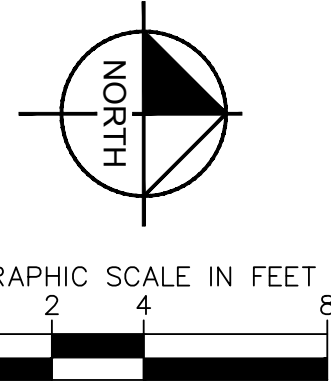
C
C-300 NORTH BIRCH ROAD LANDSCAPE SECTION
N.T.S.



B
C-300 ALHAMBRA STREET LANDSCAPE SECTION
N.T.S.



D
C-300 NORTH BIRCH ROAD DRIVEWAY SECTION
N.T.S.



LEGEND
--- PROPERTY LINE AND/OR RIGHT-OF-WAY
--- CENTERLINE OF R/W
--- LIMITS OF UNDERGROUND GARAGE

- ① PROP. VALLEY GUTTER (PER CITY OF FORT LAUDERDALE DETAIL ROAD 005)
- ② PROP. TYPE 'F' CURB (PER CITY OF FORT LAUDERDALE DETAIL ROAD 006)
- ③ PROP. 6" LIMEROCK BASE COMPACTED IN (2) 3" LIFTS TO AT LEAST 98% WITH MINIMUM LBR OF 100
- ④ PROP. 12" SUBGRADE COMPACTED IN (2) 6" LIFTS TO AT LEAST 95% WITH MINIMUM LBR OF 40
- ⑤ 6" HEAVY DUTY CONCRETE (REFER TO HARDSCAPE PLANS FOR ADDITIONAL INFORMATION)
- ⑥ 4" CONCRETE SIDEWALK (PER CITY OF FORT LAUDERDALE DETAIL ROAD 036)



KHA PROJECT	040879023
DATE	10/25/2024
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	ARM

ROADWAY SECTIONS

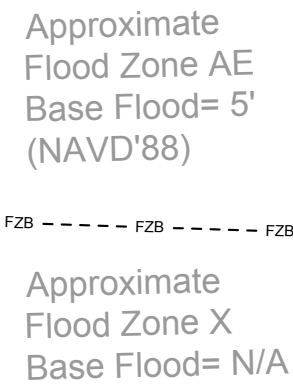
42 HOTEL
PREPARED FOR
ADACHE GROUP
ARCHITECTS, INC
CITY OF FORT LAUDERDALE
FLORIDA

SHEET NUMBER
C-400

NO.	REVISIONS	DATE	BY
3	ISSUED FOR DRC	10/25/2024	KHA
2	ISSUED FOR DRC	09/07/2024	KHA
1	ISSUED FOR DRC	09/22/2023	KHA
	ISSUED FOR DRC	06/23/2023	KHA

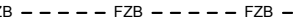





















THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY AARON R. MACKEY, P.E., ON 10/25/2024 USING A DIGITAL SIGNATURE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



1. DRAINAGE PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) OR REINFORCED CONCRETE (RCP), THE USE OF RCP PIPE FOR PUBLIC ROADWAY CROSSINGS IS PREFERRED.
2. CATCH BASINS, INLETS AND JUNCTION BOXES SHALL NOT BE INSTALLED IN DRIVEWAYS.
3. PRIOR TO BACKFILLING EXFILTRATION TRENCHES, DRAINAGE INLETS OR MANHOLES, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING INSPECTOR FOR AN INSPECTION.
4. DRAINAGE STRUCTURES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY CITY.
5. ALL PIPES SHALL BE LAID IN DRY TRENCH. ALL MUCK OR UNSUITABLE MATERIALS IN TRENCHES, INLETS OR MANHOLES SHALL BE REMOVED AND BACKFILLED WITH SELECTED MATERIAL APPROVED BY THE ENGINEER.
7. MINIMUM COVER FOR HDPE PIPE UNDER ASPHALT SHALL BE 24-INCH COMPACTED LIMEROCK BASE. MINIMUM COVER FOR PIPE UNDER GRASS SHALL BE 18" COMPACTED SUBGRADE.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
9. MAINTENANCE ACCESS SHALL BE PROVIDED ON BOTH SIDES OF EXFILTRATION TRENCHES IN THE FORM OF MANHOLES OR CATCH BASINS. THE MAXIMUM DISTANCE BETWEEN STORM STRUCTURES SHALL NOT EXCEED THREE HUNDRED (300) FEET).
10. ALL EXFILTRATION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION DOCUMENT TITLED "DRAINAGE DESIGN GUIDE", LATEST EDITION.
11. GEOTEXTILE MATERIALS USED IN THE CONSTRUCTION OF EXFILTRATION TRENCHES SHALL BE IN ACCORDANCE WITH THE CRITERIA OF FLORIDA DEPARTMENT OF TRANSPORTATION'S DESIGN STANDARDS LATEST EDITION AND CITY OF FORT LAUDERDALE'S SPECIFICATIONS.

A horizontal scale bar with alternating black and white segments. It is marked with the numbers 5, 10, and 20, representing feet.

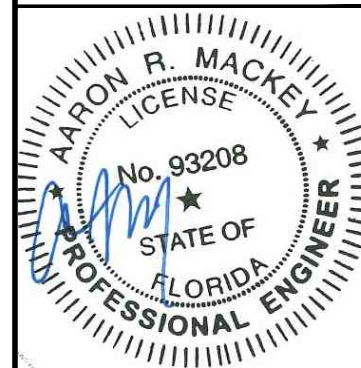
	PROPERTY LINE AND/OR RIGHT-OF-WAY
	CENTERLINE OF R/W
	EXISTING FLOOD BOUNDARY
	LIMITS OF UNDERGROUND GARAGE
	EXISTING STORM PIPE
	EXISTING STORM MANHOLE
	PROPOSED STORM PIPE
	PROPOSED STORM STRUCTURES
	PROPOSED EXFILTRATION TRENCH
	EXISTING 6" WATER PIPE
	EXISTING 12" WATER PIPE
	EXISTING WATER VALVE
	EXISTING SANITARY MANHOLE
	EXISTING 8" SANITARY PIPE
	EXISTING 10" SANITARY PIPE
	EXISTING 18" FORCEMAIN PIPE
	EXISTING CONCRETE
	PROPOSED CONCRETE
	PROPOSED HEAVY DUTY CONCRETE
	PROPOSED PAVEMENT MILL AND RESURFACE
	PROPOSED FULL DEPTH PAVEMENT RESTORATION

DRAINAGE STRUCTURE TABLE				
STRUCTURE #	ROADWAY ALIGNMENT STA/OFF	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION
DW-1	Alhambra Street STA: 0+40 OFF: 40.36/LT	DRAINAGE WELL (CONTRACTOR TO COORDINATE CONNECTION TO GARAGE WALL WITH STRUCTURAL ENGINEER)	RIM = 6.86	(18') 2.00 (E)
FILTERRA - 1	Alhambra Street STA: +104 OFF: 42.34/LT	CONTECH FILTERRA	RIM = 5.40	(4') 1.00 (S) (4') 1.00 (N)
FILTERRA - 2	Alhambra Street STA: +104 OFF: 85.43/LT	CONTECH FILTERRA	RIM = 6.51	(4') 1.00 (N) (4') 1.00 (S)
FILTERRA - 3	N Birch Rd STA: +143 OFF: 64.37/RT	CONTECH FILTERRA	RIM = 5.55	(4') 1.00 (E)
MH-1	Alhambra Street STA: +104 OFF: 27.5/LT	MANHOLE W/ STANDARD BOLT DOWN COVER, 3.5' WIDE SQUARE TYPE P STRUCTURE (CONTRACTOR TO COORDINATE CONNECTION TO GARAGE WALL WITH STRUCTURAL ENGINEER)	RIM = 4.80	(4') 1.00 (N) (18') 1.00 (W)
MH-2	Alhambra Street STA: 0+50 OFF: 27.5/LT	MANHOLE W/ STANDARD BOLT DOWN COVER, 3.5' WIDE SQUARE TYPE P STRUCTURE (CONTRACTOR TO COORDINATE CONNECTION TO GARAGE WALL WITH STRUCTURAL ENGINEER)	RIM = 4.05	(18') 1.00 (E) (18') 2.00 (N)
MH-3	Alhambra Street STA: 0+50 OFF: 40.36/LT	MANHOLE W/ STANDARD BOLT DOWN COVER, 3.5' WIDE SQUARE TYPE P STRUCTURE (CONTRACTOR TO COORDINATE CONNECTION TO GARAGE WALL/CEILING WITH STRUCTURAL ENGINEER)	RIM = 6.43	(18') 2.00 (S) (18') 2.00 (W) (12') 2.00 (N)
O-CI-1	Alhambra Street STA: 0+42 OFF: 12.90/LT	OFF-SITE - FDOT TYPE 9 CURB INLET W/ TYPE J STRUCTURE & BAFFLE ON EAST INV.	RIM = 3.24	(24') -1.43 (E)
O-CI-2	N Birch Rd STA: +102 OFF: 20.07/RT	OFF-SITE - FDOT TYPE 9 CURB INLET W/ TYPE J STRUCTURE & BAFFLE ON NORTH INV.	RIM = 2.31	(24') -2.00 (W)
O-MH-1	Alhambra Street STA: +104 OFF: 12.20/LT	OFF-SITE - MANHOLE W/ FORT LAUDERDALE STANDARD BOLT DOWN COVER AND TYPE J STRUCTURE	RIM = 4.59	(24') -1.43 (W)
O-MH-2	N Birch Rd STA: +102 OFF: 11.97/RT	OFF-SITE - MANHOLE W/ FORT LAUDERDALE STANDARD BOLT DOWN COVER AND TYPE J STRUCTURE	RIM = 2.50	(24') -2.00 (E)

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PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 35106

KHA PROJECT
040879023

DATE 10/05/2004

DATE	AS SHOWN
10/25/2024	

DESIGNED BY KHA

DRAWN BY	KHA
CHECKED BY	ADM

DRAINAGE PLAN

42 HOTEL

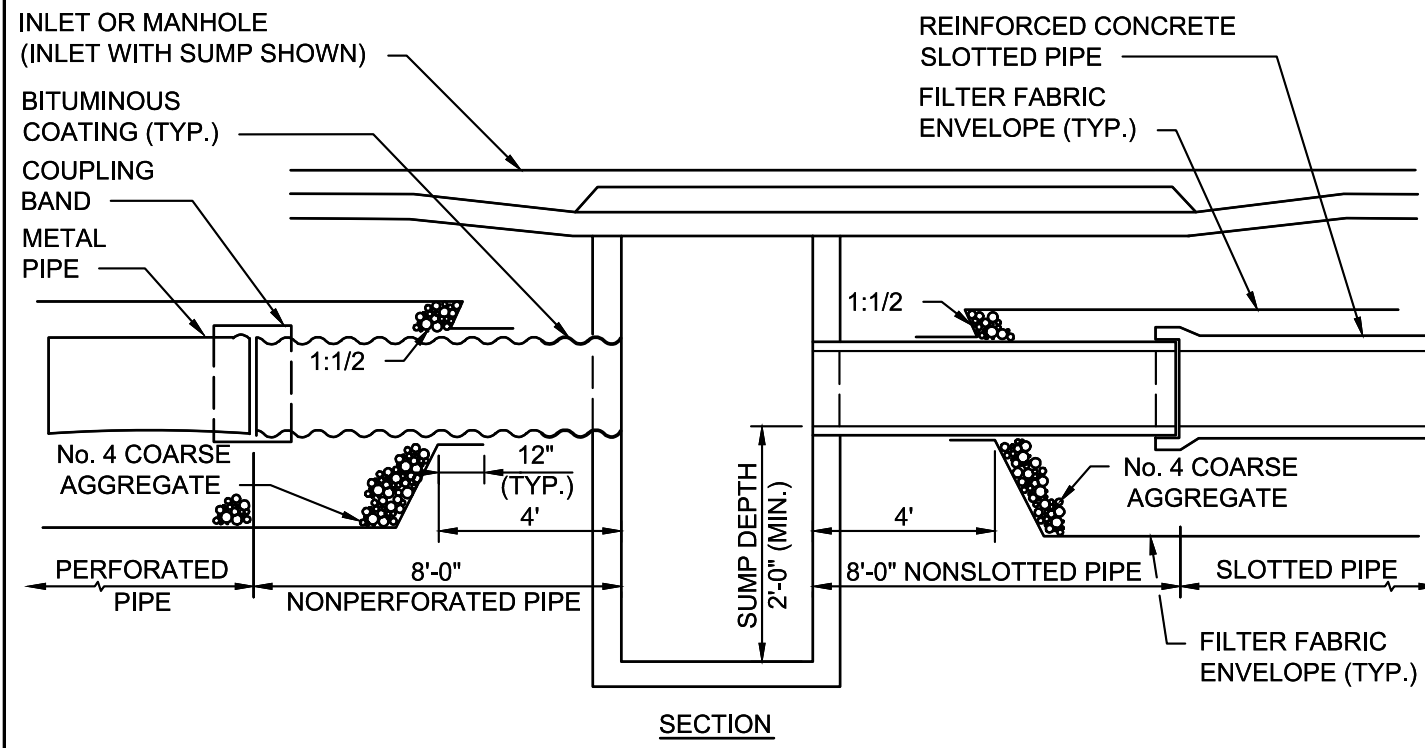
PREPARED FOR
ADACHE GROUP
ARCHITECTS, INC.

CITY OF FORT LAUDERDALE
FLORIDA

SHEET NUMBER
C-500

Printed By: Gacoch, Stephen Sheet Set: 42-HOTEL Layout: DRAINAGE DETAILS October 25, 2024 11:37:59am K:\itp_civil\040 jobs\040879023 m-use\3001 althimba st\Design\CADD\plansheets\DRAINAGE DETAILS.dwg
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STRM001 - EXFILTRATION TRENCH LONGITUDINAL SECTION Trenches, September 21, 2016



NOTES:

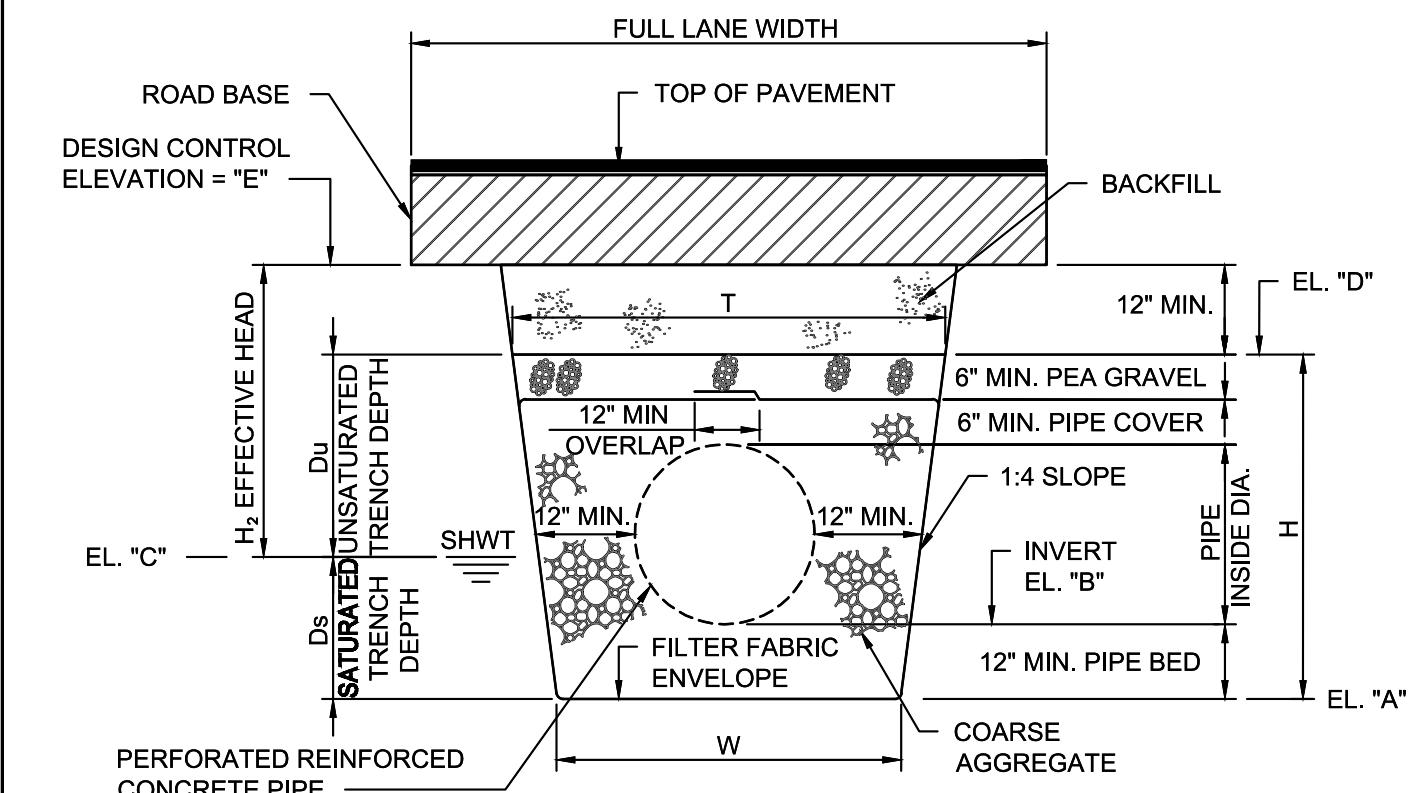
- EXFILTRATION PIPE SHALL COMPLY WITH FDOT STANDARD SPECIFICATION SECTION 443.
- CONCRETE PIPE SHALL BE PLACED WITH SLOTS POSITIONED ON SIDES.
- ALIGNMENT JOINTS ARE STANDARD (GASKETS NOT REQUIRED). RECORREGATION OF METAL PIPE ENDS NOT REQUIRED.
- FILTER FABRIC SHALL BE SUBSURFACE DRAINAGE TYPE PER FDOT SECTION 985. ALL FILTER FABRIC JOINTS SHALL LAP A MINIMUM OF 2 FEET.
- PREVENT CONTAMINATION OF THE EXFILTRATION TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
- NO WEEP HOLES SHALL BE PERMITTED IN STRUCTURES.
- PIPE INVERT SHALL BE AT OR ABOVE THE WATER TABLE WHEN POSSIBLE.
- COAT END OF METAL PIPE AT MANHOLE CONNECTION WITH A BITUMINOUS COATING. COATING SHALL EXTEND 12" BEYOND EXTERIOR OF MANHOLE.



