

Drawing name: K:\ORL_Civil\149170012-WaterStar Orlando\CADD\SFWMD\Plansheets\00.0-COVER.dwg CO.0 Nov 18, 2021 9:29am by: Marcus Geiger
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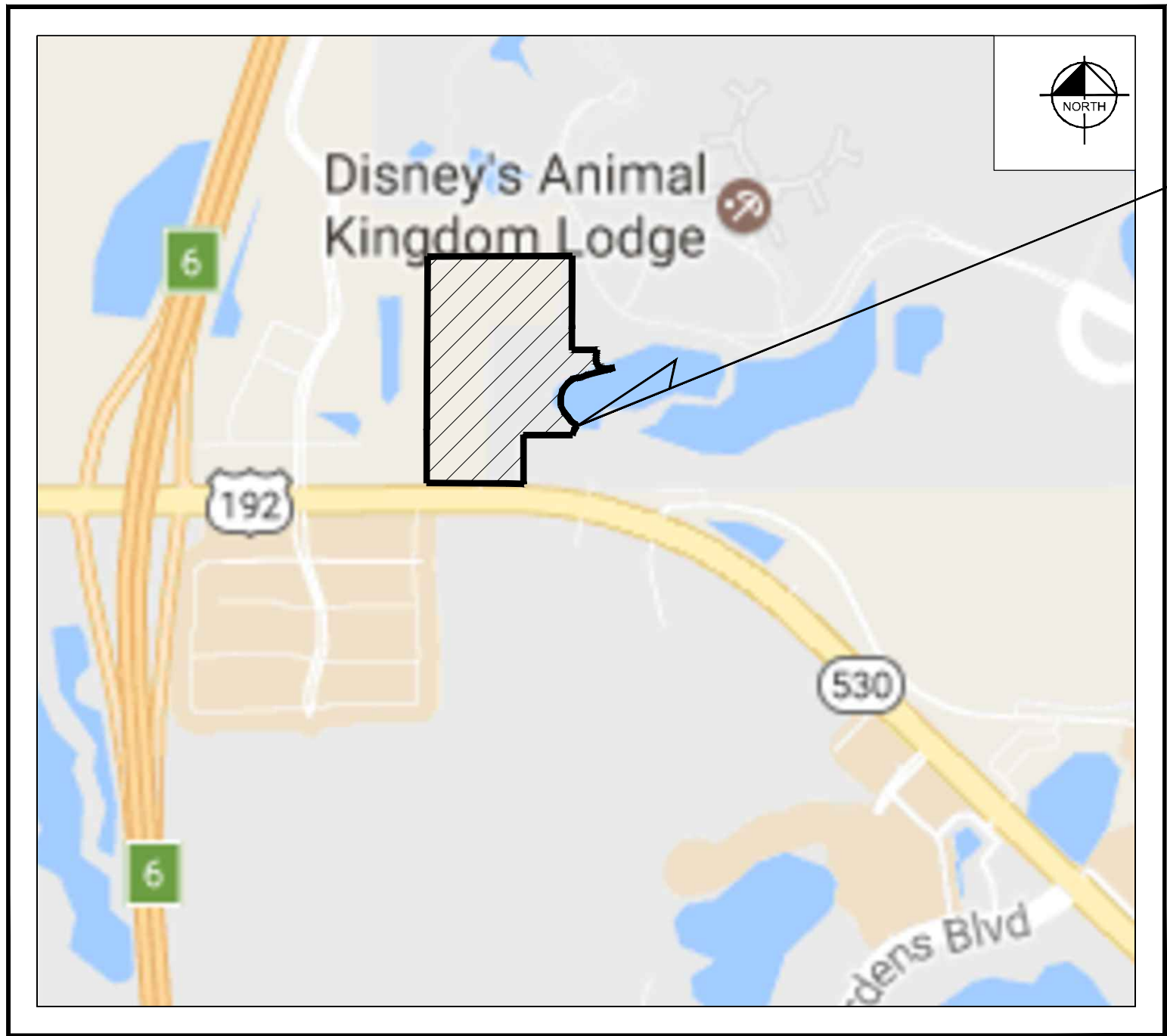
PROJECT LOCATION

LEGAL DESCRIPTION

Commence at the Southeast corner of said Section 33, Township 24 South, Range 27 East, Orange County, Florida; thence run S89°56'28"W along the South line of said Section 33, also being the centerline of State Road 530 (U.S. Highway No. 192), a distance of 994.86 feet to a point on the Southerly projection of the East line of Shoppes of West 192, according to the plat thereof as recorded in Plat Book 93, Pages 127 and 128, Public Records of Orange County, Florida; thence run N00°14'00"E along said Southerly projection, a distance of 100.00 feet to a point on the North right of way line of said State Road 530 (U.S. Highway No. 192) for the Point of Beginning; thence continue N00°14'00"E along the East line of said Shoppes of West 192 and along the East line of the lands described in Official Records Book 5526, Page 1669, Public Records of Orange County, Florida, a distance of 1568.27 feet; thence run S89°39'32"E along the South line of those lands described in said Official Records Book 5526, Page 1669, a distance of 993.64 feet; thence run S00°11'30"W along the East line of said Southeast 1/4 of Section 33, a distance of 645.61 feet; thence the next 5 courses and distances run along the Northerly boundary of Lot 1, Black Lake Village, as recorded in Plat Book 75, Pages 149 through 157, Public Records of Orange County, Florida; run S89°48'43"E, a distance of 174.19 feet to a point on a non-tangent curve, concave to the East, having a radius of 188.00 feet, thence from a radial bearing of S74°07'28"E run Southerly along the arc of said curve through a central angle of 27°46'05", an arc distance of 91.11 feet, having a chord bearing of S01°59'29"W and a chord distance of 90.22 feet to a point of compound curvature of a curve concave to the Northeast, having a radius of 50.00 feet; thence run Southeasterly along the arc of said curve through a central angle of 83°36'01", an arc distance of 72.96 feet, having a chord bearing of S53°41'34"E and a chord distance of 66.65 feet; thence run N84°30'26"E, a distance of 42.81 feet; thence run N83°15'38"E, a distance of 24.33 feet; thence departing said Northerly line of Lot 1, run the next 17 courses and distances along the Northerly and Westerly lines of Tract A of said plat of Black Lake Village: run S71°34'51"W, a distance of 34.58 feet; thence run S83°06'02"W, a distance of 20.79 feet; thence run S75°05'12"W, a distance of 123.65 feet; thence run S75°22'33"W, a distance of 16.56 feet; thence run S65°38'41"W, a distance of 42.86 feet; thence run S86°37'38"W, a distance of 27.97 feet; thence run S75°26'09"W, a distance of 31.53 feet; thence run S50°41'13"W, a distance of 44.20 feet; thence run S37°27'31"W, a distance of 59.74 feet; thence run S14°36'22"W, a distance of 54.17 feet; thence run S01°37'18"E, a distance of 56.39 feet; thence run S27°12'59"E, a distance of 51.49 feet; thence run S40°35'49"E, a distance of 40.36 feet; thence run S35°20'58"E, a distance of 41.34 feet; thence run S56°08'56"E, a distance of 33.05 feet; thence run S44°25'39"E, a distance of 16.12 feet; thence run S38°26'32"W, a distance of 25.66 feet; thence run S18°53'13"W, a distance of 44.68 feet; thence departing the Northerly and Westerly lines of Tract A, run N89°48'52"W, a distance of 338.19 feet; thence run S00°11'30"W along the West line of said Lot 1 of Black Lake Village, a distance of 334.23 feet to a point on said North right of way line of State Road 530 (U.S. Highway No. 192) and a point on a non-tangent curve, concave to the South, having a radius of 2964.79 feet; thence from a radial bearing of S02°47'26"W, run Westerly along said North right of way line and the arc of said curve, a distance of 147.44 feet, having a chord bearing of N88°38'03"W and a chord distance of 147.43 feet; thence continue S89°56'28"W along said North right of way line, a distance of 515.71 feet; thence run N00°14'00"E along the East line of Lot 1, Shoppes of West 192, per Plat Book 93, Pages 127 and 128, Public Records of Orange County, Florida, a distance of 370.00 feet; thence run S89°56'28"W along the North line of said Lot 1, a distance of 271.95 feet; thence run S00°13'46"W along the West line of said Lot 1, a distance of 370.00 feet; thence run S89°56'28"W along said North right of way line of State Road 530 (U.S. Highway No. 192), a distance of 60.00 feet to the Point of Beginning.

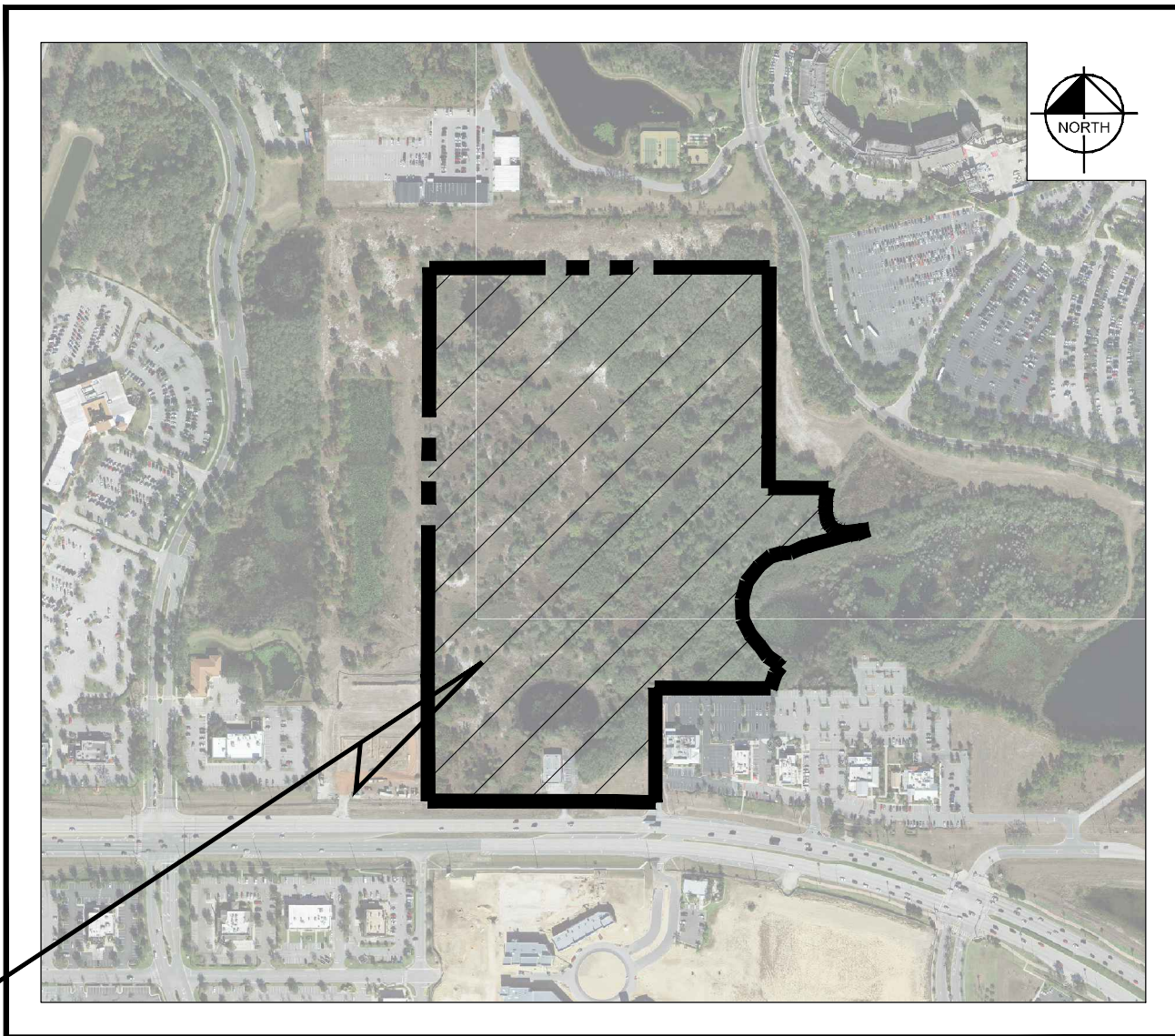
Contains 33.638 acres, more or less.

RCID / SFWMD
STORMWATER CONSTRUCTION PLANS
FOR
WATERSTAR ORLANDO
WATERSTAR ORLANDO PD
PARCEL ID#s
34-24-27-1000-01-001, 33-24-27-0000-00-006
33-24-27-0000-00-010, 33-24-27-0000-00-011,
33-24-27-0000-00-012, 33-24-27-0000-00-024,
33-24-27-0000-00-025, 33-24-27-0000-00-026, & 33-24-27-0000-00-027
ORANGE COUNTY, FLORIDA
NOVEMBER 18, 2021



SECTION 34, TOWNSHIP 24S, RANGE 27E
LOCATION MAP

N.T.S.



AERIAL PHOTOGRAPH
N.T.S.

SITE

SITE

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C0.0	COVER
C1.0 - C1.1	GENERAL NOTES
C2.0	SWPPP NOTES
C2.1	EROSION CONTROL DETAILS
C3.0	STORMWATER POLLUTION PREVENTION PLAN
C3.1 - C3.2	EXISTING CONDITIONS AND DEMOLITION PLAN
C4.0	OVERALL SITE PLAN
C4.1	PHASING PLAN
C5.0	OVERALL PAVING, GRADING, AND DRAINAGE PLAN
C5.1	DRAINAGE STRUCTURE INDEX
C5.2 - C5.3	DRAINAGE PLANS
C6.1 - C6.2	PAVING AND GRADING PLANS
C7.0	GENERAL CONSTRUCTION DETAILS
C7.1	CONTROL STRUCTURE DETAILS
C8.0 - C8.3	PAVE DRAIN SPECIFICATIONS & DETAILS
C9.0 - C9.1	SECTIONS
S-1	TOPOGRAPHIC AND BOUNDARY SURVEY

PROJECT TEAM

OWNER/DEVELOPER:
WATERSTAR ORLANDO, LLC
630 SOUTH MAITLAND AVE., SUITE 100
MAITLAND, FL 32751
CONTACT : RYAN STAHL
PHONE: (407) 628-0077
EMAIL: rstahl@equinox-development.com

SURVEYOR:
SHANNON SURVEYING, INC.
499 NORTH S.R. 434, SUITE 2045
ALTAMONTE SPRINGS, FL 32714
CONTACT: JAMES R. SHANNON, P.L.S.
PHONE: (407) 774-8372
EMAIL: shannosurv@aol.com

CIVIL ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
189 S. ORANGE AVENUE, SUITE 1000
ORLANDO, FL 32801
CONTACT: JONATHAN A. MARTIN, P.E.
MARCUS I. GEIGER, P.E.
PHONE: (407) 898-1511
EMAIL: jonathan.martin@kimley-horn.com
marcus.geiger@kimley-horn.com

LANDSCAPE ARCHITECT:
KIMLEY-HORN AND ASSOCIATES, INC.
189 S. ORANGE AVENUE, SUITE 1000
ORLANDO, FL 32801
CONTACT: MILTON S. MINGONET, P.E.
PHONE: (407) 898-1511
FAX: (407) 894-4791
EMAIL: scott.mingonet@kimley-horn.com

UTILITY PROVIDERS

WATER/SEWER / RECLAIMED WATER:
TOHO WATER AUTHORITY
951 MARTIN LUTHER KING BLVD
KISSIMMEE, FL 34741
CONTACT: RAY BIRON
PHONE: (407) 944-5000

CABLE:
CHARTER COMMUNICATIONS
3767 ALL AMERICAN BLVD.
ORLANDO, FL 32810
CONTACT: MARVIN USRY
PHONE: (407) 532-8509
FAX: (407) 656-1162

POWER:
DUKE ENERGY
1150 ORANGE AVENUE
WINTER PARK, FL 32789
PHONE: (407) 629-1010

TELEPHONE:
AT&T
450 N. GOLDENROD ROAD
ORLANDO, FL 32807
CONTACT: BROOKE HALL
PHONE: (407) 351-78100
FAX: (407) 246-8169

GAS:
TECO/PEOPLES GAS
600 W. ROBINSON STREET
ORLANDO, FL 32801
CONTACT: BRUCE STOUT
PHONE: (407) 420-2678

PREPARED BY
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MARCUS I. GEIGER, P.E.
FL P.E. # 89199

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Plotted By: Geiger, Marcus Sheet Set: SF\WAD Layout: C1.1 November 18, 2021 09:29:31am 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.

- F.D.O.T. RIGHT-OF-WAY WORK GENERAL NOTES
1. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

2. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.

3. ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED.

4. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.

5. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN ON PLANS.

6. THE CONTRACTOR SHALL REMOVE ANY ORGANIC AND PLASTIC MATERIAL ENCOUNTERED IN THE FIELD IN ACCORDANCE WITH FDOT 2019/2020 STANDARD PLANS INDEX 120-002. COST OF REMOVAL OF ORGANIC AND PLASTIC MATERIAL AND BACKFILL OF SUITABLE MATERIAL IN ACCORDANCE WITH FDOT 2019/2020 STANDARD PLANS INDEX 120-001 SHALL BE INCLUDED IN THE COST OF REGULAR EXCAVATION.

7. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

8. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

9. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, DURING STANDARD 'BUSINESS HOURS', A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.

10. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND PROTECT EXISTING UTILITY FACILITIES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH UTILITY OWNERS.

11. ALL MAINTENANCE OF TRAFFIC (MOT) ITEMS REQUIRED IN ACCORDANCE WITH FDOT 2019/2020 STANDARD PLANS INDEX '102-' SERIES INDICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED TO PROPERLY MAINTAIN TRAFFIC AND ADDRESS DROP OFF CRITERIA IN THE WORK ZONE.

12. NO LANES CLOSED BETWEEN THE HOURS OF 7:00 AM TO 8:00 PM.

13. THE EXISTING POSTED SPEED LIMIT ON US 192 / SR-530 WILL REMAIN DURING ALL PHASES OF CONSTRUCTION.

14. ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED BY THE CONTRACTOR PER INDEX 600 AND WHEN THE CONFLICT NO LONGER EXISTS THE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC.

15. IF ONLY FDOT 2019/2020 STANDARD PLANS INDEX (SUCH AS #'S. 102-600, 102-611, 102-612, 102-613, 102-616, 102-660, ETC.) WILL BE USED, THEN THE CONTRACTOR WILL NOT BE REQUIRED TO PROVIDE SIGNED AND SEALED MAINTENANCE OF TRAFFIC (M.O.T.) PLANS. IF THE CONTRACTOR REQUIRES M.O.T. PLANS OTHER THAN THE 2019/2020 STANDARD PLANS INDICES, THEN THE CONTRACTOR WILL HAVE TO SUBMIT SIGNED AND SEALED PLANS TO FDOT FOR REVIEW AND APPROVAL.

16. MAINTENANCE OF TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT 2019/2020 STANDARD PLANS INDEX, 2018 FDOT DESIGN MANUAL (FDM), THE STANDARD'S SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (ED. 2017), AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (ED. 2009 AND 2012 SUPPLEMENT) AS A MINIMUM.

17. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF TRANSPORTATION A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO CLOSING ANY LANES OR BEGINNING ANY CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY.

18. TEST RESULTS OF ANY TESTS TAKEN FOR OR DURING CONSTRUCTION OF THE PERMITTED WORK SHALL BE PROVIDED TO THE FDOT UPON REQUEST.

19. IF THE DEPARTMENT DETERMINES THAT AS-BUILT CONDITIONS VARY SIGNIFICANTLY FROM APPROVED PLANS, THE PERMITTEE OR THE PERMITTEE'S CONTRACTOR SHALL PROVIDE AS-BUILT PLANS, ALONG WITH A RECORD DRAWINGS REPORT BY PERMITTEE'S PROFESSIONAL ENGINEER, FORM 850-040-19, WITHIN 30 DAYS OF COMPLETING CONSTRUCTION.

20. ALL DISTURBED AREAS WITHIN FDOT RIGHT-OF-WAY MUST BE SODDED ONLY WITH COMMON BERMUDA SOD.

21. CONTRACTORS CERTIFICATE OF LIABILITY INSURANCE MUST BE ISSUED PRIOR TO STARTING CONSTRUCTION IN FDOT RIGHT-OF-WAY.

22. MAINTENANCE OF TRAFFIC:

a. FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF, AND SIGNED AND SEALED BY, A LICENSED FLORIDA PROFESSIONAL ENGINEER WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED PER FDOT PROCEDURE, TOPIC NO. 625-010-010.

b. FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625-010-010.

c. ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR THE FOLLOWING FACILITIES SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING POSTED SPEEDS AS STATED FOR ALL TRAFFIC CONTROL PHASES: US-192 (SR-530) - 50 MPH

23. ALL WORK PERFORMED WITHIN FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH FDOT 2019/2020 STANDARD PLANS INDEX, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (ED. 2017), AND THE UTILITY ACCOMMODATION MANUAL (ED. 2017).

24. IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO FDOT FACILITIES CAUSED BY CONSTRUCTION OF THE PROJECT.

25. ALL SIDEWALK CLOSURES SHALL ABIDE TO THE STANDARD PROCEDURES PER FDOT 2019/2020 STANDARD PLANS INDEX 102-660.

26. ALL CONCRETE SIDEWALKS SHALL BE CONSTRUCTED PER FDOT 2019/2020 STANDARD PLANS INDEX 522-001 & 522-002.

27. ALL ROADWAY SIGNAGE AND/OR SIGNAGE COLUMNS/POSTS LOCATED WITHIN RIGHT-OF-WAY IMPACTED BY PROPOSED IMPROVEMENTS SHALL BE ADJUSTED AND/OR RE-INSTALLED IN ACCORDANCE WITH 2019/2020 STANDARD PLANS INDEX AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (ED. 2017).
- CONTRACTOR'S AS-BUILT

1. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION, CERTIFIED BY A LICENSED LAND SURVEYOR CURRENTLY REGISTERED IN THE STATE OF FLORIDA. AT A MINIMUM, THIS "AS-BUILT" INFORMATION SHALL INCLUDE: TOP OF PIPE/INVERT ELEVATIONS AND HORIZONTAL LOCATIONS OF ALL WATER, SANITARY SEWER, AND RECLAIM WATER UTILITIES INSTALLED (AS APPLICABLE); PAVEMENT GRADE BREAK LOCATIONS AND SUFFICIENT ELEVATIONS OF FINISHED GRADE SURFACES WHICH ALLOW THE ENGINEER TO DETERMINE COMPLIANCE WITH THE PROPOSED DESIGN; TOP, GRATE, & INVERT ELEVATIONS OF THE STORMWATER COLLECTION SYSTEM, INCLUDING THE POND GRADES (TOP, BANK, BOTTOM), POND CONTROL STRUCTURE, & SWALES; ANY IMPROVEMENTS WITHIN FDOT OR COUNTY RIGHT-OF-WAYS.

2. THE DIGITAL "AS-BUILT" FILE, PROVIDED IN AUTOCAD .DWG FORMAT, SHALL ALSO BE PROVIDED IN THE FLORIDA STATE PLANE COORDINATE SYSTEM. NO ENGINEER'S CERTIFICATIONS OF COMPLETION OR REQUESTS FOR FINAL ACCEPTANCE WILL BE SUBMITTED UNTIL THIS INFORMATION HAS BEEN RECEIVED AND APPROVED BY THE OWNER'S ENGINEER.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com
- WATERSTAR
ORLANDO

ORANGE COUNTY

FLORIDA

GENERAL NOTES

KHA PROJECT
149170012

DATE
SEPT 2021

SCALE
AS SHOWN

DESIGNED BY
RJO

DRAWN BY
ATE

CHECKED BY
JAM

LICENSED PROFESSIONAL
MARCUS I. GEIGER, P.E.

FLORIDA LICENSE NUMBER
89199

DATE: _____

Kimley»Horn

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PHONE: 407-898-1511
WWW.KIMLEY-HORN.COM CA 00000696

REVISIONS

No.

DATE

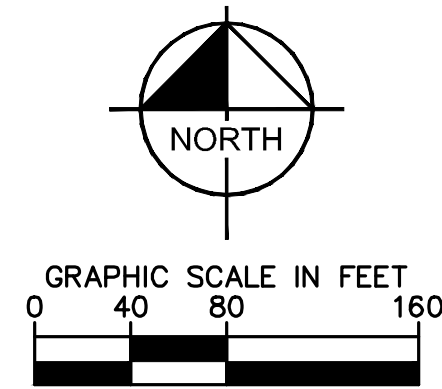
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SHEET NUMBER
C1.1

Plotted By:Gaiger, Marcus
Sheet Set:SFMD
Layout:C2.0
November 18, 2021
09:29:41 am
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1. PRIOR TO THE START OF LAND DISTURBING ACTIVITIES, WHICH INCLUDES DEMOLITION, EARTHWORK AND/OR CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A SWPPP FOR REVIEW AND APPROVAL. THE DEVELOPER/CONTRACTOR SHALL OBTAIN A PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) PURSUANT TO THE REQUIREMENTS OF 62-621.300(4)(A) F.A.C. A COPY OF THE NOI SHALL BE SUBMITTED TO THE ORANGE COUNTY ENVIRONMENTAL PROTECTION DIVISION (EPCD) WITHIN 7 DAYS OF THE SWPPP, NOI, AND FDEP ACKNOWLEDGMENT LETTER ARE TO BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE UPON REQUEST. UPON COMPLETION OF ALL LAND DISTURBING ACTIVITIES AND AFTER FINAL STABILIZATION OF THE SITE IS COMPLETED, THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO FDEP A NOTICE OF TERMINATION (NOT) TO END THEIR COVERAGE UNDER THE CGP AND PROVIDE A COPY OF THE NOT TO OC EPCD.
2. THE SITE SHALL BE STABILIZED FOLLOWING CLEARING, GRUBBING, EARTH WORK OR MASS GRADING TO ESTABLISH A DENSE STAND OF GRASS, OR SHALL INCORPORATE OTHER APPROVED BEST MANAGEMENT PRACTICES, ON 70% OF THE DISTURBED AREAS IF DEVELOPMENT ACTIVITY BEGINS WITHIN 7 DAYS. FINAL STABILIZATION SHALL ACHIEVE 100% COVERAGE AND A MINIMUM OF 70% DENSITY OF THE DISTURBED LAND AREA AND SHALL INCLUDE A MAINTENANCE PROGRAM TO ENSURE MINIMUM COVERAGE SURVIVAL AND OVERALL SITE STABILIZATION UPON SITE DEVELOPMENT.
3. DISCHARGE OF GROUNDWATER FROM DETERIORATING OPERATIONS REQUIRES A PERMIT FROM FDEP AND THE APPLICABLE WATER MANAGEMENT DISTRICT. THE DEVELOPER/CONTRACTOR SHALL OBTAIN AND FDEP GENERIC PERMIT FOR THE DISCHARGE OF GROUND WATER FROM DETERIORATING OPERATIONS PURSUANT TO THE REQUIREMENTS OF 62-621.300(2)(A) AND 62-620 F.A.C. AND FLORIDA STATUTES CHAPTER 403. DOWNGRADES OVERDRAINING THE COUNTY'S ORANGE COUNTY ORANGE COUNTY RIGHT-OF-WAY UTILIZATION PERMIT FOR DETERIORATING PRIOR TO THE START OF ANY DISCHARGES. TO OBTAIN RIGHT-OF-WAY APPROVAL, COPIES OF THE FDEP PERMIT, NOI, DOCUMENTATION SHOWING DETERIORATING AT THE SITE IS REQUIRED, AND 500 FEET BUFFER ZONE AROUND THE DETERIORATING AND SHALL BE SUBMITTED TO ALEXIS CLARK, ORANGE COUNTY ENVIRONMENTAL PROTECTION DIVISION (407-836-1433) AND ORANGE COUNTY PUBLIC WORKS DEVELOPMENT AND MAINTENANCE DEPARTMENT. A DOWNGRADE PERMIT FOR GROUNDWATER MAY BE REQUESTED BY ORANGE COUNTY ON A CASE-BY-CASE BASIS TO CONFIRM SITE CONTAMINATION STATUS.
4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY IN ACCORDANCE WITH FLORIDA ADMINISTRATIVE CODE 62-621.300(2) AND 62-620, AND FLORIDA STATUTES CHAPTER 403.
5. PRIOR TO ANY PLAN APPROVAL, A LETTER OF CREDIT OR CASH ESCROW SHALL BE SUBMITTED TO THE COUNTY TO GUARANTEE THE REQUIRED SITE STABILIZATION MAINTENANCE PROGRAM TO BE ACHIEVED. THE COUNTY ENGINEER'S COST ESTIMATE TO ESTABLISH AND MAINTAIN A DENSE STAND OF GRASS OVER THE MINIMUM 70% COVERAGE OF THE DISTURBED LAND AREA.
6. THE RIGHT-OF-WAY AND ADJACENT PROPERTIES SHALL BE RESTORED TO EQUAL OR BETTER CONDITIONS.
7. PROVIDE A 6 FOOT HIGH SCREEN FENCE FOR SOOT ABATEMENT ON ALL PROPERTY LINES ADJACENT TO PUBLIC ROADS.
8. ALL TREES ARE TO BE REMOVED FROM THE SITE. REFER TO TREE MITIGATION PLAN SHEETS.

1. REFER TO SWPPP SHEETS C2.0 & C2.1 FOR ADDITIONAL NOTES & DETAILS.
2. INSTALL AND MAINTAIN SILT FENCE AT LIMITS OF CONSTRUCTION. SEE DETAIL, SHEET C2.1.
3. INSTALL AND MAINTAIN TURBIDITY BARRIERS AROUND LIMITS OF POND IMPACTS AND CONTROL STRUCTURES. SEE DETAIL, SHEET C2.1.
4. PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT ALL CONSTRUCTION ACCESS POINTS. SEE DETAIL, SHEET C2.1.
5. UTILIZE PERFORATED SOCK DRAIN (OR EQUIVALENT) IN FRONT OF EXISTING/PROPOSED CURB INLETS ADJACENT TO CONSTRUCTION ACTIVITIES AND ALONG UNIVERSAL BLVD.
6. INSTALL AND MAINTAIN FILTER FABRIC UNDER GRATES OF EXISTING AND/OR PROPOSED INLETS DURING CONSTRUCTION ACTIVITIES.
7. PROVIDE TREE PROTECTION BARRIERS AROUND ALL EXISTING TREES LOCATED ON-SITE WHICH ARE DESIGNATED TO BE PRESERVED. REFER TO LANDSCAPE PLANS FOR TREES TO REMAIN AND PROTECTIONS DETAILS/NOTES.

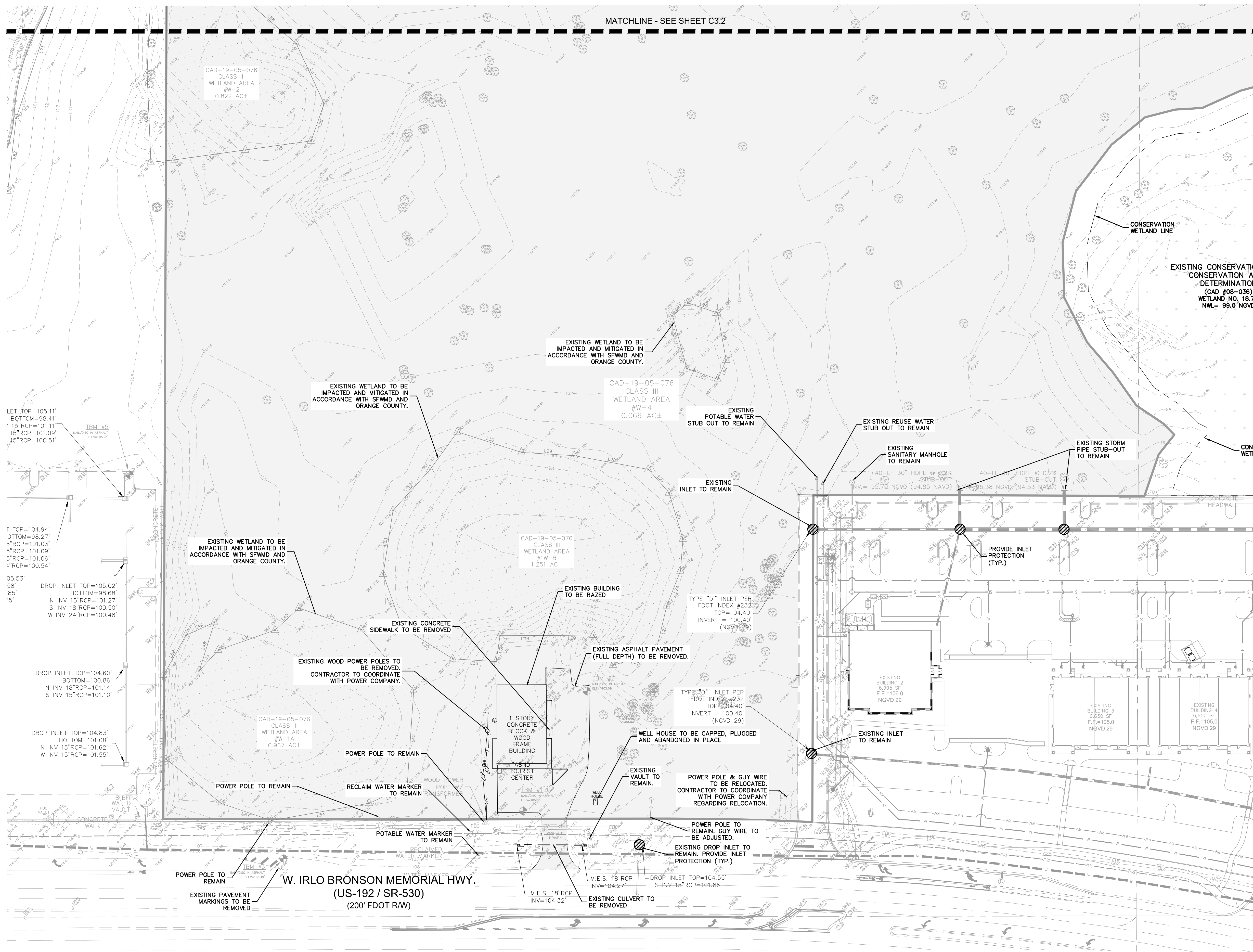
1. ELEVATIONS SHOWN PER NAVD 88. REFER TO SURVEY FOR ADDITIONAL DETAILS AND BENCHMARKS.

