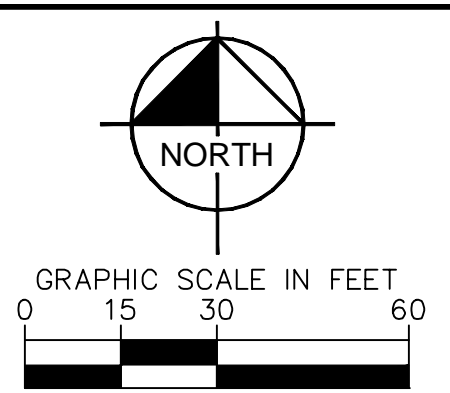
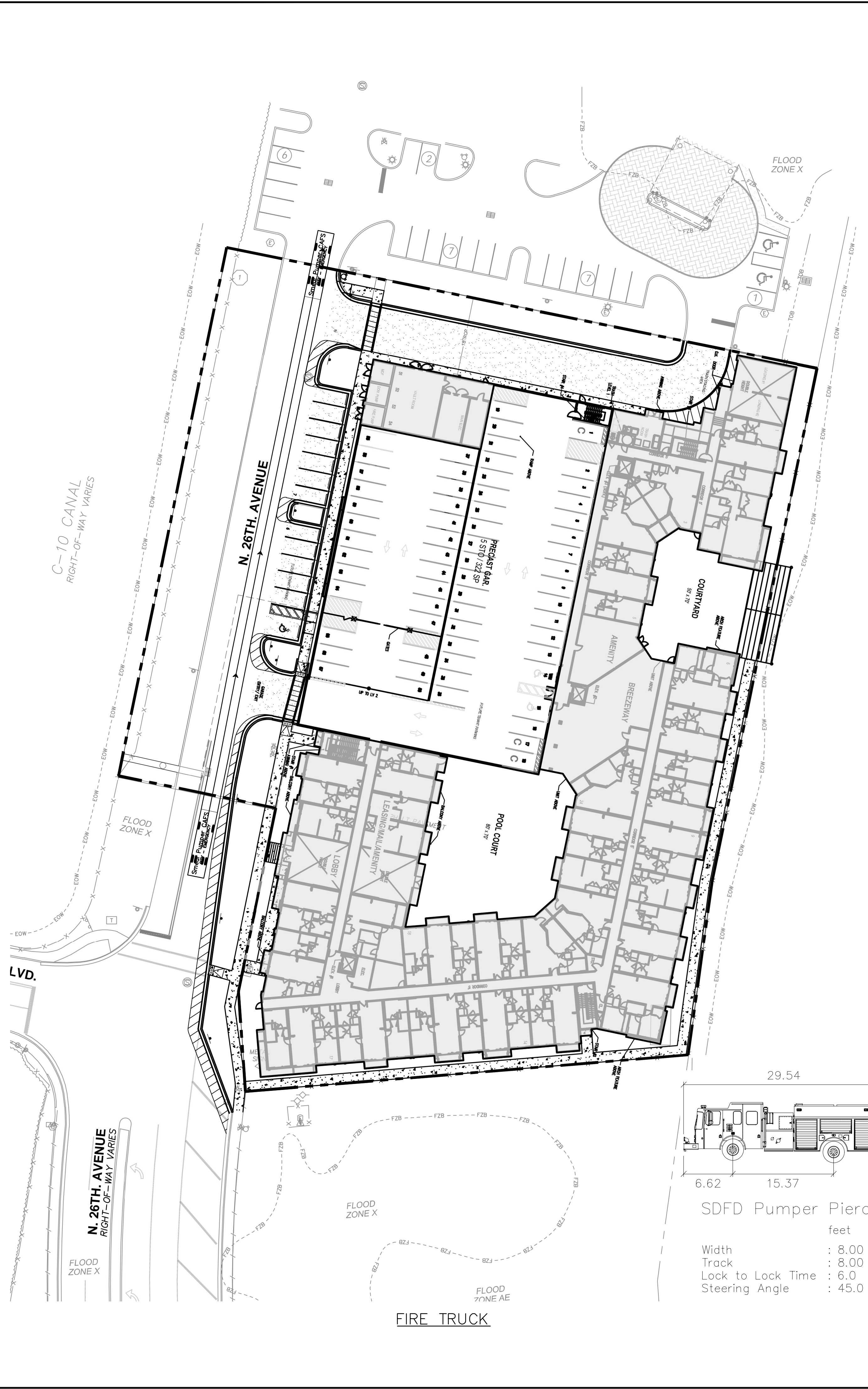


Plotted By: Blschoff, Samantha - Sheet: Oakwood East Multi Family Project - Vehicle Turn Plan - September 14, 2024 - 05:15:33pm - K:\VRB_LDEV\147507129 - Oakwood East Towers\CAD\PlanSheets\C-203_VEHICLE TURN PLAN.dwg
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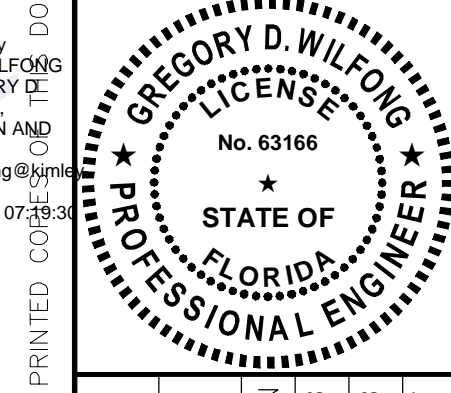


No.	REVISIONS	DATE	BY

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9/16/24

GREGORY D. WILFONG
 P.E.
 No. 63166
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER



KHA PROJECT	147507129
DATE	09/13/24
SCALE	AS SHOWN
DESIGNED BY	SHB
DRAWN BY	SHB
CHECKED BY	GDW

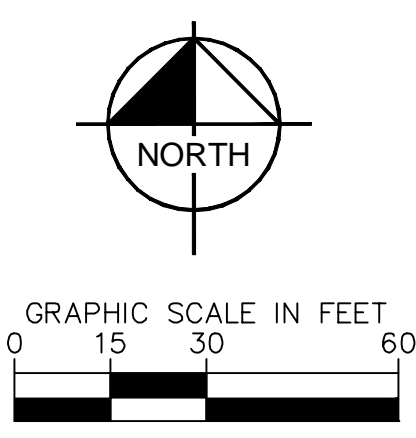
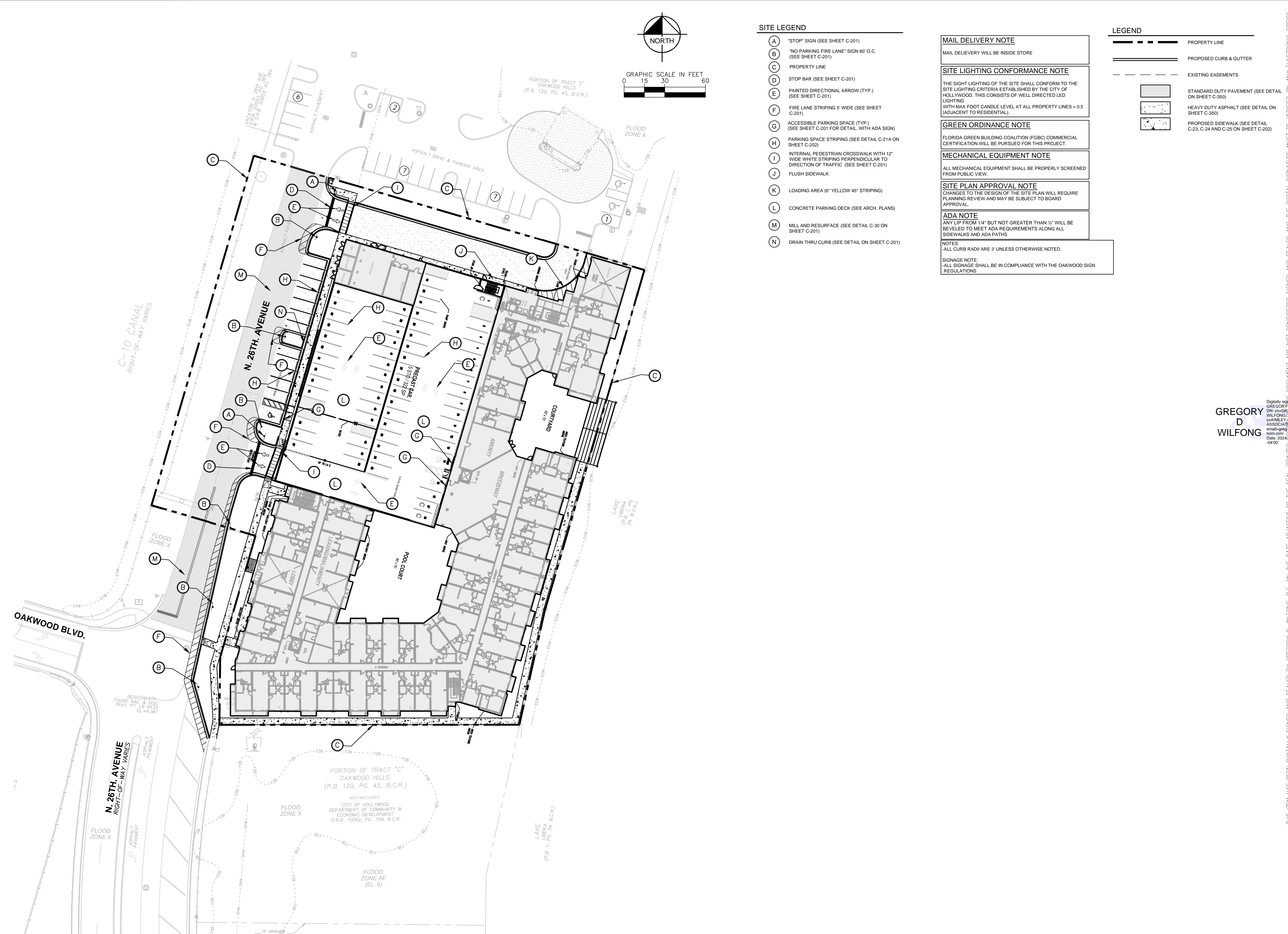
VEHICLE TURN PLAN

OAKWOOD EAST MULTI FAMILY PROJECT
 CITY OF HOLLYWOOD FLORIDA

SHEET NUMBER
C-204

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SITE LEGEND

- (A) *STOP* SIGN (SEE SHEET C-201)
- (B) "NO PARKING FIRE LANE" SIGN 60" O.C. (SEE SHEET C-201)
- (C) PROPERTY LINE
- (D) STOP BAR (SEE SHEET C-201)
- (E) PAINTED DIRECTIONAL ARROW (TYP.) (SEE SHEET C-201)
- (F) FIRE LANE STRIPING 5' WIDE (SEE SHEET C-201)
- (G) ACCESSIBLE PARKING SPACE (TYP.) (SEE SHEET C-201 FOR DETAIL WITH ADA SIGN)
- (H) PARKING SPACE STRIPING (SEE DETAIL C-21A ON SHEET C-202)
- (I) INTERNAL PEDESTRIAN CROSSWALK WITH 12" WIDE WHITE STRIPING PERPENDICULAR TO DIRECTION OF TRAFFIC (SEE SHEET C-201)
- (J) FLUSH SIDEWALK
- (K) LOADING AREA (6" YELLOW 45° STRIPING)
- (L) CONCRETE PARKING DECK (SEE ARCH. PLANS)
- (M) MILL AND RESURFACE (SEE DETAIL C-30 ON SHEET C-201)
- (N) DRAIN THRU CURB (SEE DETAIL ON SHEET C-201)

MAIL DELIVERY NOTE

MAIL DELIVERY WILL BE INSIDE STORE

SITE LIGHTING CONFORMANCE NOTE

THE SIGHT LIGHTING OF THE SITE SHALL CONFORM TO THE SITE LIGHTING CRITERIA ESTABLISHED BY THE CITY OF HOLLYWOOD. THIS CONSISTS OF WELL DIRECTED LED LIGHTING WITH MAX FOOT CANDLE LEVEL AT ALL PROPERTY LINES = 0.5 (ADJACENT TO RESIDENTIAL).

GREEN ORDINANCE NOTE

FLORIDA GREEN BUILDING COALITION (FGBC) COMMERCIAL CERTIFICATION WILL BE PURSUED FOR THIS PROJECT.

MECHANICAL EQUIPMENT NOTE

ALL MECHANICAL EQUIPMENT SHALL BE PROPERLY SCREENED FROM PUBLIC VIEW.

SITE PLAN APPROVAL NOTE

CHANGES TO THE DESIGN OF THE SITE PLAN WILL REQUIRE PLANNING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL.

ADA NOTE

ANY LIP FROM 1/4" BUT NOT GREATER THAN 1/2" WILL BE BEVELED TO MEET ADA REQUIREMENTS ALONG ALL SIDEWALKS AND ADA PATHS

NOTES:
-ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.

SIGNAGE NOTE:
-ALL SIGNAGE SHALL BE IN COMPLIANCE WITH THE OAKWOOD SIGN REGULATIONS

LEGEND

- PROPERTY LINE
- ==== PROPOSED CURB & GUTTER
- - - - EXISTING EASEMENTS
- Standard Pavement Pattern: STANDARD DUTY PAVEMENT (SEE DETAIL ON SHEET C-350)
- Heavy Duty Pavement Pattern: HEAVY DUTY ASPHALT (SEE DETAIL ON SHEET C-350)
- Proposed Sidewalk Pattern: PROPOSED SIDEWALK (SEE DETAIL C-23, C-24 AND C-25 ON SHEET C-202)

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**OAKWOOD EAST
MULTI FAMILY
PROJECT**

CITY OF HOLLYWOOD
FLORIDA

SHEET NUMBER
C-205

**PAVEMENT MARKING
AND SIGNAGE PLAN**

DATE: 09/13/24
SCALE: AS SHOWN
DESIGNED BY: SHB
DRAWN BY: SHB
CHECKED BY: GDW

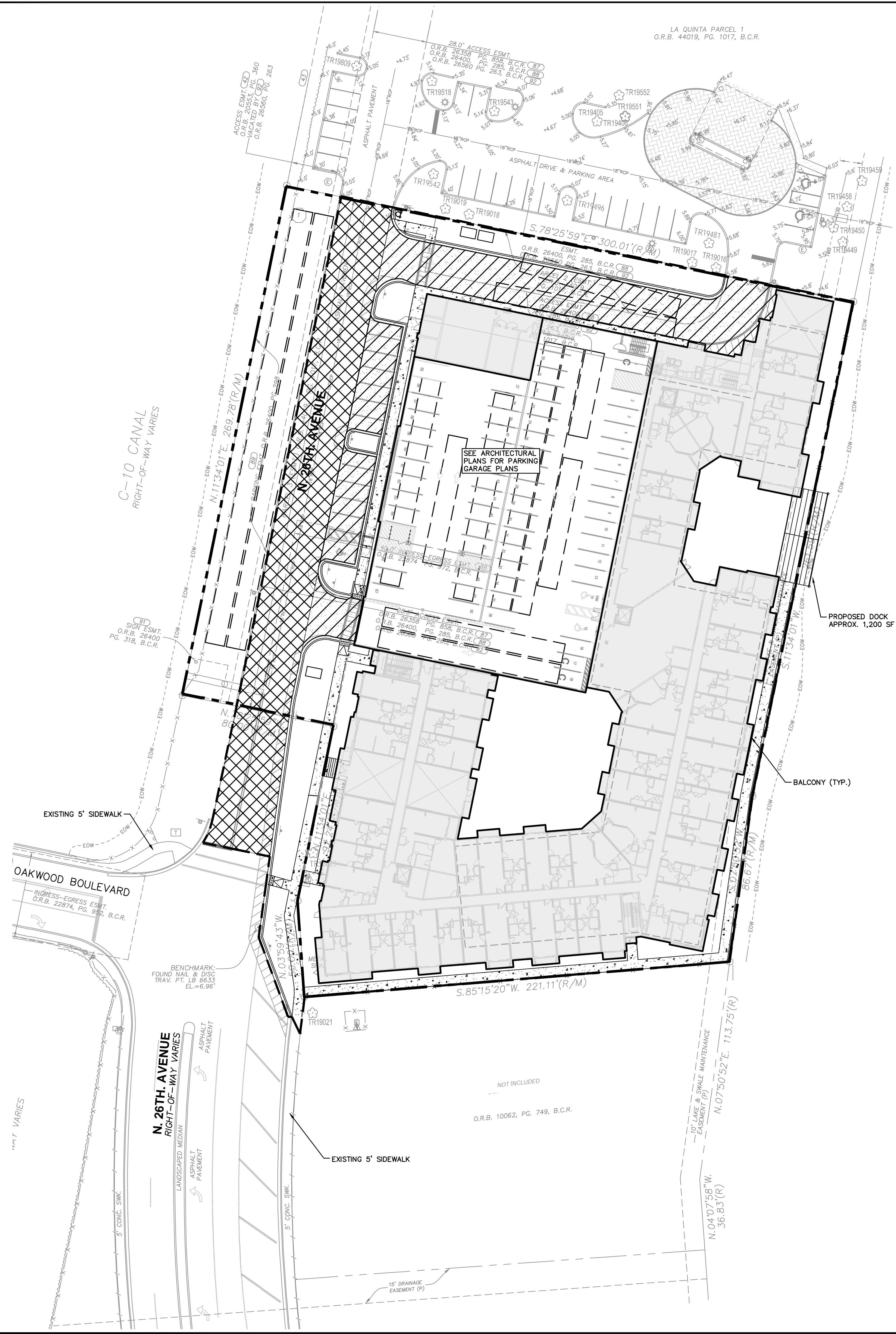
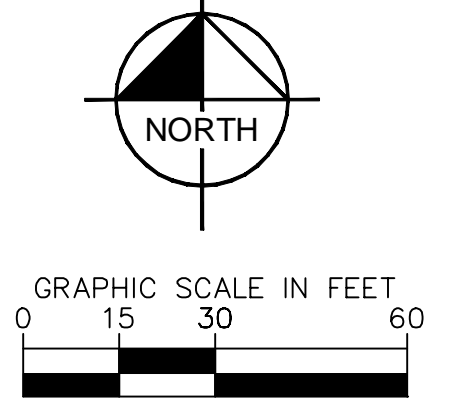
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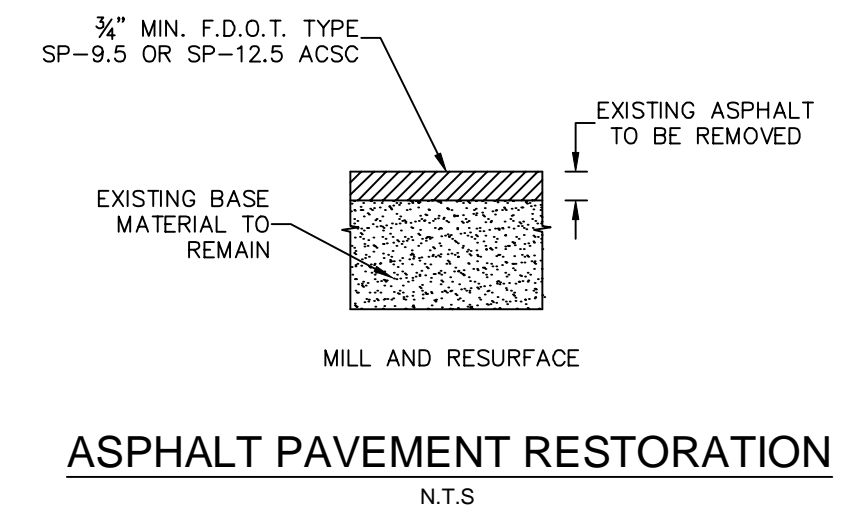
No.	REVISIONS	DATE

Prepared By: B. B. B. Street 541 OAKWOOD EAST MULTI FAMILY PROJECT Layout C-206 PAVEMENT DELINEATION PLAN - September 14, 2024 - 05:16:15pm - K:\VRB\LEDA\147507129 - Oakwood East Towers\CAD\Drawings\C-206 PAVEMENT DELINEATION PLAN.dwg
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LA QUINTA PARCEL 1
O.R.B. 44019, PG. 1017, B.C.R.