EXFILTRATION TRENCH
LONGITUDINAL SECTION



STRM002 - EXFILTRATION TRENCH CROSS SECTION Trenches, September 21, 2016



TRENCH SCHEDULE			
PARAMETER	TYPE I TRENCH	TYPE II TRENCH	TYPE III TRENCH
PIPE DIAMETER	18"	24"	
W	4.5'	4'	
T	4.5'	4'	
H	4.5'	4'	
Ds	2'	3.43'	
Du	2.5'	0.57'	
H ₂	2.5'	2.24'	
EL. "A"	-1.00	-2.43	
EL. "B"	1.00	-1.43	
EL. "C"(SHWT)	1.00	1.00	
EL. "D"	3.50	1.57	
EL. "E" (DCE)	4.28	3.24	

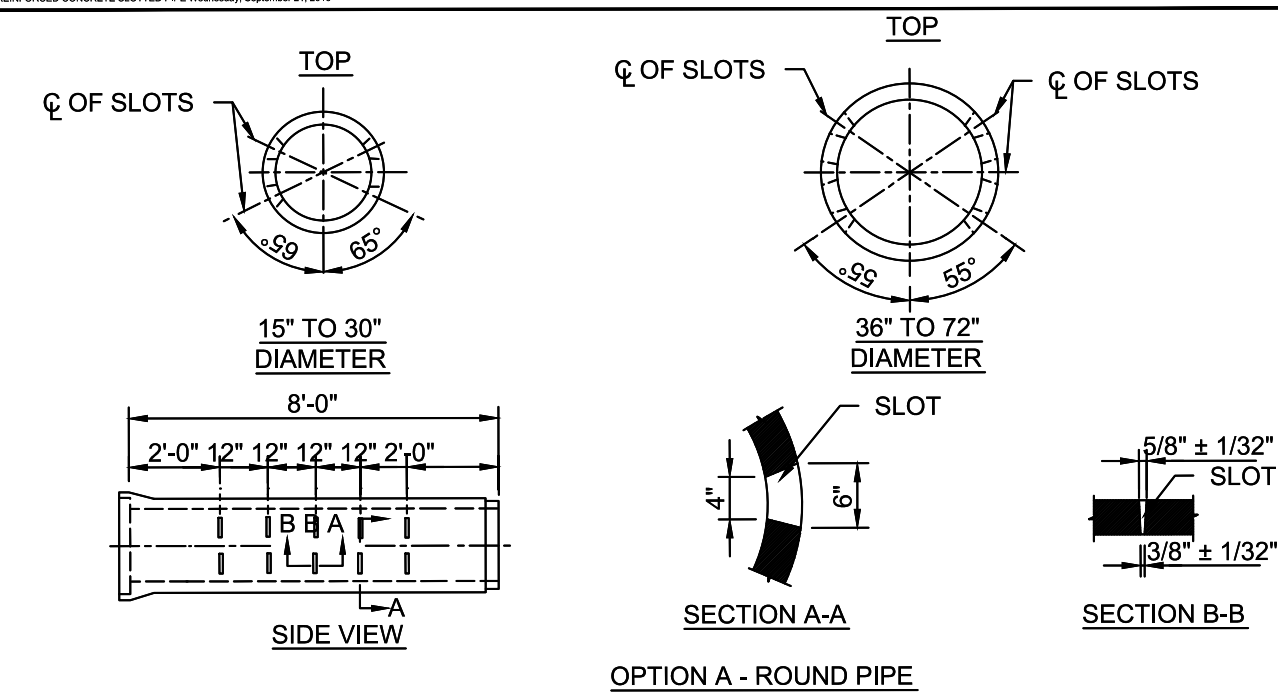
NOTES:
DCE: DESIGN CONTROL ELEVATION
SHWT: SEASONAL HIGH WATER TABLE



EXFILTRATION TRENCH
CROSS SECTION

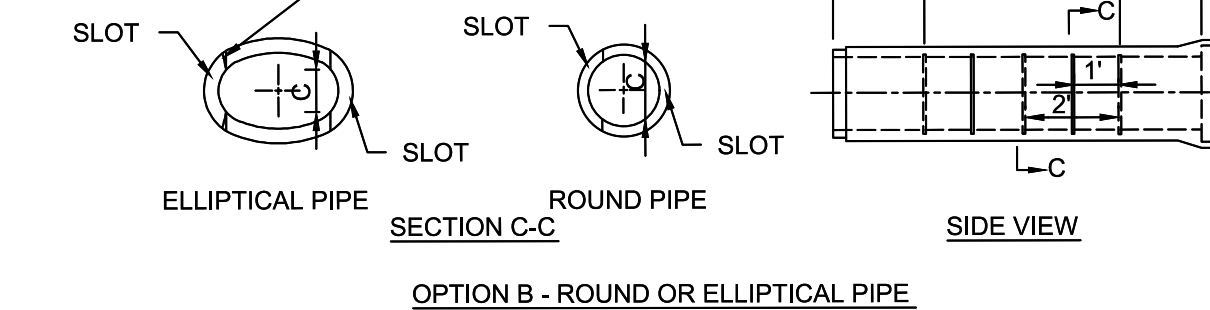


STRM003 - REINFORCED CONCRETE SLOTTED PIPE Trenches, September 21, 2016



ELLIPTICAL PIPE		ROUND PIPE	
PIPE SIZE	SLOT CUT OPENING C MIN. MAX.	PIPE SIZE	SLOT CUT OPENING C MIN. MAX.
14" x 23"	10" 12"	15" 12" 14"	
19" x 30"	14" 16"	18" 12" 14"	
24" x 38"	14" 16"	24" 16" 18"	
29" x 45"	20" 22"	30" 16" 18"	
34" x 53"	20" 22"	36" 22" 24"	
38" x 60"	20" 22"	42" 22" 24"	
		48" 22" 24"	
		54" 24" 26"	
		60" 24" 26"	
		66" 24" 26"	
		72" 24" 26"	

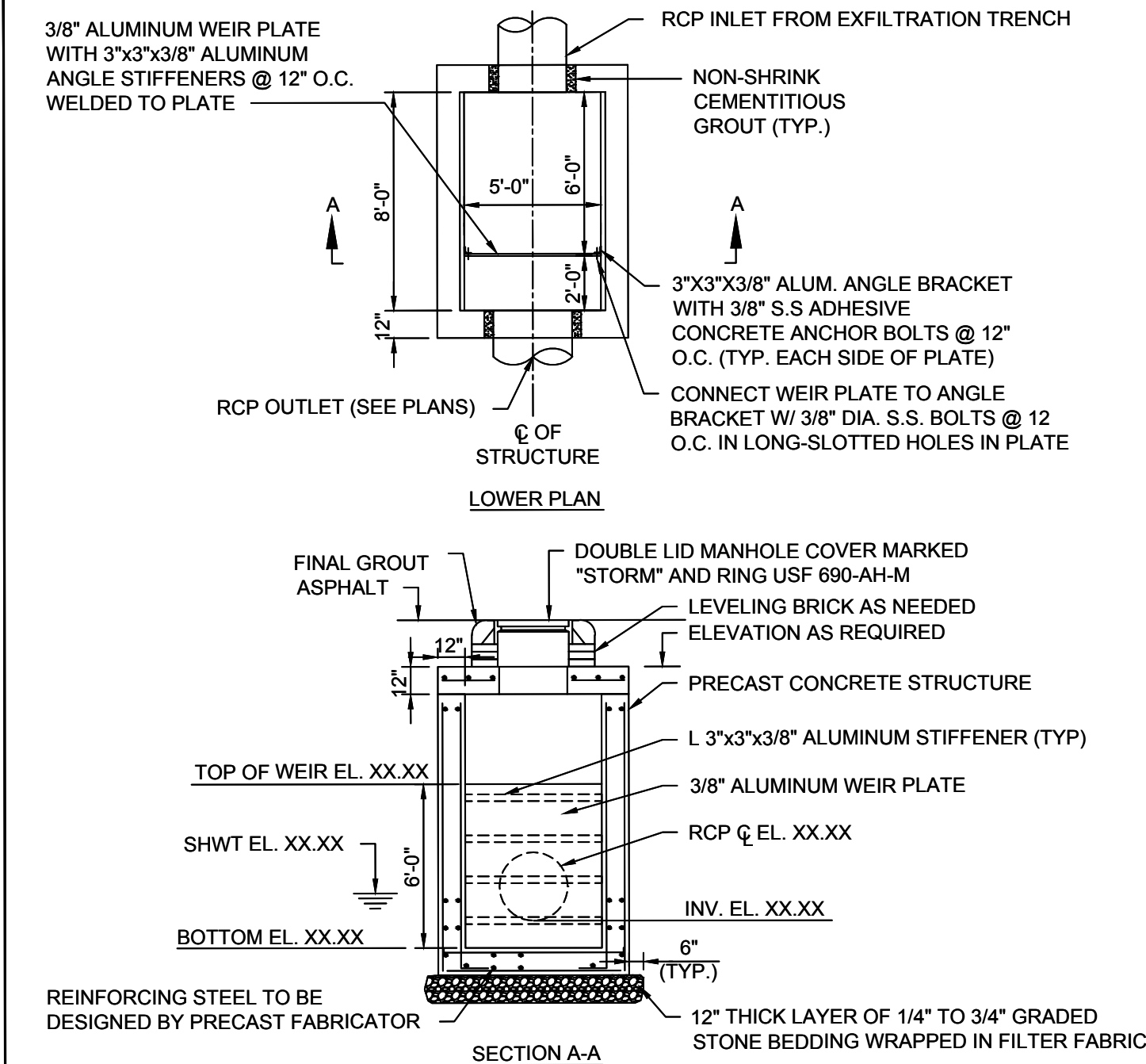
A CURVED CUT IS ACCEPTABLE PROVIDED THE CONTROL DIMENSION IS MAINTAINED (TYPICAL FOR ELLIPTICAL & ROUND PIPE)



REINFORCED CONCRETE SLOTTED PIPE



STRM004 - EXFILTRATION TRENCH OVERFLOW STRUCTURE Trenches, September 21, 2016



NOTES:

- ALL PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C478.
- CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR ENGINEER'S REVIEW AND APPROVAL. SHOP DRAWING SHALL INCLUDE DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- SHOP DRAWINGS SHALL INCLUDE CALCULATIONS DEMONSTRATING THAT STRUCTURE WILL RESIST FLOATION WHEN EMPTY AND SUBJECT TO GROUNDWATER TO TOP OF STRUCTURE.

4. PRECAST CONCRETE SECTION SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

- LATERAL SOIL PRESSURE.
- GROUNDWATER ELEVATION = AT GRADE
- COMPACTION OF SOIL DURING BACKFILL.
- ADDITION STRESSES INDUCED BY TRANSPORTATION AND HANDLING.
- PIPE THRUST = 500 LB.
- H-20 TRUCK LOAD.

LEGEND:

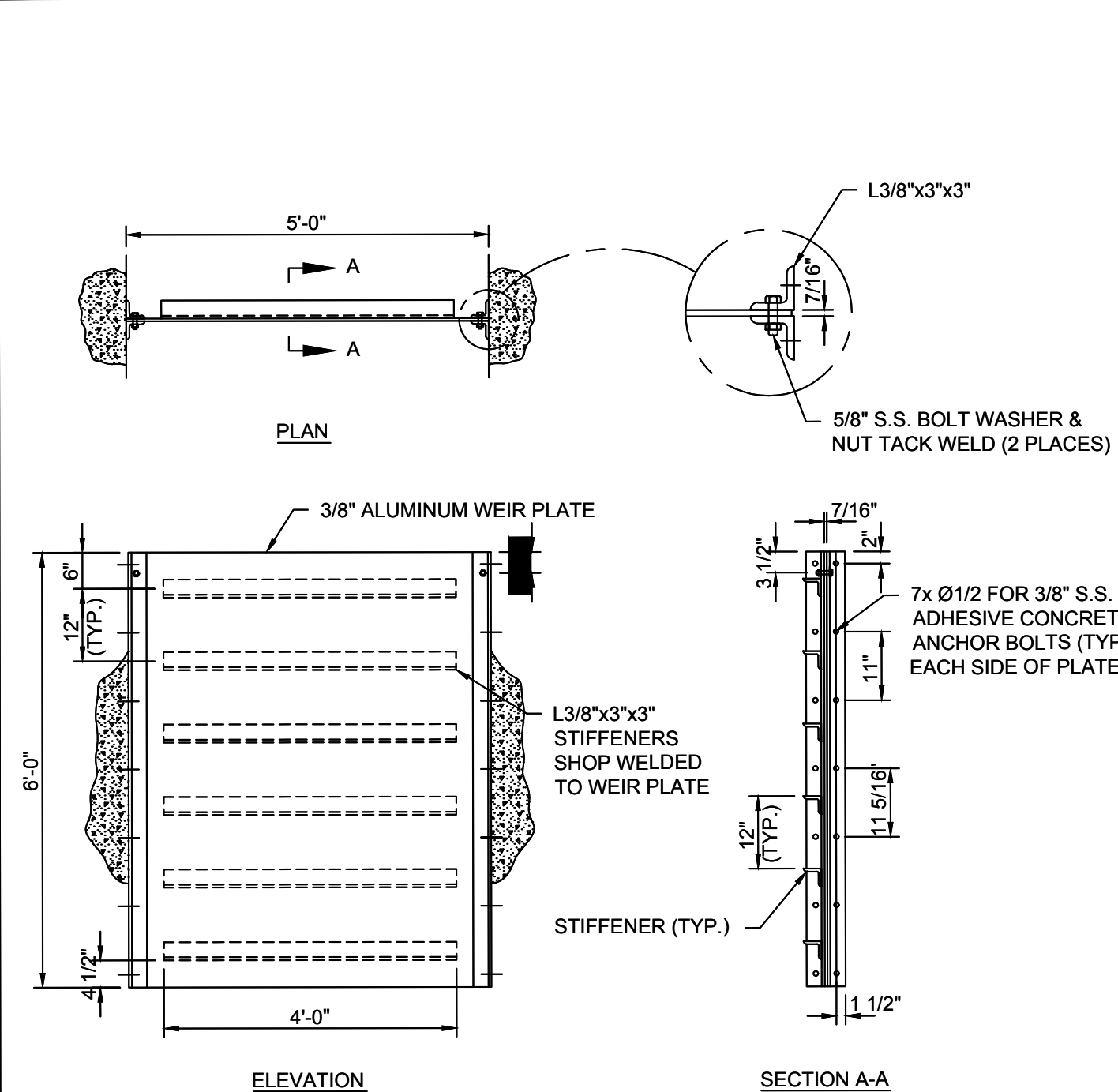
SHWT : SEASONAL HIGH WATER TABLE



TRENCH OVERFLOW STRUCTURE
PLAN AND SECTION
SHEET 1



STRM005 - EXFILTRATION TRENCH OVERFLOW STRUCTURE Trenches, September 21, 2016



NOTES:

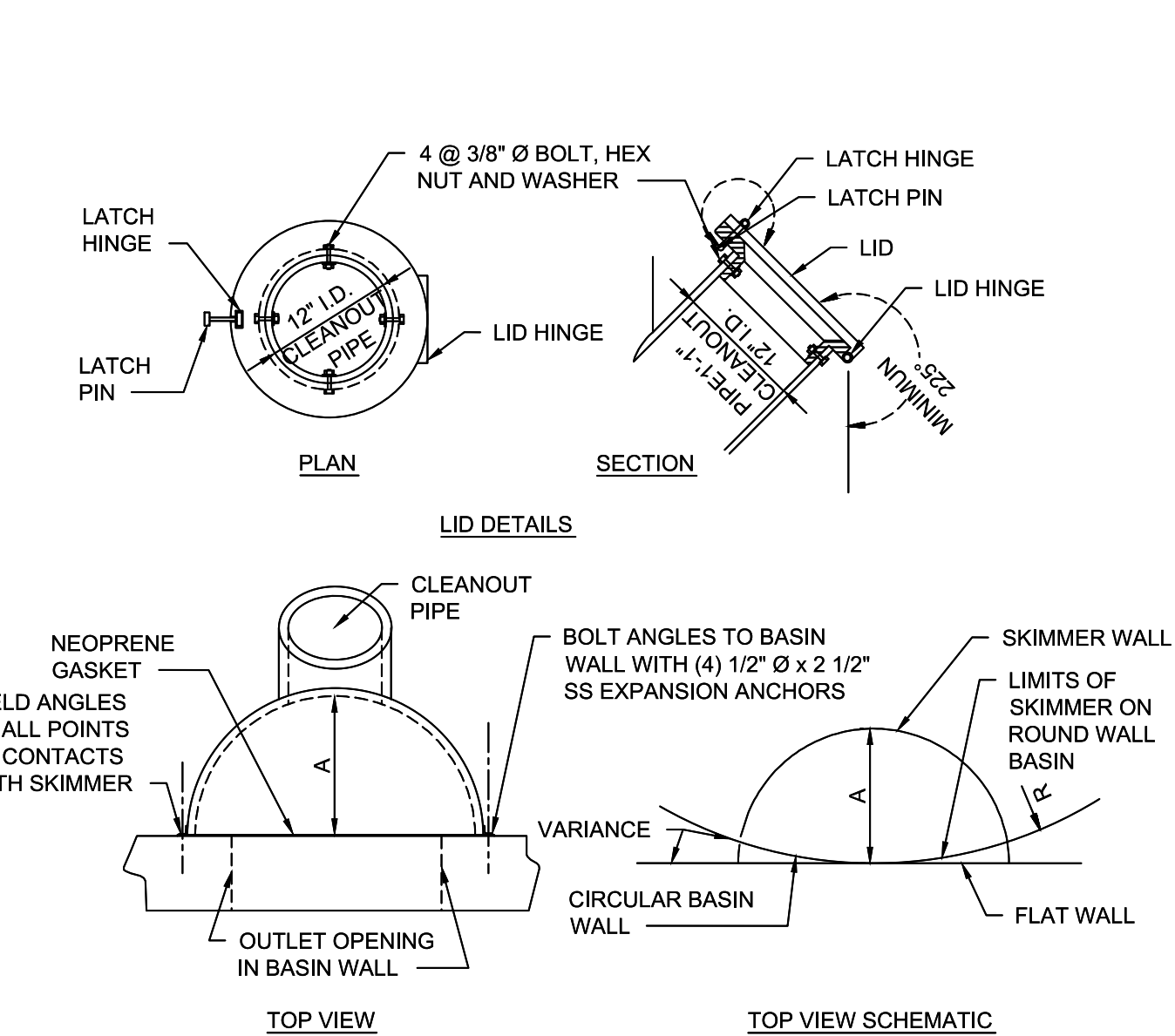
- WEIR PLATE MATERIAL: ALUMINUM MILL FINISH.



TRENCH OVERFLOW STRUCTURE
WEIR PLATE
SHEET 2



STRM006 - SKIMMER FOR EXFILTRATION TRENCH OUTLET Trenches, September 21, 2016



2016/09/21
SKIMMER FOR EXFILTRATION TRENCH OUTLET
TYPE 1 - SHEET 2



NO.	REVISIONS	DATE	BY
3	ISSUED FOR DRC	10/25/2024	KHA
2	ISSUED FOR DRC	06/07/2024	KHA
1	ISSUED FOR DRC	09/22/2023	KHA
	ISSUED FOR DRC	06/23/2023	KHA

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KHA PROJECT 040879023	KHA DATE 10/25/2024	KHA SCALE AS SHOWN	KHA DESIGNED BY KHA	KHA DRAWN BY KHA	KHA CHECKED BY ARM
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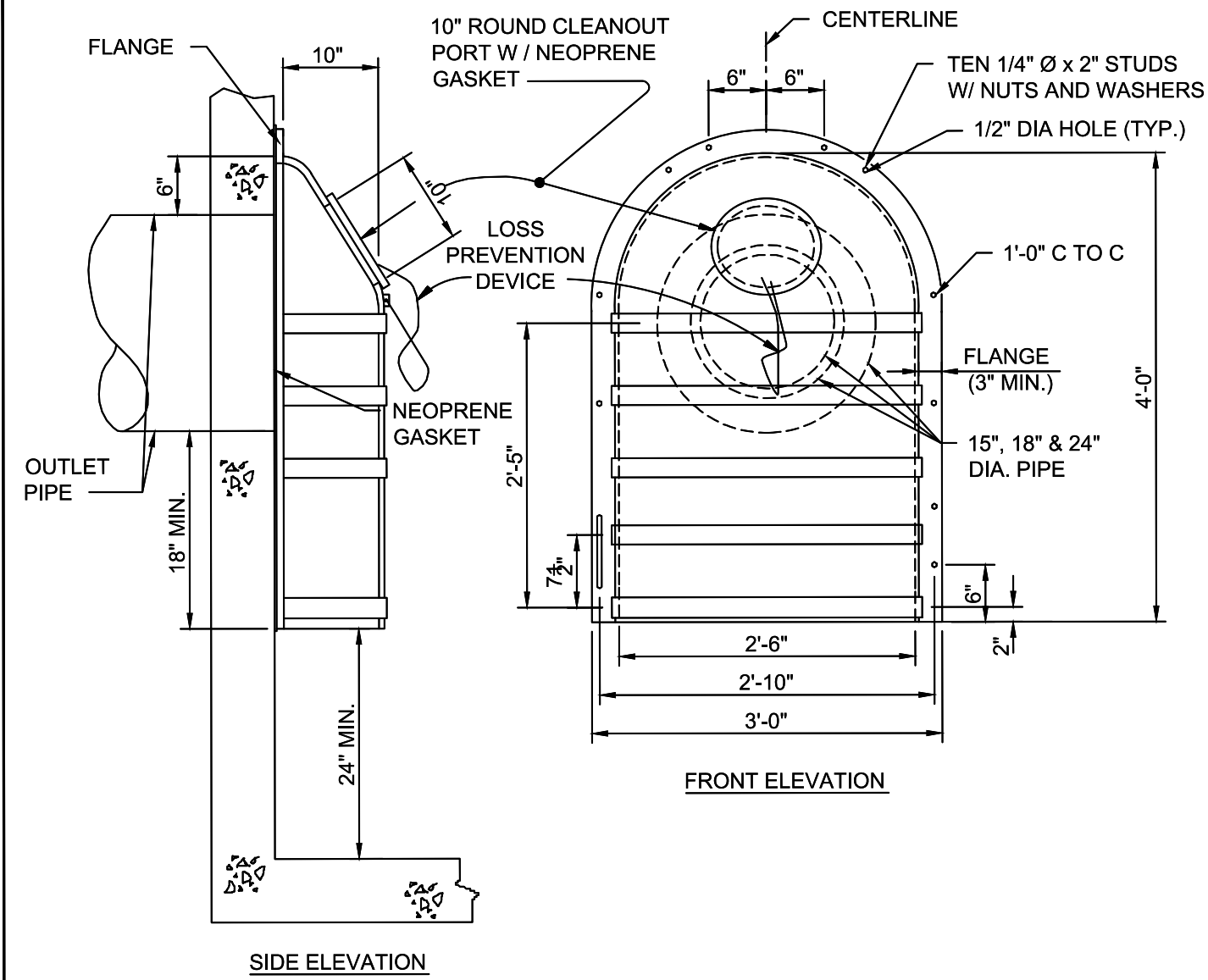
DRAINAGE DETAILS

42 HOTEL
PREPARED FOR
ADACHE GROUP
ARCHITECTS, INC
CITY OF FORT LAUDERDALE
FLORIDA

SHEET NUMBER
C-501

Printed By: Gachon, Stephen Sheet Set: 42-HOTEL Layout: DRAINAGE DETAILS 1 October 28, 2024 11:37:54am K:\B\Civil\040 Jobs\040879023 m-use 3001 allambers st\Design\CADD\SheetSet\DRAINAGE DETAILS.dwg
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STRM007 - SKIMMER FOR EXFILTRATION TRENCH OUTLET, TYPE 2 (Issued, September 21, 2016)

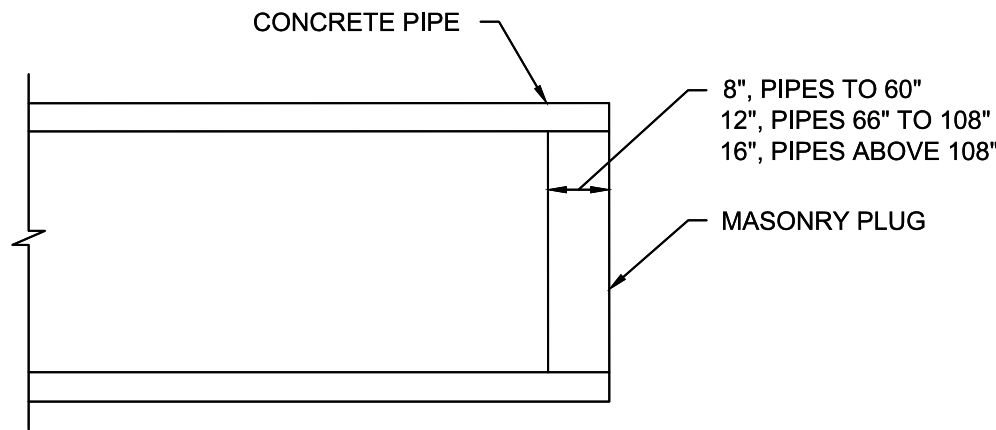


CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
300 North Andrews Avenue, Fort Lauderdale, Florida 33304

SKIMMER FOR EXFILTRATION TRENCH OUTLET
TYPE 2

ISSUE NO.
STRM
007
2016/09/21

STRM011 - PIPE PLUG (Issued, July 19, 2017)



NOTES:

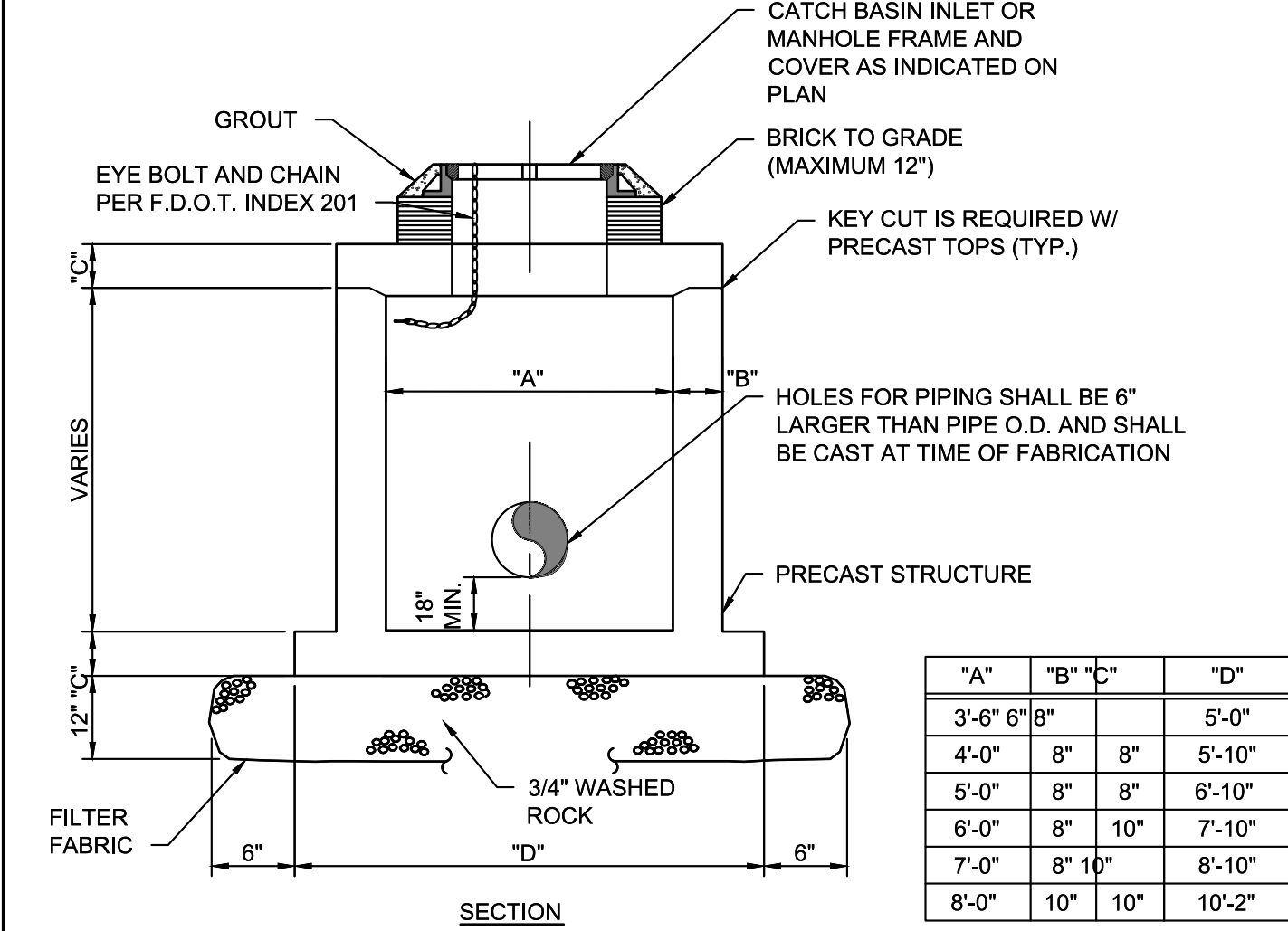
1. THE COST OF PLUGGING PIPES TO BE INCLUDED IN CONTRACT UNIT PRICE FOR NEW PIPE.
2. EITHER BRICK MASONRY OR CONCRETE BRICK MAY BE USED FOR THE PLUG.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
300 North Andrews Avenue, Fort Lauderdale, Florida 33304

PIPE PLUG

ISSUE NO.
STRM
011
2017/07/19

STRM009 - PRECAST DRAINAGE STRUCTURE (Issued, July 19, 2017)



NOTES:

1. PRECAST STRUCTURE SHALL BE EITHER SQUARE OR ROUND AS INDICATED ON THE PLANS.
2. REINFORCING SHALL BE DESIGNED BY THE PRECAST MANUFACTURER TO COMPLY WITH FOOT INDEX 200.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
4. DESIGN STRUCTURE FOR H-20 TRUCK LOAD.
5. SHOP DRAWINGS SHALL INCLUDE CALCULATIONS DEMONSTRATING THAT STRUCTURE WILL RESIST FLOATATION WHEN EMPTY AND SUBJECT TO GROUNDWATER TO TOP OF STRUCTURE.
6. CATCH BASINS SHALL HAVE USF 4155 FRAME AND 6209 GRATE.
7. MANHOLES SHALL HAVE USF 230 RING AND TYPE AA COVER WITH THE LETTERING "STORM SEWER" CAST IN THE COVER.