- Always call 811 two full business days before you dig to have underground utilities located and marked.
- Sunshine811.com**

**WATERSTAR
ORLANDO**

SHEET NUMBER
C3.0

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NOTES:

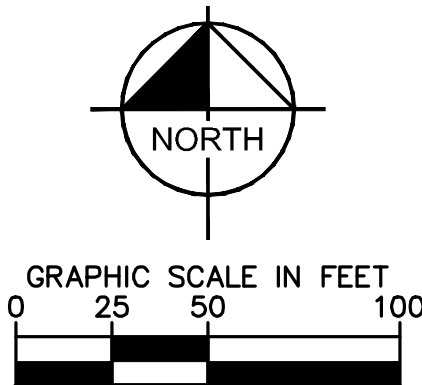
1. PRIOR TO THE START OF LAND DISTURBING ACTIVITIES, WHICH INCLUDES DEMOLITION, EARTHWORK AND/OR CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A NOTICE OF INTENT (NOI) TO OBTAIN COVERAGE UNDER THE FDEP'S GENERIC PERMIT FOR TEMPORARY DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) PURSUANT TO THE REQUIREMENTS OF 62-621.300(4)(A) F.A.C. A COPY OF THE NOI SHALL BE SUBMITTED TO THE ORANGE COUNTY ENVIRONMENTAL PROTECTION DIVISION (OC EPD). COPIES OF THE NOI, NOI, AND FDEP ACTION PLAN, LETTER, AND NOI TO BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE UPON REQUEST. UPON COMPLETION OF ALL LAND DISTURBING ACTIVITIES AND AFTER FINAL STABILIZATION OF THE SITE IS COMPLETE, THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO FDEP A NOTICE OF DISCONTINUANCE TO END THEIR COVERAGE UNDER THE CGP AND PROVIDE A COPY OF THE NOI TO OC EPD.
2. THE SITE SHALL BE STABILIZED FOLLOWING GRASS CLEARING, GRUBBING, EARTH WORK OR MAJOR GRADING TO ESTABLISH A DENSE SOIL OF GRASS, OR SHALL INCORPORATE OTHER APPROVED BEST MANAGEMENT PRACTICES, ON ALL DISTURBED AREAS IF DEVELOPMENT DOES NOT BEGIN WITHIN 7 DAYS. FINAL STABILIZATION SHALL ACHIEVE 100% COVERAGE AND A MINIMUM OF 70% DENSITY OF THE DISTURBED LAND AREA. STABILIZATION SHALL INCLUDE MAINTENANCE OF THE COVER TO ENSURE THE COVER SURVIVAL AND OVERALL SITE STABILIZATION UNTIL SITE DEVELOPMENT.
3. DISCHARGE OF GROUNDWATER FROM Dewatering OPERATIONS REQUIRES APPROVAL FROM FDEP AND THE APPLICABLE WATER MANAGEMENT DISTRICT. THE DEVELOPER/CONTRACTOR SHALL OBTAIN AND FDEP GENERIC PERMIT FOR THE DISCHARGE OF GROUND WATER FROM Dewatering OPERATIONS PURSUANT TO THE REQUIREMENTS OF 62-621.300(2)(A) AND 62-620 F.A.C. AND FLORIDA STATUTES 403-407. ANY DISCHARGES DIRECTED TO THE COUNTY'S M54 REQUIRE AN ORANGE COUNTY RIGHT-OF-WAY UTILIZATION PERMIT FOR Dewatering PRIOR TO THE START OF ANY DISCHARGE. TO OBTAIN RIGHT-OF-WAY APPROVAL, COPIES OF THE FDEP PERMIT, NOI, DOCUMENTATION SHOWING Dewatering AT THE SITE IS NOW WITHIN 50 FT OF HIGH VOLTAGE TRANSMISSION LINES AND A Dewatering PLAN SHALL BE SUBMITTED TO ALEXIS CLARK, ORANGE COUNTY ENVIRONMENTAL PROTECTION DIVISION (407-836-1433) AND ORANGE COUNTY PUBLIC WORKS DEVELOPMENT ENGINEERING PERMITTING SECTION. ANALYTICAL SAMPLING OF GROUNDWATER MAY BE REQUESTED BY ORANGE COUNTY ON A CASE-BY-CASE BASIS TO CONFIRM SITE CONTAMINATION STATUS.
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7. PROVIDE A 6 FOOT HIGH SCREEN FENCE FOR DUST ABATEMENT ON ALL PROPERTY LINES ADJACENT TO ROADS.
8. NOT ALL TREES SHOWN, CONTRACTOR TO REMOVE ALL TREES ON-SITE UNLESS NOTED OTHERWISE. REFER TO TREE MITIGATION PLANS FOR DETAILS.
- * ALL INFRASTRUCTURE AND UTILITIES WITHIN THIS AREA SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED THERE MAY BE UNDERGROUND UTILITIES WITHIN THE AREA TO BE DEMOLISHED SUCH AS IRRIGATION, SANITARY SEWER, POTABLE WATER LINES, ELECTRIC, GAS LINES AND CABLE LINES. CONTRACTOR TO LOCATE AND REMOVE THESE ACCORDINGLY.

LEGEND

☐ AREA TO BE CLEARED AND GRUBBED
UNLESS OTHERWISE NOTED

Always call 811 two full business days before you dig to have underground utilities located and marked.

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[illegible]

Kimley»»Horn

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189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801
PHONE: 407-898-1511
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL

MARCUS I. GEIGER, P.E.

FLORIDA LICENSE NUMBER
89199

KHA PROJECT
149170012DATE
SEPT 2021

SCALE AS SHOWN

DESIGNED BY RJC

DRAWN BY	AFEL
CHECKED BY	JAN

EXISTING CONDITIONS AND DEMOLITION PLAN

WATERSTAR
ORLANDO

ORANGE COUNTY
FLORIDA

SHEET NUMBER
C3.1

Plotted By: Gaiser, Marcus Sheet Set: SFWMD Layout: C3.2 November 18, 2021 09:30:45pm K:\ORL_CWA\149170012-WaterStar Orlando\CADD\SFWMD\PlanSheets\C3.1-EX-COND.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.



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LEGEND

AREA TO BE CLEARED AND GRUBBED UNLESS OTHERWISE NOTED

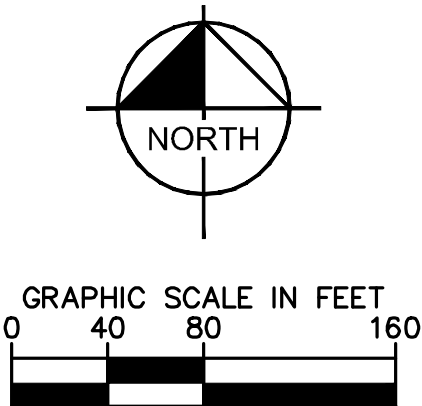
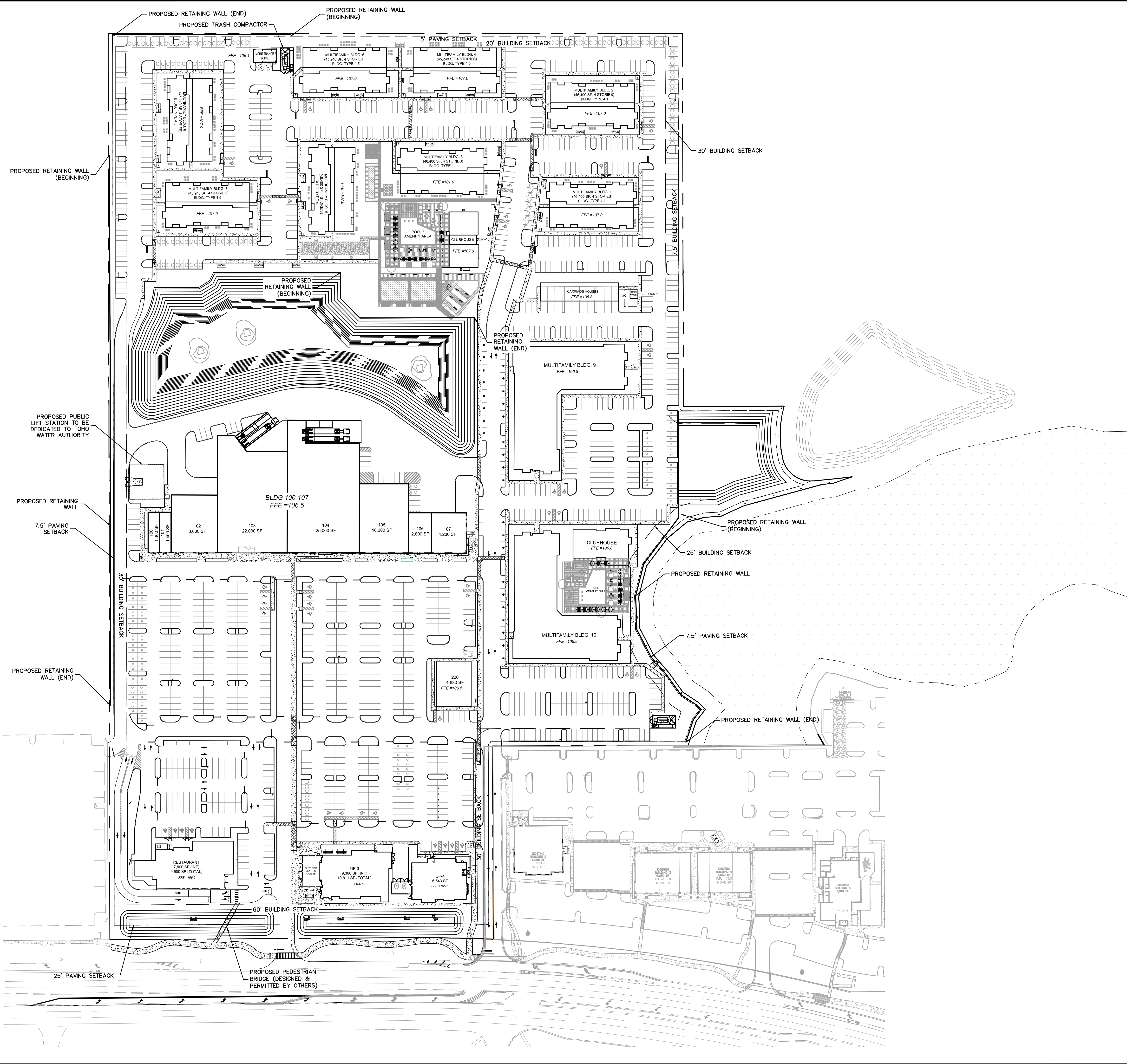
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KHA PROJECT 149170012		DATE SEPT 2021		LICENSED PROFESSIONAL MARCUS I. GEIGER, P.E.	Kimley»Horn © 2021 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 PHONE: 407-898-1511 WWW.KIMLEY-HORN.COM CA 00000696
SCALE AS SHOWN	DESIGNED BY RJO	DRAWN BY AFE	CHECKED BY JAM	FLORIDA LICENSE NUMBER 89199	
SHEET NUMBER C3.2		ORANGE COUNTY		REVISIONS	
				No.	
				DATE	BY

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OVERALL SITE DATA:

PROJECT AREA:	33.64 ACRES
ZONING:	PD
FUTURE LAND USE:	PD COMMERCIAL/GROWTH CENTER OVERLAY
PROPOSED USE:	MIXED-USE

BUILDING SETBACKS

FRONT:	60 FT
REAR:	20 FT
SIDE:	30 FT
SIDE STREET:	N/A
INTERNAL LOT:	0 FT***

REQUIRED

PAVING SETBACKS

FRONT:	25 FT
REAR:	5 FT
SIDE:	7.5 FT
SIDE STREET:	N/A
INTERNAL LOT:	0 FT

REQUIRED

AREA CALCULATIONS

TOTAL SITE AREA	33.64 AC
MAXIMUM ALLOWABLE IMPERVIOUS AREA (80%):	26.91 AC
PERVIOUS AREA:	6.762 AC (20.10%)
IMPERVIOUS AREA	18.87 AC
ASPHALT/CONCRETE AREA:	5.78 AC
PROPOSED ROOF AREA:	24.65 AC (72.8%)
TOTAL IMPERVIOUS AREA	

POND SURFACE AREA AT NWL:	1.56 AC (4.6%)
---------------------------	----------------

ON-SITE VEGETATION:

ON-SITE VEGETATION CURRENTLY SUPPORTS TEN (10) LAND SUE TYPES/VEGETATION COMMUNITIES.REFER TO BIO TECH ENVIRONMENTAL ASSESSMENT FOR IN DEPTH VEGETATIVE SPECIES LIST.

PHASING:

DEVELOPMENT WILL BE CONSTRUCTED IN MULTIPLE PHASES.

UTILITY SERVICE:

THE DEVELOPER SHALL OBTAIN WATER, WASTEWATER AND RECLAIM SERVICE FROM TOHO WATER AUTHORITY (TWA).

STORMWATER MANAGEMENT:

STORMWATER RUNOFF FROM THE PROPOSED SITE WILL BE MANAGED BY PROPOSED PERVIOUS PAVERS, WET DETENTION POND, AND DRY RETENTION POND TO PROVIDE THE REQUIRED TREATMENT (QUALITY) AND ATTENUATION (QUANTITY) VOLUMES. THE STORMWATER MANAGEMENT SYSTEMS ARE DESIGNED TO MEET OR EXCEED ALL THE REQUIREMENTS OF REEDY CREEK IMPROVEMENT DISTRICT (ROD), THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), AND ORANGE COUNTY, FL.

DURING MASS GRADING ACTIVITIES, THE PROPOSED PONDS WILL PROVIDE 1" TOTAL VOLUME OVER BASIN AREA AND REDUCE POST-DEVELOPMENT PEAK DISCHARGE RATES.

FLOOD ZONE:

BASED ON FEMA FLOOD MAPS 12095C0580F, DATED SEPTEMBER 25, 2009 SHOWS THE SITE LOCATED IN ZONE "X" AND ZONE "D".