- ### LEGEND
- HEAVY DUTY ASPHALT (SEE SHEET C-350 FOR DETAIL)
 - MILLED AND RESURFACED (SEE SHEET C-201 FOR DETAIL)
 - STANDARD CONCRETE (SEE SHEET C-202 FOR DETAIL)
 - LIMITS OF PAVEMENT WORK



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9/14/24
GREGORY D. WILFONG
No. 63166
STATE OF FLORIDA
PROFESSIONAL ENGINEER

KHA PROJECT	CDW
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DATE	
9/14/24	
SCALE	
AS SHOWN	
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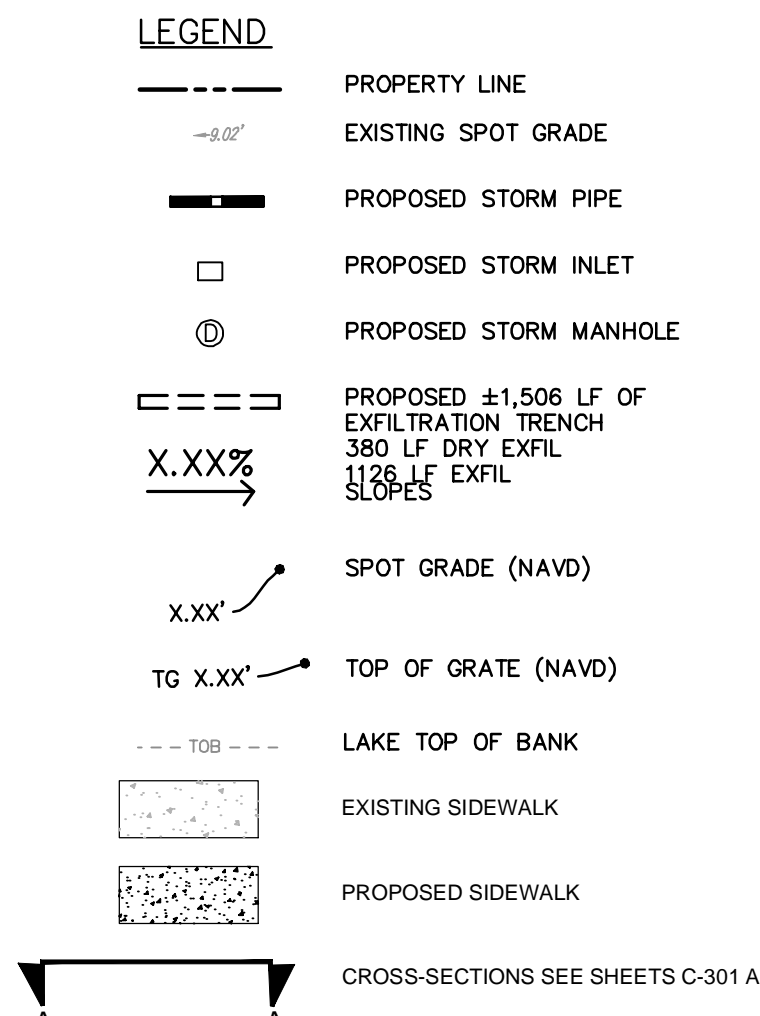
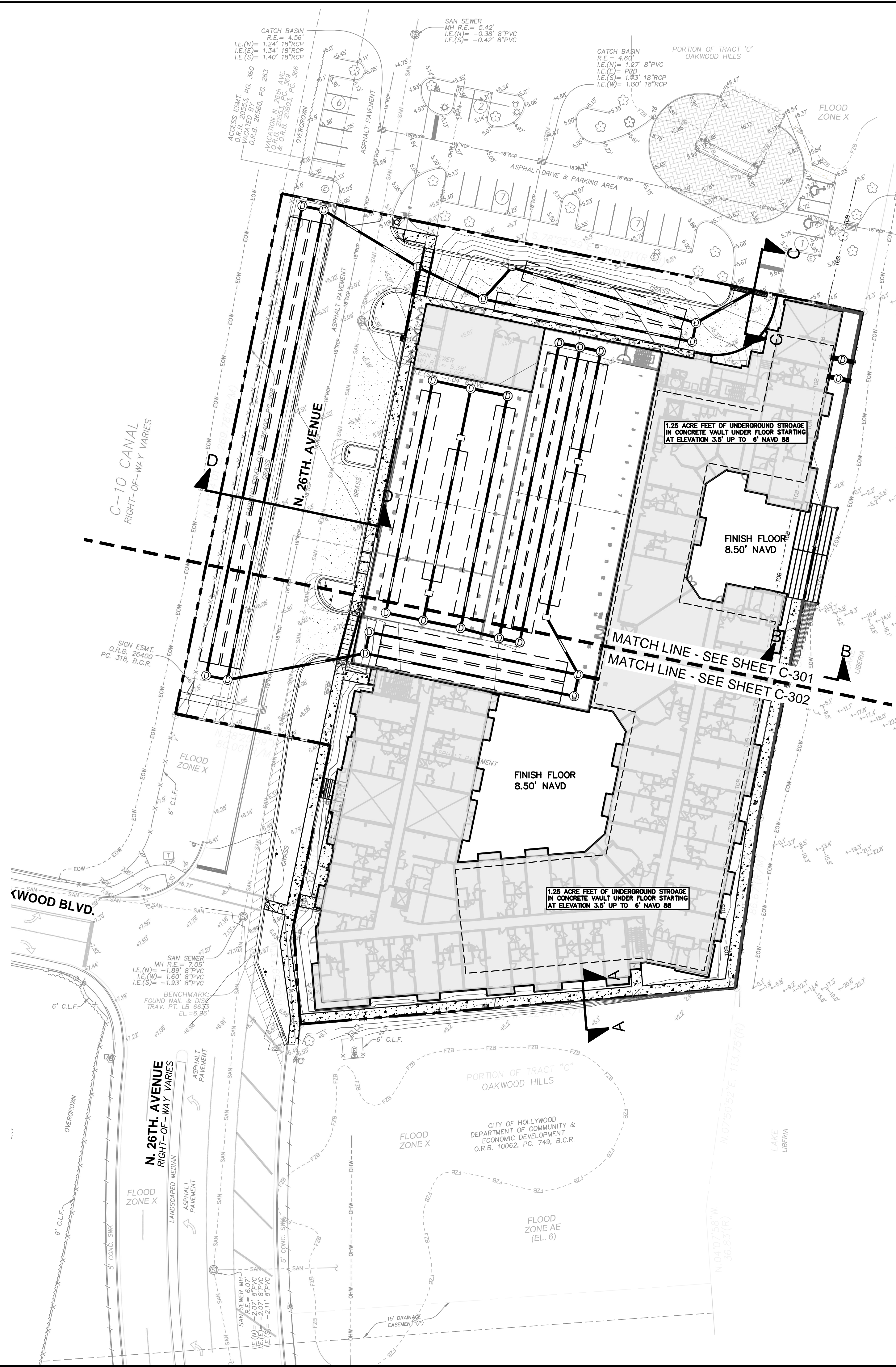
PAVEMENT DELINEATION PLAN

OAKWOOD EAST MULTI FAMILY PROJECT
CITY OF HOLLYWOOD FLORIDA

SHEET NUMBER
C-206

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Plotted By: Biscotto, Samantha - Sheet: Oakwood East Multi-Family Project - Layout: C-300 - September 14, 2024 - 05:16:49pm - k:\VRB_LDEVX\147507129 - Oakwood East Multi-Family Project - PAVING, GRADING AND DRAINAGE PLAN, DWG. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



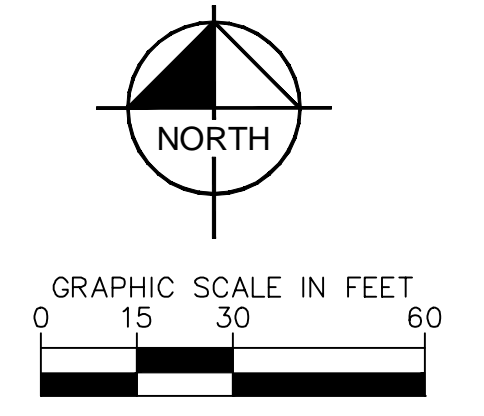
ADA NOTE
ANY LIP FROM 1/4" BUT NOT GREATER THAN 1/2" WILL BE BEVELED TO MEET ADA REQUIREMENTS ALONG ALL SIDEWALKS AND ADA PATHS

MATERIAL NOTES:
CONCRETE:
CONCRETE DRIVEWAYS ON PRIVATE PROPERTY WILL BE 5-INCH THICK, 3,000 PSI WITH FIBER MESH WHILE THE PORTION OF THE DRIVEWAY LOCATED WITHIN THE ROW (OUTSIDE OF THE PROPERTY LINES) WILL BE A MINIMUM OF 6 INCHES THICK, 3,000 PSI, WITH NO METAL OR FIBER MESH AND WILL BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND SIDEWALK. THE ENTIRE DRIVEWAY WILL MAINTAIN CONTROL JOINTS LOCATED EVERY 250 SQ.FT. AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.
PAVERS:
PAVER DRIVEWAYS REQUIRE A MINIMUM 2 3/8TH INCH PAVERS PLACED OVER A 1-1/2 INCH SAND BASE AND COMPACTED SUBBASE. IN ADDITION TO A MINIMUM 6-INCH EDGE RESTRAINT (CONCRETE BORDER) IS REQUIRED AROUND PERIMETER TO INTERLOCK PAVERS. THE DRIVEWAY IS TO BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.
ASPHALT:
ASPHALT DRIVEWAY IS REQUIRED TO BE A MINIMUM 6-INCH LIMEROCK BASE, TACK COAT, AND 1-INCH LAYER OF S-III ASPHALT. THE DRIVEWAY IS TO BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.

DRAINAGE INFORMATION:
THE PROPOSED DRAINAGE SYSTEM FOR THE BUILDING IS AS FOLLOWS:
ROOF DRAINS WILL TIE DIRECTLY INTO THE UNDERGROUND CONCRETE STORAGE VAULT UNDER THE BUILDING FLOOR.
THE EXFILTRATION TRENCH WILL TREAT THE WATER THEN IT WILL GO BACK THROUGH THE BUILDING AND DISCHARGE INTO THE EXISTING LAKE.
THE EXACT SYSTEM DRAINAGE UNDERNEATH THE BUILDING WILL BE DESIGNED AS PART OF THE STRUCTURAL FOUNDATION SYSTEM BUT WILL HAVE A MINIMUM OF 1.25 ACRE-FEET OF STORAGE BASED ON THE CALCULATIONS.

PAVING, GRADING AND DRAINAGE NOTES:

- 1. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- 2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 3. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- 4. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 5. ALL MATERIALS AND CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST DESIGN STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR THE AUTHORITY HAVING JURISDICTION.
- 6. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 7. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
- 8. EXISTING DRAINAGE PIPES AND INLETS TO BE JET CLEANED AND VACUUMED TO REMOVE ALL SILT AND DEBRIS. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- 9. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION, IF APPLICABLE.
- 10. ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT, IF APPLICABLE.
- 11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER", IF APPLICABLE.
- 12. ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES, IF APPLICABLE.
- 13. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM Poured MORTAR INVERT FROM INVERT IN TO INVERT OUT, IF APPLICABLE.
- 14. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- 15. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 16. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- 17. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- 18. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- 19. CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A MINIMUM OF 30" OR AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED (WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 4" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
- 20. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 21. ALL CUT OR FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED.
- 22. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- 23. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- 24. LANDSCAPE ISLANDS IN PARKING AREA TO BE BERMED MINIMUM OF 6" ABOVE BACK OF CURB ELEVATION. SEE LANDSCAPE PLAN FOR TREE REMOVAL AND PLANTING.
- 25. ADA RAMPS SHALL NOT EXCEED 6' IN LENGTH AND 6" IN RISE (8.33% SLOPE MAX).
- 26. CONTRACTOR TO FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES AND IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS WITH SIGNAGE FOUNDATIONS.
- 27. ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
- 28. ELEVATIONS ARE BASED ON NAVD83 DATUM DETERMINED BY GPS OBSERVATIONS, PROVIDED BY SURVEYOR.
- 29. TYPE C INLETS TO BE MODIFIED FOR H-20 TRAFFIC RATING.
- 30. FDOT DITCH BOTTOM INLETS TO BE MODIFIED FOR H-20 TRAFFIC RATING.



No.	REVISIONS	DATE

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PHONE: 772-794-4100
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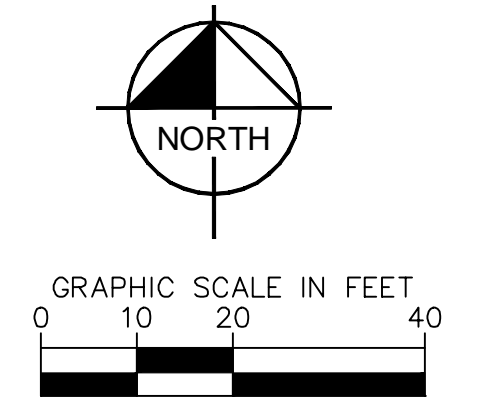
9/14/24
GREGORY D. WILFONG
Professional Engineer
No. 63166
STATE OF FLORIDA
Digitally signed by Gregory D. Wilfong
DN: cn=GREGORY D. WILFONG, o=KIMLEY-HORN AND ASSOCIATES, INC., email=gwilfong@kimleyhorn.com, c=US
Date: 2024.09.14 09:54:07

KHA PROJECT	147507129
DATE	9/14/24
SCALE	AS SHOWN
DESIGNED BY	SHB
DRAWN BY	SHB
CHECKED BY	GDW

**OAKWOOD EAST
MULTI FAMILY
PROJECT**
FLORIDA
OVERALL PAVING,
GRADING AND
DRAINAGE PLAN

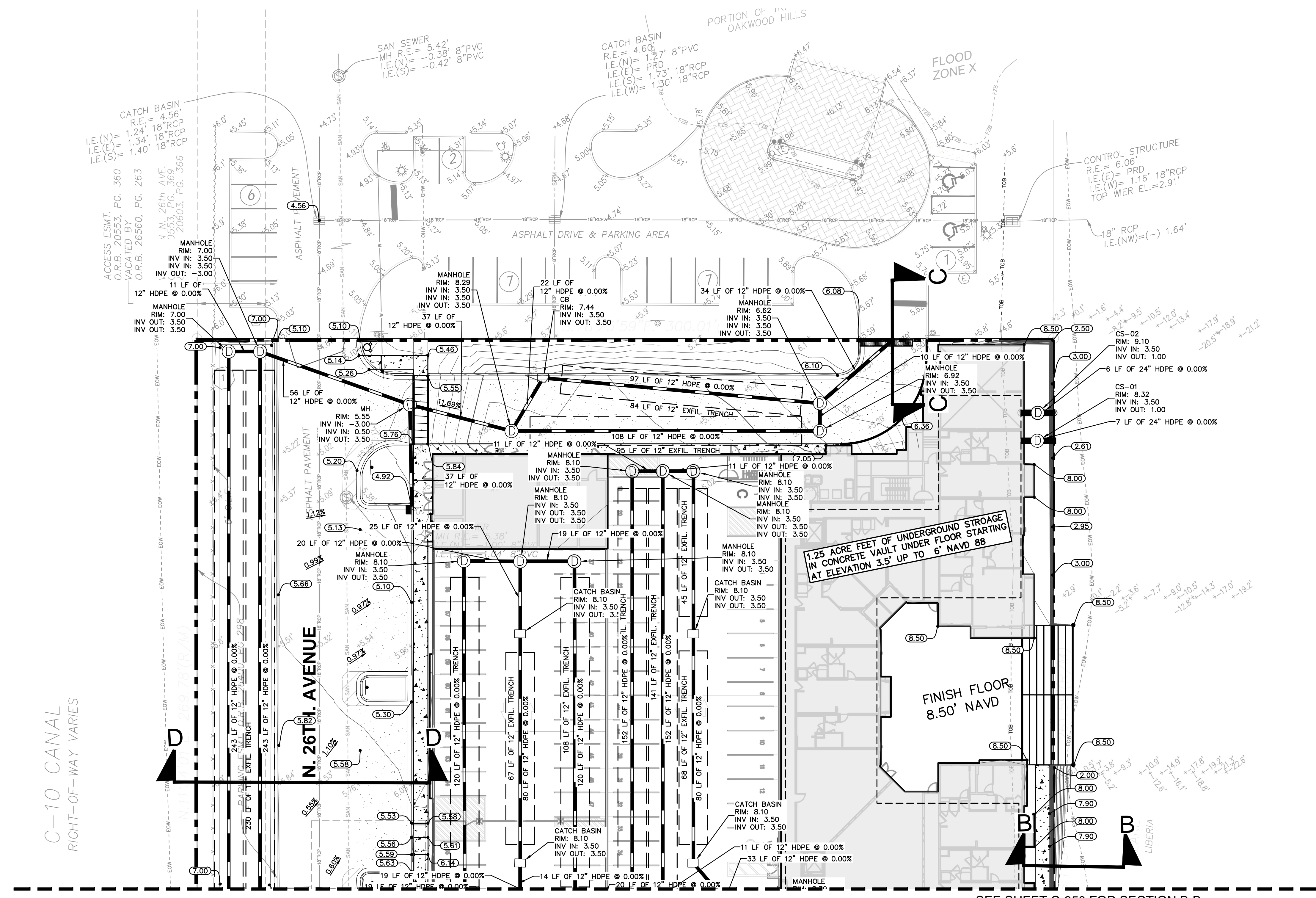
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PAVING, GRADING AND DRAINAGE NOTES:

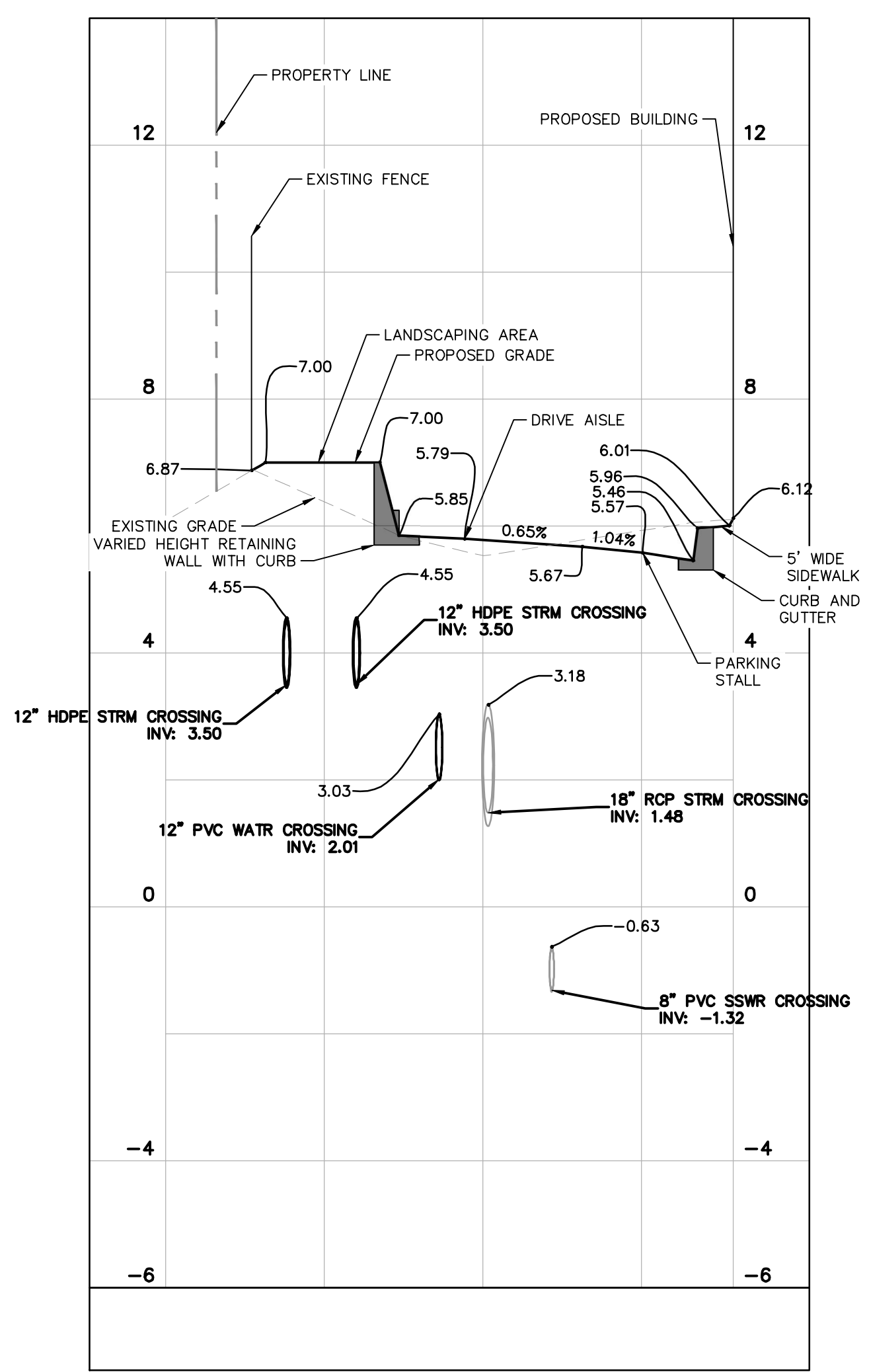
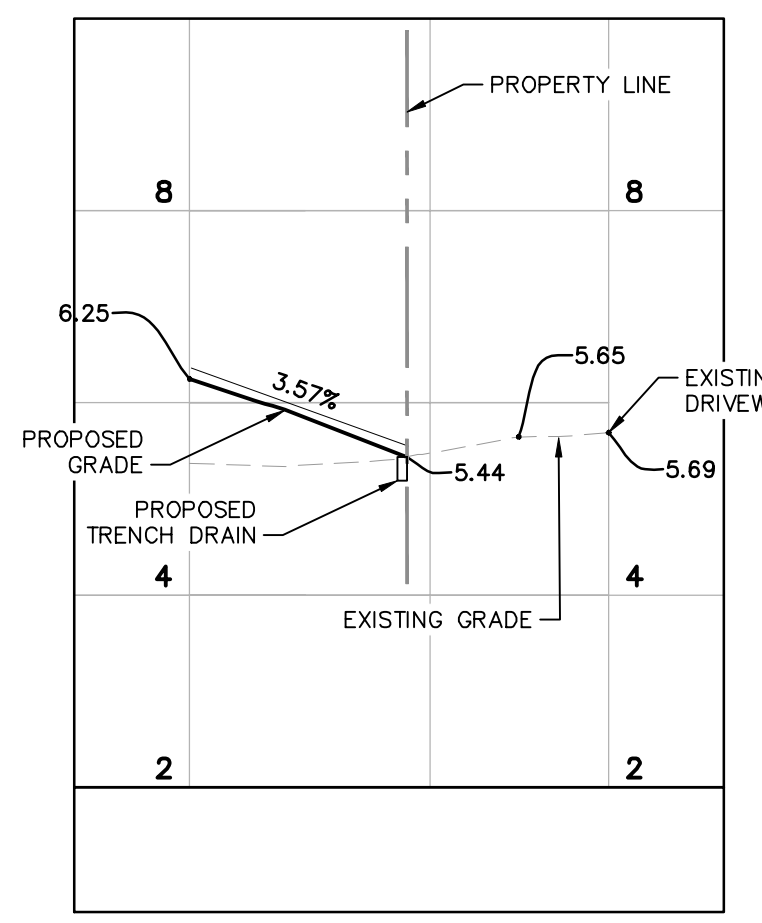
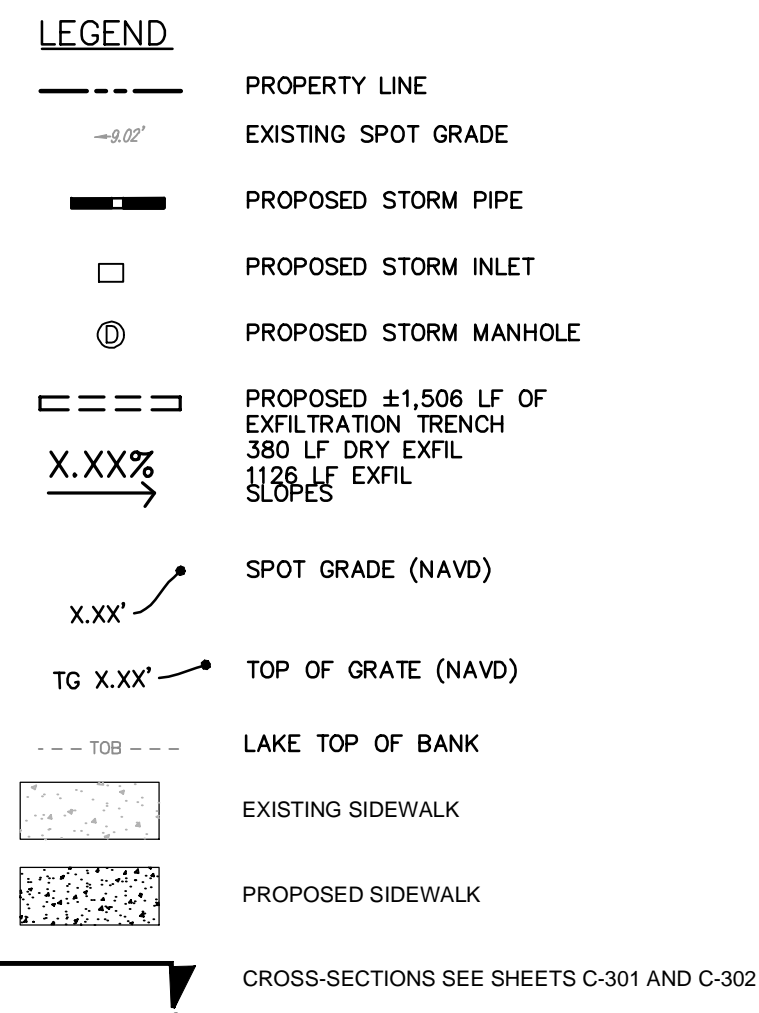
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- CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A MINIMUM OF 30" OR AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED (WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 4" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
- THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER-COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- ALL CUT OR FILL SLOPES SHALL BE 4H:1V OR FLATTER UNLESS OTHERWISE NOTED.
- ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- LANDSCAPE ISLANDS IN PARKING AREA TO BE BERMED MINIMUM OF 6" ABOVE BACK OF CURB ELEVATION.
- SEE LANDSCAPE PLAN FOR TREE REMOVAL AND PLANTING.
- ADA RAMPS SHALL NOT EXCEED 6' IN LENGTH AND 6" IN RISE (8.33% SLOPE MAX).
- CONTRACTOR TO FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES AND IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS WITH SIGNAGE FOUNDATIONS.
- ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
- ELEVATIONS ARE BASED ON NAVD8 DATUM DETERMINED BY GPS OBSERVATIONS, PROVIDED BY SURVEYOR.
- TYPE C INLETS TO BE MODIFIED FOR H-20 TRAFFIC RATING.
- FOOT DITCH BOTTOM INLETS TO BE MODIFIED FOR H-20 TRAFFIC RATING.



C-10 CANAL
 RIGHT-OF-WAY VARIES

DRAINAGE INFORMATION:
 THE PROPOSED DRAINAGE SYSTEM FOR THE BUILDING IS AS FOLLOWS:
 ROOF DRAINS WILL DIRECTLY INTO THE UNDERGROUND CONCRETE STORAGE VAULT UNDER THE BUILDING FLOOR.
 THE EXFILTRATION TRENCH WILL TREAT THE WATER THEN IT WILL GO BACK THROUGH THE BUILDING AND DISCHARGE INTO THE EXISTING LAKE.
 THE EXACT SYSTEM DRAINAGE UNDERNEATH THE BUILDING WILL BE DESIGNED AS PART OF THE STRUCTURAL FOUNDATION SYSTEM BUT WILL HAVE A MINIMUM OF 1.25 ACRE-FEET OF STORAGE BASED ON THE CALCULATIONS.

MATERIAL NOTES:
CONCRETE:
 CONCRETE DRIVEWAYS ON PRIVATE PROPERTY WILL BE 6-INCH THICK, 3,000 PSI WITH FIBER MESH WHILE THE PORTION OF THE DRIVEWAY LOCATED WITHIN THE ROW (OUTSIDE OF THE PROPERTY LINES) WILL BE A MINIMUM OF 6 INCHES THICK, 3,000 PSI WITH NO METAL OR FIBER MESH AND WILL BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND SIDEWALK. THE ENTIRE DRIVEWAY WILL MAINTAIN CONTROL JOINTS LOCATED EVERY 260 SQ FT AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.
PAVERS:
 PAVES DRIVEWAYS REQUIRE A MINIMUM 2 3/8TH INCH PAVERS PLACED OVER A 1-1/2 INCH SAND BASE AND COMPACTED SUBBASE. IN ADDITION TO A MINIMUM 6-INCH EDGE RESTRAINT (CONCRETE BORDER) IS REQUIRED AROUND PERIMETER TO INTERLOCK PAVERS. THE DRIVEWAY IS TO BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.
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9/14/24

GREGORY D. WILFONG
 LICENSE
 No. 63166
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

KHA PROJECT 147507129
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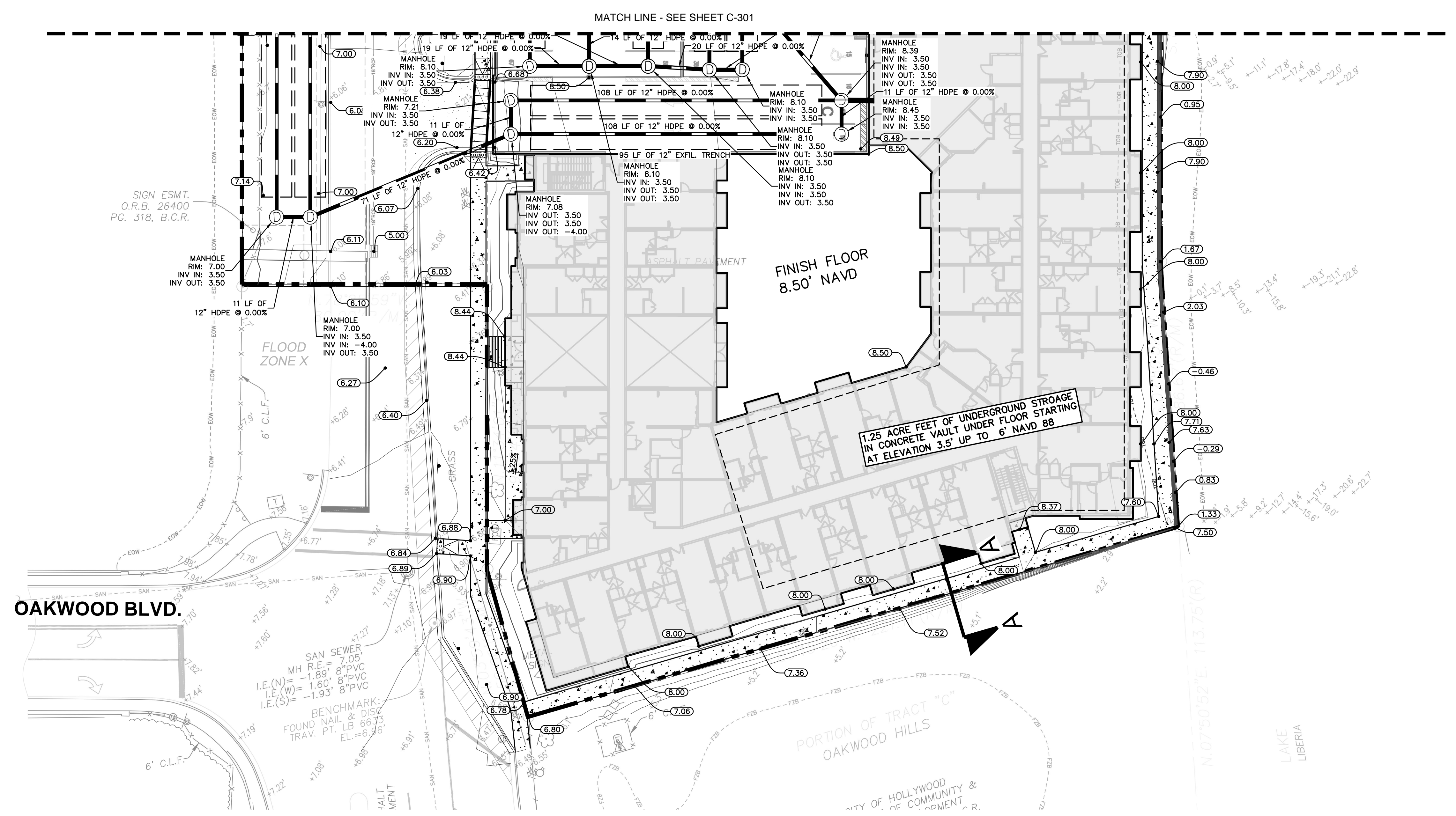
OAKWOOD EAST MULTI-FAMILY PROJECT
 PAVING GRADING AND DRAINAGE ENLARGEMENT

SHEET NUMBER
C-301

CITY OF HOLLYWOOD
 FLORIDA

REVISIONS
 No. DATE BY

Plotted By: Biscotto, Samantha - Sheet: Oakwood_East_Multi_Family_Project_Layout_C-302 - September 14, 2024 - 05:17:09pm - K:\VRB_IDEVA\142507129 - Oakwood East Towers\CAD\PlanSheets\C-300 PAVING GRADING AND DRAINAGE PLAN.dwg
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ADA NOTE
 ANY LIP FROM 1/4" BUT NOT GREATER THAN 1/2" WILL BE BEVELED TO MEET ADA REQUIREMENTS ALONG ALL SIDEWALKS AND ADA PATHS

- PAVING, GRADING AND DRAINAGE NOTES:**
- TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE COVERING CODES AND BE CONSTRUCTED TO SAME.
 - THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
 - ALL MATERIALS AND CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST DESIGN STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR THE AUTHORITY HAVING JURISDICTION.
 - FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
 - CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
 - EXISTING DRAINAGE PIPES AND INLETS TO BE LET CLEANED AND VACUUMED TO REMOVE ALL SILT AND DEBRIS.
 - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
 - PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION, IF APPLICABLE.
 - ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT, IF APPLICABLE.
 - ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RINGS & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER" - IF APPLICABLE.
 - ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES, IF APPLICABLE.
 - ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT TO CONTINUOUS GRADE.
 - CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
 - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND UNPAVED AREAS.
 - ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
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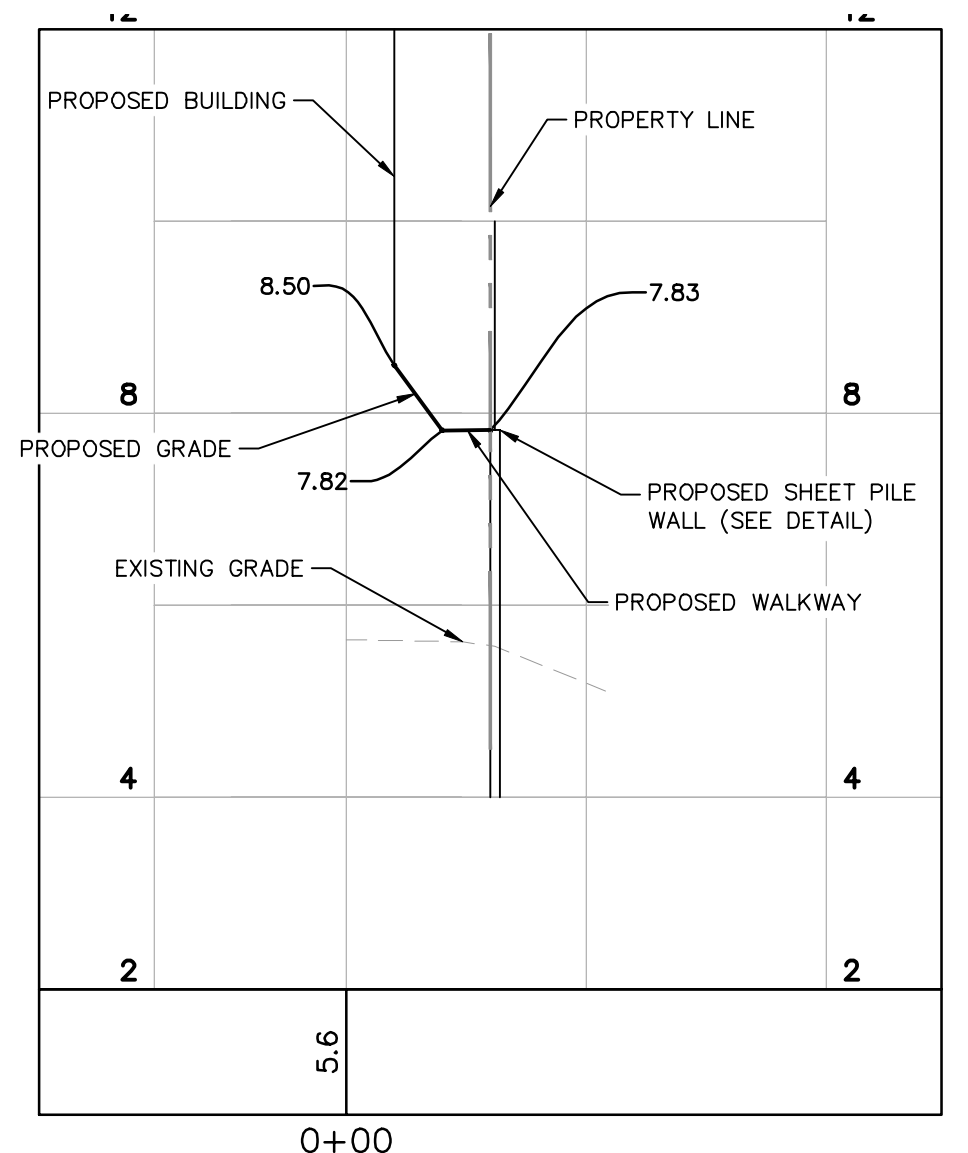
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- LEGEND**
- PROPERTY LINE
 - - - - - EXISTING SPOT GRADE
 - PROPOSED STORM PIPE
 - PROPOSED STORM INLET
 - ⊙ PROPOSED STORM MANHOLE
 - PROPOSED ±1,506 LF OF EXFILTRATION TRENCH 380 LF DRY EXFIL 1126 LF EXFIL SLOPES
 - X.XX% SPOT GRADE (NAVD)
 - TO X.XX% TOP OF GRATE (NAVD)
 - LAKE TOP OF BANK
 - EXISTING SIDEWALK
 - PROPOSED SIDEWALK
 - CROSS-SECTIONS SEE SHEETS C-301 AND C-302