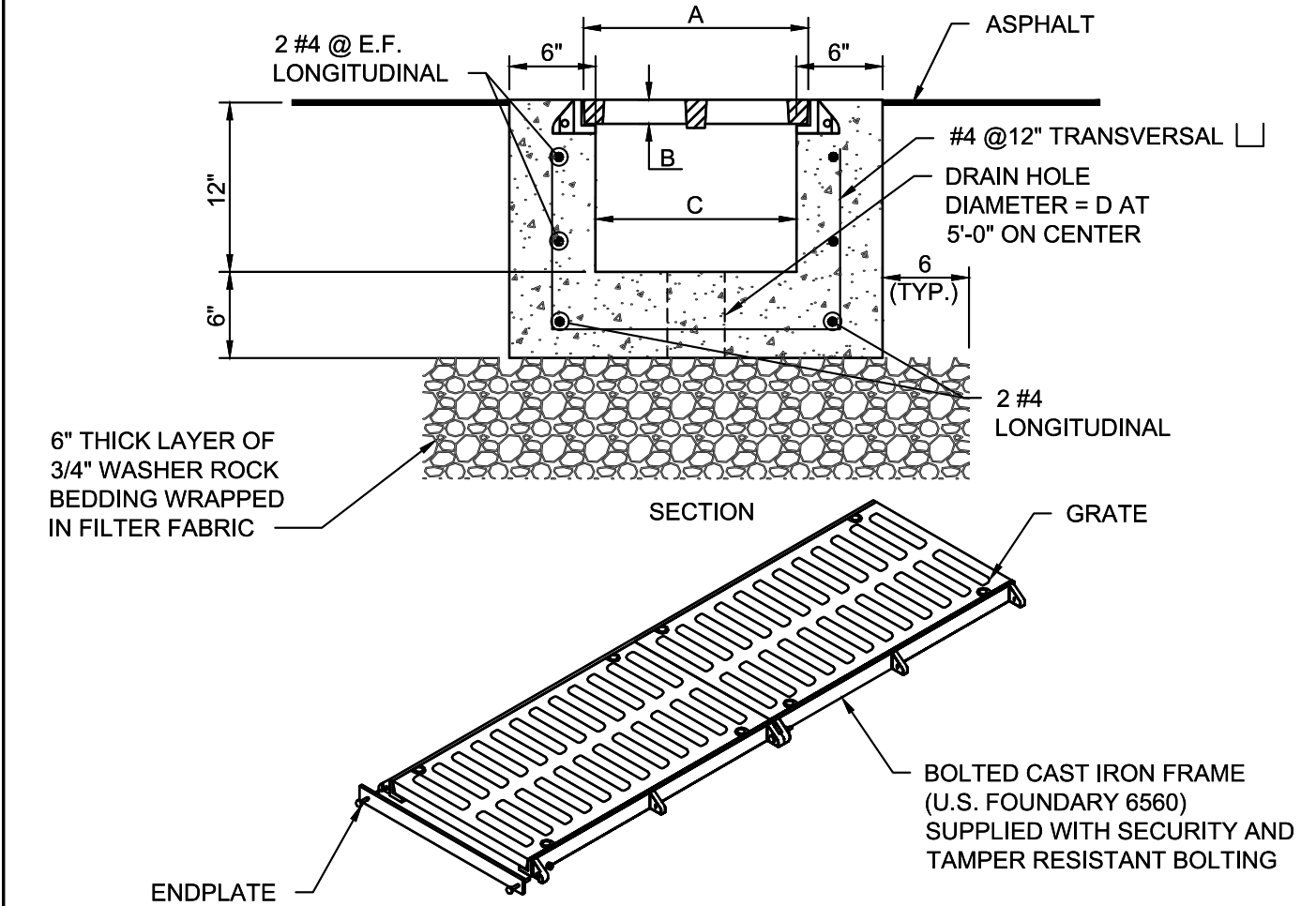
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
300 North Andrews Avenue, Fort Lauderdale, Florida 33304

PRECAST CIRCULAR & SQUARE DRAINAGE STRUCTURES

ISSUE NO.
STRM
009
2017/07/14

STRM010 - TRENCH DRAIN (Issued, July 19, 2017)

GRATE NUMBER	TYPE	"A" WIDTH	"B" SEAT HEIGHT	"C" CLEAR OPENING	ADA COMPLIANT	FLOW AREA	"D" DRAIN HOLE DIA.
6451	STANDARD	8"	1 1/2"	6"	NO	70	2"
6452	STANDARD	10"	1 1/2"	8"	NO	75	3"
6453	STANDARD	12"	1 1/2"	10"	NO	100	3"
6454	STANDARD	14"	1 1/2"	12"	NO	116	4"
6455	STANDARD	17"	1 1/2"	15"	NO	132	4"
6456	STANDARD	20"	1 1/2"	18"	NO	138	4"
6457	STANDARD	23"	1 1/2"	21"	NO	161	6"
6458	STANDARD	26"	1 1/2"	24"	NO	192	6"
6461	STANDARD	30"	2"	27"	NO	212	6"
6266	NARROW SLOTTED	8"	1 1/2"	8"	YES	30	2"
6267	NARROW SLOTTED	10"	1 1/2"	8"	YES	35	3"
6268	NARROW SLOTTED	12"	1 1/2"	10"	YES	50	3"
6269	NARROW SLOTTED	14"	1 1/2"	12"	YES	60	4"



NOTES:

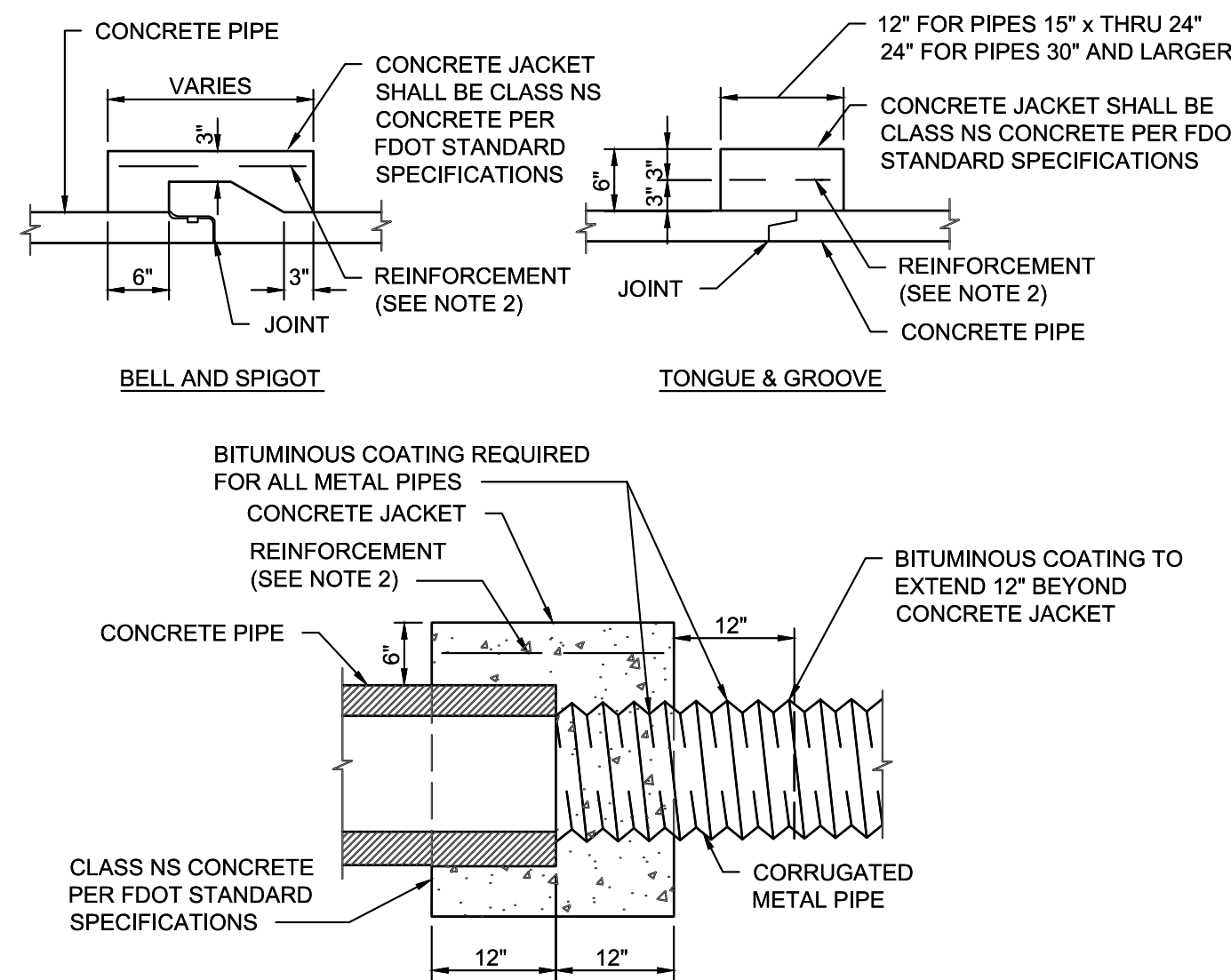
1. FRAME AND GRATE SHALL BE SUPPLIED IN 2'-0" LENGTHS.
2. GRATES SHALL BE BOLTED TO THE FRAME.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
300 North Andrews Avenue, Fort Lauderdale, Florida 33304

TRENCH DRAIN

ISSUE NO.
STRM
010
2017/07/14

STRM012 - CONCRETE JACKET FOR STORMWATER PIPE (Issued, July 19, 2017)



NOTES:

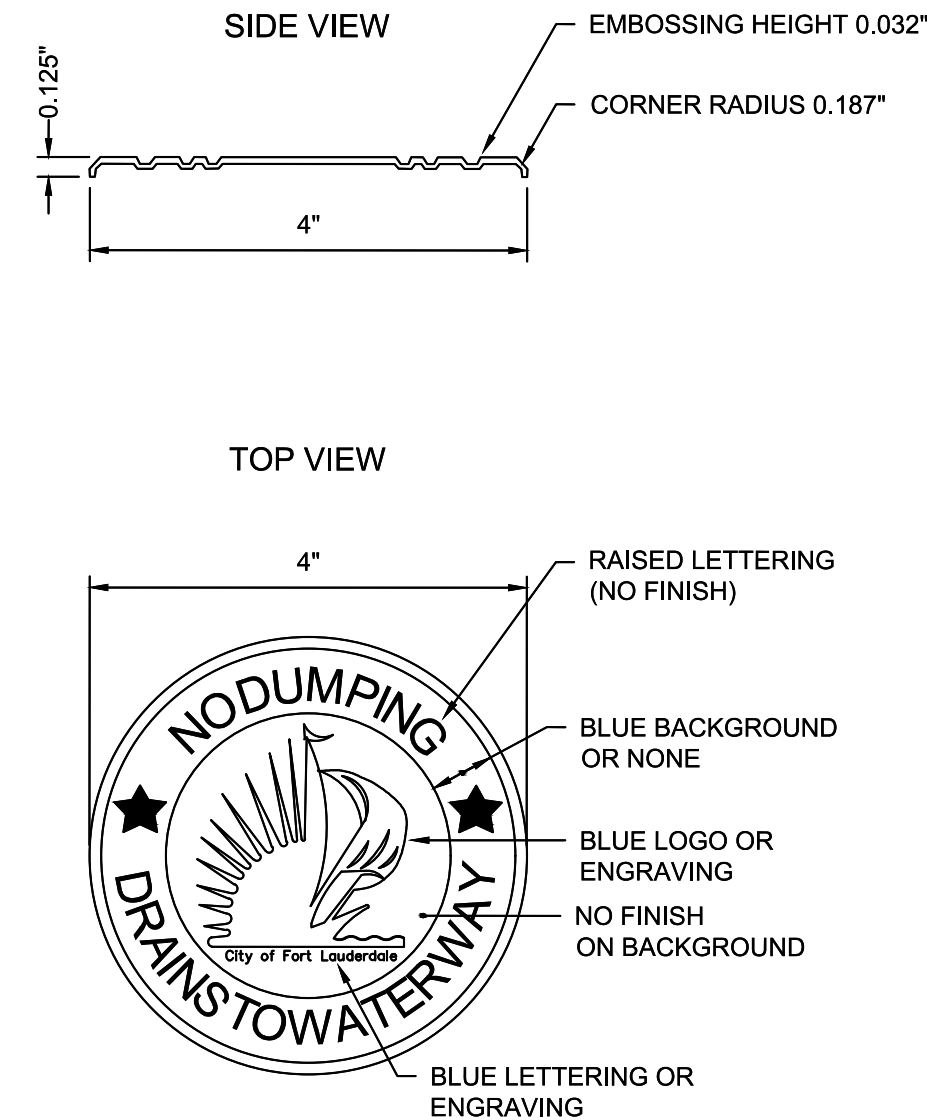
1. CONCRETE JACKET SHALL NOT BE USED TO JOIN METAL PIPES OF DISSIMILAR MATERIALS.
2. ANY WIRE MESH ARRANGEMENT WHICH PROVIDES 0.126 SQUARE INCHES OF STEEL AREA PER LINEAR FOOT BOTH WAYS MAY BE USED, PROVIDED THE WIRES ARE SPACED A MINIMUM OF 2" AND/OR A MAXIMUM OF 6" ON CENTERS.
- 3.
4. COST OF CONCRETE JACKET AND BITUMINOUS COATING SHALL BE INCLUDED IN THE COST OF THE PIPE.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
300 North Andrews Avenue, Fort Lauderdale, Florida 33304

CONCRETE JACKET FOR STORMWATER PIPE

ISSUE NO.
STRM
010
2017/07/14

STRM021 - DRAIN MARKER (Issued, December 22, 2017)



NOTES:

1. DRAIN MARKER SHALL BE BY LORDON, INC., OR EQUAL.
2. SECURE WITH SIKAFLEX IIFC ADHESIVE.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
300 North Andrews Avenue, Fort Lauderdale, Florida 33304

DRAIN MARKER

ISSUE NO.
STRM
021
2017/12/22



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2	ISSUED FOR DRC	06/07/2024	KHA
1	ISSUED FOR DRC	09/22/2023	KHA
	ISSUED FOR DRC	06/23/2023	KHA

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KHA PROJECT 040879023	DATE 10/25/2024	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY ARM
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DRAINAGE DETAILS