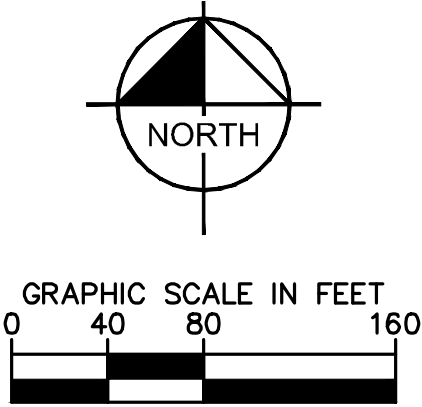
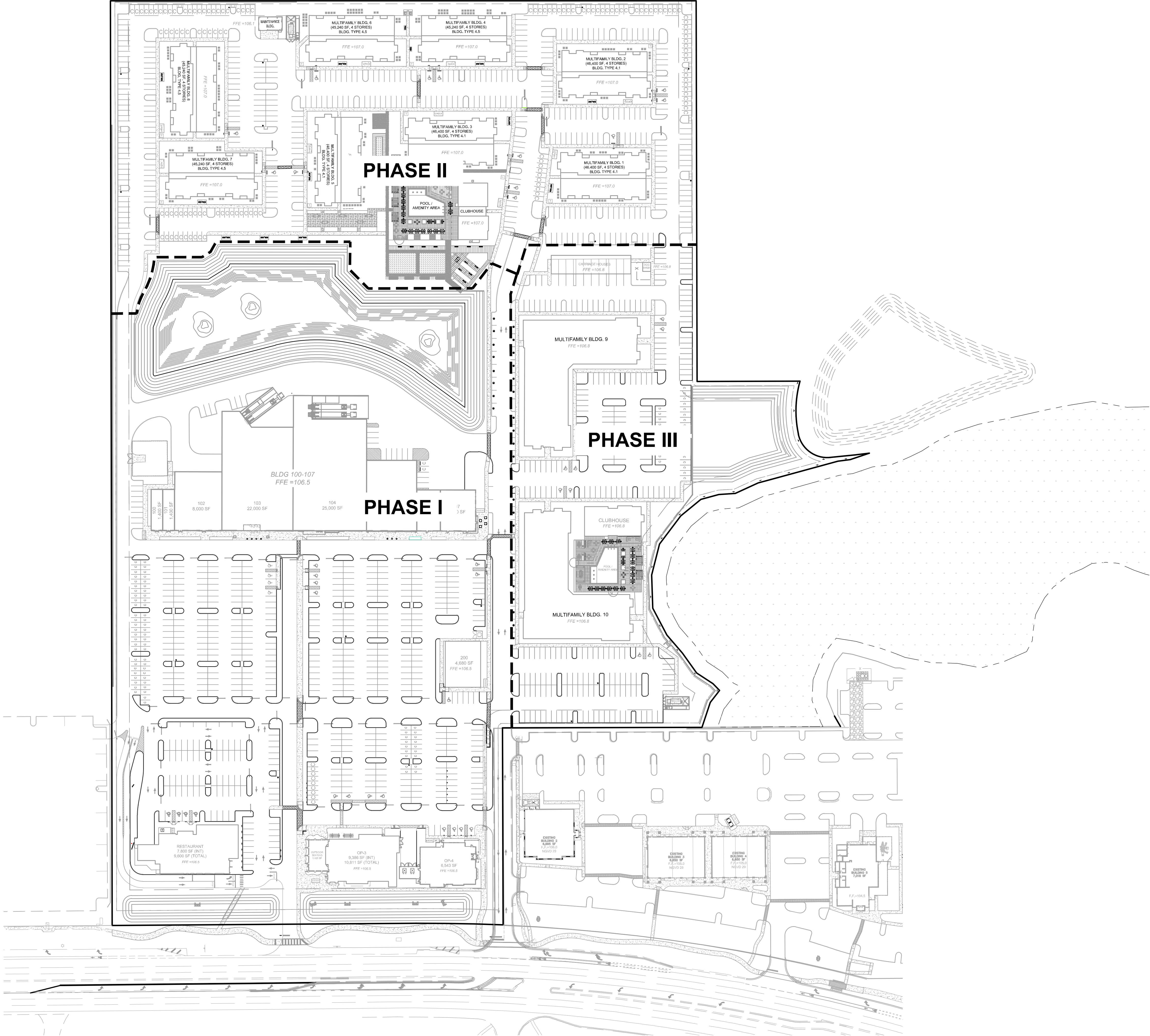
WETLANDS:

ALL ON-SITE WETLANDS TO BE IMPACTED & MITIGATED IN ACCORDANCE WITH SFWMD AND PER O.C. CAD #19-05-076

WATERSTAR ORLANDO	FLORIDA	ORANGE COUNTY	OVERALL SITE PLAN	KHA PROJECT 149170012	DATE SEPT 2021	SCALE AS SHOWN	DESIGNED BY JAM	DRAWN BY AFC	CHECKED BY JAM	DATE SEPT 2021	LICENSED PROFESSIONAL MARCUS L. GEIGER, P.E.	FLORIDA LICENSE NUMBER 89199	© 2021 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 PHONE: 407-696-1511 WWW.KIMLEY-HORN.COM CA 00000696	Kimley»Horn	REVISIONS	No.	BY	DATE

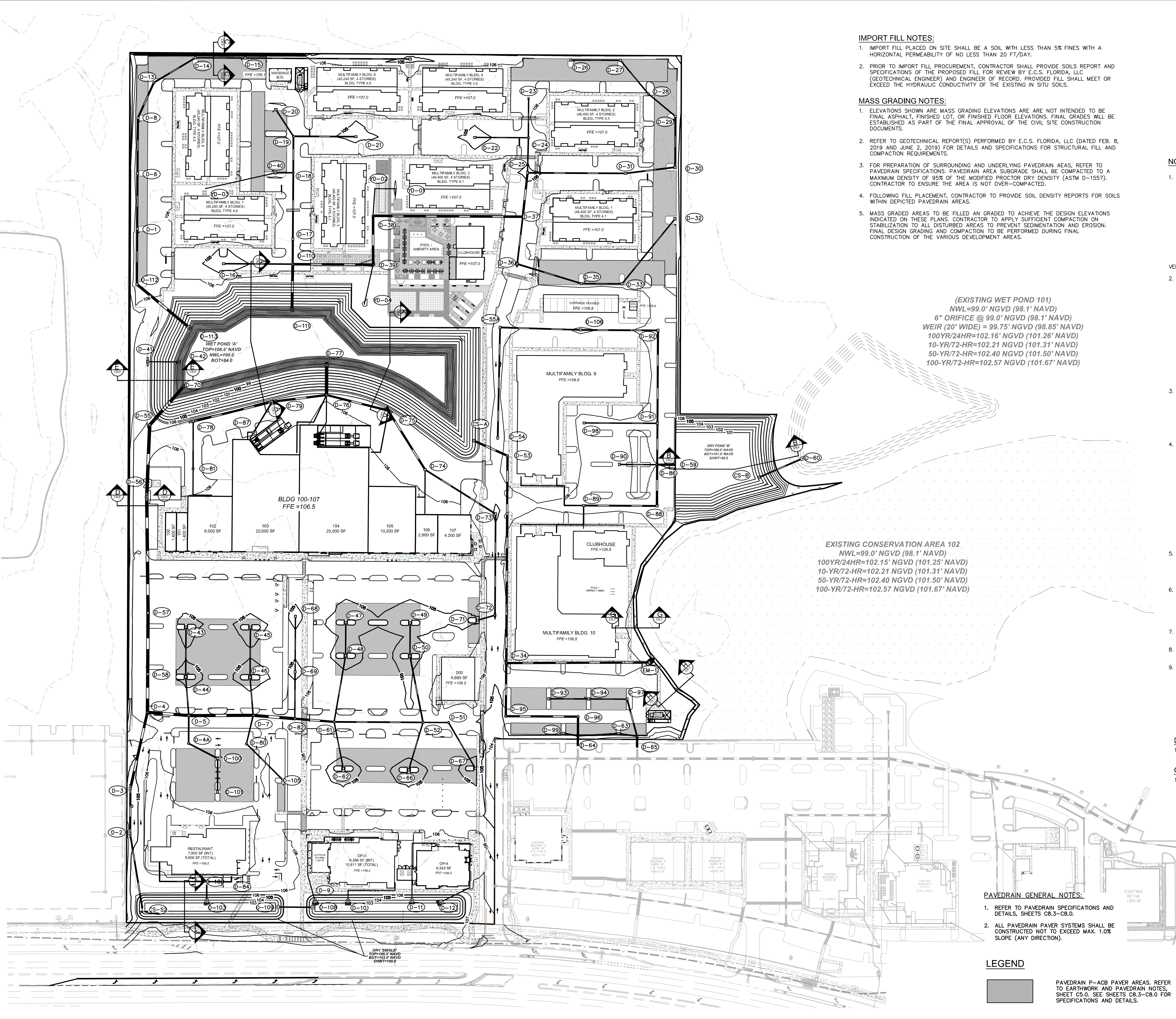
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- IMPORT FILL NOTES:**
- IMPORT FILL PLACED ON SITE SHALL BE A SOIL WITH LESS THAN 5% FINES WITH A HORIZONTAL PERMEABILITY OF NO LESS THAN 20 FT/DAY.
 - PRIOR TO IMPORT FILL PROCUREMENT, CONTRACTOR SHALL PROVIDE SOILS REPORT AND SPECIFICATIONS OF THE PROPOSED FILL FOR REVIEW BY E.C.S. FLORIDA, LLC (GEOTECHNICAL ENGINEER) AND ENGINEER OF RECORD. PROVIDED FILL SHALL MEET OR EXCEED THE HYDRAULIC CONDUCTIVITY OF THE EXISTING IN SITU SOILS.
- MASS GRADING NOTES:**
- ELEVATIONS SHOWN ARE MASS GRADING ELEVATIONS ARE NOT INTENDED TO BE FINAL ASPHALT, FINISHED LOT, OR FINISHED FLOOR ELEVATIONS. FINAL GRADES WILL BE ESTABLISHED AS PART OF THE FINAL APPROVAL OF THE CIVIL SITE CONSTRUCTION DOCUMENTS.
 - REFER TO GEOTECHNICAL REPORT(S) PERFORMED BY E.C.S. FLORIDA, LLC (DATED FEB. 8, 2019 AND JUNE 2, 2019) FOR DETAILS AND SPECIFICATIONS FOR STRUCTURAL FILL AND COMPACTION REQUIREMENTS.
 - FOR PREPARATION OF SURROUNDING AND UNDERLYING PAVEDRAIN AREAS, REFER TO PAVEDRAIN SPECIFICATIONS. PAVEDRAIN AREA SUBGRADE SHALL BE COMPACTED TO A MAXIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR DRY DENSITY (ASTM D-1557). CONTRACTOR TO ENSURE THE AREA IS NOT OVER-COMPACTED.
 - FOLLOWING FILL PLACEMENT, CONTRACTOR TO PROVIDE SOIL DENSITY REPORTS FOR SOILS WITHIN DEPICTED PAVEDRAIN AREAS.
 - MASS GRADED AREAS TO BE FILLED AN GRADED TO ACHIEVE THE DESIGN ELEVATIONS INDICATED ON THESE PLANS. CONTRACTOR TO APPLY SUFFICIENT COMPACTION ON STABILIZATION TO ALL DISTURBED AREAS TO PREVENT SEDIMENTATION AND EROSION. FINAL DESIGN GRADING AND COMPACTION TO BE PERFORMED DURING FINAL CONSTRUCTION OF THE VARIOUS DEVELOPMENT AREAS.

(EXISTING WET POND 101)
NWL=99.0' NGVD (98.1' NAVD)
6" ORIFICE @ 99.0' NGVD (98.1' NAVD)
WEIR (20' WIDE) = 99.75' NGVD (98.85' NAVD)
100YR/24HR=102.16' NGVD (101.26' NAVD)
10-YR/72-HR=102.21' NGVD (101.31' NAVD)
50-YR/72-HR=102.40' NGVD (101.50' NAVD)
100-YR/72-HR=102.57' NGVD (101.67' NAVD)

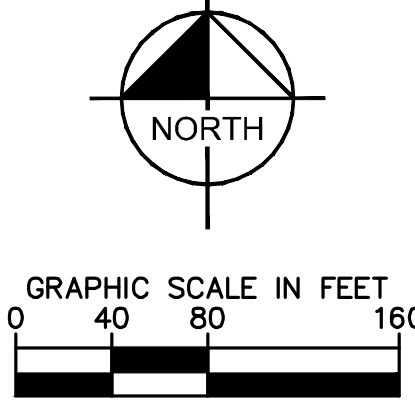
EXISTING CONSERVATION AREA 102
NWL=99.0' NGVD (98.1' NAVD)
100YR/24HR=102.15' NGVD (101.25' NAVD)
10-YR/72-HR=102.21' NGVD (101.31' NAVD)
50-YR/72-HR=102.40' NGVD (101.50' NAVD)
100-YR/72-HR=102.57' NGVD (101.67' NAVD)

- LEGEND**
- 90' EXISTING CONTOUR
 - PROPOSED STORM PIPE
 - PROPOSED STORM INLET
 - PROPOSED STORM MANHOLE
 - DIRECTION OF SURFACE WATER RUNOFF
 - 56.00 PROPOSED SPOT ELEVATION

- PAVEDRAIN GENERAL NOTES:**
- REFER TO PAVEDRAIN SPECIFICATIONS AND DETAILS, SHEETS C8.3-C8.0.
 - ALL PAVEDRAIN PAVES SYSTEMS SHALL BE CONSTRUCTED NOT TO EXCEED MAX. 1.0% SLOPE (ANY DIRECTION).

LEGEND

PAVEDRAIN P-ACB PAVES AREAS. REFER TO EARTHWORK AND PAVEDRAIN NOTES, SHEET C5.0. SEE SHEETS C8.3-C8.0 FOR SPECIFICATIONS AND DETAILS.



- NOTES:**
- ALL STORM DRAIN INLETS CONSTRUCTED AS PART OF NEW DEVELOPMENT PROJECTS IN ORANGE COUNTY SHALL HAVE METAL MEDALLION INLET MARKERS INSTALLED. TEXT ON THE MARKER SHALL BE EVENLY SPACED AND READ "NO DUMPING, ONLY RAIN IN THE DRAIN". MARKERS MUST BE COMMERCIAL GRADE STAINLESS STEEL, ALUMINUM, BRASS OR BRONZE AND EITHER STAMPED FROM SHEET METAL OR CAST. METAL MARKER COLOR MUST BE NON-REFLECTIVE BLUE OR GREEN. AQUATIC CREATURE OR SYMBOL SHOWN ON MARKER SHALL BE CONSISTENT THROUGHOUT THE SUBDIVISION. MARKERS MUST BE AFFIXED TO A CLEAN, PREPARED SURFACE WITH ADHESIVES, FASTENERS, OR HEAT AS RECOMMENDED BY THE MANUFACTURER. MARKERS SHALL BE ALIGNED WITH THE CENTER OF DRAINAGE INLETS AT THE TOP OF THE CURB. LETTERING MUST BE BETWEEN 0.4 - 0.5 INCHES AND THE TOTAL DIAMETER OF THE MARKER BETWEEN 3.75 - 4.25 INCHES.
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 - NOT ALL TREES SHOWN. CONTRACTOR TO REMOVE ALL TREES UNLESS NOTES OTHERWISE. REFER TO TREE MITIGATION PLANS FOR DETAILS.

- DATUM/BENCHMARKS:**
- ELEVATIONS SHOWN PER NAVD 88. REFER TO SURVEY FOR ADDITIONAL DETAILS AND BENCHMARKS.
- GEOTECHNICAL NOTE:**
- CONTRACTOR TO FOLLOW THE GUIDANCE AND RECOMMENDATIONS AS SPECIFIED WITHIN THE SUBSURFACE SOIL EXPLORATION GEOTECHNICAL ENGINEERING REPORT(S) PERFORMED BY E.C.S. FLORIDA, LLC (DATED FEB. 8, 2019 AND JUNE 2, 2019.)