SECTION A-A
 1" = 10' HORIZONTAL
 1" = 1' VERTICAL

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KHA PROJECT 147507129
 DATE 9/14/24
 SCALE AS SHOWN
 DESIGNED BY SHB
 DRAWN BY SHB
 CHECKED BY GDW

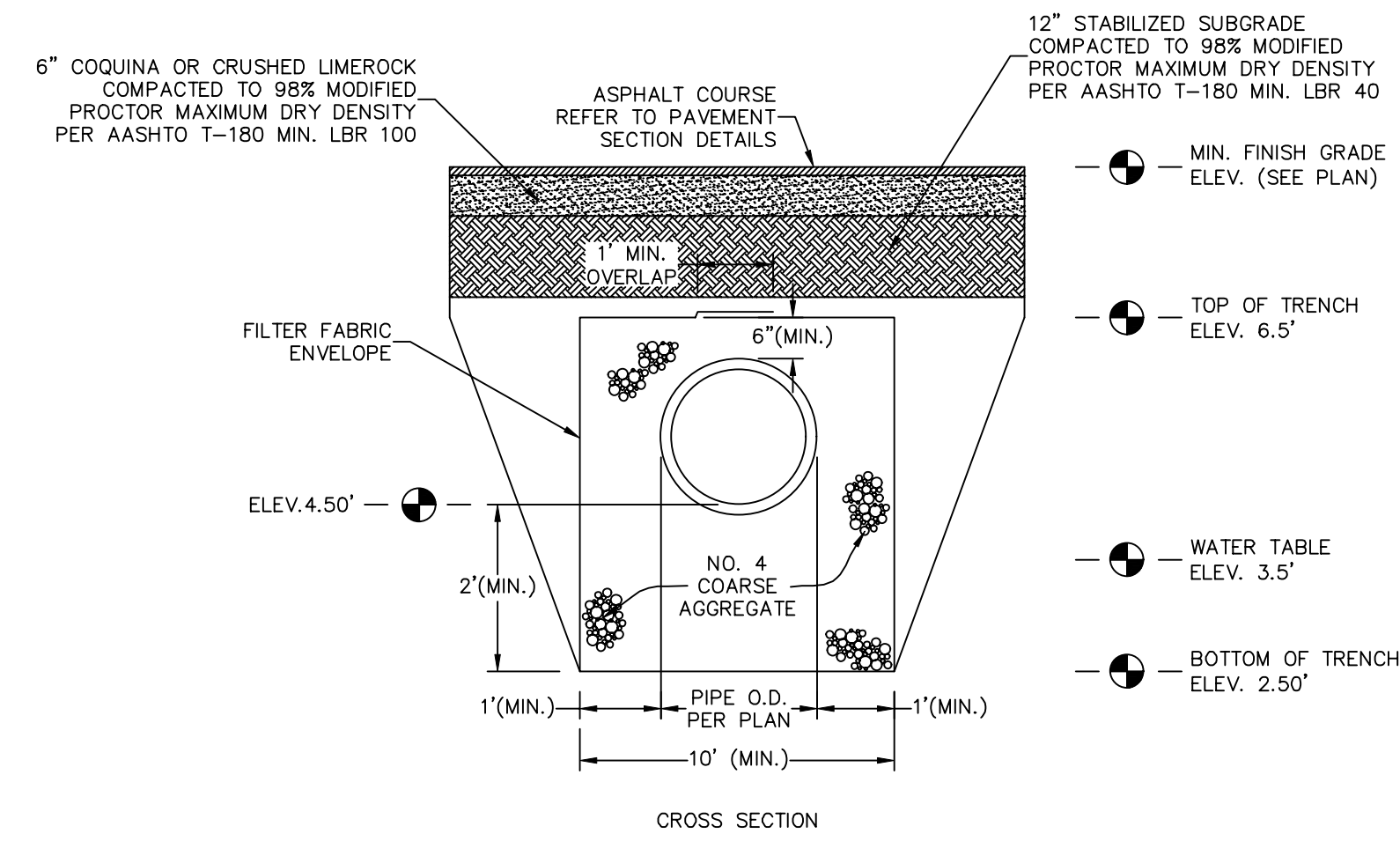
GREGORY D. WILFONG
 LICENSE NO. 63166
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

OAKWOOD EAST MULTI FAMILY PROJECT
 PAVING GRADING AND DRAINAGE AND DRAINAGE ENLARGEMENT
 CITY OF HOLLYWOOD FLORIDA

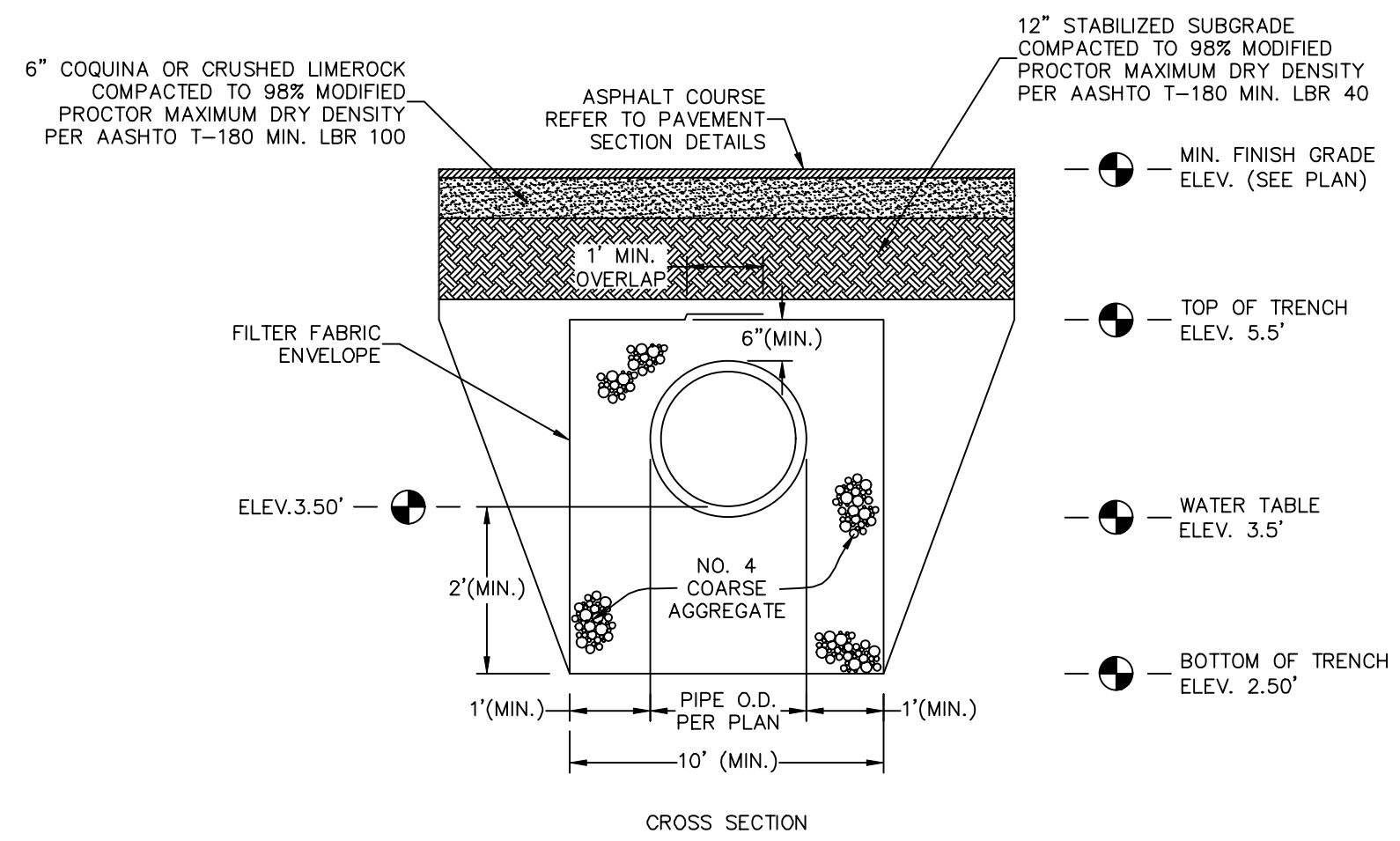
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NO.	REVISIONS	DATE

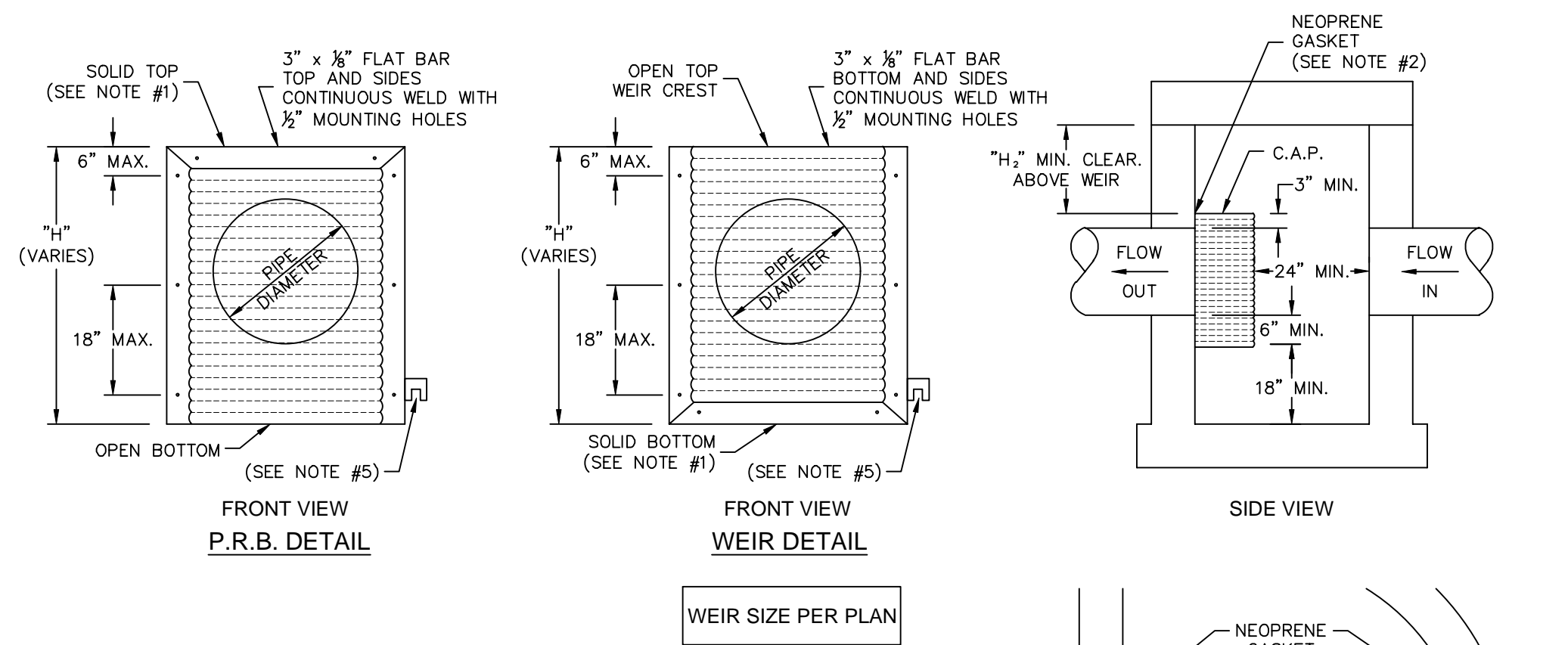
Picked By: Biscotti, Samantha Street: OAKWOOD EAST MULTI FAMILY PROJECT Layout: C-300 September 14, 2024 05:17:14pm K:\WB LDEV 147507129 - Oakwood East Towers\CAD\Plan\Sheets\C-300 PAVING, GRADING AND DRAINAGE PLAN.dwg
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DRY EXFILTRATION TRENCH
N.T.S.



WET EXFILTRATION TRENCH
N.T.S.

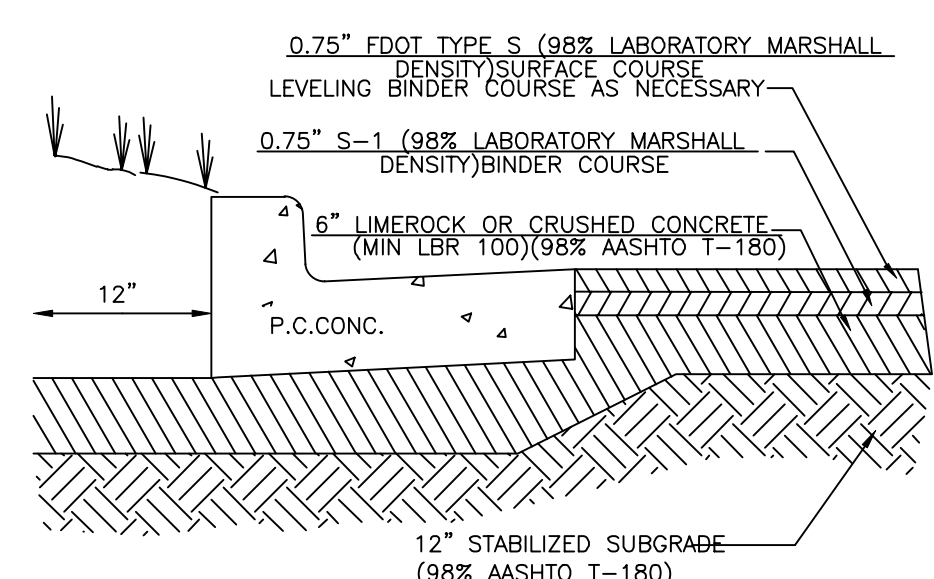


PIPE DIAM.	W (IN)	W ₂ (IN)	T (GAUGE)	H ₂ (IN)
15"	21"	21"	16	6
18"	24"	24"	16	7
21"	30"	30"	16	8
24"	30"	36"	16	10
30"	36"	42"	14	13
36"	42"	48"	14	16
42"	48"	54"	14	20
48"	54"	60"	14	23
54"	60"	66"	14	26

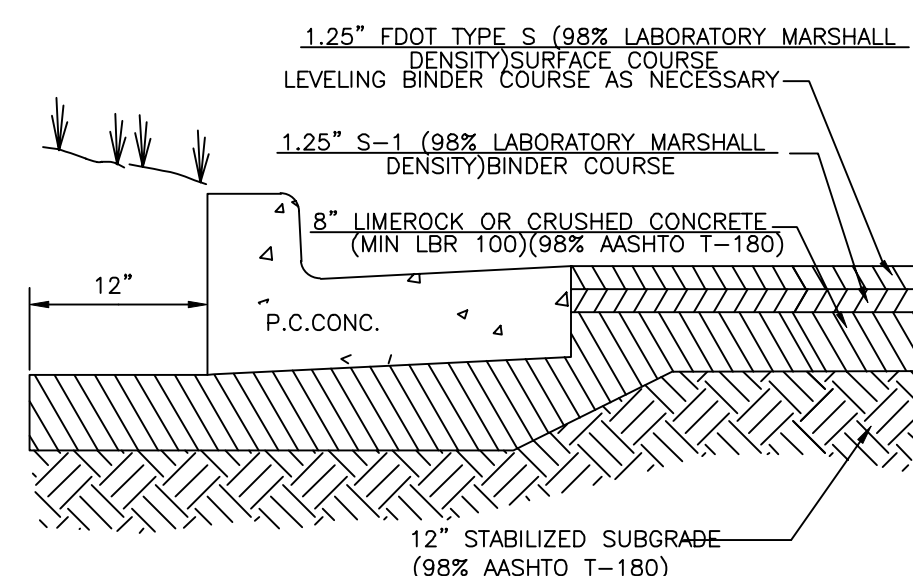
"W" RECTANGULAR STRUCTURE
"W₂" ROUND STRUCTURE

- NOTES:
- ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP FOR THE BAFFLE OR BOTTOM FOR WEIR.
 - NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES OR BOTTOM OF WEIRS.
 - POLLUTION RETARDANT BAFFLE OR HALF PIPE WEIR TO BE FASTENED IN PLACE WITH 3/8" x 4" STAINLESS STEEL "RED HEADS" OR APPROVED EQUAL.
 - FIBERGLASS BAFFLES AND WEIRS ARE NOT PERMITTED.
 - MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

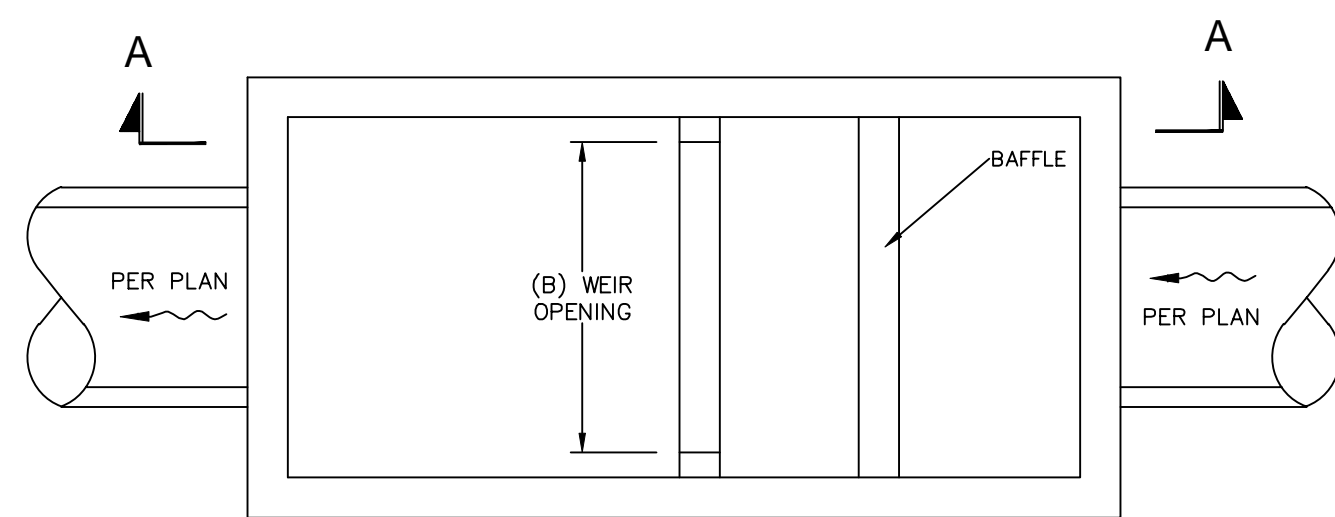
POLLUTION RETARDANT BAFFLE (PRB) AND WEIR DETAILS
N.T.S.