42 HOTEL

PREPARED FOR
ADACHE GROUP
ARCHITECTS, INC

FLORIDA
CITY OF FORT LAUDERDALE

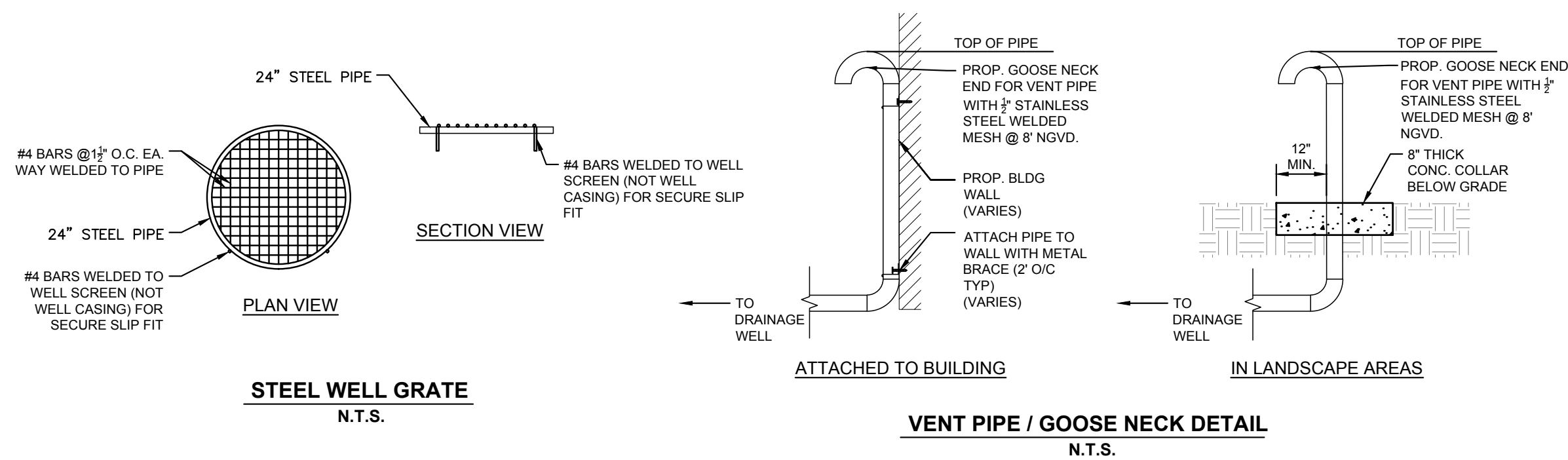
SHEET NUMBER
C-502



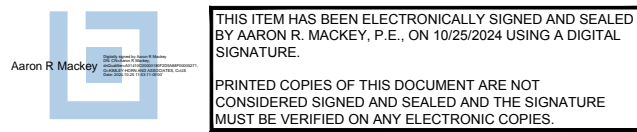
1. **DESIGN CRITERIA:** DESIGN, FABRICATION AND ERECTION OF PRECAST CONCRETE SILL BEAM IN ACCORDANCE WITH ACI 318-98 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND PCI DESIGN HANDBOOK. DESIGN OF CAST-IN-PLACE CONCRETE SILL BEAM IN ACCORDANCE WITH ACI 318-98.
2. **DESIGN LIVE LOADS:** THE TOP SLAB OF DRAINAGE STRUCTURE SHALL BE DESIGNED TO CARRY TRAFFIC LOADS (HS 20 LOADING).
3. **GEOTECHNICAL CRITERIA:** SOIL BEARING PRESSURE UNDER STRUCTURE ASSUMED TO BE AT MINIMUM 2000 PSF. PRIOR TO INSTALLATION OF DRAINAGE STRUCTURE THE SOIL BEARING CAPACITY OF THE FOUNDATION MUST BE CONFIRMED BY THE CONTRACTOR, THROUGH A CERTIFIED GEOTECHNICAL LABORATORY.
4. **CONCRETE:** CONCRETE SHALL BE NORMAL WEIGHT, AND SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. SILL BEAM MEET THE REQUIREMENT OF ASTM C478. CONCRETE COVER FOR REINFORCEMENT SHALL BE 2 INCHES EXCEPT FOOTING BOTTOM BARS SHALL HAVE 3" COVER.
5. **REINFORCING:** REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, AND SHALL BE OF U.S. MANUFACTURE.
6. **MORTAR:** MORTAR GROUT TO SEAL THE SPINE, TOP SLABS, AND LEVELING COURSE SHALL BE OF SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE OR CRACKS OR OUT OF THE JOINTS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR MORTAR FOR ENGINEER REVIEW AND APPROVAL.
7. **SHOP DRAWINGS:** CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SIGNED AND SEACOVER BY A FLORIDA LICENSED ENGINEER, FOR PRECAST STRUCTURES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE CONSTRUCTION OF STRUCTURE.
8. **MANHOLE RING & COVER:** ALL MANHOLE RINGS AND COVERS, WITHIN PRIVATE PROPERTY, SHALL HAVE THE WORD "STORM SEWER" CAST ON COVER. MANHOLE COVERS SHALL BE FRAME TYPE TO BE RIGID WITH WATER PROOFING NEOPRENE GASKET, FRAMES AND COVERS TO BE U.S. FOUNDRY NO. 310-A OR EQUAL.

NOTES:

1. DEEP WELLS TO BE CONSTRUCTED PER DRAINAGE WELL SCHEDULE.
CONTRACTOR IS TO VERIFY A MINIMUM FLOW RATE OF 350 GPM PER FOOT OF HEAD FOR EACH WELL. THE REGISTERED PROFESSIONAL ENGINEER OF RECORD AFTER EACH WELL IS DRILLED TO REPORT THE CAPACITY OF EACH WELL. CONTRACTOR MUST PROVIDE 60% CASING AND 40% OPEN WELL AT ANY DEPTH.
2. STEEL WELL PIPE TO BE INSTALLED OVER 24" WELL CASING. STEEL GRADE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. COAT TO BE INCLUDED IN THE PRICE OF CASING.
3. DEVELOPER OF WELL TO ASSURE 1500 P.P.M. SALINITY. THE WELL CASING SHALL PENETRATE A ZONE CONTAINING A MINIMUM OF 10,000 MG/L TOTAL DISSOLVED SOLIDS (TDS) IN ACCORDANCE WITH ILLINOIS STATE BOARD #2006). FAC.
4. WELL TESTING TO COMPLY WITH ASTM D 5793 AND D-4050-JOE AND BE PERFORMED BY A THIRD PARTY DRILLING AREA REGISTERED GEOLOGIST
5. ALL DRAINAGE WELL BOXES SHALL BE WATER TIGHT. ALL WELL BOX CONNECTIONS SHALL BE WATER TIGHT. WELL BOX MUST BE DESIGNED FOR UPLIFT FORCES (MIN 3 PSI) AND SIGNED AND SEALED BY A REGISTERED FLUIDA PROFESSIONAL ENGINEER.
6. CONTRACTOR TO SUBMIT SHOP DRAWING TO ENGINEER OF RECORD.

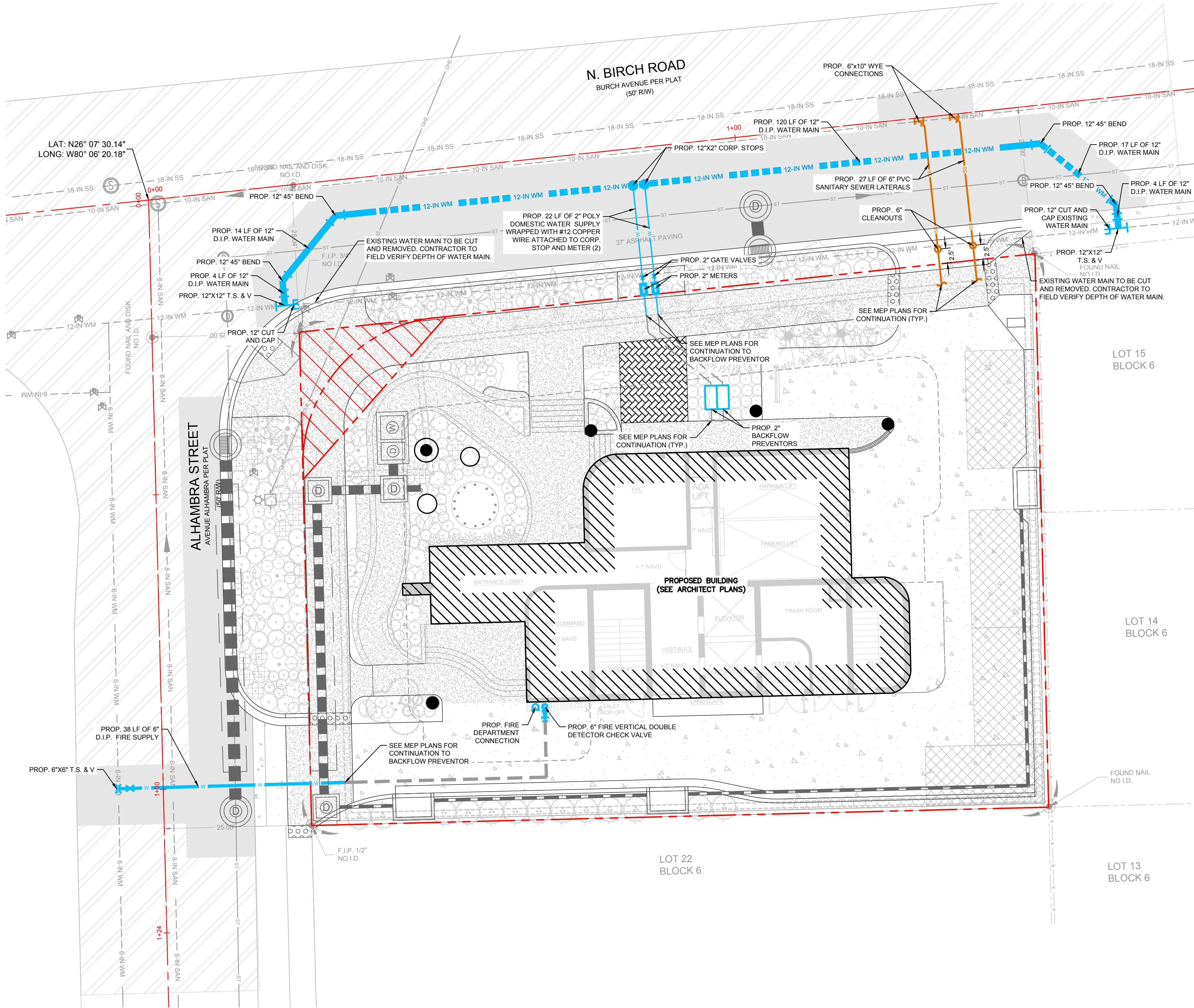


DRAINAGE WELL STRUCTURE TABLE												
STRUCT. NO.	FRAME & COVER	INVERT				M.H. RIM ELEVATION	WELL CASING ELEVATION	STRUCTURE FLOOR ELEVATION	HEIGHT OF WELL STRUCTURE BOX (Z)	LOCATION		REMARKS
		N	S	E	W					LATITUDE	LONGITUDE	
DW-1	SEE DETAIL	-	-	2.00'	-	6.86'	3.50'	1.00'	4.50'	N26° 07' 30.54"	W80° 06' 19.77"	24" DIA. CASED DEEP WELL (SEE DRAINAGE WELL NOTES, THIS SHEET)



<div><div>3</div><div>SHEET NUMBER</div><div>C-503</div></div>	<div>42 HOTEL</div> <div>PREPARED FOR</div> <div>ADACHE GROUP</div> <div>ARCHITECTS, INC</div>	<div>DRAINAGE WELL</div> <div>DETAILS</div>	<div>FLORIDA</div> <div>CITY OF FORT LAUDERDALE</div>	KHA PROJECT	AS SHOWN	<div><div>040879023</div><div>DATE</div><div>10/25/2024</div><div>No. 93208</div><div>STATE OF FLORIDA</div><div>PROFESSIONAL ENGINEER</div></div>	<div>Kimley»»Horn</div> <div>© 2024 KIMLEY-HORN AND ASSOCIATES, INC.</div> <div>8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324</div> <div>PHONE 954-535-5100 FAX: 954-739-2247</div> <div>WWW.KIMLEY-HORN.COM</div> <div>REGISTRY No. 35106</div>				No.	REVISIONS	DATE	BY
				DESIGNED BY	KHA		1	ISSUED FOR DRC	06/07/2024	KHA				
				DRAWN BY	KHA		2	ISSUED FOR DRC	06/23/2023	KHA				
				CHECKED BY	ARM		3	ISSUED FOR DRC	06/23/2023	KHA				

Plotted By: Gacoch, Stephen Sheet Set: 42-HOTEL Layout: C-600 WATER & SEWER PLAN October 25, 2024 11:25:12am K:\it\civil\040 JB55040879023.mxd 3001 Alhambra s\Design\CADD\plan\42-HOTEL\WATER & SEWER PLAN.dwg
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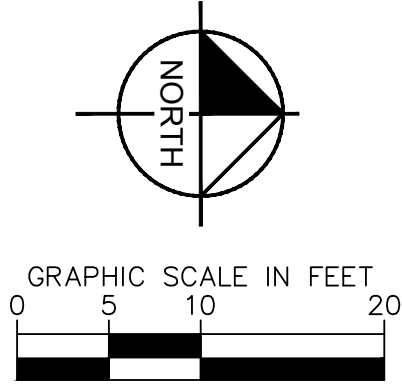
NOTES:

- ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAY MUST BE IN CONFORMITY WITH THE BROWARD COUNTY STANDARDS AND/OR REQUIREMENTS.
- THE CONTRACTOR MUST POT HOLE AND VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER MAINS AND SANITARY SEWER MAINS BEFORE MAKING TIE-IN CONNECTIONS.
- THE CONTRACTOR MUST USE EXTREME CARE TO AVOID DAMAGE OR DISRUPTION TO ANY EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. ALL PLAN LOCATIONS ARE APPROXIMATE, AND SHALL BE FIELD VERIFIED. CONTRACTOR IS TO CONTACT SUNSHINE ONE CALL OF FLORIDA 1-800-432-4770, AND ALL OTHER PARTICIPATING UTILITIES, 48-HOURS PRIOR TO CONSTRUCTION FOR FIELD MARK-UP LOCATIONS OF EXISTING UTILITIES AND FACILITIES.
- THE CONTRACTOR MUST INFORM THE CITY AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING, IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR RESOLUTION BY THE CITY.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST 48-HOURS IN ADVANCE TO COORDINATE ANY ACTIVITY OF CONSTRUCTION TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
- ALL PAVEMENT FOR ANY ROAD CUTS OR CURB CUTS FOR UTILITIES WITHIN THE CITY RIGHT-OF-WAY SHALL BE RESTORED TO FULL LANE WIDTH FOR A 50' MINIMUM LENGTH, IN ACCORDANCE WITH CITY CODE OF ORDINANCES SECTION 25-108.
- ALL INSTALLATIONS WITHIN BROWARD COUNTY RIGHT-OF-WAY SHALL BE IN CONFORMITY WITH THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION "MINIMUM STANDARDS."
- ALL SANITARY SEWER MANHOLES INSTALLED WITHIN PUBLIC RIGHT-OF-WAY SHALL HAVE CITY OF FORT LAUDERDALE LOGO, AS PER CITY OF FORT LAUDERDALE DETAILS 200 AND 201.
- ALL SANITARY SEWER MANHOLES INSTALLED WITHIN PRIVATE PROPERTY SHALL BE USF 485/3140 ASTM-A48 CLASS 35B (OR APPROVED EQUAL) WITH THE WORDS "SANITARY".
- REFER TO CITY OF FORT LAUDERDALE PAVEMENT RESTORATION DETAILS ON SHEETS C-206 AND C-207, PAVING, GRADING, AND DRAINAGE DETAILS.
- THE CITY OF FORT LAUDERDALE INSPECTOR SHALL BE PRESENT TO OBSERVE ALL WATER AND SEWER INSTALLATIONS.
- SANITARY SEWER MANHOLES LOCATED WITHIN PRIVATE PROPERTY WILL BE OWNED AND MAINTAINED BY OWNER. AN ACCESS EASEMENT SHALL BE PROVIDED FOR EACH MANHOLE WITHIN PRIVATE PROPERTY, PRIOR TO SIGN-OFF FROM THE CITY ENGINEER FOR CERTIFICATE OF OCCUPANCY.
- ALL EXISTING SEWER LATERAL CONNECTIONS TO BE ABANDONED MUST BE SEALED USING SECTIONAL CIPP LINING INSTALLED BY A LICENSED LINING CONTRACTOR. THE LINING MUST BE INSPECTED AND APPROVED BY THE CITY OF FORT LAUDERDALE.
- ALL SEWER UTILITIES TO BE TELEVIEWED (CCTV) AFTER INSTALLATION IS COMPLETE. TELEVIEWING VIDEO AND REPORT TO BE SUBMITTED TO CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.
- IF EXISTING SEWER MAIN HAS CIPP LINING, A DOGHOUSE MANHOLE SHALL BE USED FOR SANITARY SEWER LATERAL CONNECTIONS. CONTRACTOR TO COORDINATE WITH CITY INSPECTOR REGARDING OBSERVATION AND APPROVAL OF SANITARY LATERAL INSTALLATIONS.
- CONTRACTOR TO COORDINATE WITH CITY INSPECTOR AND CITY ENGINEERING DEPARTMENT REGARDING ALL REPORTS AND CLOSE-OUT DOCUMENTS REQUIRED PRIOR TO CERTIFICATE OF OCCUPANCY.
- A MINIMUM 5' AND 10' HORIZONTAL SEPARATION IS REQUIRED BETWEEN CITY UTILITIES INFRASTRUCTURE AND PROPOSED SMALL AND LARGE TREES, RESPECTIVELY.
- ALL PROPOSED SANITARY SEWER MANHOLES TO BE COATED BOTH INSIDE AND OUTSIDE.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: AARON R. MACKEY, P.E., ON 10/25/2024 USING A DIGITAL SIGNATURE.
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LEGEND:

- PROPERTY LINE AND/OR RIGHT-OF-WAY
- CENTERLINE OF R/W
- EXISTING FLOOD BOUNDARY
- LIMITS OF UNDERGROUND GARAGE
- EXISTING 6" WATER PIPE
- EXISTING 12" WATER PIPE
- PROPOSED WATER PIPE
- PROPOSED WATER PIPE CONTINUED BY MEP
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- PROPOSED DOUBLE DETECTOR CHECK VALVE W/ WATER CHECK VALVE ON DOWNSTREAM SIDE
- PROPOSED REDUCED PRESSURE BACKFLOW PREVENTER & METER
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED SANITARY SEWER CLEANOUT
- PROPOSED STORM PIPES AND EXFIL. TRENCH
- PROPOSED STORM STRUCTURES
- EXISTING SANITARY MANHOLE
- EXISTING 8" SANITARY PIPE
- EXISTING 10" SANITARY PIPE
- EXISTING 18" FORCEMAIN PIPE
- PROPOSED 6" SANITARY SEWER LATERAL
- PROPOSED SIDEWALK CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED LANDSCAPE
- PROPOSED PAVEMENT MILL AND RESURFACE
- PROPOSED FULL DEPTH PAVEMENT RESTORATION

NO.	REVISIONS	DATE	BY
3	ISSUED FOR DRC	10/25/2024	KHA
2	ISSUED FOR DRC	06/07/2024	KHA
1	ISSUED FOR DRC	09/22/2023	KHA
	ISSUED FOR DRC	06/23/2023	KHA

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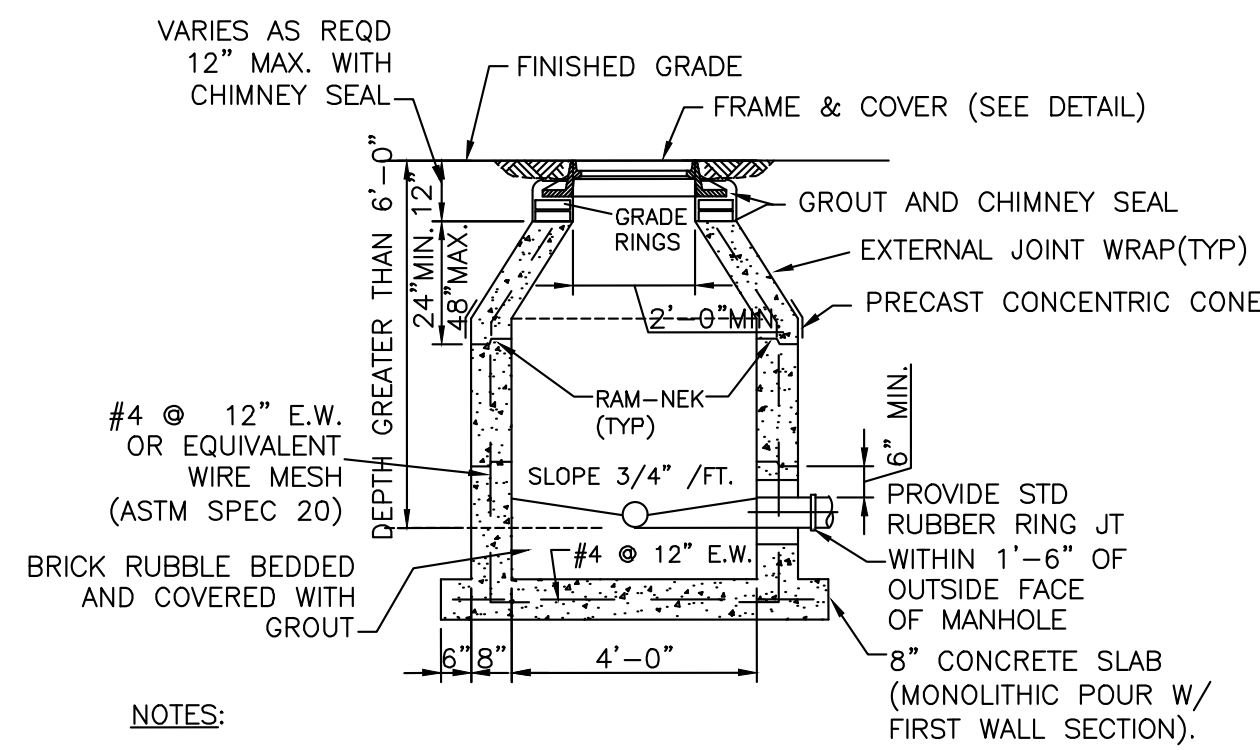


KHA PROJECT	040879023
DATE	10/25/2024
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	ARM

**WATER & SEWER
PLAN**

42 HOTEL
PREPARED FOR
ADACHE GROUP
ARCHITECTS, INC
CITY OF FORT LAUDERDALE
FLORIDA

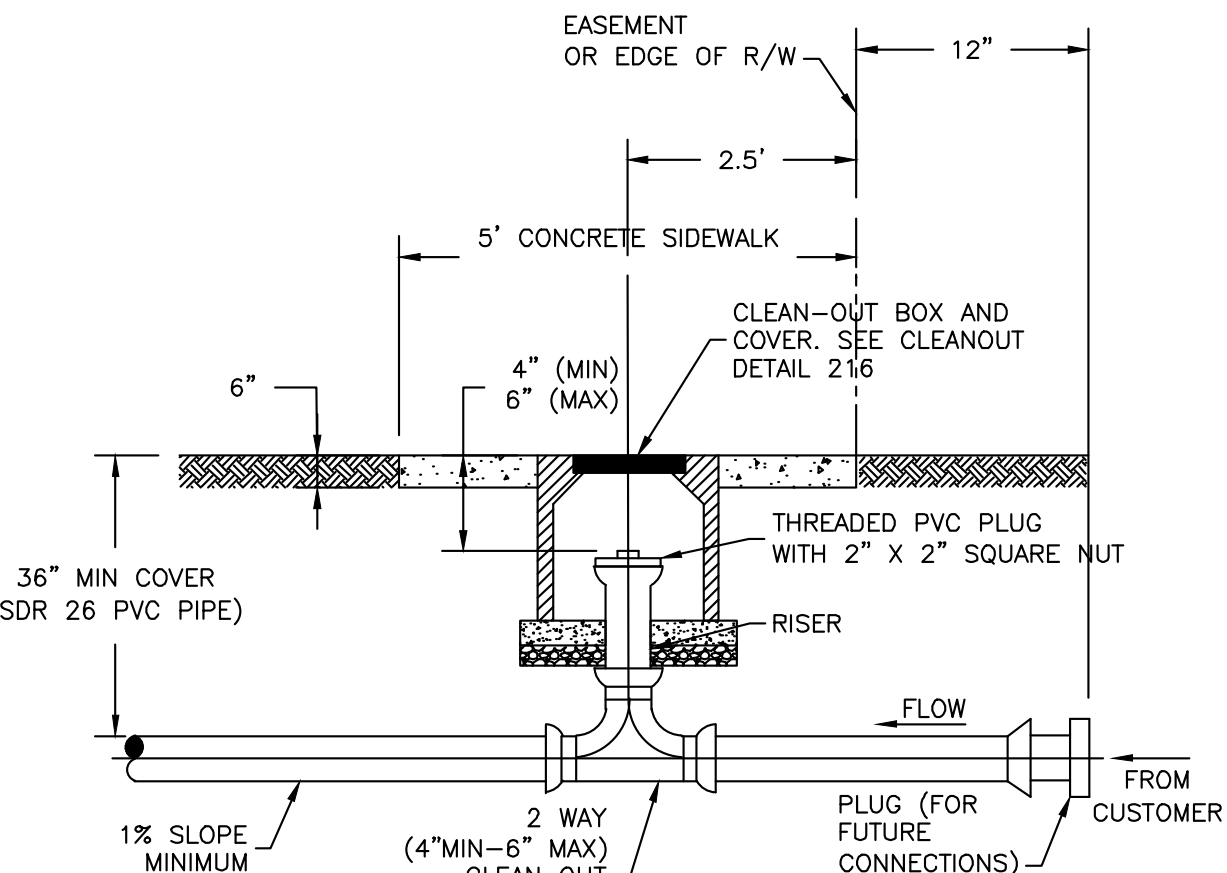
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C-600



- NOTES:

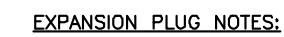
1. PRECAST CONCRETE TYPE II 4000 P.S.I.
2. "RAM-NEK" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH THE WIDTH AT LEAST 1/2 THE WALL THICKNESS).
3. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM. (SEE DETAIL)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

203 STANDARD MANHOLE N.T.S.



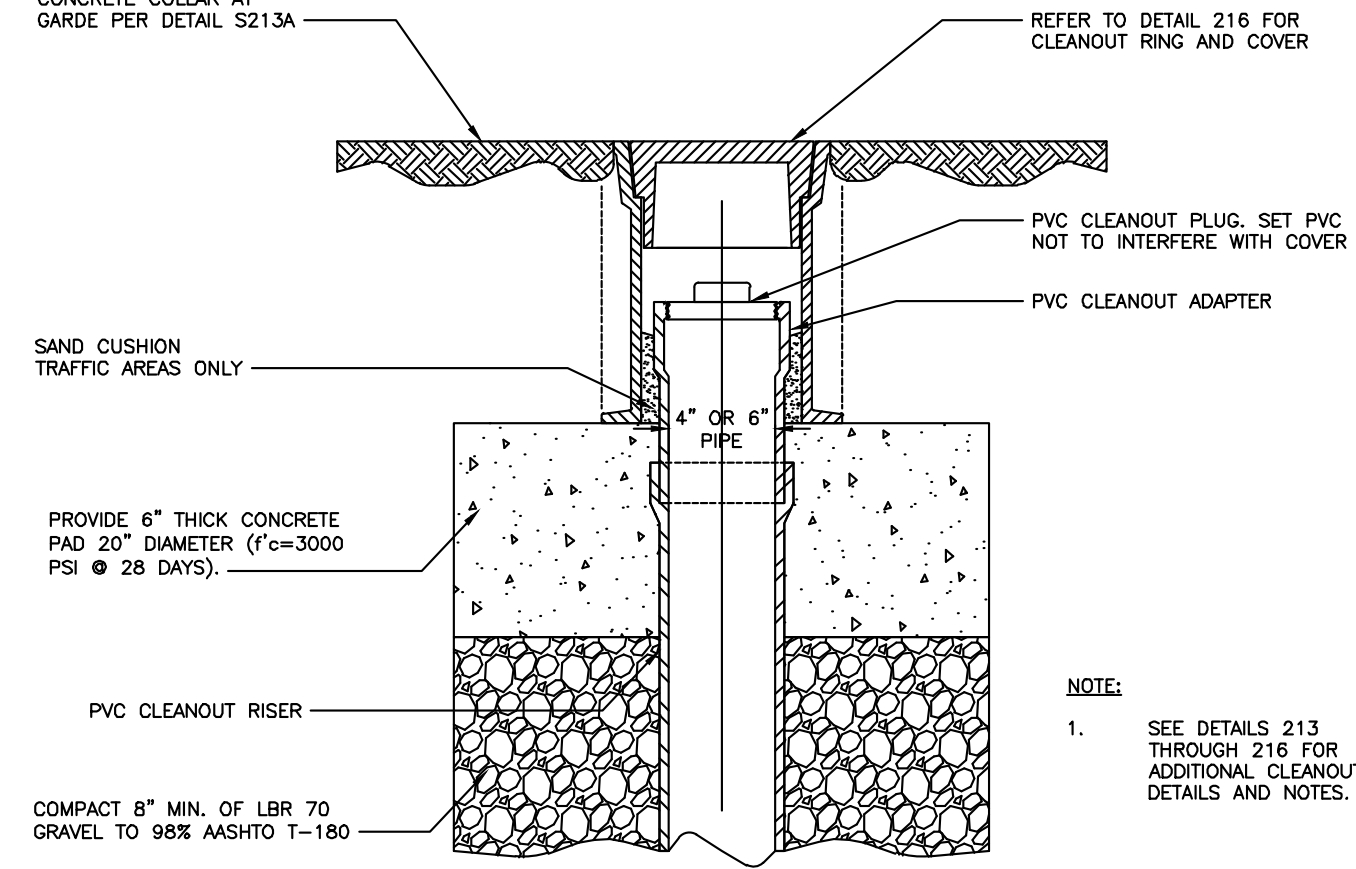
1. THE CLEAN OUT SHALL BE INSTALLED IN THE MIDDLE OF THE SIDEWALK. THIS DIMENSION WILL VARY DEPENDING UPON THE WIDTH OF THE SIDEWALK. 2.5' APPLIES TO 5' SIDEWALK WIDTH. IF SIDEWALKS DO NOT EXIST, THE CLEAN OUT SHALL BE INSTALLED 2.5' FROM THE RIGHT OF WAY LINE.
2. A NEW SECTION OF SIDEWALK SHALL BE POURED AROUND THE CLEAN-OUT BOX WHEN WORKING IN AN AREA WITH EXISTING SIDEWALKS. IF TRENCHLESS METHOD IS USED FOR CLEANOUT INSTALLATION, WHERE A PORTION OF THE CONCRETE SIDEWALK IS REMOVED BY CORE CUTTING, THE CIRCULAR CONCRETE CORE SURROUNDING THE CLEANOUT MAY BE RESTORED WITHOUT REPLACING THE ENTIRE SIDEWALK SLAB, AS LONG AS NO OTHER CRACKS AND/OR DEFECTS EXIST ON THE SLAB. IF CRACKS AND/OR DEFECTS EXIST ON THE SLAB, THE ENTIRE SLAB MUST BE REPLACED.
3. IN UNPAVED AREAS INSTALL 24-INCH-SQUARE OR 24-INCH-DIAMETER CONCRETE COLLAR (3,000 PSI AT 28 DAYS), FORMED UP TO AND AROUND THE CLEAN-OUT BOX AND HAVING A DEPTH OF 6-INCHES. THE COMPLETED CONCRETE COLLAR SHALL BE BROOM-FINISHED AND LEVEL WITH THE CLEAN-OUT BOX COVER AND FINISHED GRADE ELEVATION OF SURROUNDING GRASS, MULCH, GRAVEL, OR OTHER. SLOPE COLLAR FROM CENTER TO EDGE 1/4-INCH PER FOOT .5213A.
4. SEE DETAILS 219 THROUGH 216 FOR ADDITIONAL CLEANOUT DETAILS AND NOTES.

213 SANITARY SERVICE CONNECTION AT
PROPERTY LINE OR EASEMENT LINE
(PROFILE) N.T.S.



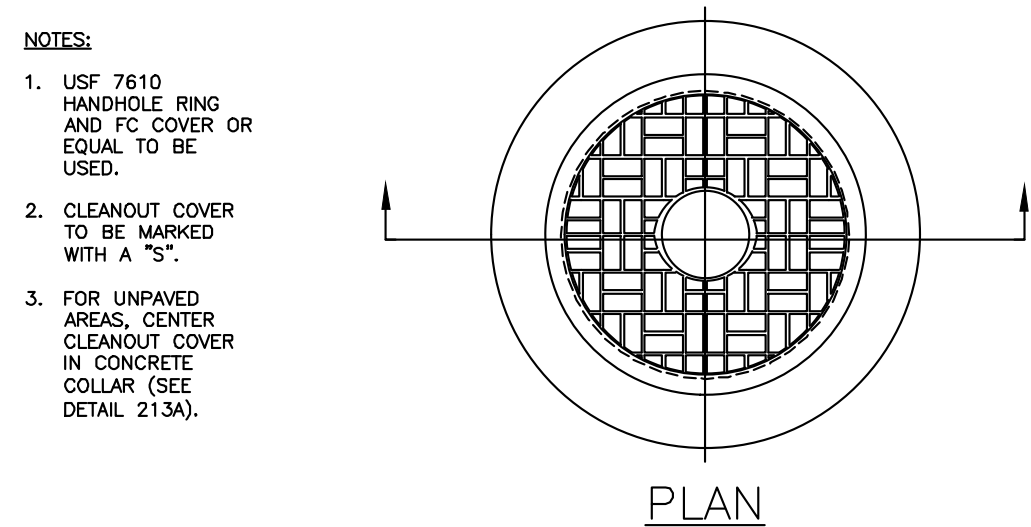
1. EXPANSION PLUG SHALL NOT INTERFERE WITH I.D.
2. PLUG FLANGE SHALL BE LARGER THAN PIPE I.D.
3. THREADED COMPONENTS SHALL BE FLATTENED OR STAKED TO PREVENT DISASSEMBLY.