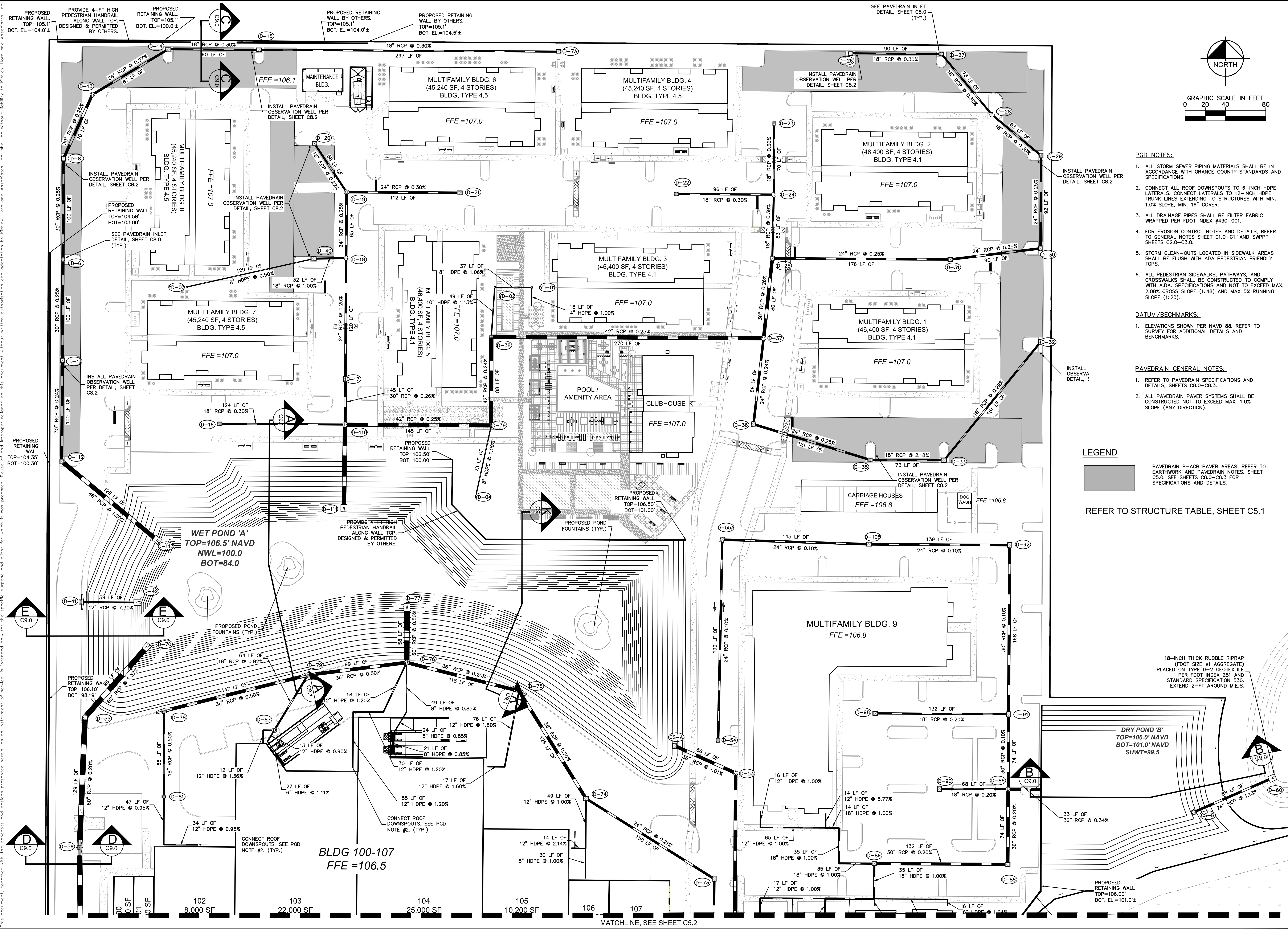
REFER TO STRUCTURE TABLE, SHEET C5.1

Always call 811 two full business days before you dig to have underground utilities located and marked.

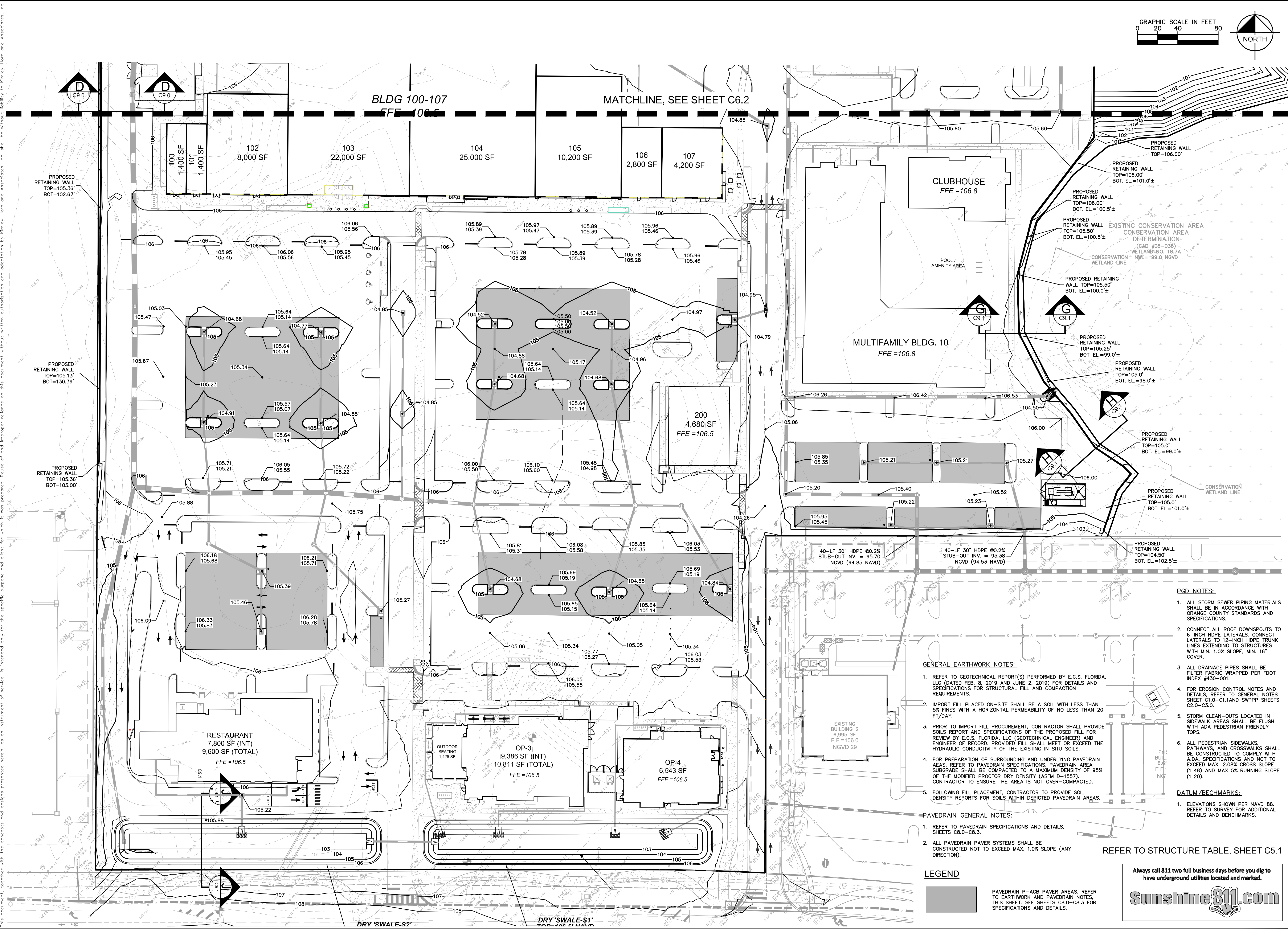


KHA PROJECT 149170012		DATE SEPT 2021		SCALE AS SHOWN		DESIGNED BY RJO		DRAWN BY ATE		CHECKED BY JAM		DATE JAN	
LISCENSED PROFESSIONAL		MARCUS I. GEIGER, P.E.		FLORIDA LICENSE NUMBER 89199		WWW.KIMLEY-HORN.COM		REGISTRY No. 696		No.		REVISIONS	
OVERALL PAVING, GRADING AND DRAINAGE PLAN												ORANGE COUNTY	
WATERSTAR ORLANDO												SHEET NUMBER C5.0	
Kimley»Horn												© 2021 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 PHONE: 407-896-1511 WWW.KIMLEY-HORN.COM	
BY												DATE	

Plotted By: Geiger, Marcus Sheet Set: SFMD - Layout: C5.3 November 18, 2021 09:32:51am K:\ORL-Civil\149170012-WaterStar Orlando CADD\SFMD\Plotsheets\C5.3 DRAIN.dwg
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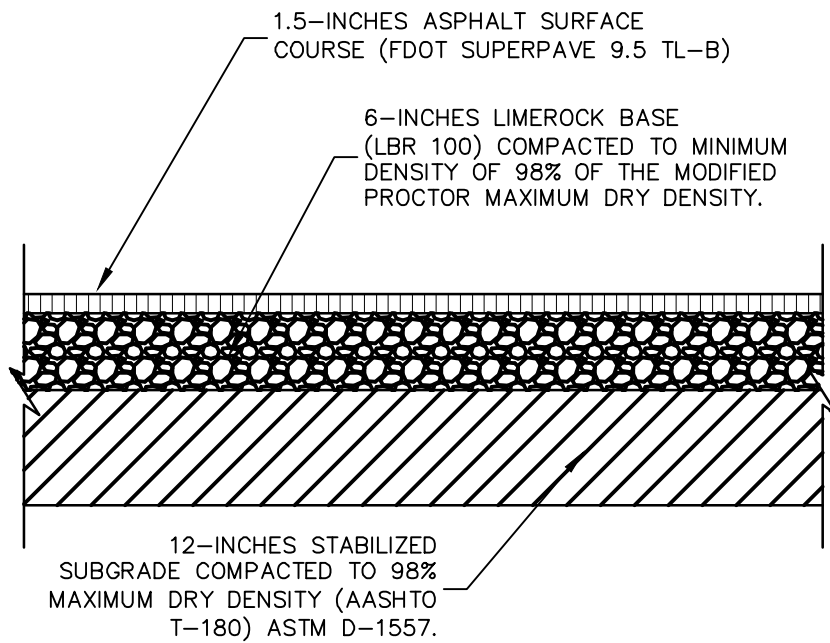


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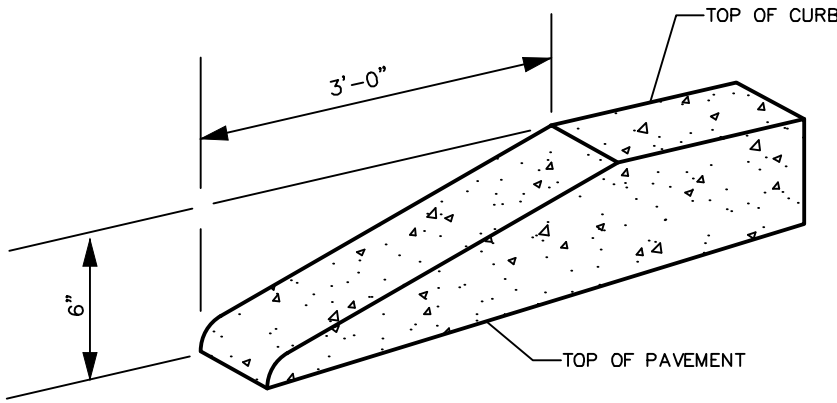
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LISCENSED PROFESSIONAL		MARCUS I. GEIGER, P.E. FLORIDA LICENSE NUMBER 89199	
KHA PROJECT 149170012	DATE SEPT 2021	SCALE AS SHOWN	DESIGNED BY RJO
		DRAWN BY AFE	CHECKED BY JAM
PAVING AND GRADING PLAN		WATERSTAR ORLANDO	
ORANGE COUNTY		FLORIDA	
SHEET NUMBER C6.1		BY DATE	

Plotted By: Geiger, Marcus - Sheet Set: SFIMD - Layout: C7.0 - November 18, 2021 - 09:34:01am - K:\ORL_Civil\149170012-WaterStar Orlando CADD\SFIMD\Plotsheets\C7.0-C7.1-DETAILS.dwg
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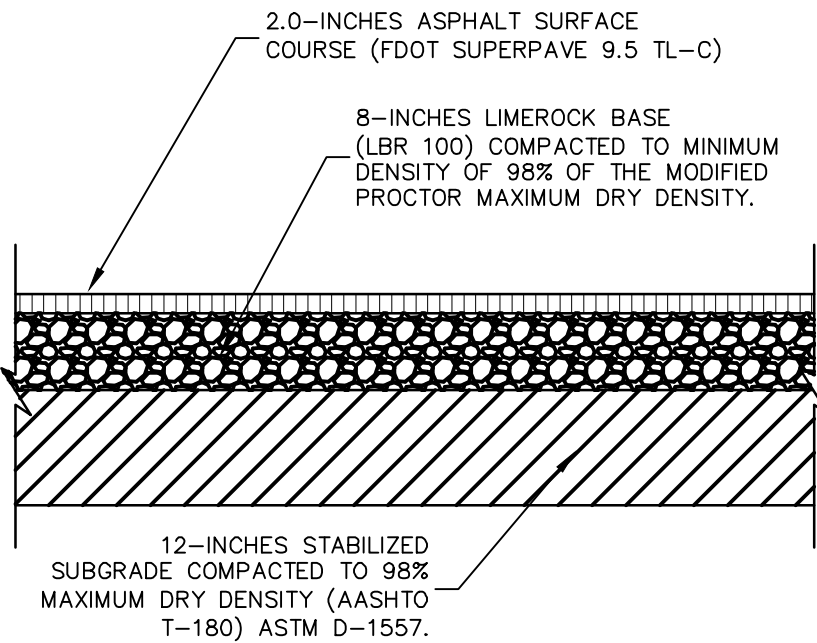
TYPICAL 'STANDARD LIGHT DUTY' ASPHALT PAVEMENT DETAIL
USED FOR PARKING AREAS ONLY

- NOTE:
1. ALTERNATIVE SOIL CEMENT BASE MAY BE USED.
8-INCHES SOIL CEMENT BASE (MIN. STRENGTH 300 PSI)
COMPACTED TO A MINIMUM DENSITY OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-558).
PLACE & FINISH SOIL CEMENT ACCORDING TO PORTLAND CEMENT ASSOCIATION REQUIREMENTS. MINIMUM STRENGTH FOR SOIL CEMENT MUST BE REACHED WITHIN 7 DAYS.
 2. ALTERNATIVE CRUSHED CONCRETE BASE MAY BE USED.
8-INCHES CRUSHED CONCRETE BASE SHALL MEET THE MATERIAL SPEC'S PER FDOT ROAD AND BRIDGE CONSTRUCTION SPECIFICATIONS (ED. 2010), SECTION 204 "GRADED AGGREGATE BASE".



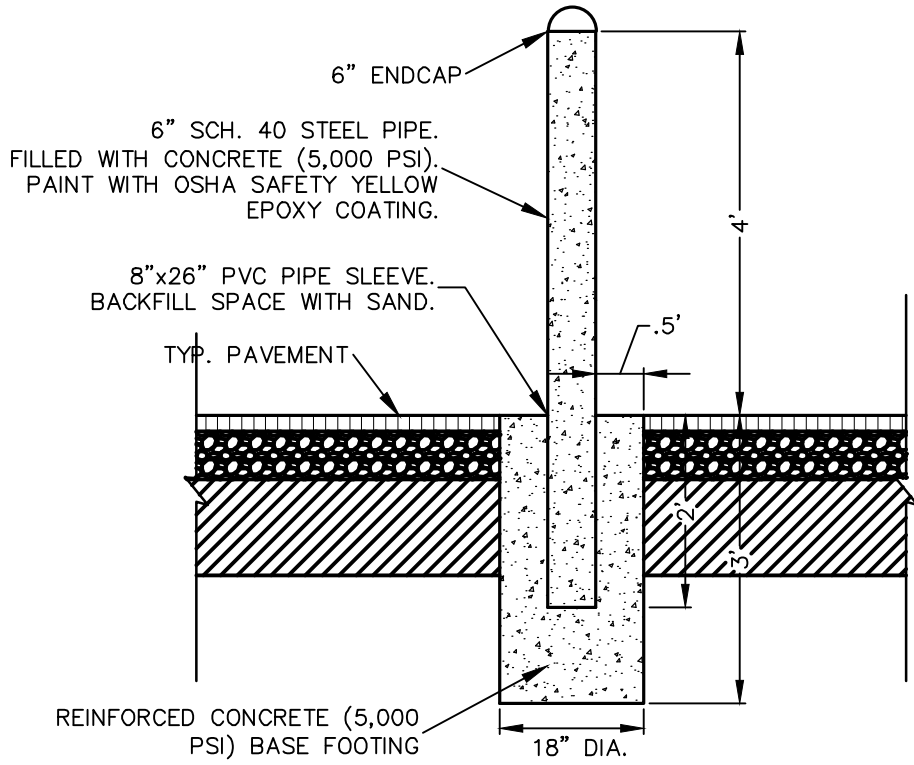
CURB TERMINUS TRANSITION DETAIL
NTS

NOTE:
ALL CURBS TO HAVE STANDARD 3' TRANSITION FROM 6" HEIGHT TO FLUSH (0" HEIGHT). A STANDARD TEMPLATE SHALL BE USED AT ALL LOCATIONS TO PROVIDE UNIFORM CURB TRANSITION THROUGHOUT THE PROJECT.