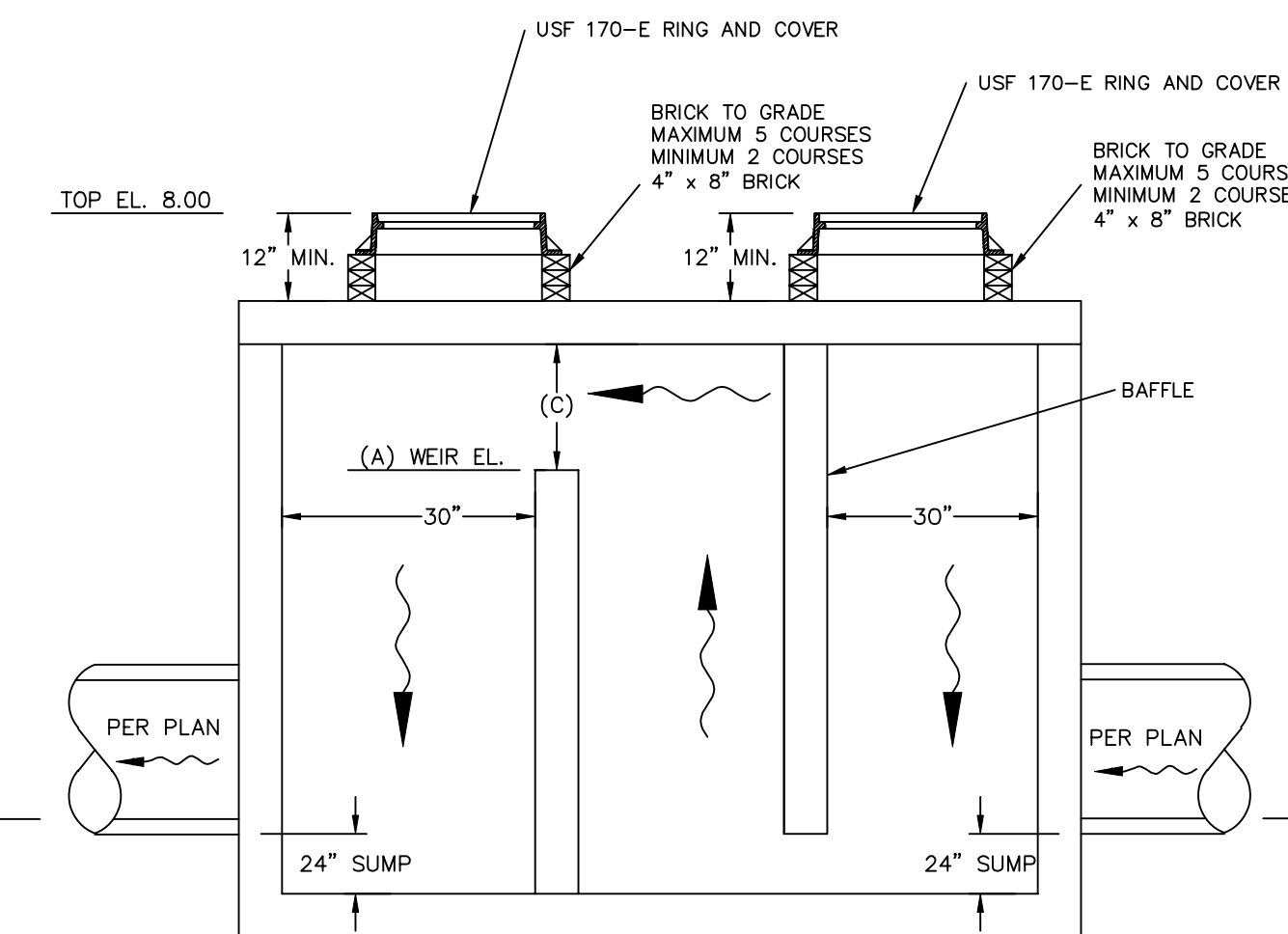
STANDARD DUTY ASPHALT PAVING



HEAVY DUTY ASPHALT PAVING



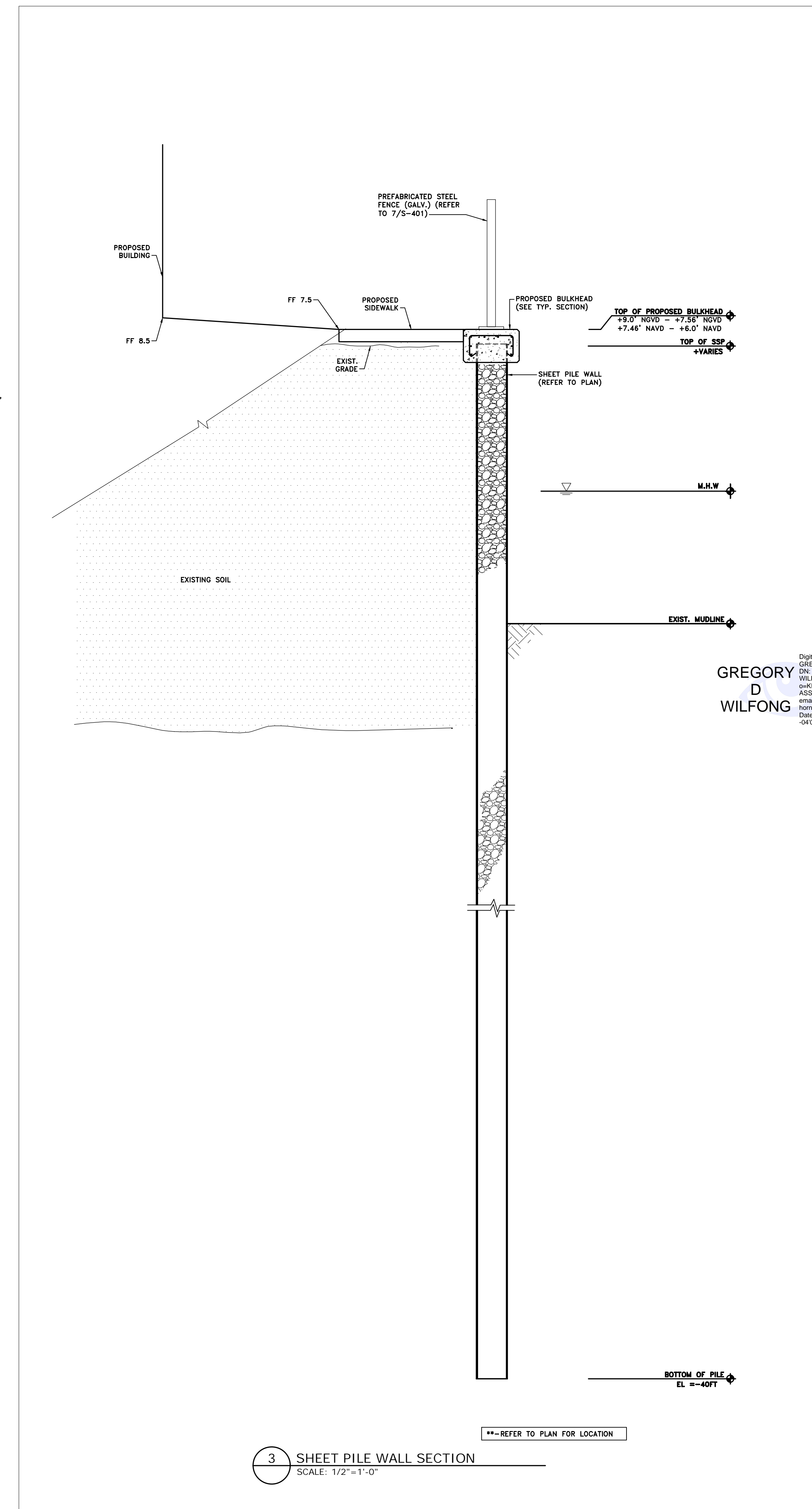
PLAN VIEW



SECTION A-A

CONTROL STRUCTURE (CS-01, CS-02)
N.T.S.

CONTROL STRUCTURE DATA			
STRUCTURE NUMBER	(A) WEIR ELEVATION	(B) WEIR SPAN (INCHES)	(C) WEIR RISE (INCHES)
CS-01	5.5000	48	12
CS-02	5.5000	48	12



3 SHEET PILE WALL SECTION
SCALE: 1/2"=1'-0"

NO.	REVISIONS	DATE	BY

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9/16/2024

Digitally signed by
GREGORY D. WILFONG
 LICENSE
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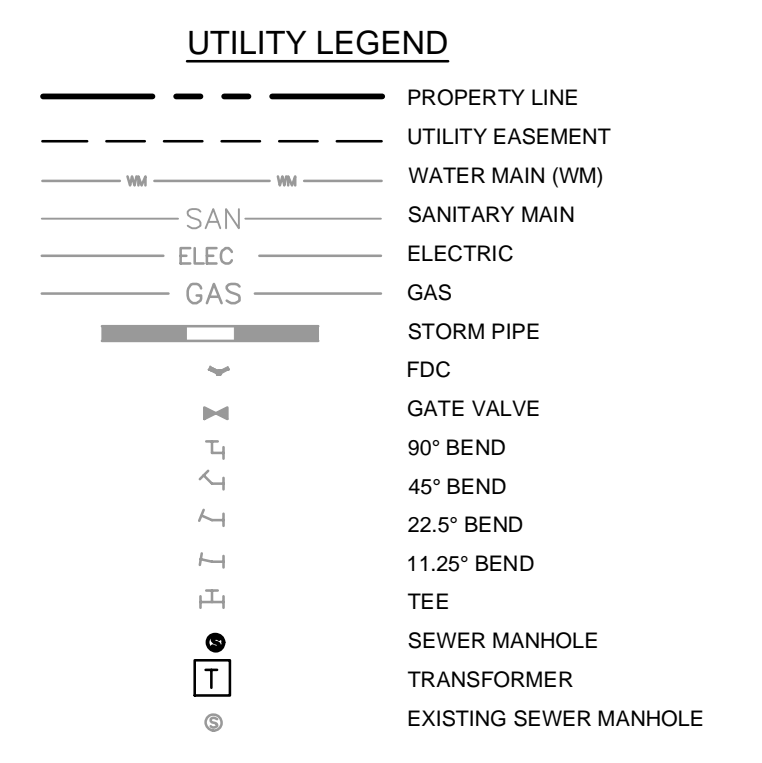
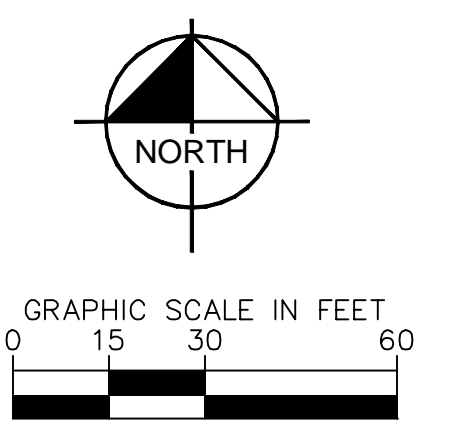
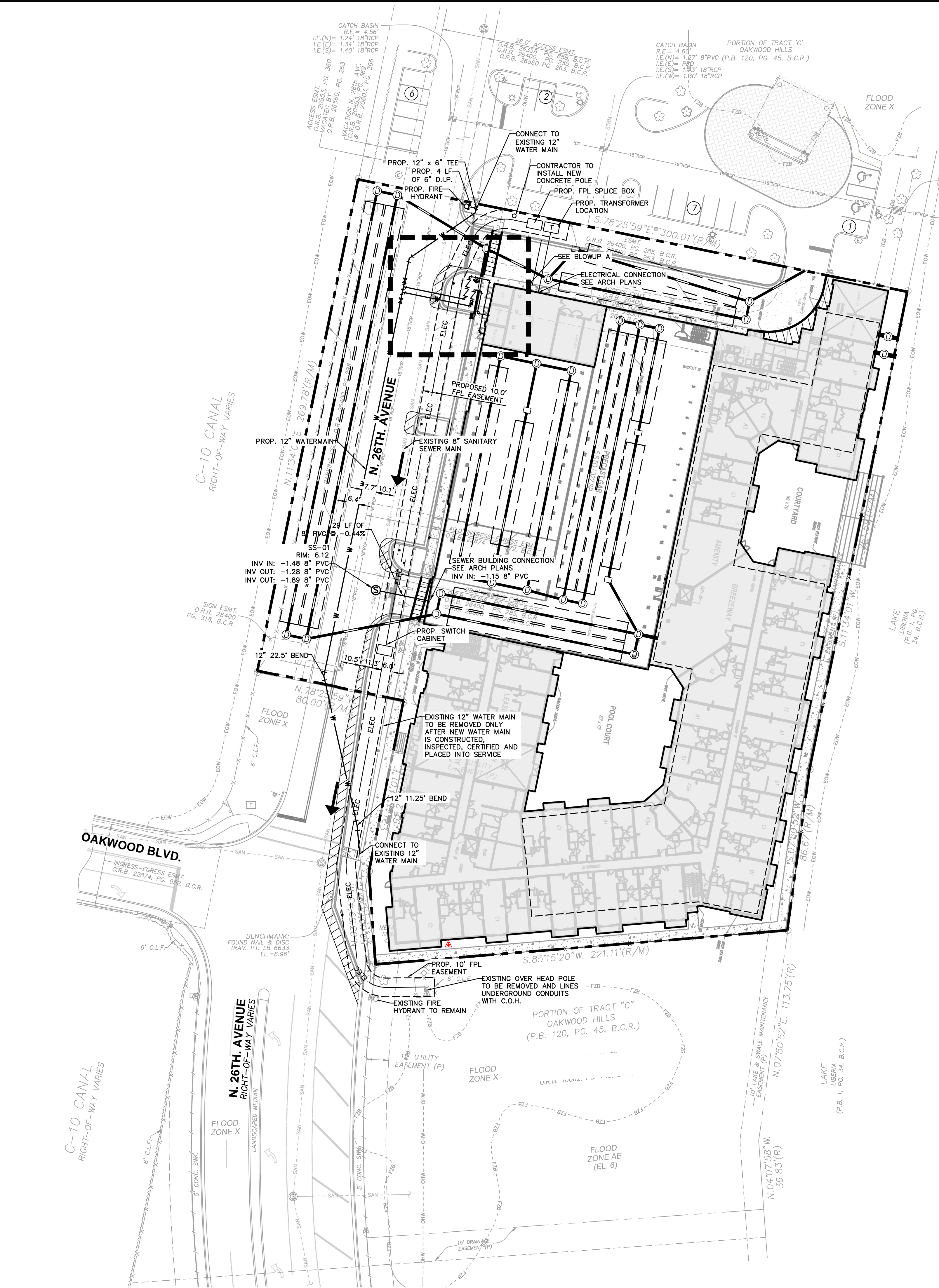
**OVERALL PAVING,
 GRADING AND
 DRAINAGE PLAN**

**OAKWOOD EAST
 MULTI FAMILY
 PROJECT**

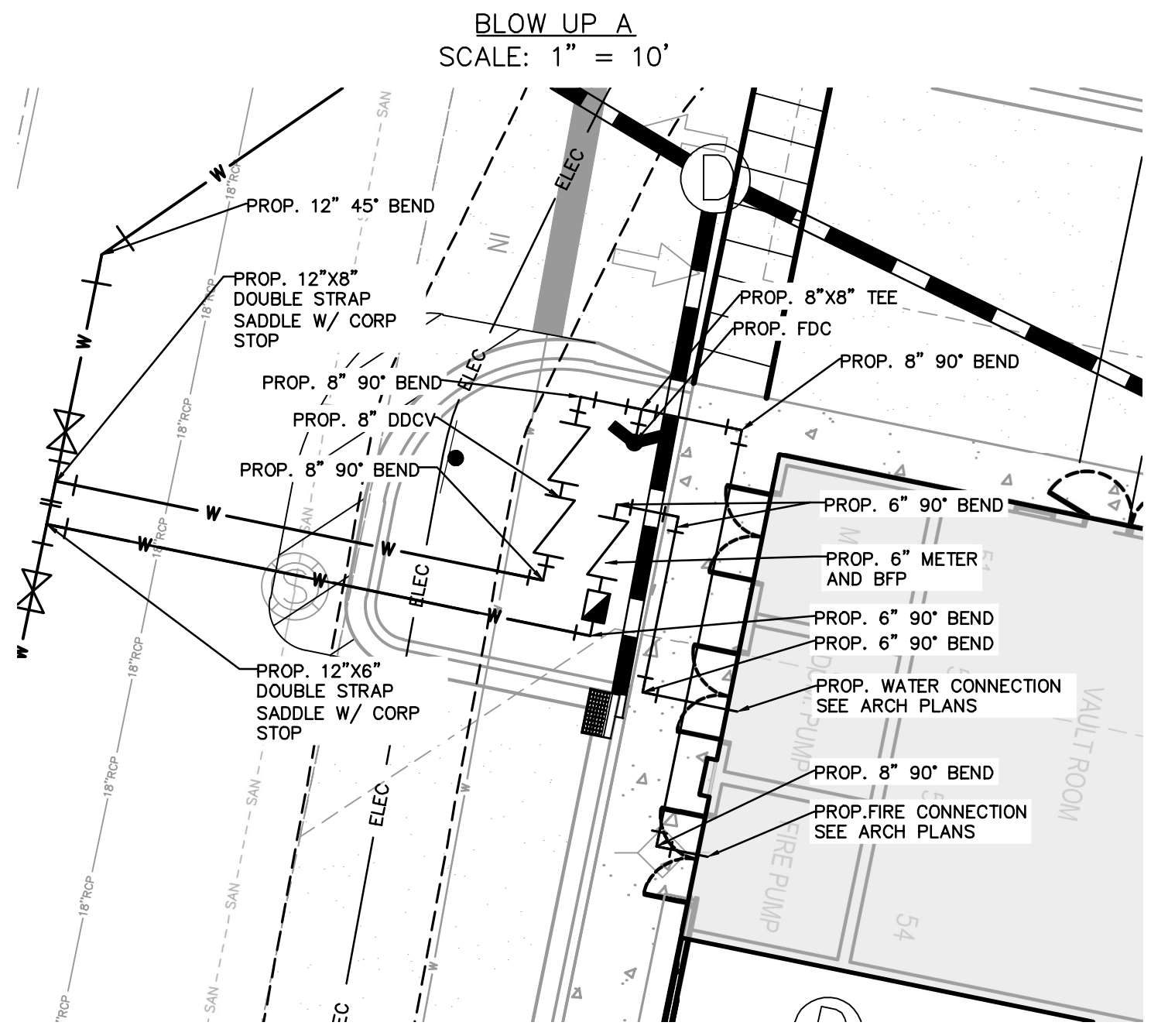
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- ### UTILITY NOTES
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
 - CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
 - SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
8" PVC SDR26 PER ASTM D 3034, FOR PIPES LESS THAN 12" DEEP
8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12" DEEP
6" PVC SCHEDULE 40
DUCTILE IRON PIPE PER AWWA C150
6" AND LARGER, PVC C-900 PER ASTM D 2241 CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150
8" AND LARGER DUCTILE IRON PIPE PER AWWA C150
SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI 816.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
 - WATER LINES SHALL BE AS FOLLOWS:
6" AND LARGER, PVC C-900 PER ASTM D 2241 CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150
8" AND LARGER DUCTILE IRON PIPE PER AWWA C150
SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI 816.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
 - MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
 - ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
 - ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
 - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'-0" COVER ON ALL WATER LINES.
 - IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
 - UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
 - TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS WITHIN PAVED AREAS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS WITHIN LANDSCAPED AREAS.
 - ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
 - EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
 - REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
 - CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
 - REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
 - UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
 - REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING WATER MAINS, FORCE MAINS, SANITARY SEWER AND STORM MAINS AND MAINTAIN MINIMUM CLEARANCES BETWEEN WATER MAINS AND OTHER UTILITIES AT ALL POINTS ALONG THEIR LENGTH AS REQUIRED IN THE PLANS, DETAILS AND SPECIFICATIONS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
 - THE ENTIRE FIRE SERVICE FROM BUILDING TO CONNECTION POINT IS TO BE INSTALLED BY A LICENSED UTILITY CONTRACTOR HOLDING A "CONTRACTOR V" LICENSE IN ACCORDANCE WITH CH. 489 OF THE FLORIDA STATUTES.
 - ALL UTILITY MAIN LENGTHS SHOWN ARE APPROXIMATE.