FOR PAVED AREAS, MATCH
EXISTING PAVING. FOR
UNPAVED AREAS PLACE
CONCRETE COLLAR AT

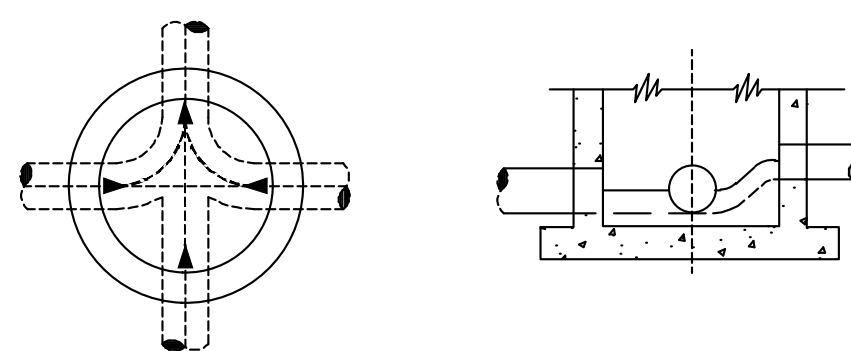


- NOTE:**
1. SEE DETAILS 213 THROUGH 216 FOR ADDITIONAL CLEANUP DETAILS AND NOTES.

CLEAN-OUT COVER ASSEMBLY FOR
4-INCH OR 6-INCH CLEANOUTS
N.T.S.



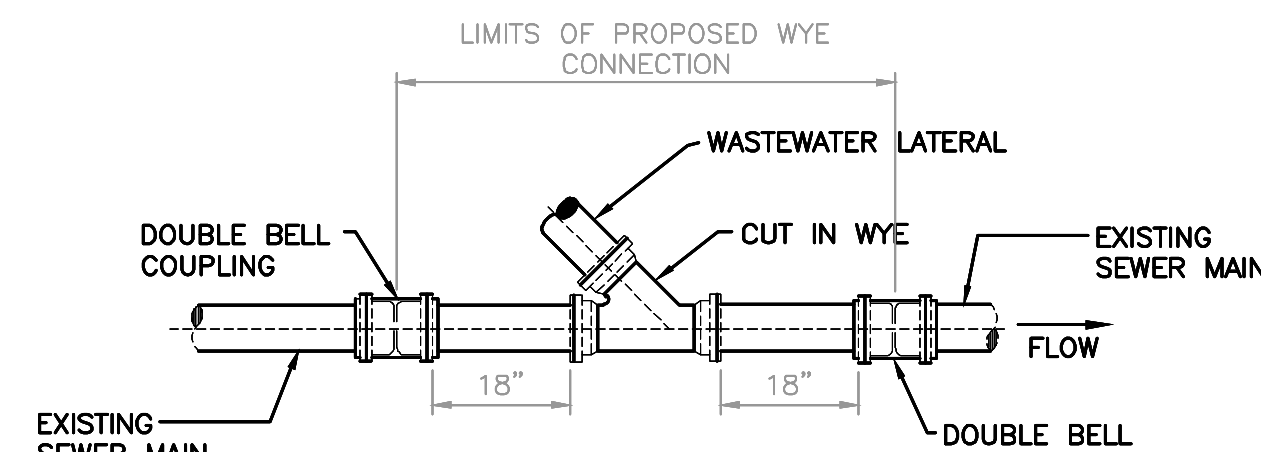
216 CLEANOUT RING AND COVER



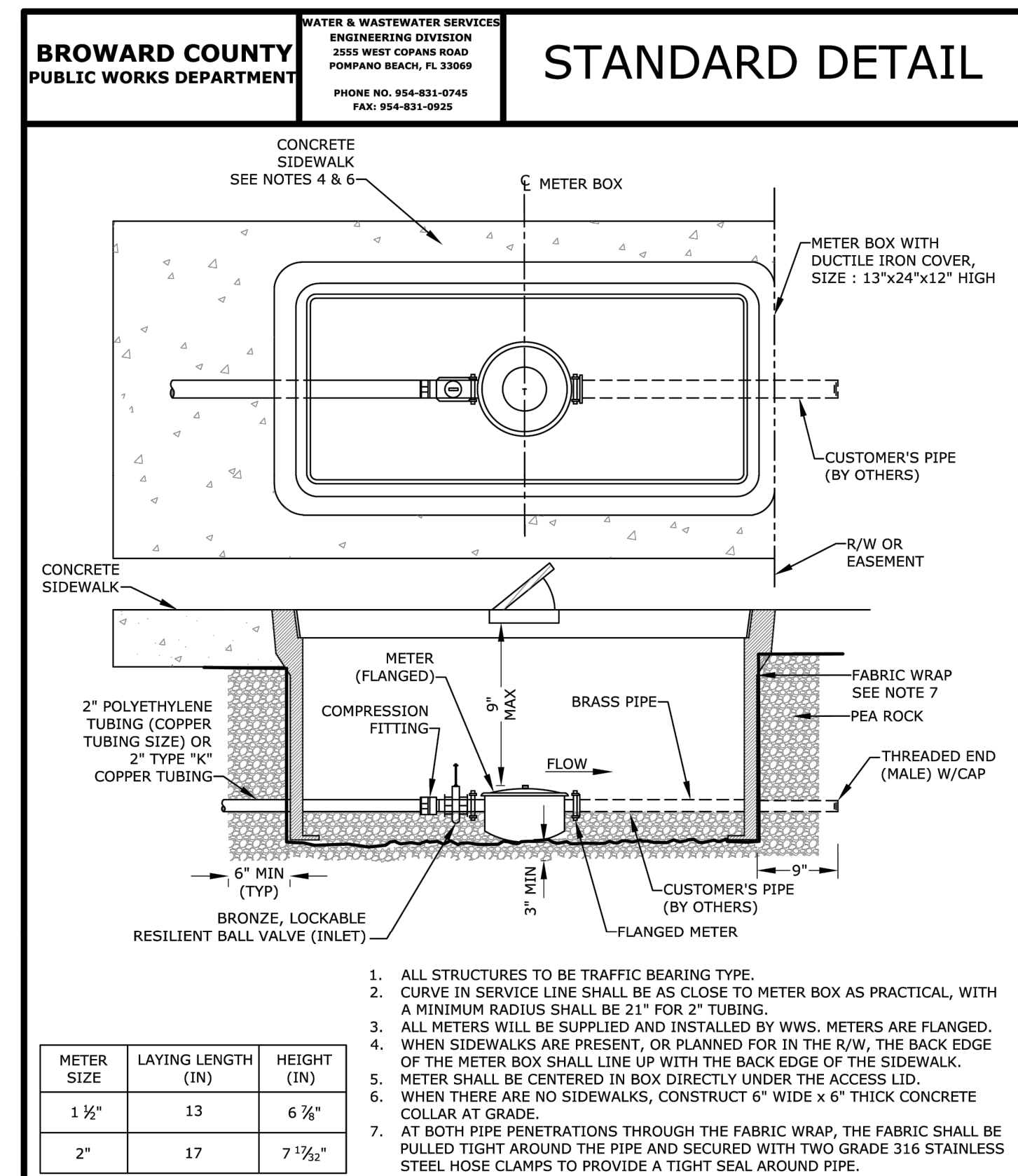
NOTE:

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

202 INVERT FLOW CHANNELS



NEW LATERAL ON EXISTING
GRAVITY WASTEWATER MAIN



METER SIZE	LAYING LENGTH (IN)	HEIGHT (IN)
1 1/2"	13	6 7/8"
2"	17	7 17/32"

REVISED
7/7/2021

WATER METER INSTALLATION FOR 1 1/2" OR 2" METERS

FIGURE
228

Aaron R Mackay
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 University of Canterbury
 Christchurch, New Zealand
 Email: aaron.mackay@canterbury.ac.nz

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PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 35106



KHA PROJECT 040879023	DATE 10/25/2024	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY ARM
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WATER & SEWER DETAILS

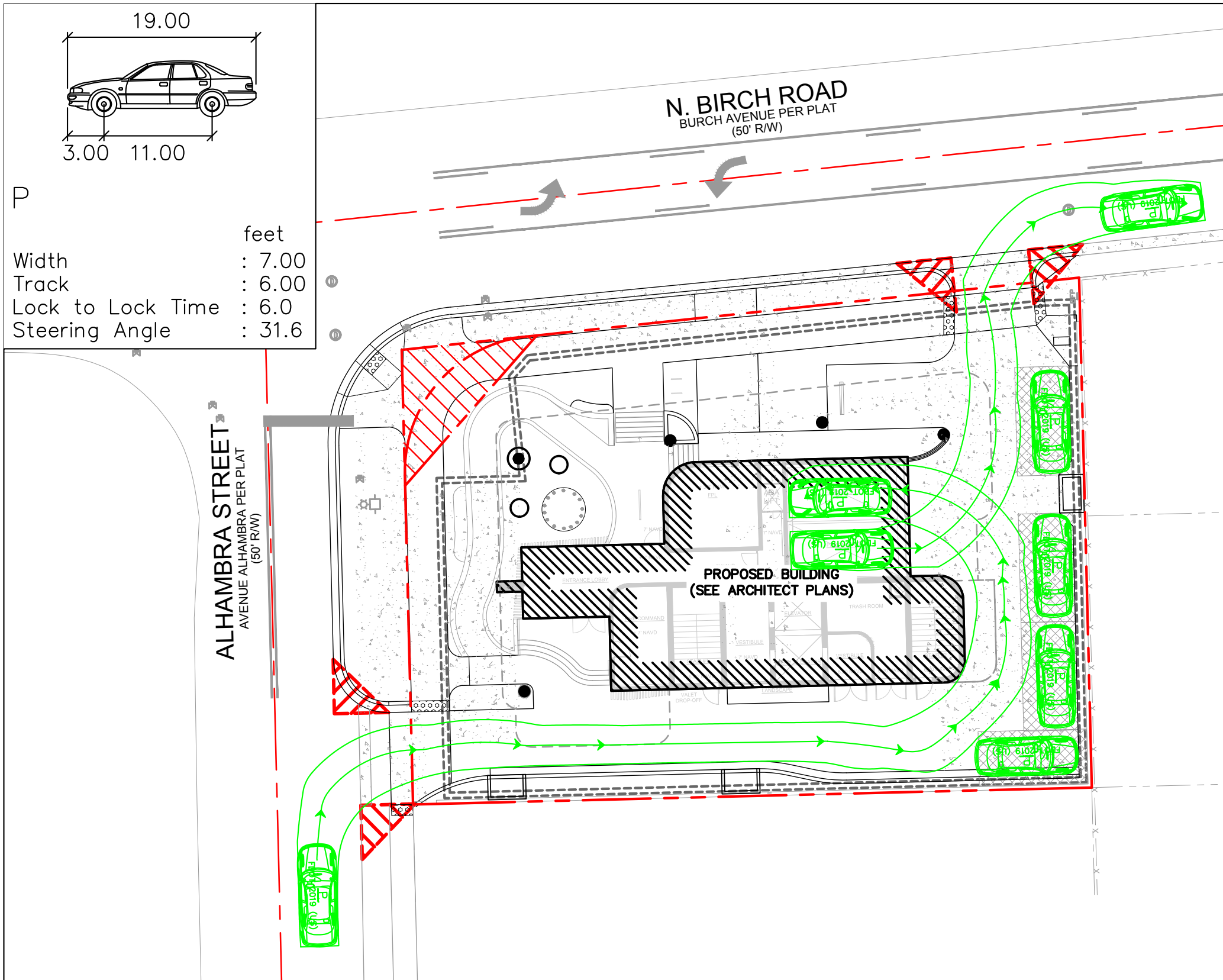
42 HOTEL
PREPARED FOR
ADACHE GROUP
ARCHITECTS, INC

CITY OF FORT LAUDERDALE
FLORIDA

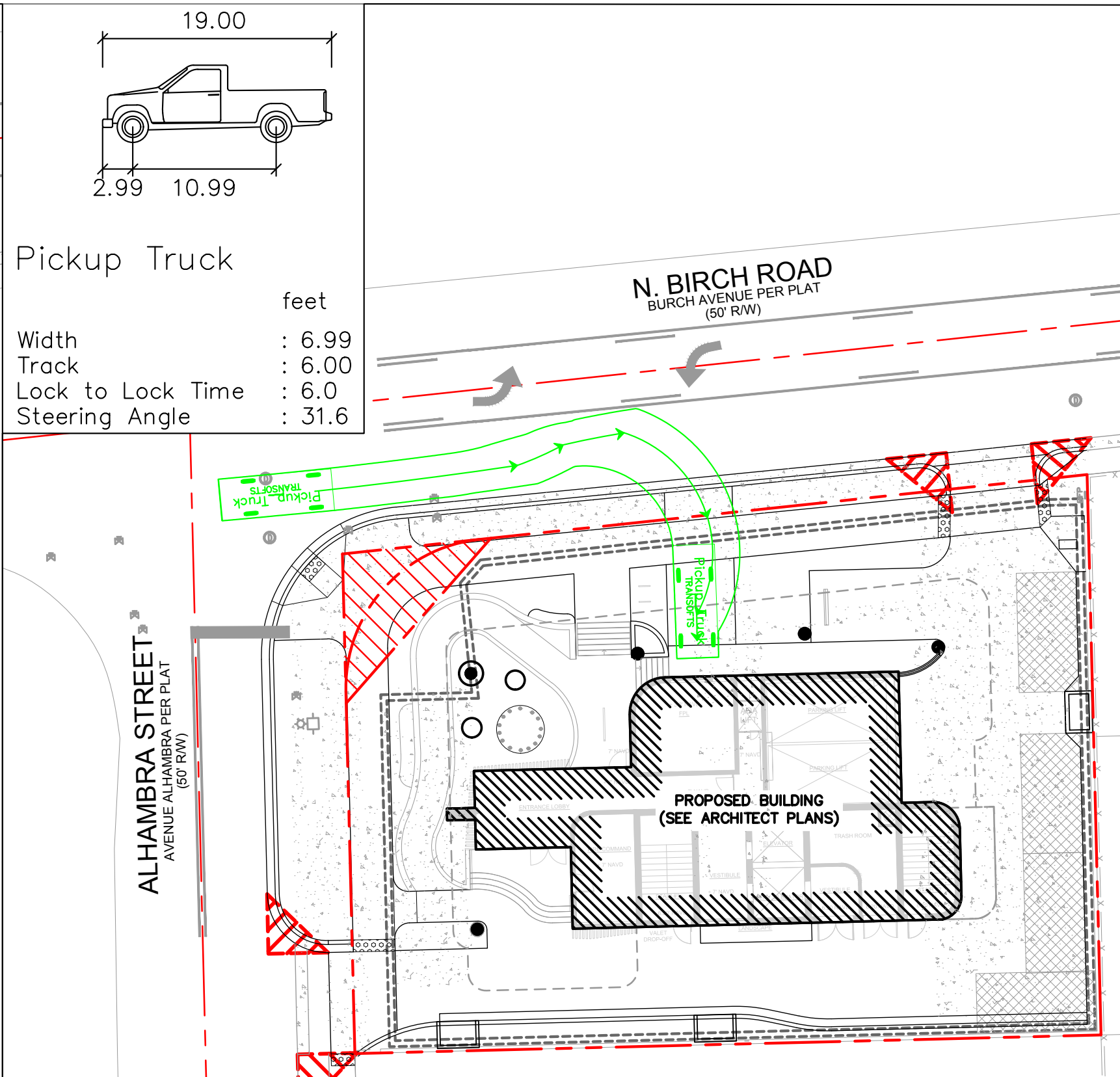
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C-603