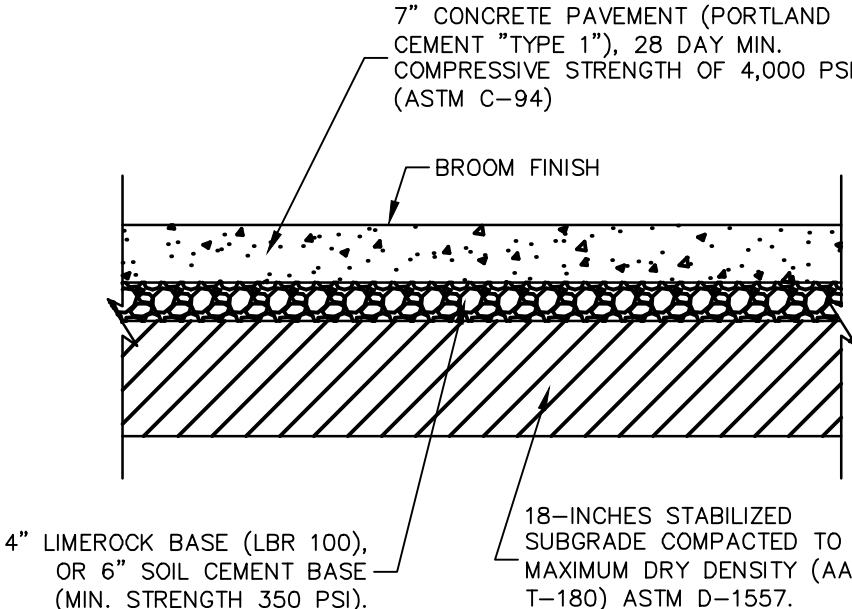


TYPICAL 'HEAVY DUTY' ASPHALT PAVEMENT DETAIL
NTS

- NOTE:
1. ALTERNATIVE SOIL CEMENT BASE MAY BE USED.
8-INCHES SOIL CEMENT BASE (MIN. STRENGTH 300 PSI)
COMPACTED TO A MINIMUM DENSITY OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-558).
PLACE & FINISH SOIL CEMENT ACCORDING TO PORTLAND CEMENT ASSOCIATION REQUIREMENTS. MINIMUM STRENGTH FOR SOIL CEMENT MUST BE REACHED WITHIN 7 DAYS.
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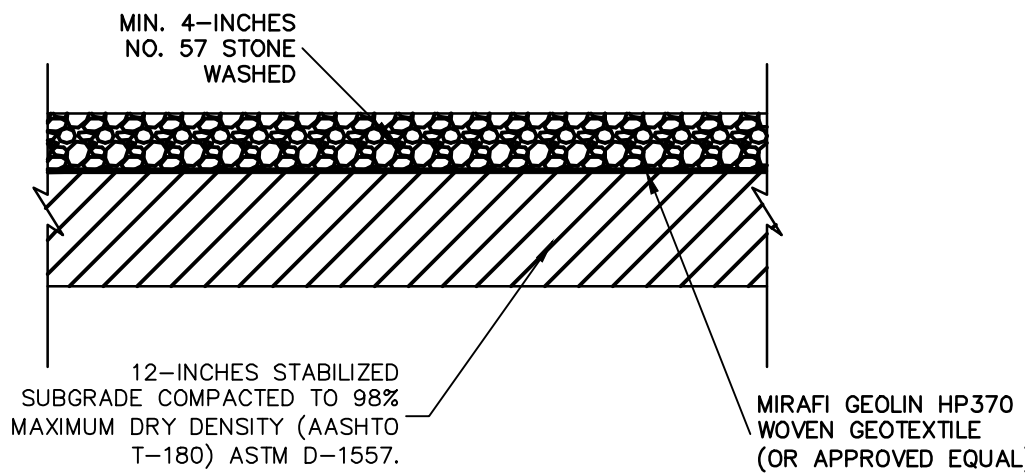


TYP. BOLLARD DETAIL
NTS

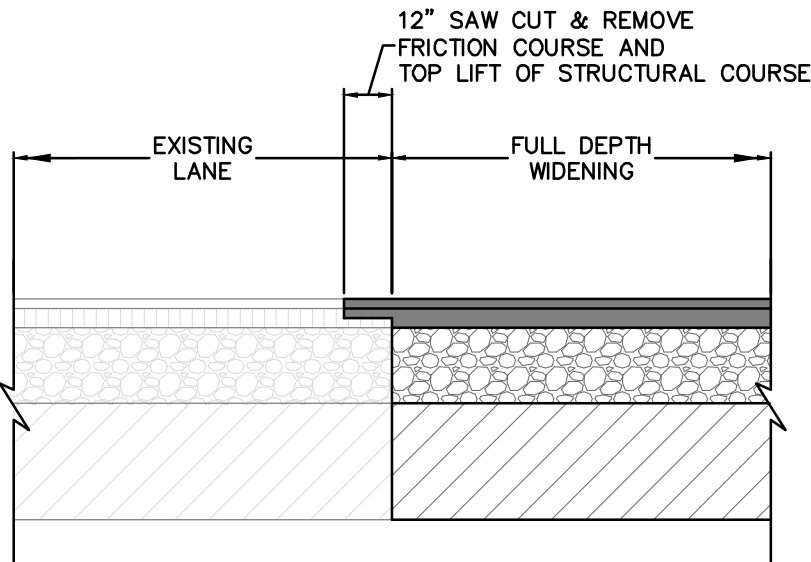


TYPICAL CONCRETE PAVEMENT DETAIL
NTS

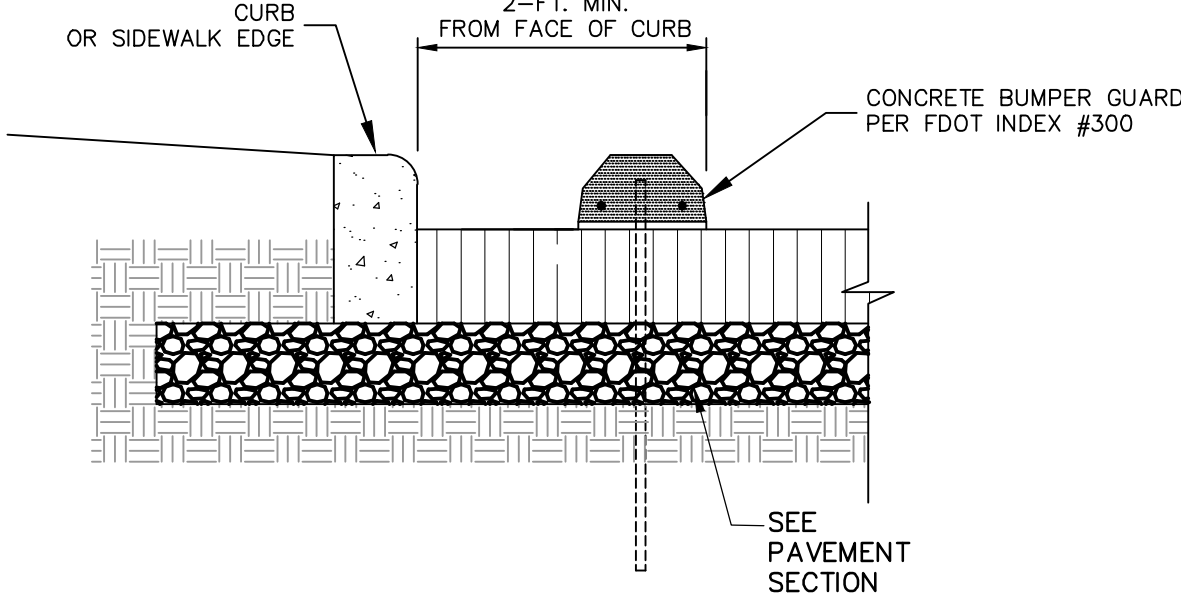
NOTE:
2-1/3 SAW CUT DEPTH.
MAXIMUM CONTROL JOINT SPACING = 10-FT X 10-FT



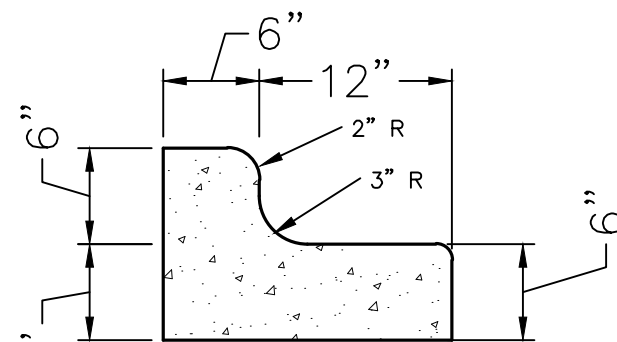
GRAVEL SURFACE DETAIL
N.T.S.



**TYPICAL ROADWAY
SPliced SAWCUT DETAIL**
NTS

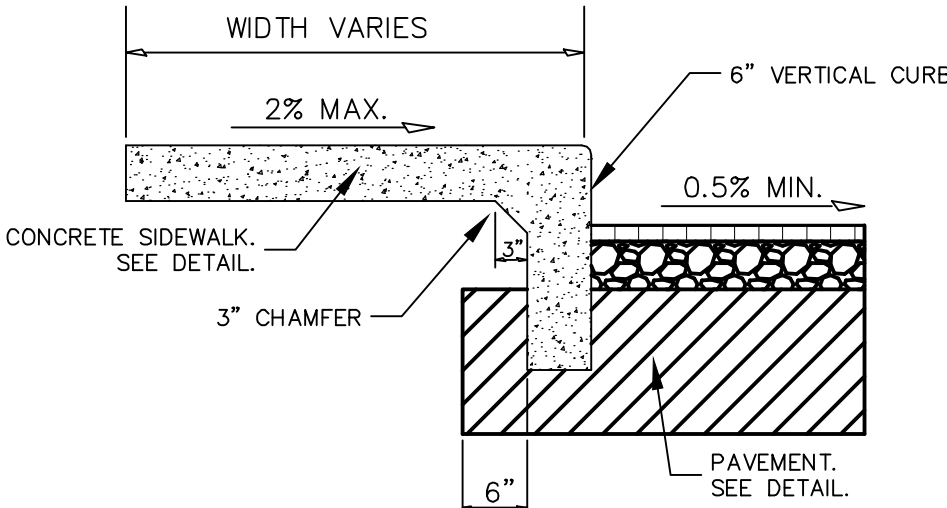


PRECAST CONC. WHEEL STOP
NTS

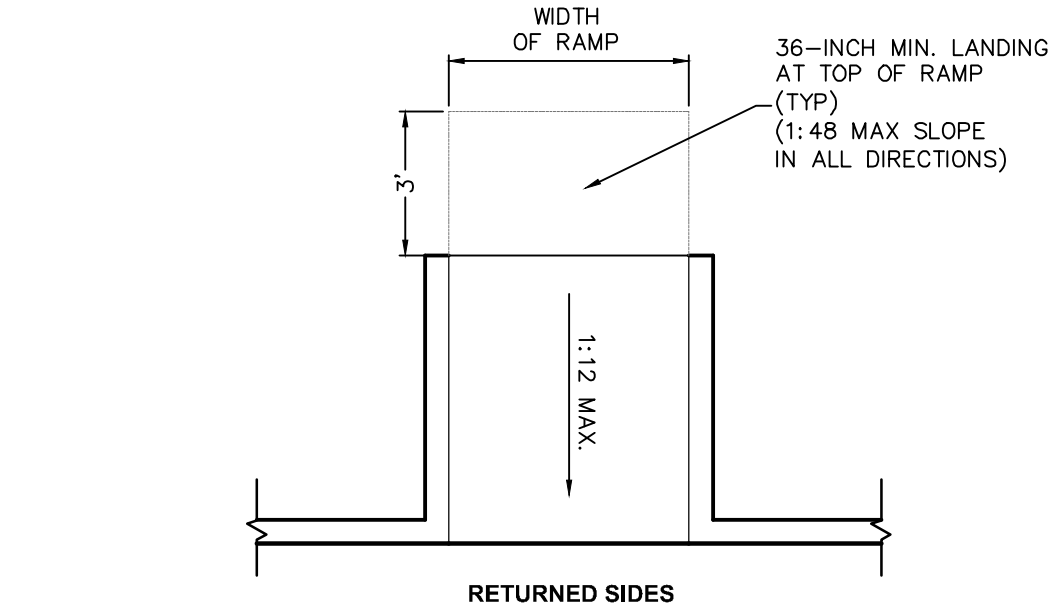


MODIFIED TYPE "F" CURB DETAIL
NTS

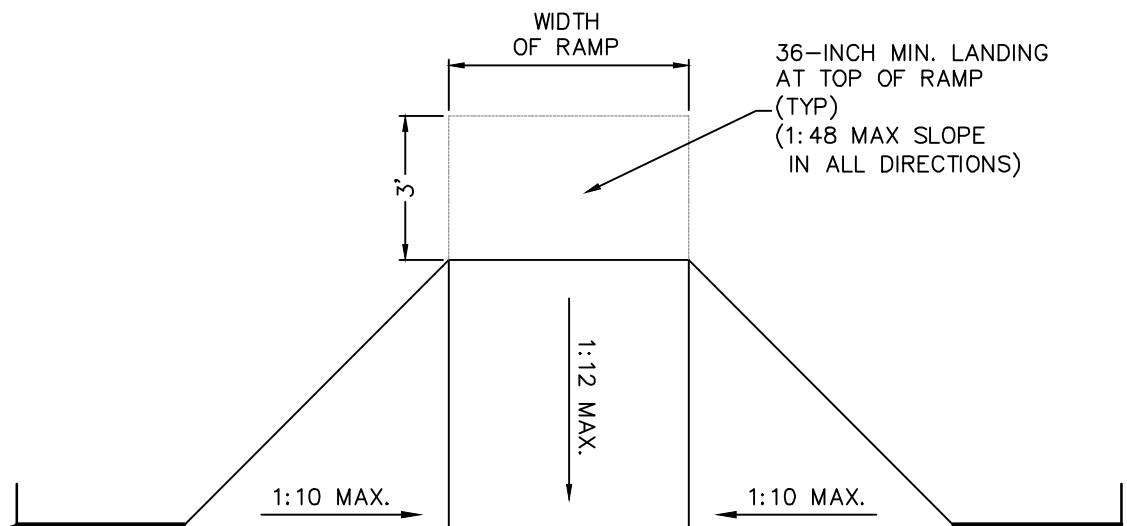
- NOTES:
1. SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX #300.
 2. CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.
 3. THICKNESS OF LIP SHALL BE MINIMUM 6".



SIDEWALK INTEGRAL CURB DETAIL
NTS



RETURNED SIDES



SIDE FLARES

TYPICAL 'ONSITE' ACCESSIBLE CURB RAMPS
CONSTRUCT PER F.A.C. 2012: CHAPTER 4, SECTION 406 REQUIREMENTS

REVISIONS		DATE	BY
No.			