- ### FIRE UTILITY NOTE
- ALL UNDERGROUND FIRE MAIN WORK MUST BE COMPLETED BY FIRE PROTECTION CONTRACTOR HOLDING A CLASS I, II, OR V LICENSE PER FS 633.102.
 - WATER SUPPLY AND ANY NEW HYDRANTS SHALL BE IN PLACE PRIOR TO ACCUMULATION OF COMBUSTIBLE MATERIALS PER NFPA 1 (2021 ED) SECTION 16.5.3.1.1.
 - BE ADVISED THAT NFPA 1 (2021 EDITION) SECTION 11.10.2 REQUIRES THAT MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS SHALL BE MAINTAINED AT A LEVEL DETERMINED BY THE AHJ FOR ALL NEW AND EXISTING BUILDINGS. IF AT ANY TIME (INCLUDING THE CONSTRUCTION PHASE), FIRE DEPARTMENT PERSONNEL DETERMINE THAT THE MINIMUM RADIO SIGNAL STRENGTH IS NOT BEING MET, A TWO-WAY RADIO COMMUNICATION ENHANCEMENT SYSTEM MAY BE REQUIRED TO BE INSTALLED AS DETERMINED BY THE AHJ.

POTABLE WATER IMPACT			
	Use	Calculation	Total
Existing	VACANT		0 GPD
Proposed	280 UNITS (112 UNITS LESS THAN 750 S.F., 160 UNITS (751 S.F.-1200 S.F.) AND 8 UNITS (1200 S.F.- 2250 S.F.))	SEE CALCULATIONS	45,600 GPD
Total Existing and Proposed			45,600 GPD

SANITARY SEWER IMPACT			
	Use	Calculation	Total
Existing	VACANT		0 GPD
Proposed	280 UNITS (112 UNITS LESS THAN 750 S.F., 160 UNITS (751 S.F.-1200 S.F.) AND 8 UNITS (1200 S.F.- 2250 S.F.))	SEE CALCULATIONS	45,600 GPD
Total Existing and Proposed			45,600 GPD

NO.	REVISIONS	DATE	BY

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9/16/24

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 Date: 2024.09.16 10:44:07

GREGORY D. WILFONG
 No. 63166
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

KHA PROJECT
147507129

DATE
09/13/24

SCALE
AS SHOWN

DESIGNED BY
SHB

DRAWN BY
SHB

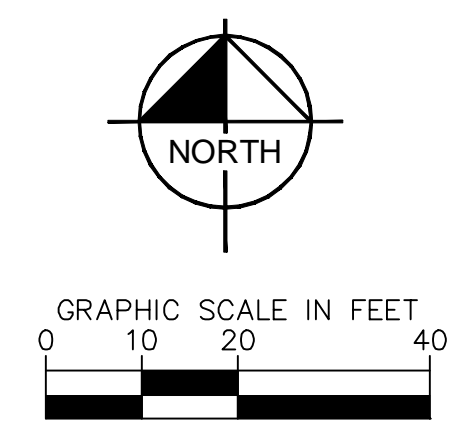
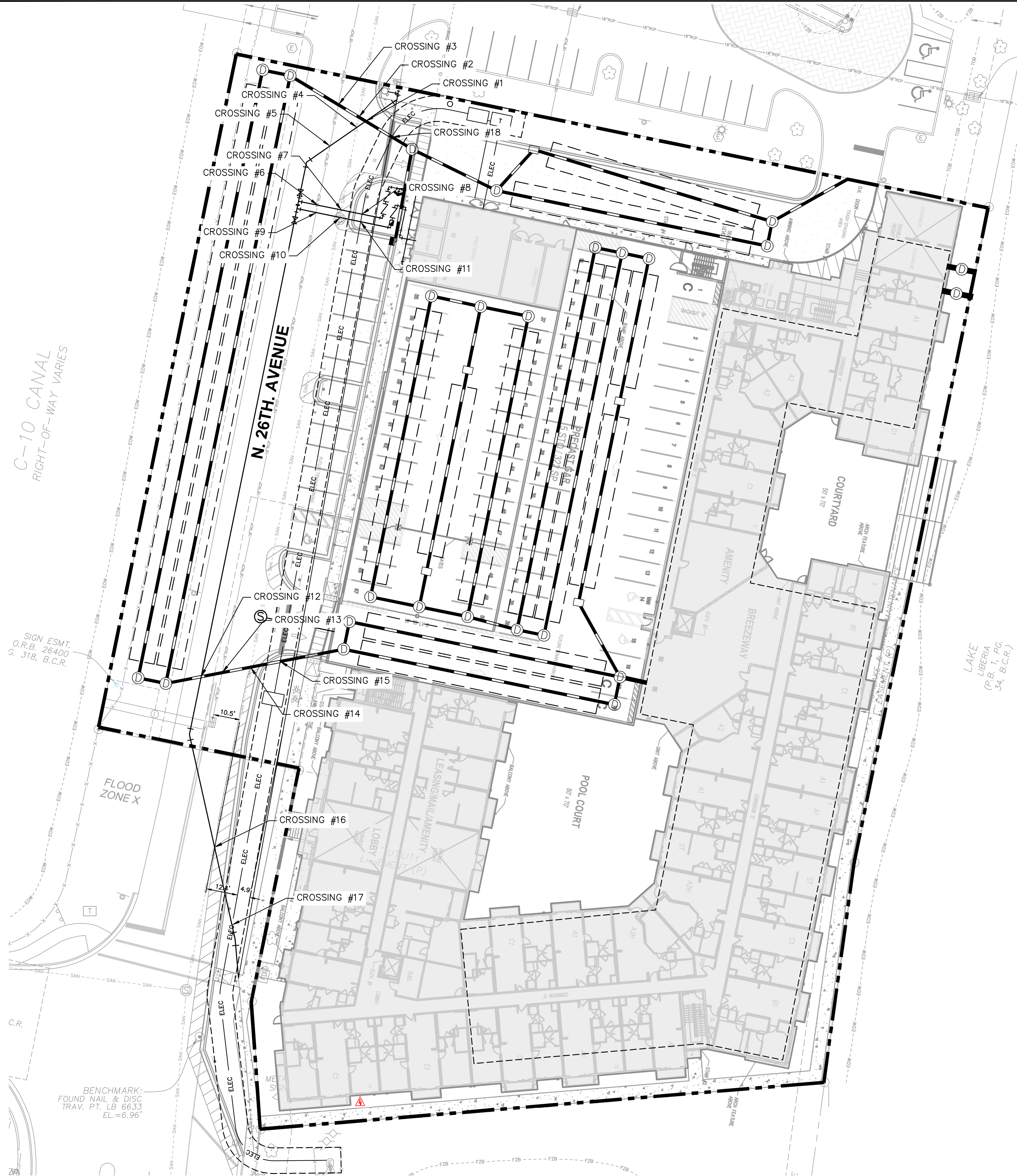
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UTILITY PLAN

OAKWOOD EAST MULTI FAMILY PROJECT
 CITY OF HOLLYWOOD
 FLORIDA

SHEET NUMBER
C-400

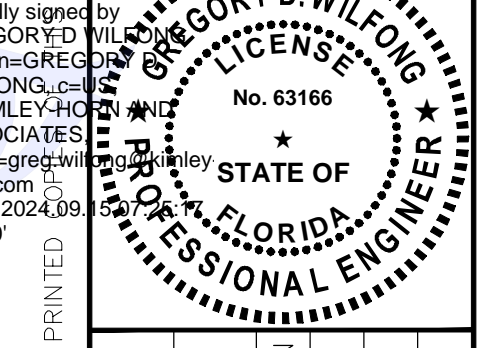
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UTILITY CROSSING TABLE		
CROSSING	UTILITIES	TOP AND BOTTOM EL.
1	12" WATER	2.98
	12" STORM	-0.95
2	EX. 8" SEWER	-0.86
	12" STORM	-1.95
3	EX. 18" STORM	1.21
	12" STORM	1.95
4	12" WATER	2.98
	EX. 8" SEWER	-0.17
5	EX. 18" STORM	1.22
	12" WATER	2.98
6	EX. 18" STORM	1.23
	6" WATER	-2.11
7	EX. 8" SEWER	-1.01
	6" WATER	-2.11
8	6" WATER	-2.11
	ELECTRIC	-3.11
9	EX. 18" STORM	1.23
	6" WATER	-2.28
10	EX. 8" SEWER	1.23
	6" WATER	-2.28
11	6" WATER	-2.28
	ELECTRIC	-3.28
12	12" WATER	1.99
	EX. 18" STORM	-2.95
13	12" STORM	1.30
	EX. 18" STORM	-2.95
14	EX. 8" SEWER	-1.86
	12" STORM	-2.95
15	12" STORM	-2.95
	ELECTRIC	-3.95

UTILITY CROSSING TABLE		
CROSSING	UTILITIES	TOP AND BOTTOM EL.
16	12" WATER	1.99
	EX. 8" SEWER	2.93
17	12" WATER	1.99
	ELECTRIC	0.99
18	12" STORM	-1.95
	ELECTRIC	-2.95