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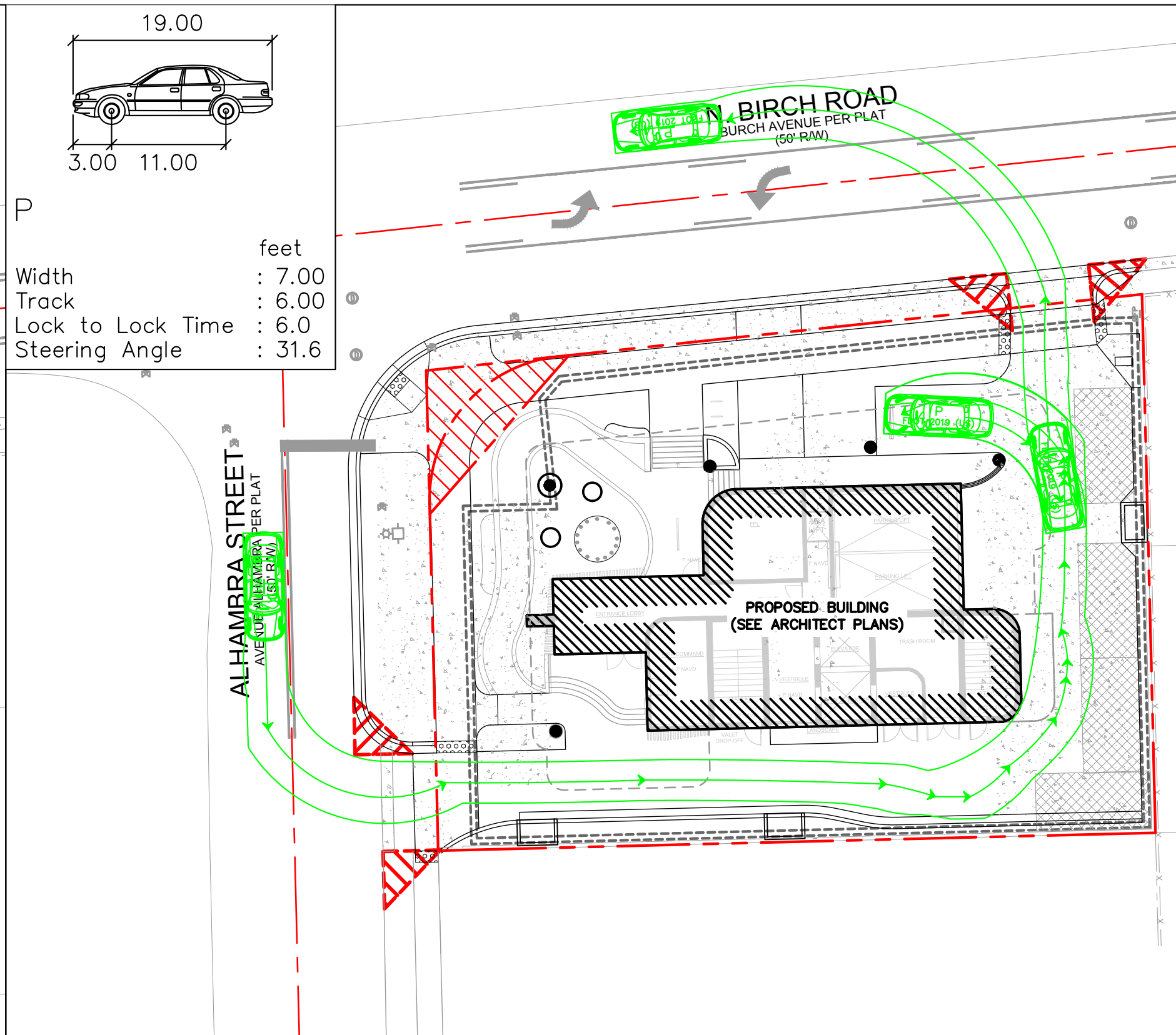
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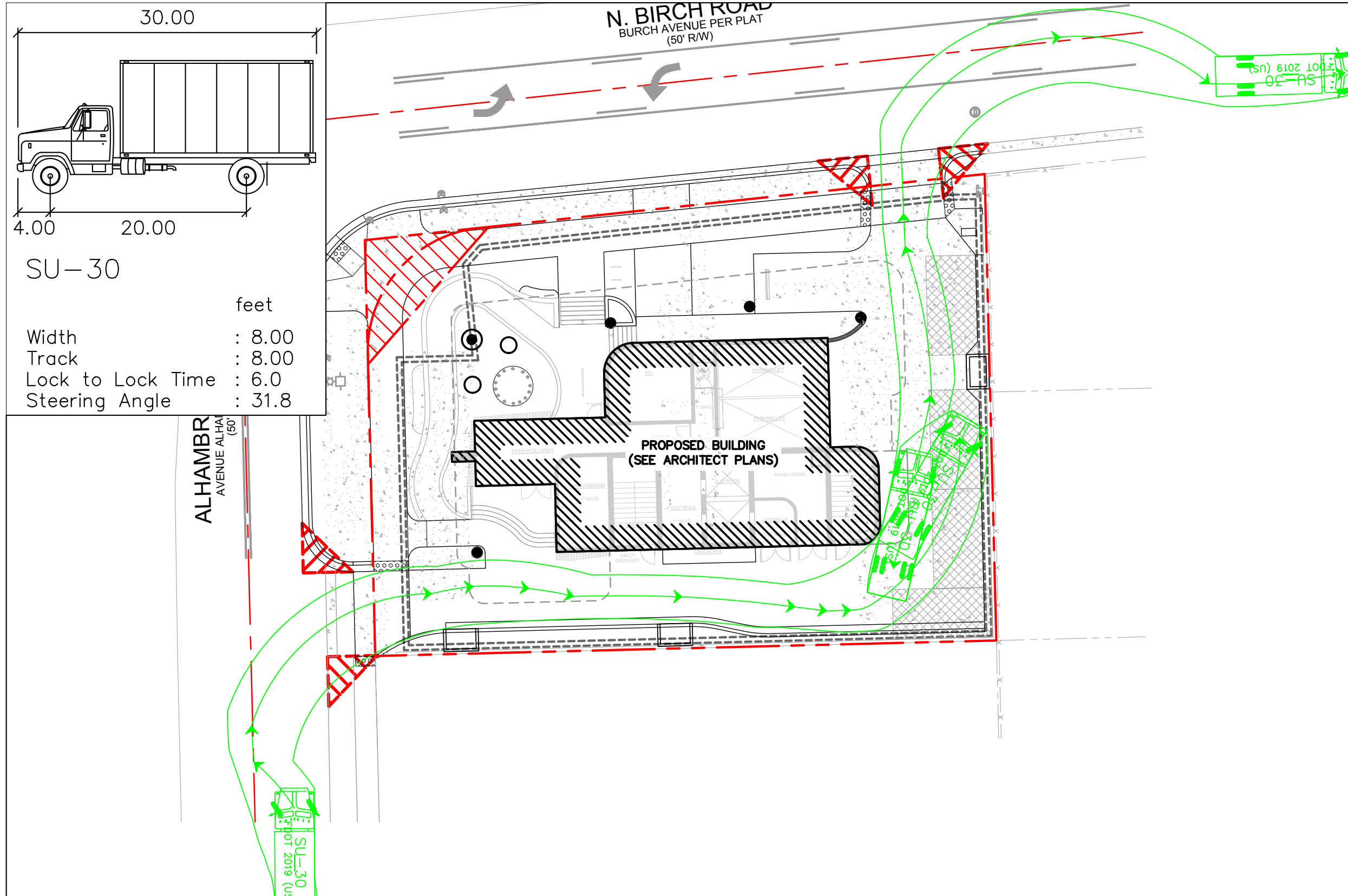
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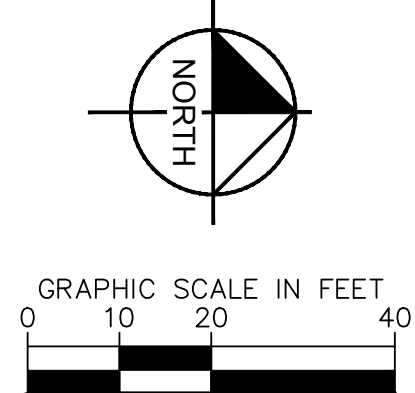
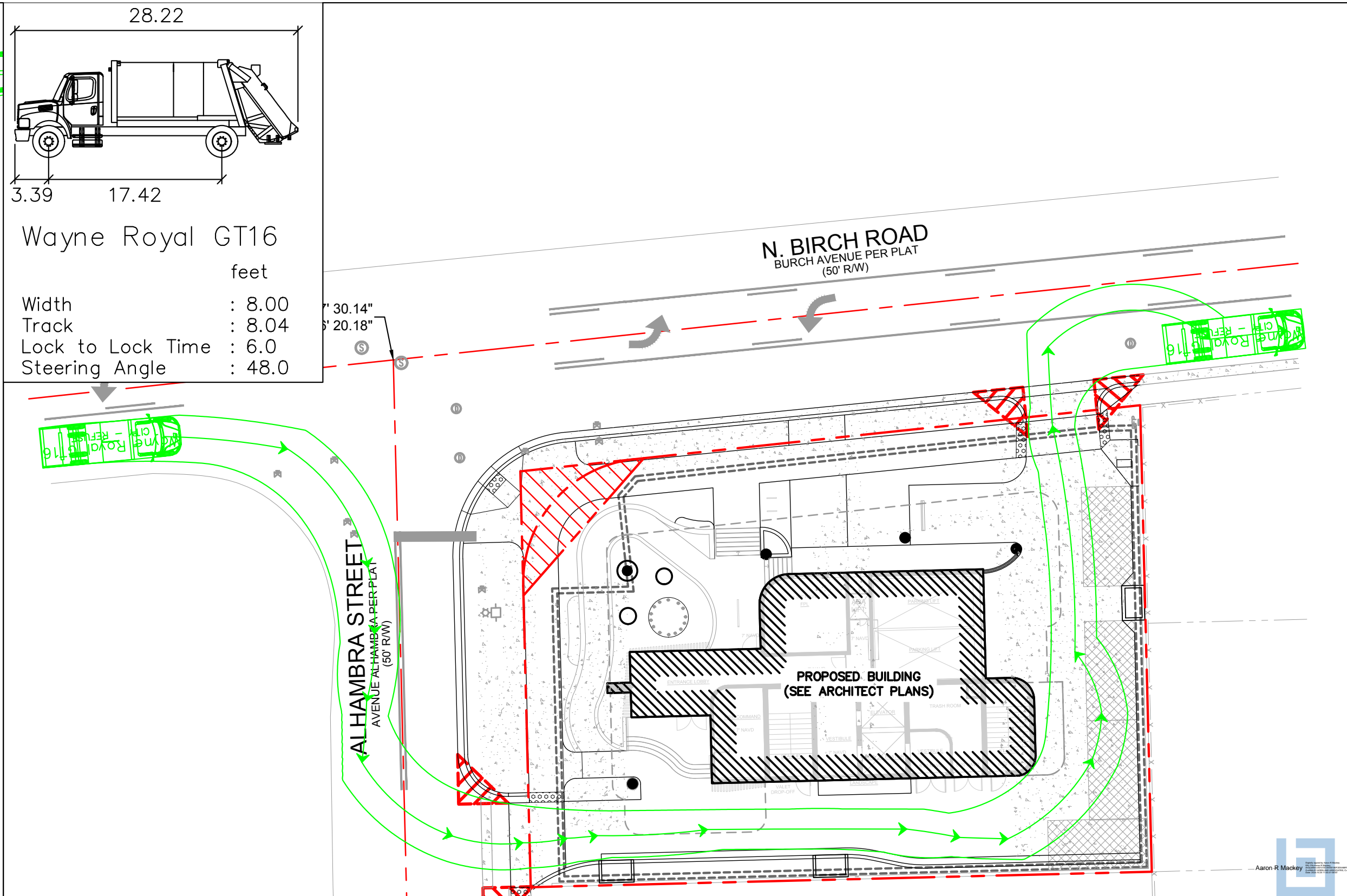
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DELIVERY TRUCK ACCESS ON-SITE

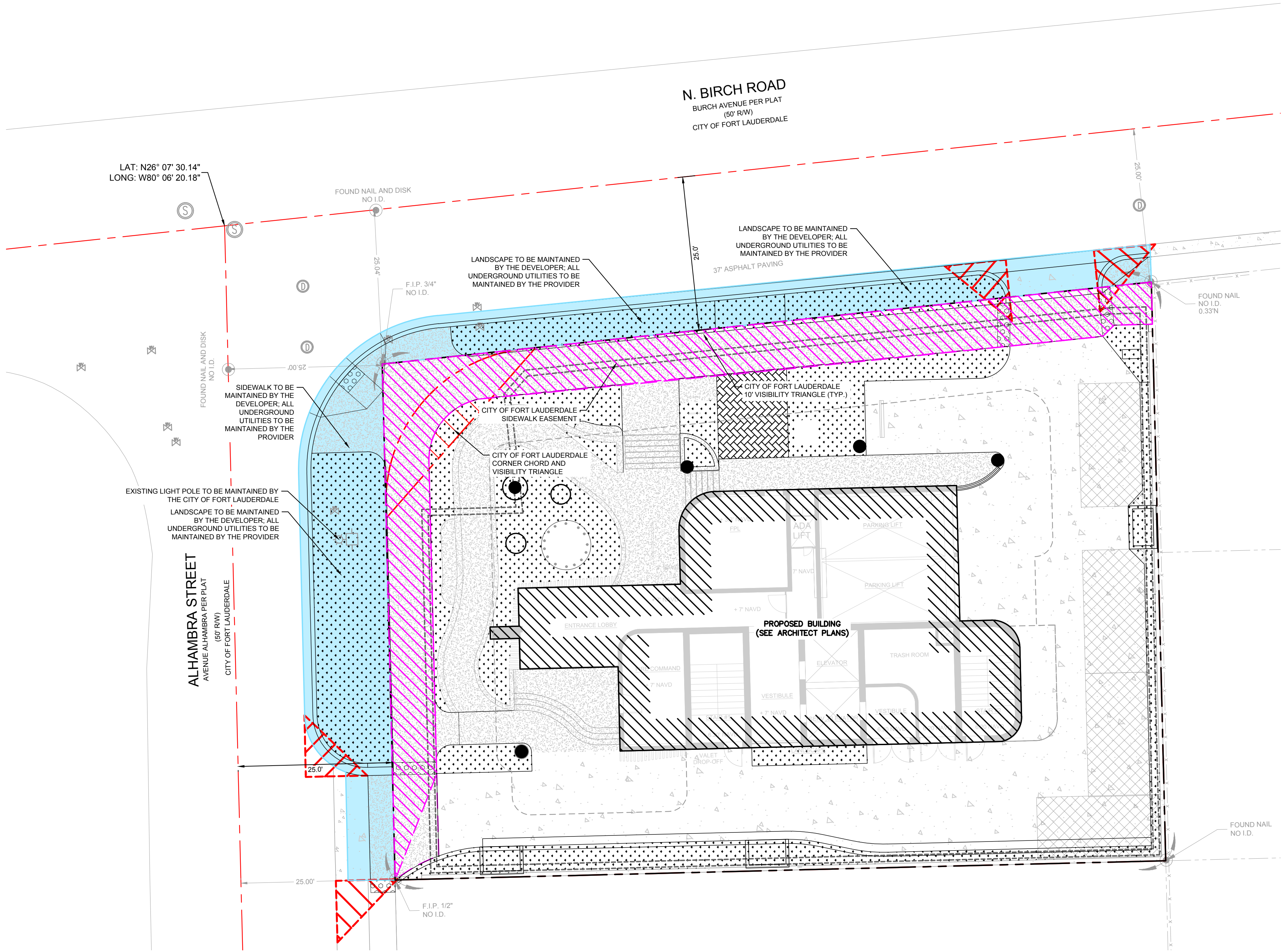


GARBAGE TRUCK ACCESS ON-SITE




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KHA PROJECT 040879023	KHA DATE 10/25/2024
KHA SCALE AS SHOWN	KHA DESIGNED BY KHA
KHA DRAWN BY KHA	KHA CHECKED BY ARM
MANEUVERABILITY EXHIBIT	
42 HOTEL PREPARED FOR ADACHE GROUP ARCHITECTS, INC CITY OF FORT LAUDERDALE FLORIDA	
SHEET NUMBER C-700	
REVISIONS No. DATE BY	
3 ISSUED FOR DRC 10/25/2024 KHA	
2 ISSUED FOR DRC 08/07/2024 KHA	
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1 ISSUED FOR DRC 06/23/2023 KHA	

Plotted By: Gascich, Stephen Sheet Set: 42-HOTEL Layout: EXH-1 Date: 11/20/2024 11:20:24 AM 2:17 PM Civil/040 Job: 040879023 M-Use 301 Alhambra S:\Design\CADD\Exhibits\Maintenance Area Exhibit\42-Hotel - Maintenance Area Exhibit.dwg
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Professional Engineer
No. 93208
State of Florida

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