Kimley»Horn

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PHONE: 407-898-1511
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 149170012		DATE SEPT 2021		SCALE AS SHOWN		DESIGNED BY RJO		DRAWN BY AFE		CHECKED BY JAM		DATE: _____	
LISCENSED PROFESSIONAL		MARCUS I. GEIGER, P.E.		FLORIDA LICENSE NUMBER 89199									

GENERAL
CONSTRUCTION
DETAILS

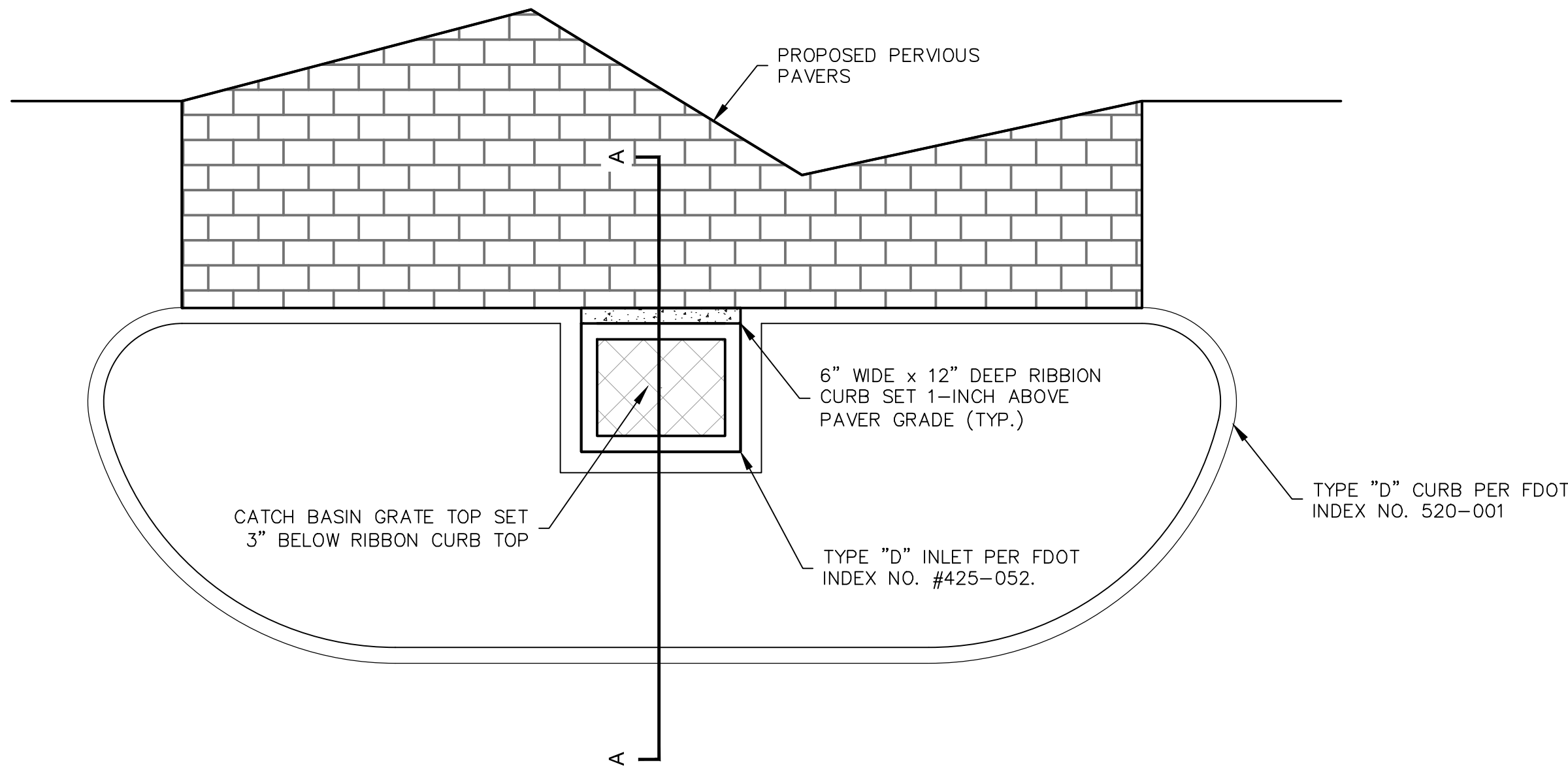
**WATERSTAR
ORLANDO**

ORANGE COUNTY

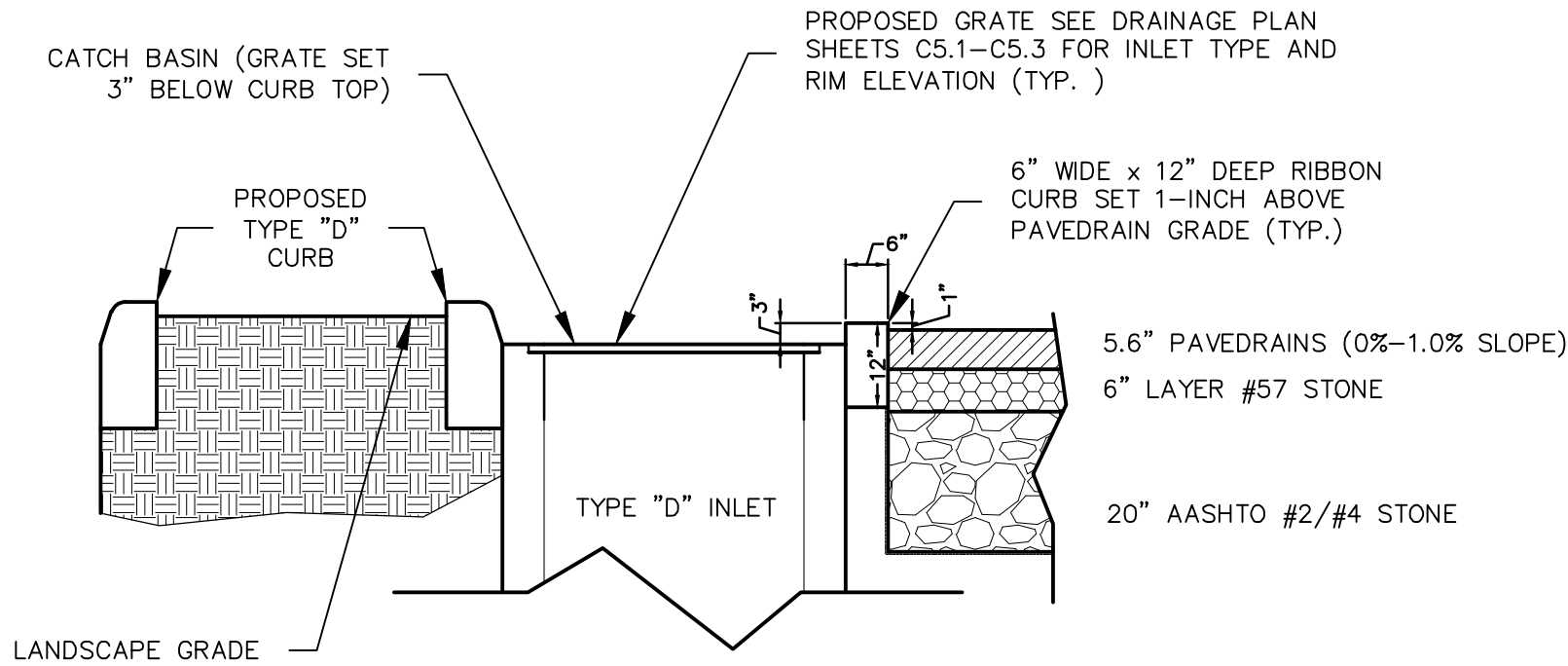
FLORIDA

SHEET NUMBER
C7.0

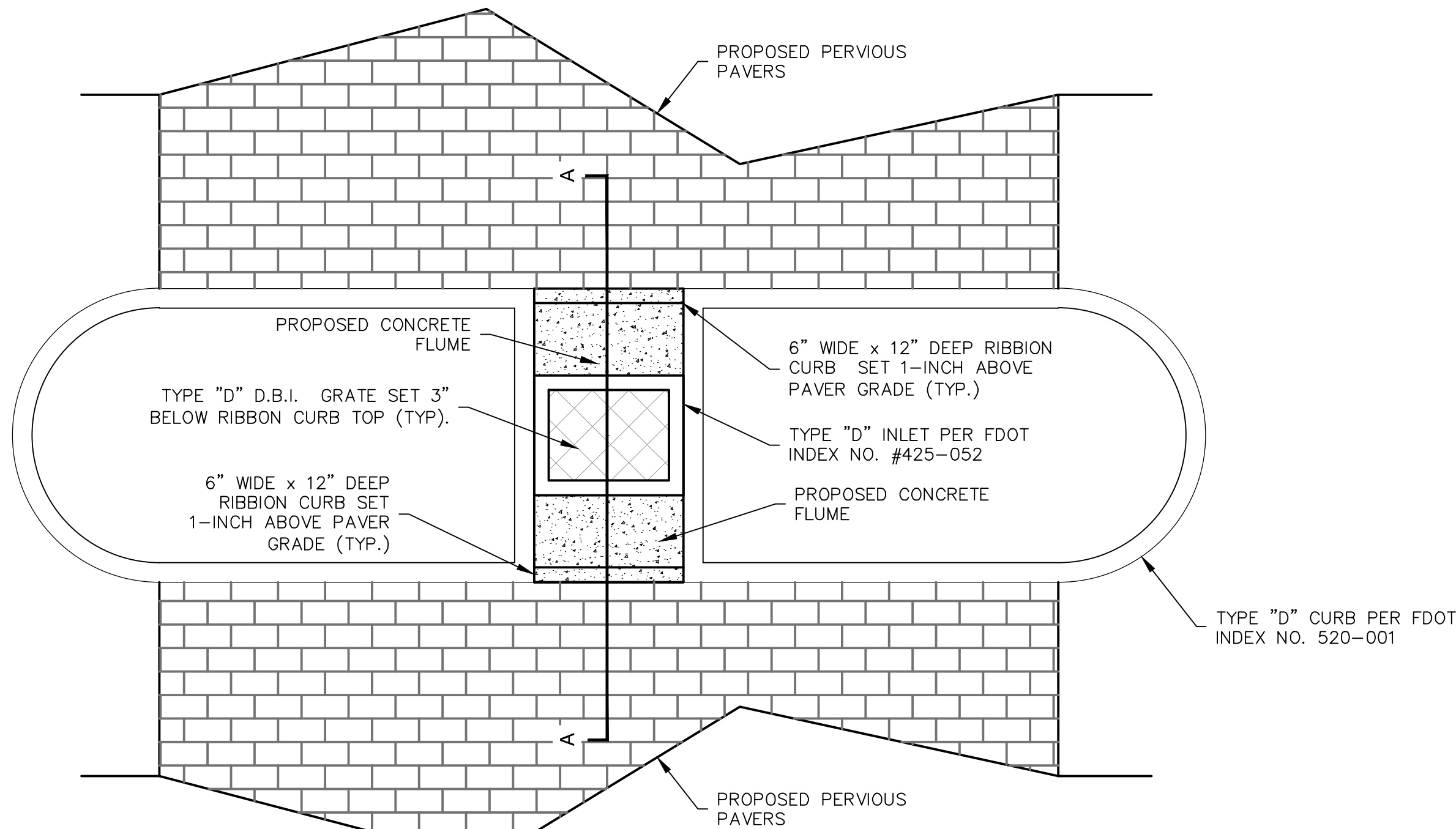
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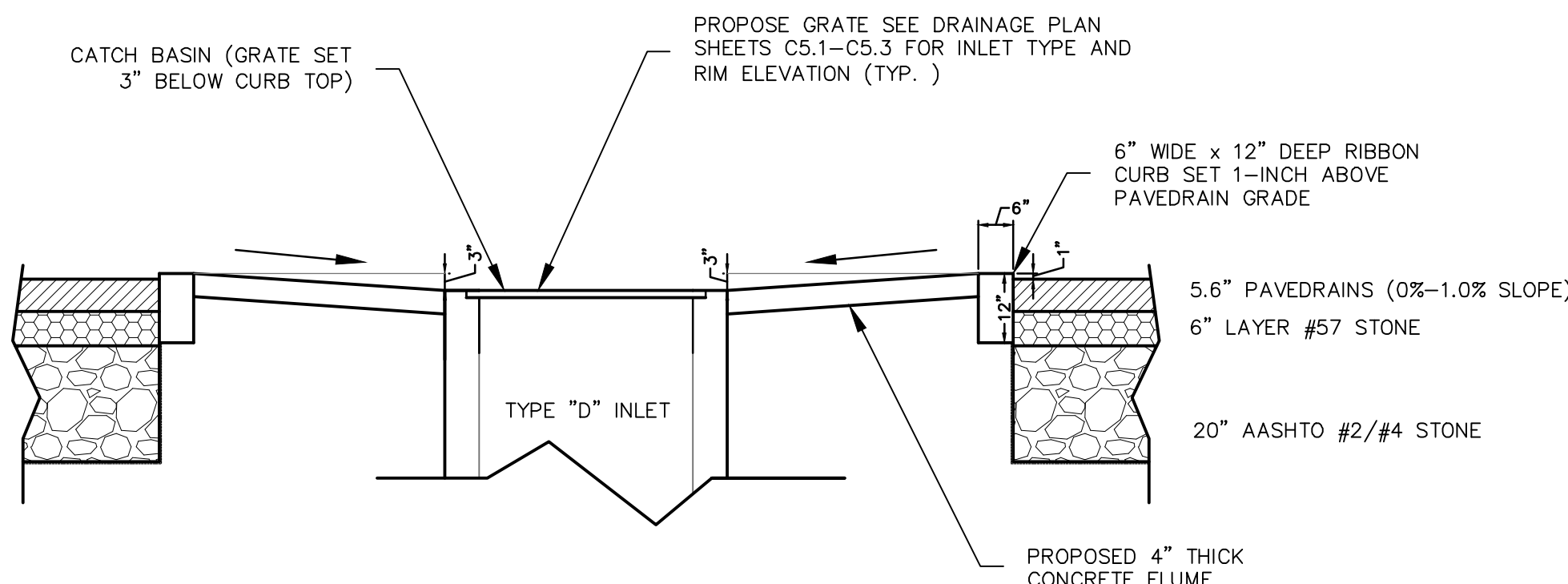
PLAN VIEW FOR PAVEDRAIN INLET