GREGORY
 D
 WILFONG



NO.	REVISIONS	DATE	BY

KHA PROJECT
 147507129
 DATE
 9/14/24
 SCALE AS SHOWN
 DESIGNED BY GDW
 DRAWN BY RL
 CHECKED BY GDW

UTILITY CROSSINGS

OAKWOOD EAST
 MULTI FAMILY
 PROJECT
 CITY OF HOLLYWOOD
 FLORIDA

SHEET NUMBER
 C-401

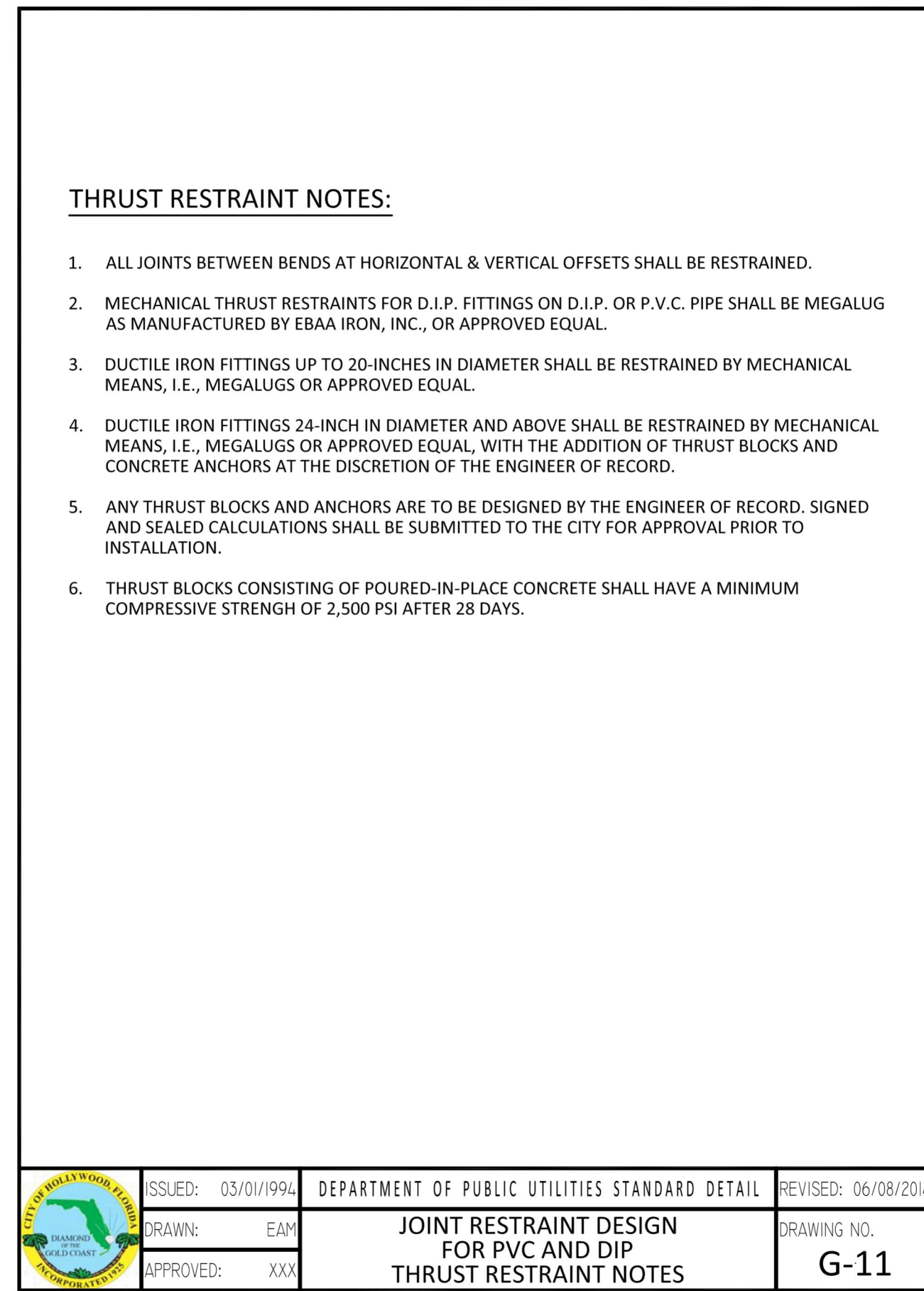
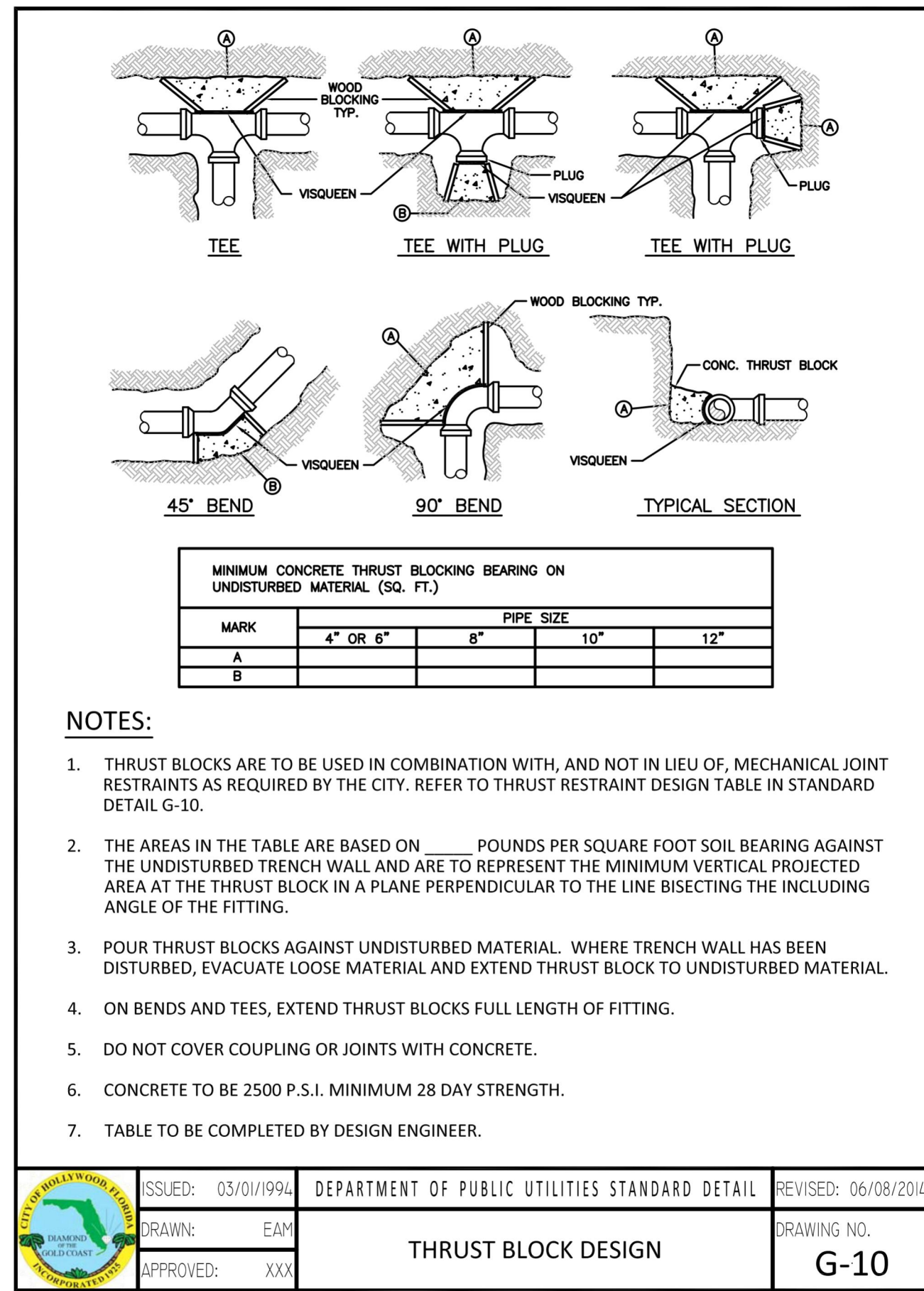
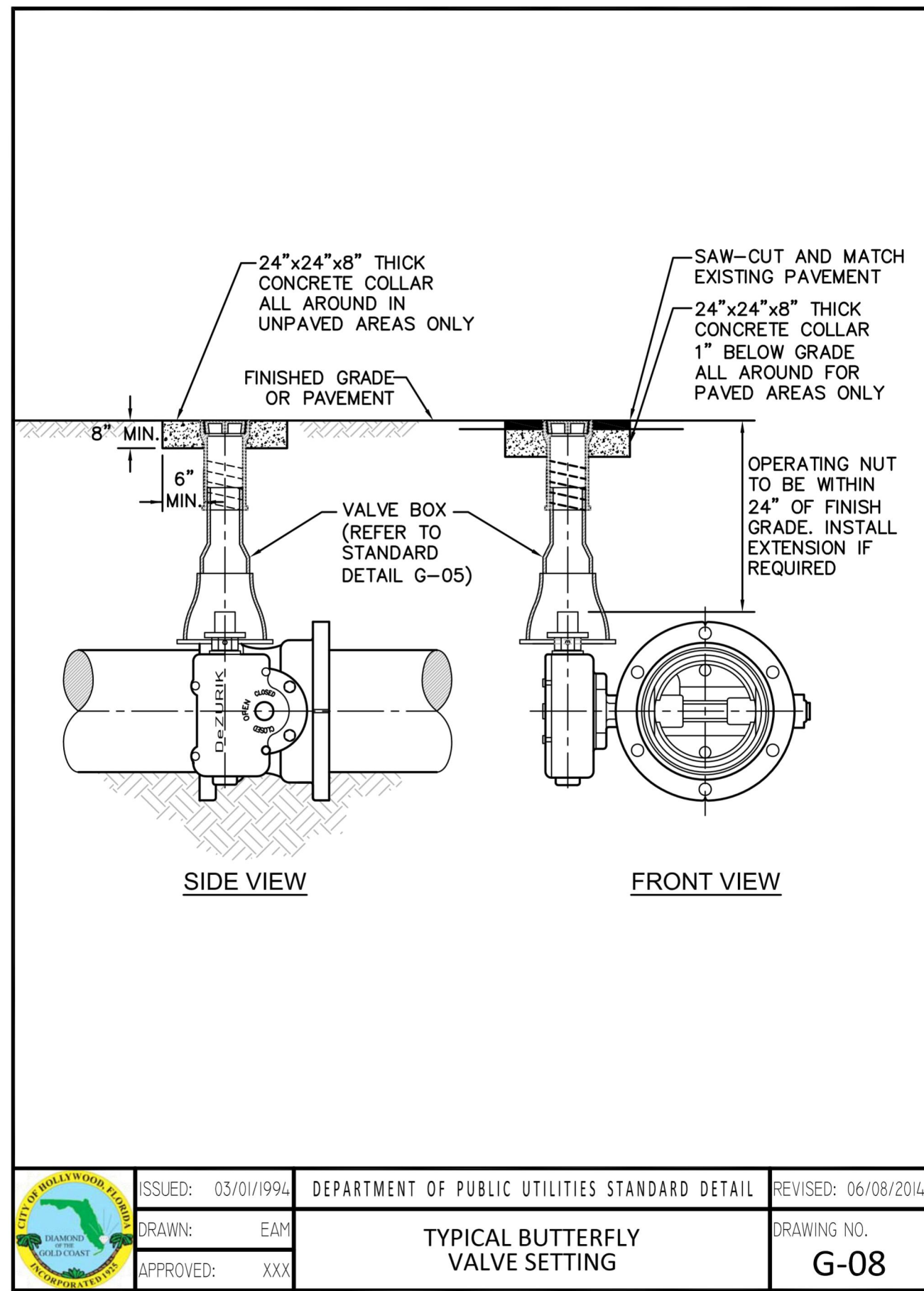
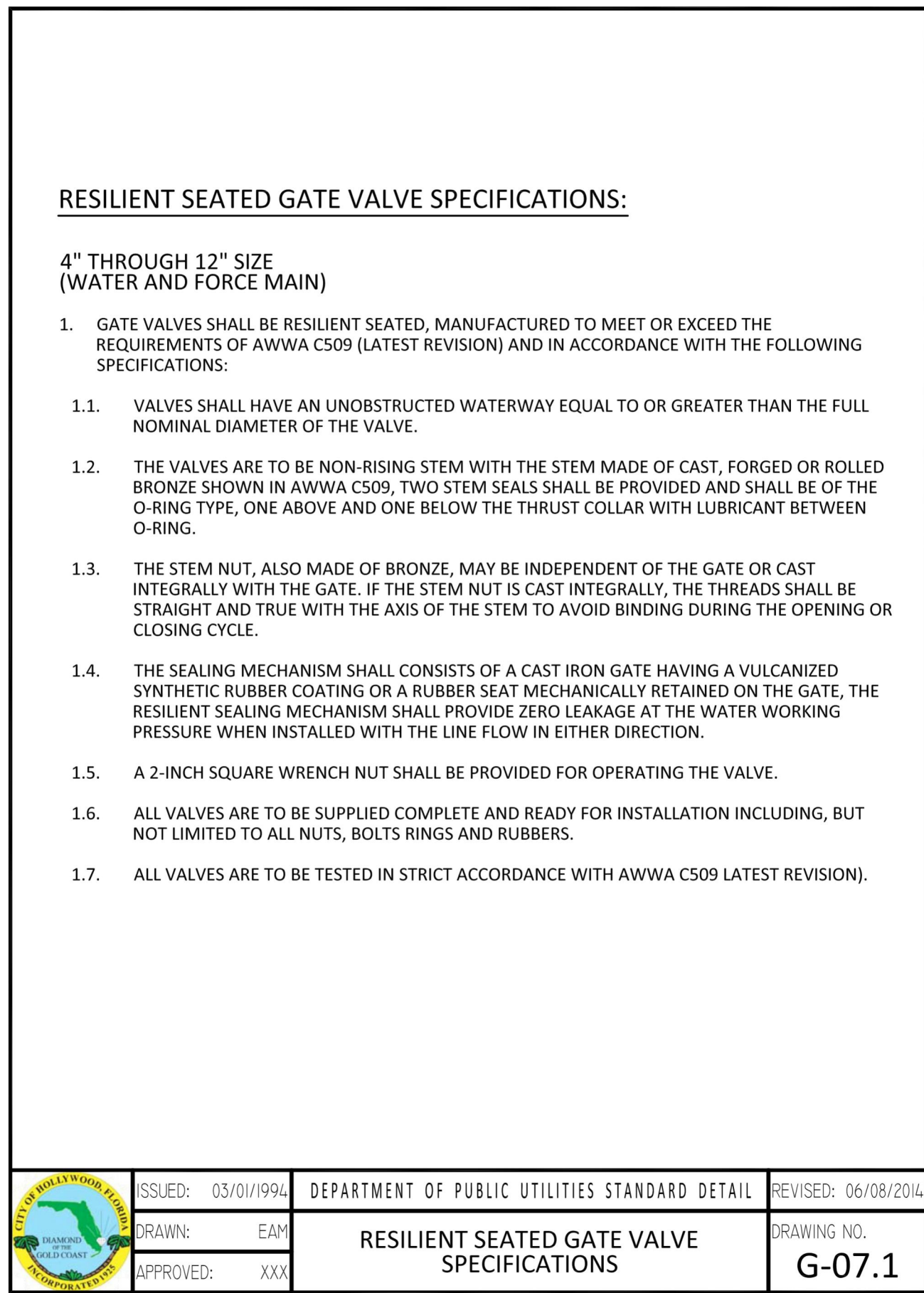
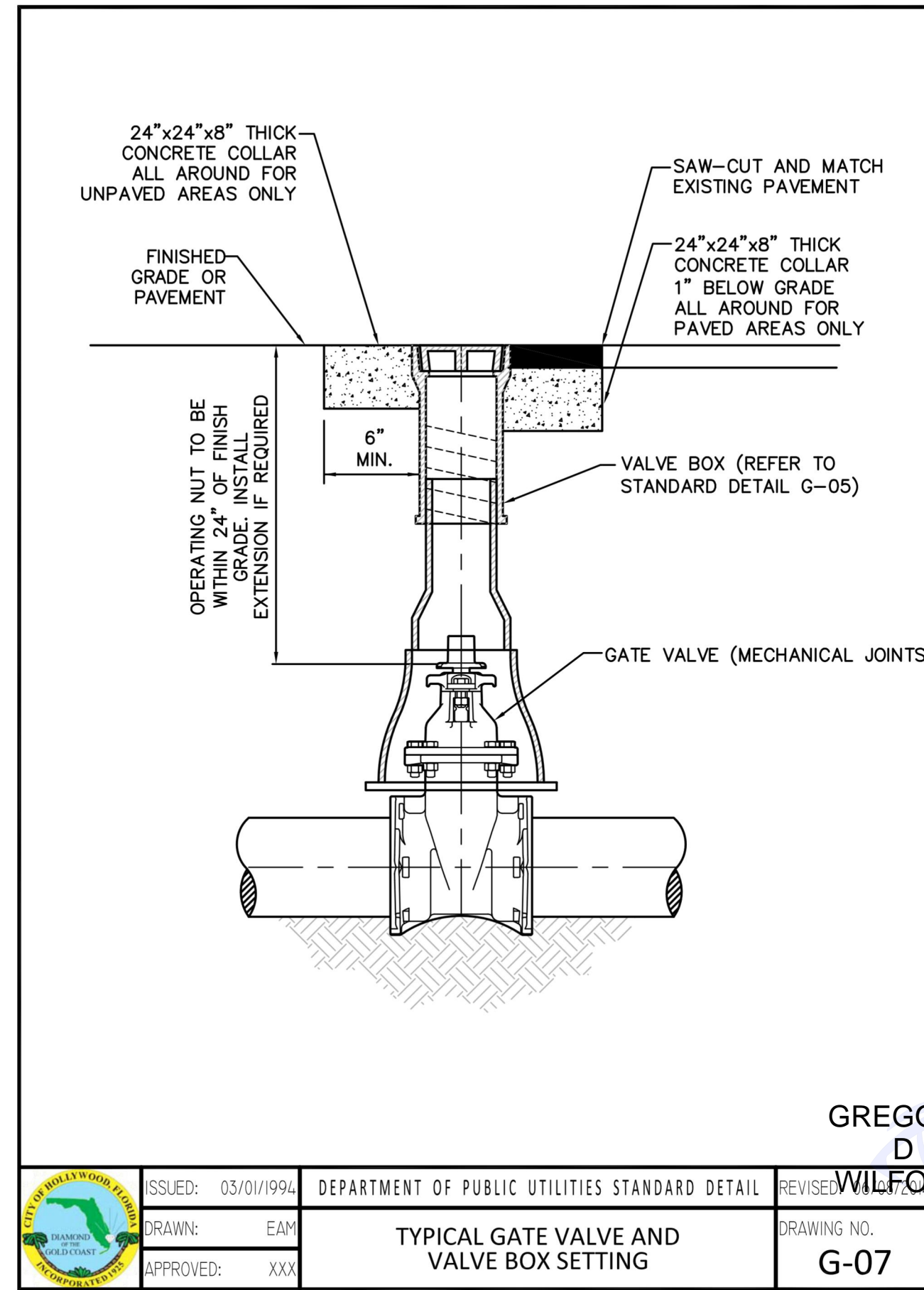
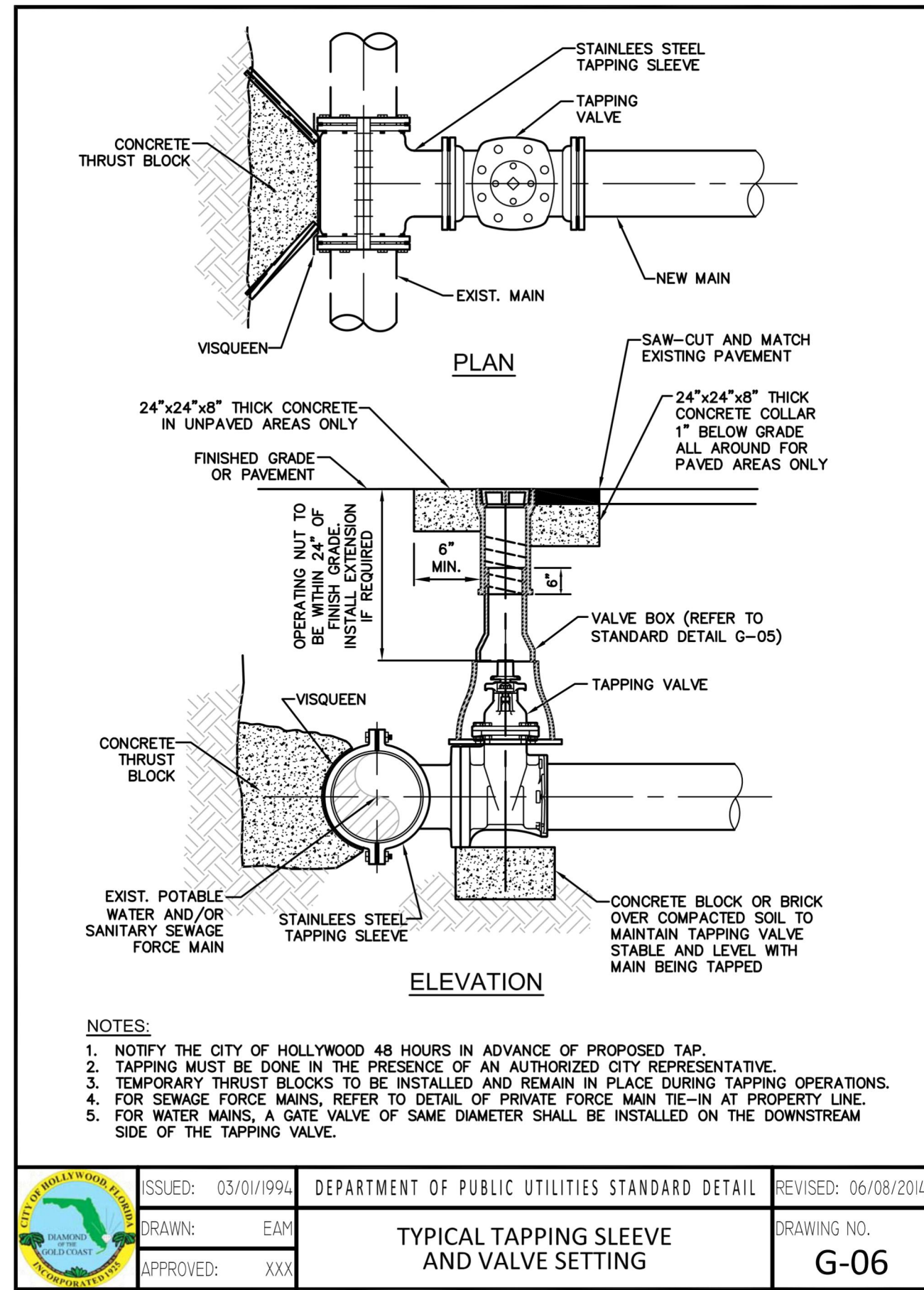
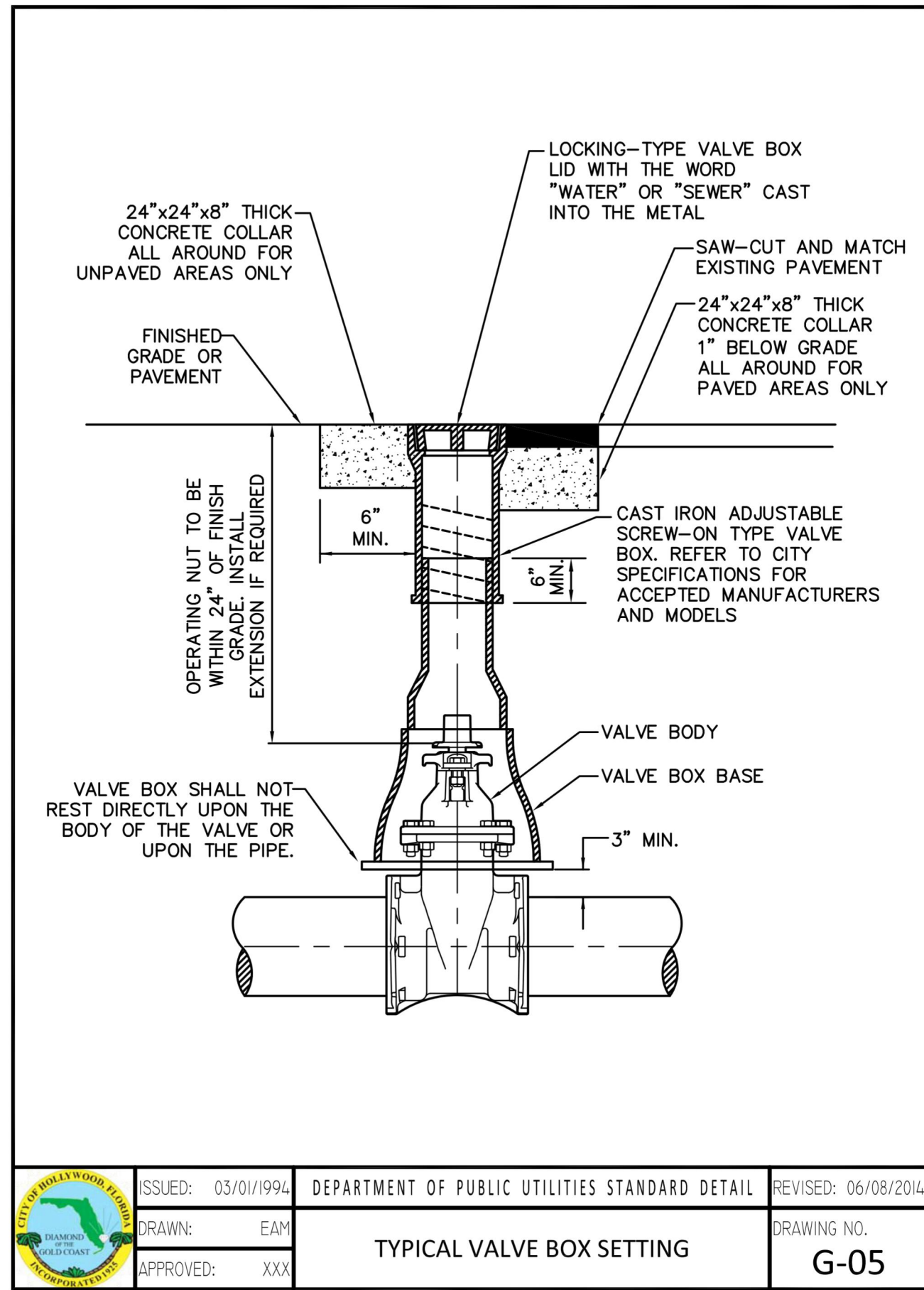
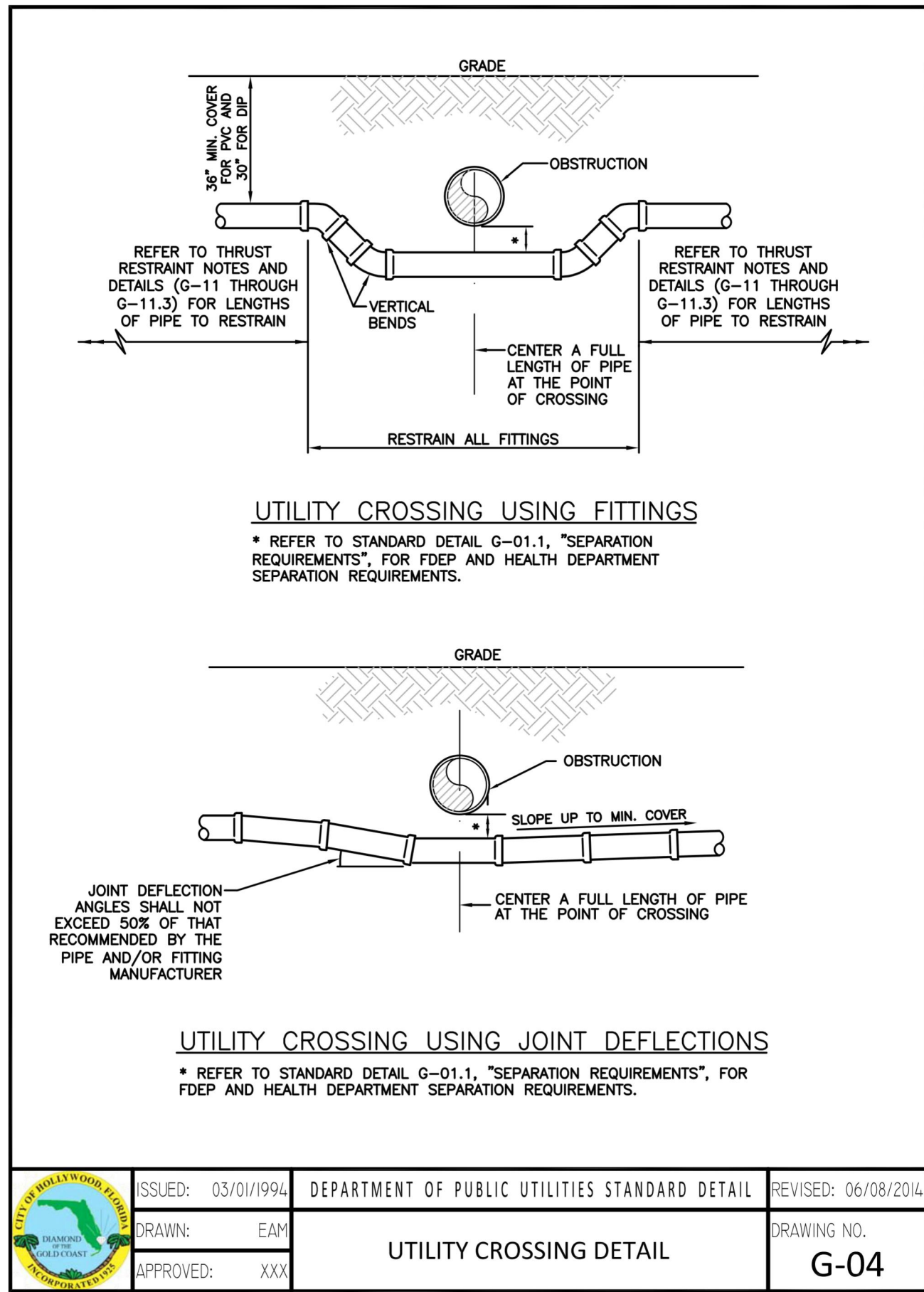
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9/16/24

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 Date: 2024.09.16
 09:44:00

Picked By: Biscotti, Somenza Street Oakwood East Multi Family Project Layout: C-451 UTILITY PLAN DETAILS September 14, 2024 05:18:16pm K:\ARB_LDEV\147507129 - Oakwood East Towers\CAD\PlanSheets\C-450 UTILITY DETAILS.dwg
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GREGORY D. WILFONG
 LICENSE No. 63166
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 PROFESSIONAL ENGINEER

UTILITY PLAN DETAILS
 OAKWOOD EAST MULTI FAMILY PROJECT

SHEET NUMBER C-451
 CITY OF HOLLYWOOD

NO.	REVISIONS	DATE	BY

Project: By: Blschoff, Sorenthals Street: Oakwood East Multi Family Project Layout: C-452 UTILITY PLAN DETAILS - September 14, 2024 - 09:18:25am - K:\NWB_LDEV\147507129 - Oakwood East Towers CAD\DrawSheets\C-452 UTILITY DETAILS.dwg
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HORIZONTAL BENDS			
PIPE DIA. (INCHES)	BEND (ANGLE)	RESTRAINED LENGTH (RL) (FT)	
		PVC	*DIP
24	11 1/2	-	-
	22 1/2	-	-
	45	-	-
16	11 1/2	-	-
	22 1/2	-	-
	45	-	-
12	11 1/2	-	-
	22 1/2	-	-
	45	-	-
8	11 1/2	-	-
	22 1/2	-	-
	45	-	-
6	11 1/2	-	-
	22 1/2	-	-
	45	-	-
4	11 1/2	-	-
	22 1/2	-	-
	45	-	-

TEES AND TAPPING SLEEVES							
RUN DIA. (INCHES)	BRANCH DIA. (INCHES)	MINIMUM RESTRAINED LENGTH ALONG RUN (FT.)		RUN DIA. (INCHES)	BRANCH DIA. (INCHES)	MINIMUM RESTRAINED LENGTH ALONG BRANCH (FT.)	
		PVC	*DIP			PVC	*DIP
24"	12"	-	-	12"	8"	-	-
	16"	-	-		6"	-	-
	12"	-	-		4"	-	-
	8"	-	-		4"	-	-
16"	12"	-	-	6"	4"	-	-
	12"	-	-		4"	-	-
	8"	-	-		4"	-	-
	6"	-	-		4"	-	-

*ALL DIP JOINT-RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

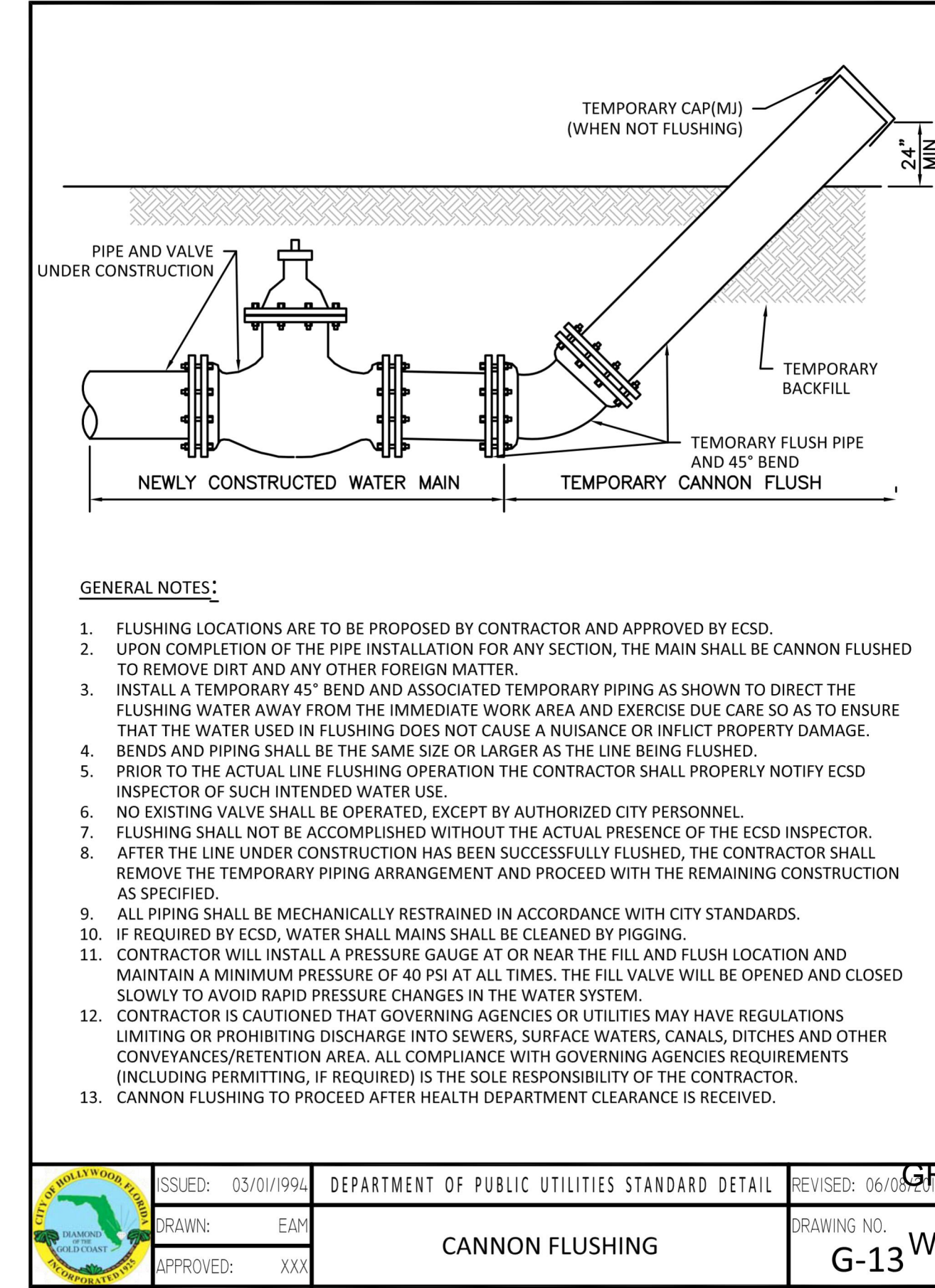
VERTICAL OFFSETS					
PIPE DIA. (INCHES)	BEND (ANGLE)	LOWSIDE DEPTH (FT)	PVC		*DIP
			RESTRAINED LENGTHS (RL) (FT.)	RL2 (FT.)	RL1 (FT.)
24	45	4	-	-	-
		5	-	-	-
		6	-	-	-
		7	-	-	-
16	45	4	-	-	-
		5	-	-	-
		6	-	-	-
		7	-	-	-
12	45	4	-	-	-
		5	-	-	-
		6	-	-	-
		7	-	-	-

*ALL DIP JOINT-RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

REDUCERS						
LARGE SIDE	SMALL SIDE	MINIMUM LENGTH TO RESTRAIN ON LARGE SIDE (FT)		LARGE SIDE	SMALL SIDE	
		PVC	*DIP			PVC
24"	16"	-	-	12"	8"	-
	12"	-	-		6"	-
	8"	-	-		4"	-
	6"	-	-		6"	-
16"	12"	-	-	8"	4"	-
	8"	-	-		2"	-
	6"	-	-		2"	-
	4"	-	-		2"	-

DEAD ENDS		
PIPE DIA. (INCHES)	MIN. RESTRAINED LENGTH (FT)	
	PVC	*DIP
24"	-	-
16"	-	-
12"	-	-
8"	-	-
6"	-	-
4"	-	-

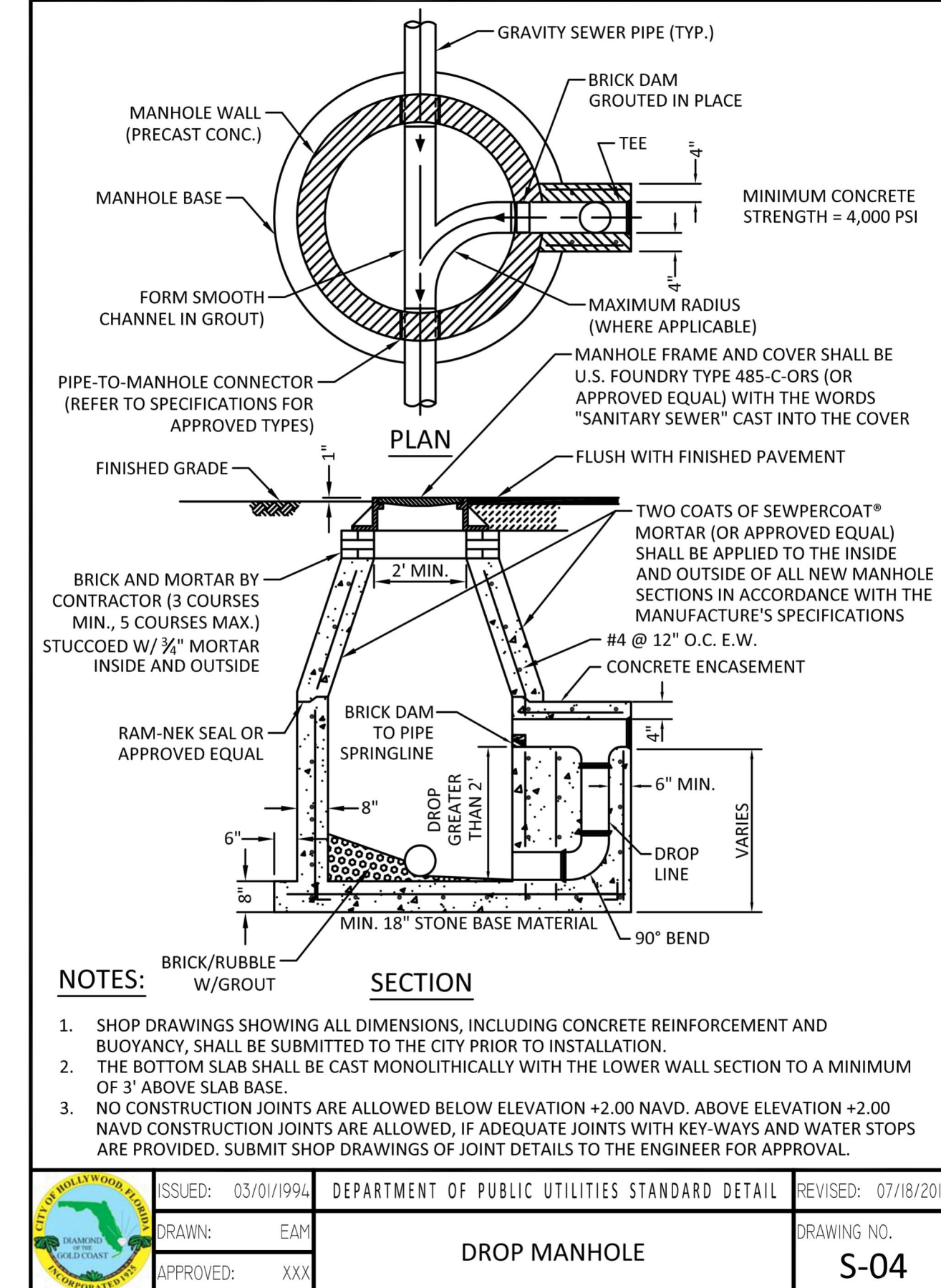
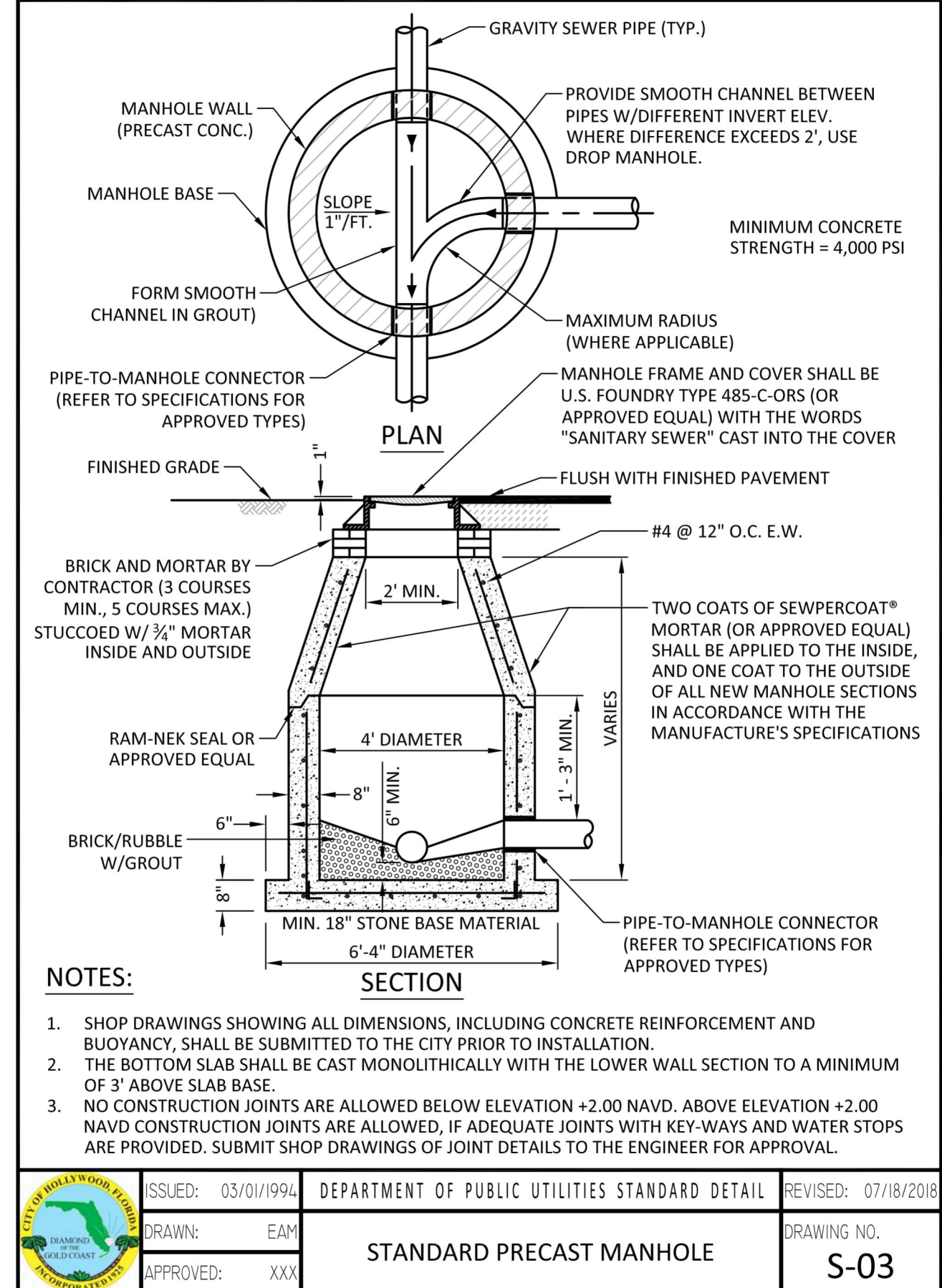
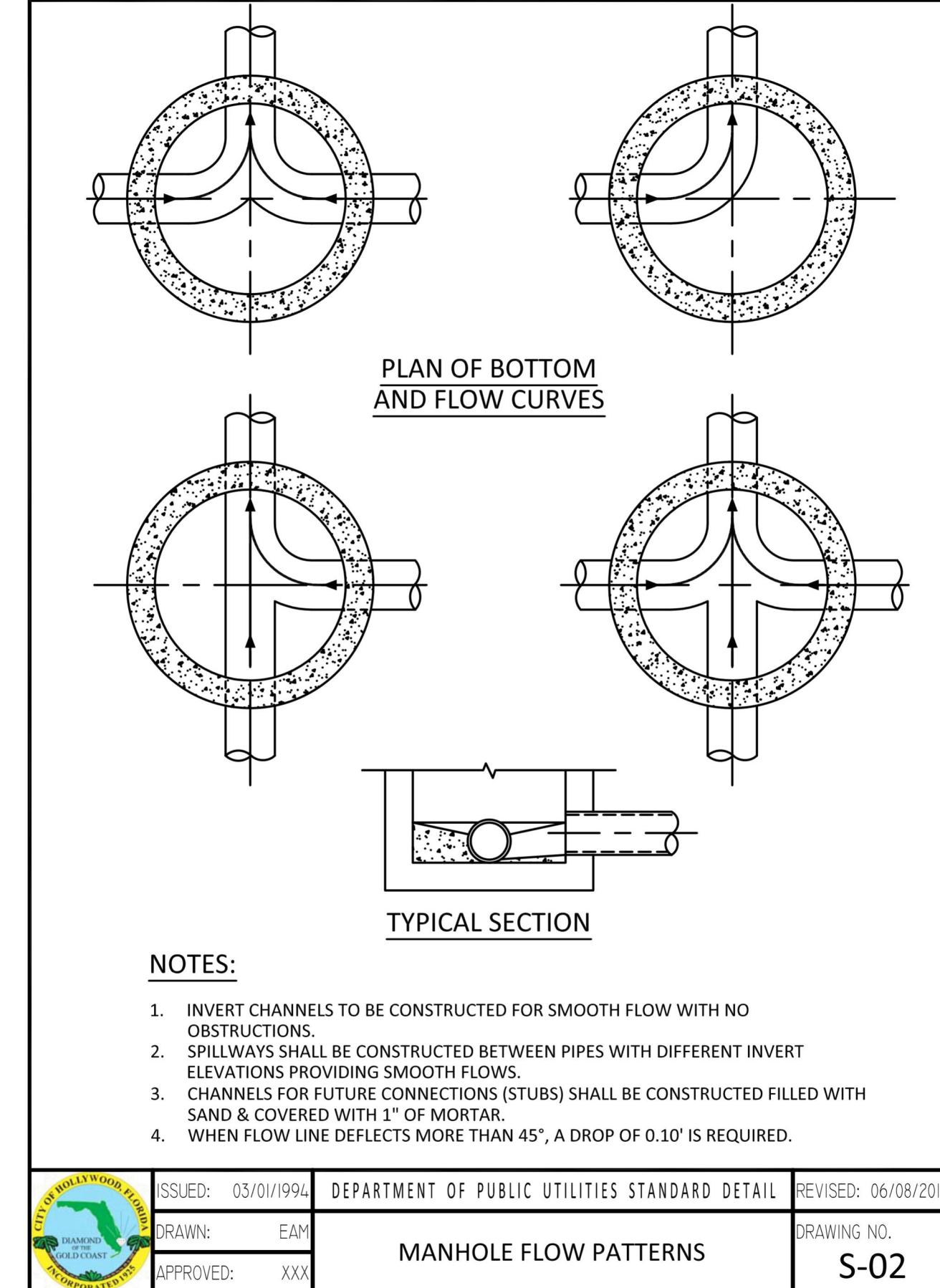
*ALL DIP JOINT-RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT



SEWER NOTES:

- THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".
- ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
- LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLE TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.
- LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN INFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING TESTED.
- FORCE MAINS SHALL BE PRESSURE-TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{S \times D \times \sqrt{P}}{148,000}$$
 WHERE:
 L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR
 D = PIPE DIAMETER IN INCHES
 S = LENGTH OF LINES IN LINEAL FEET
 P = AVERAGE TEST PRESSURE IN PSI
- CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
- WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.



Kimley Horn

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UTILITY PLAN
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CITY OF HOLLYWOOD

SHEET NUMBER
C-452