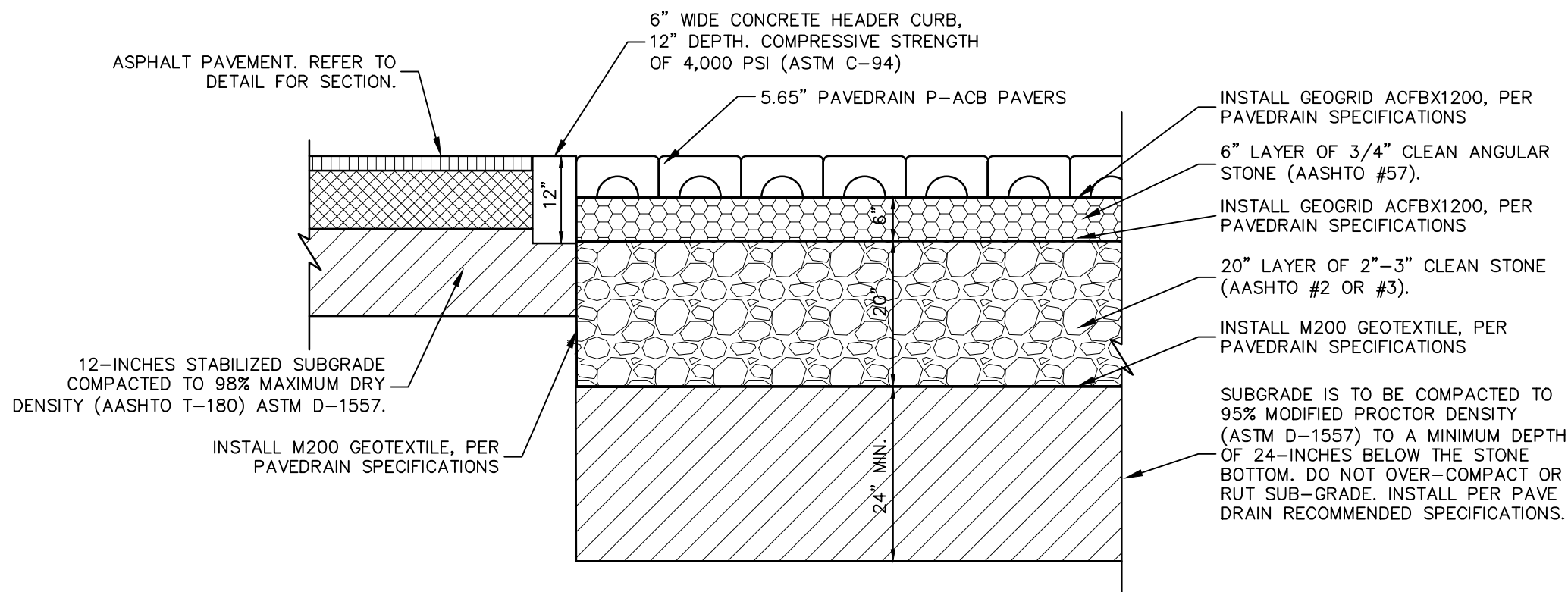
SECTION A-A



PLAN VIEW FOR PAVEDRAIN INLET

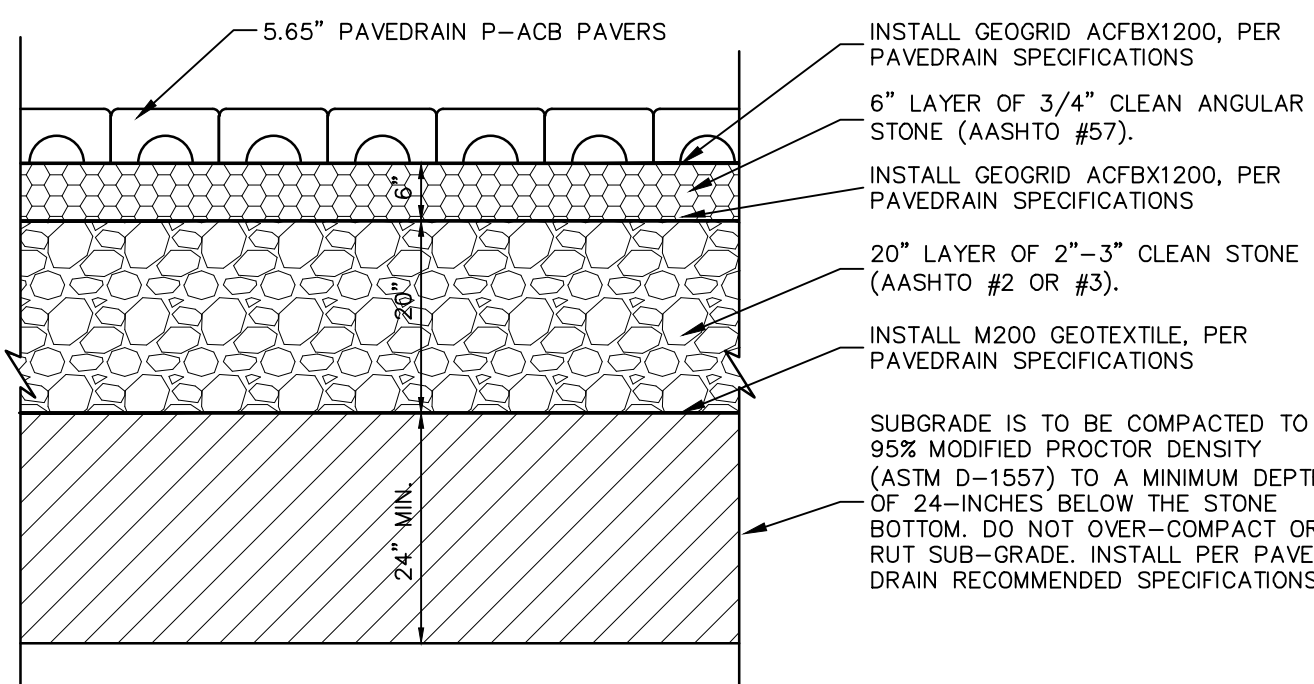


SECTION A-A



TYPICAL PAVEDRAIN PERIMETER SECTION DETAIL

NTS



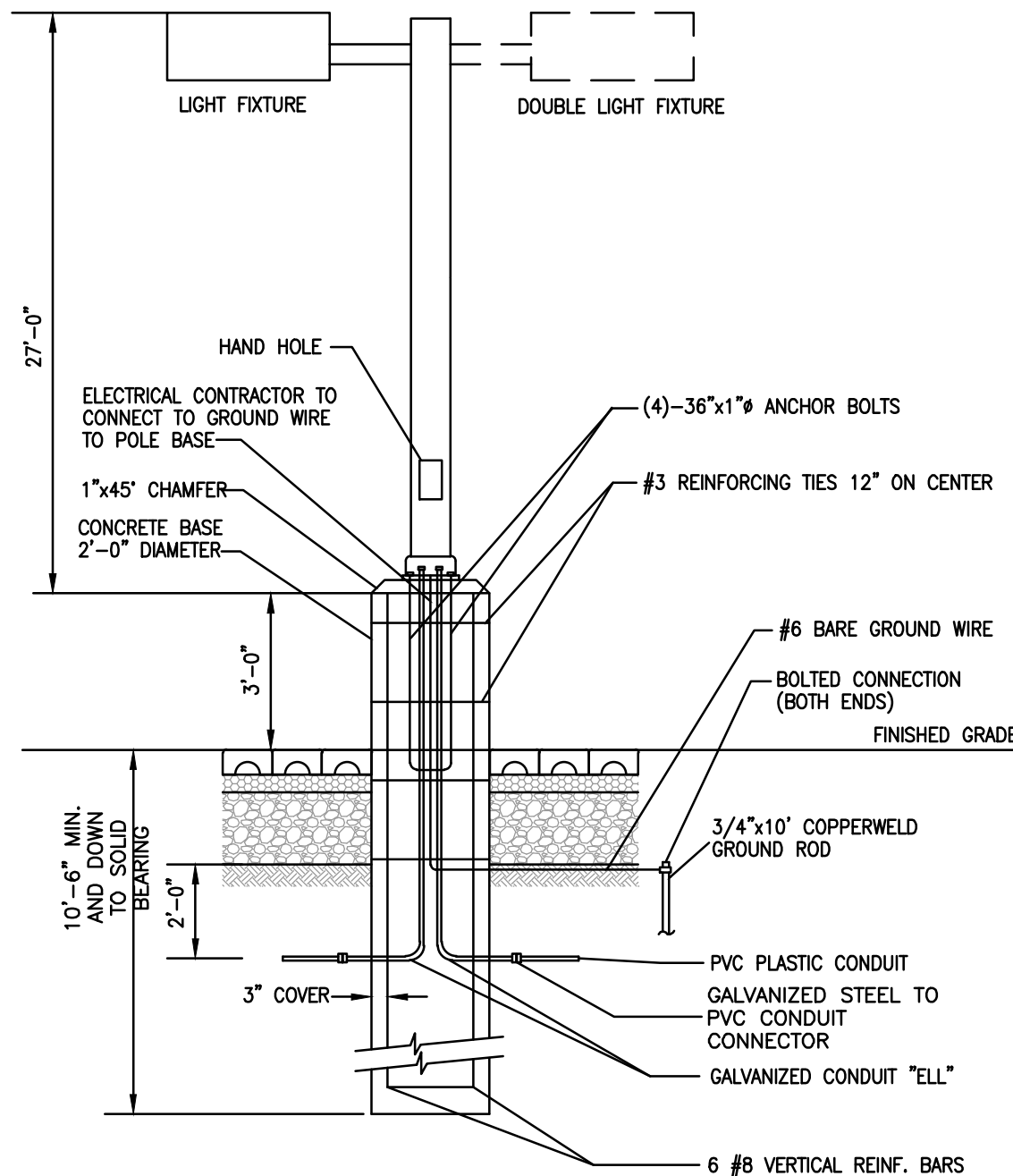
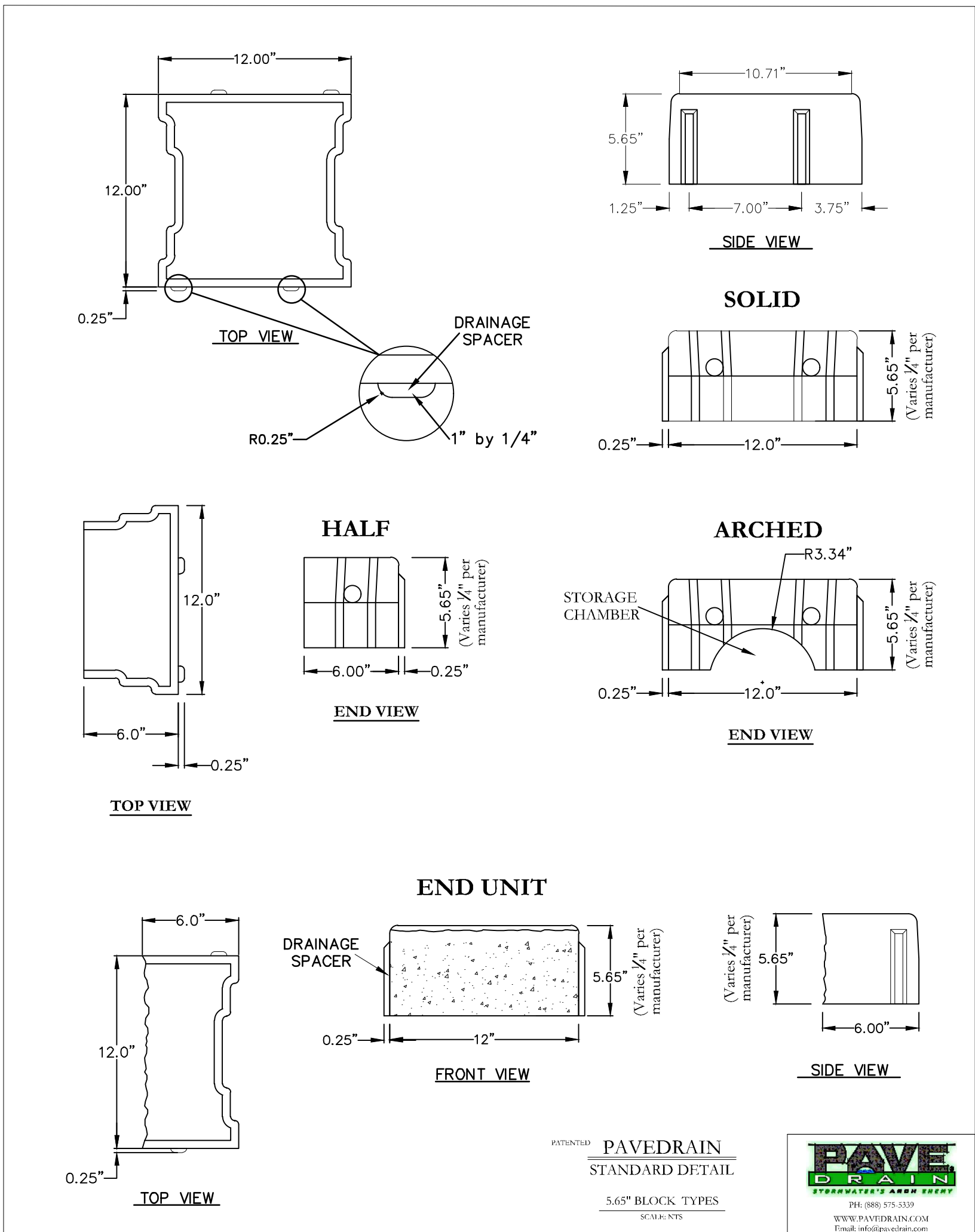
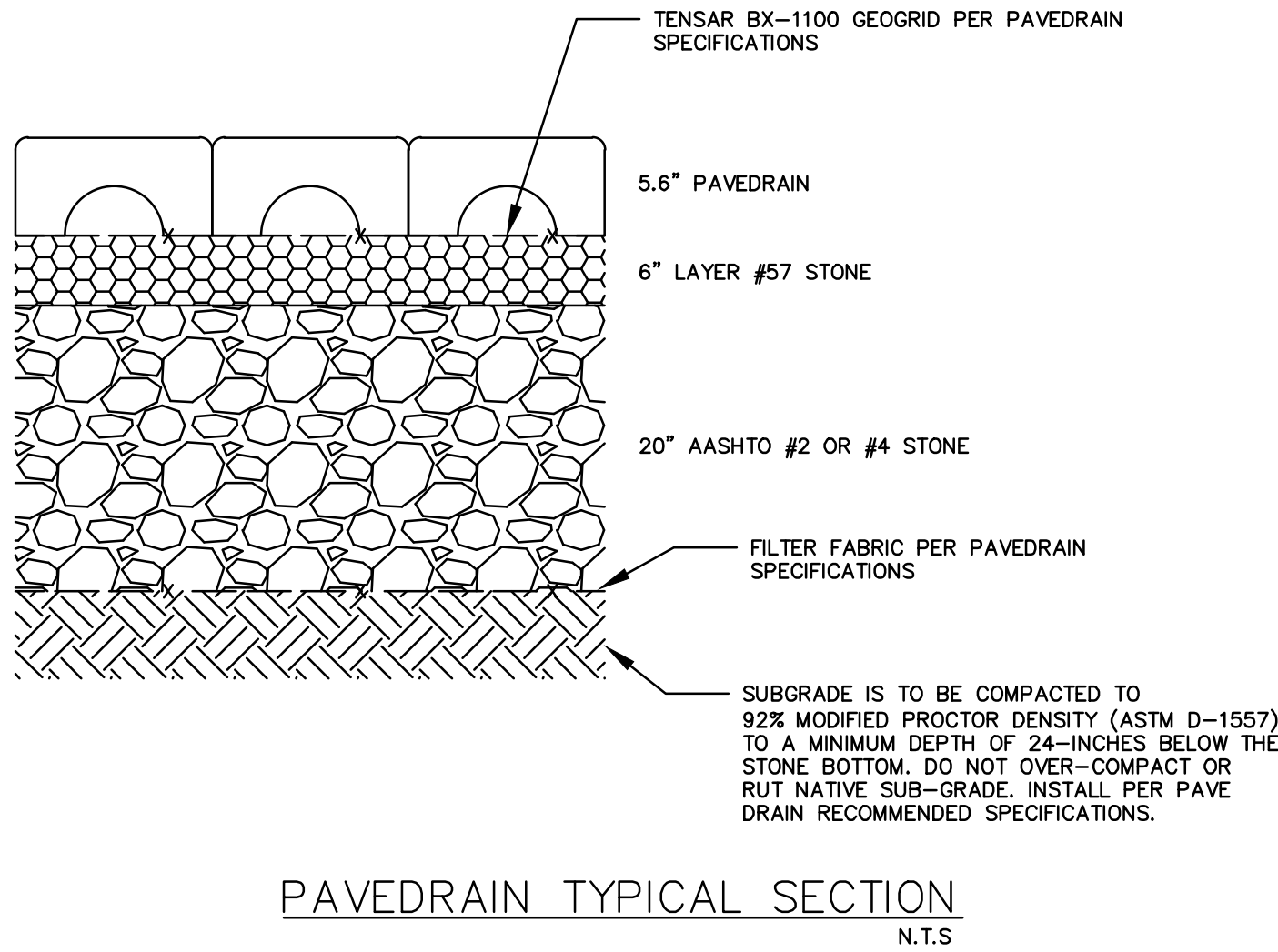
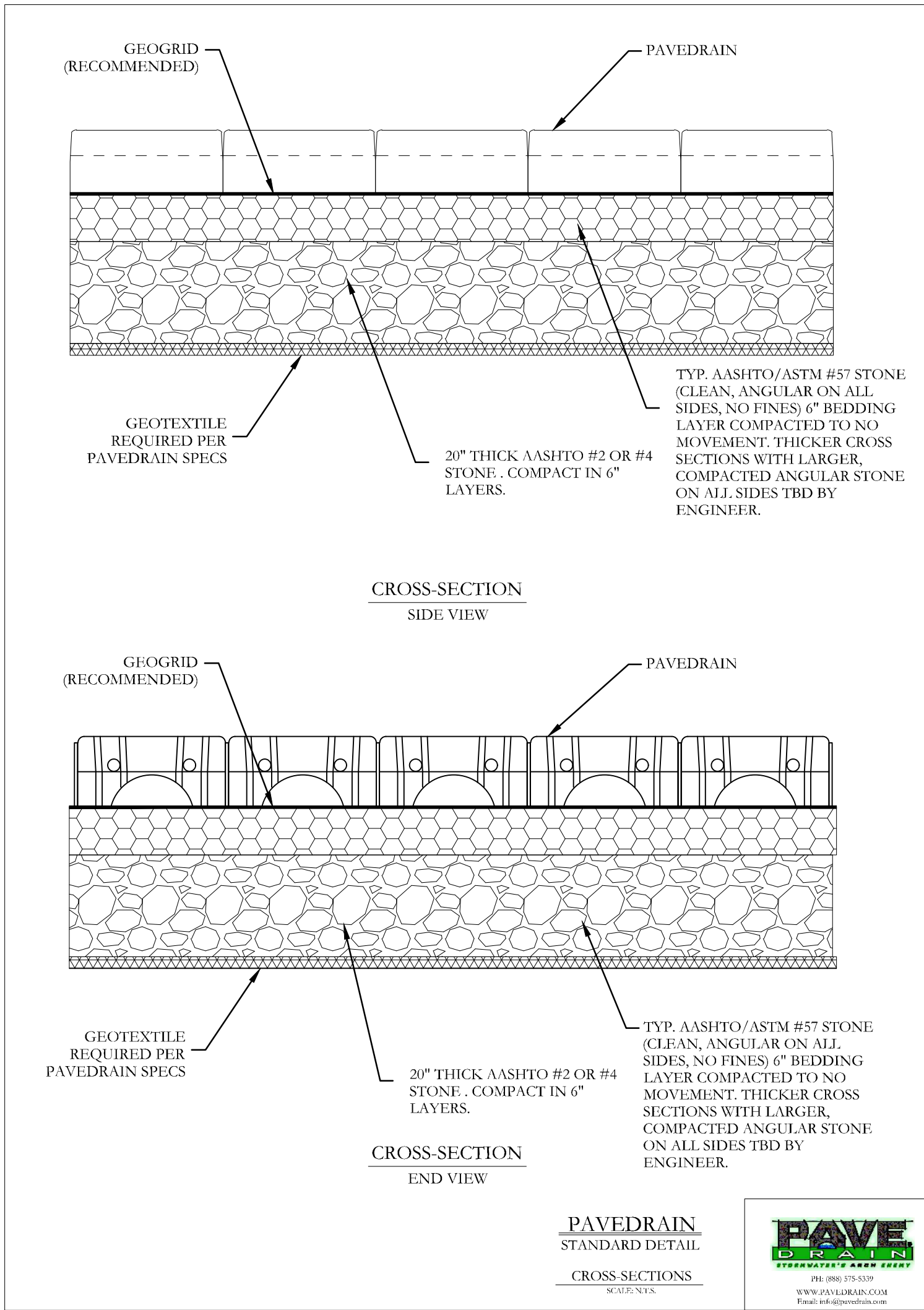
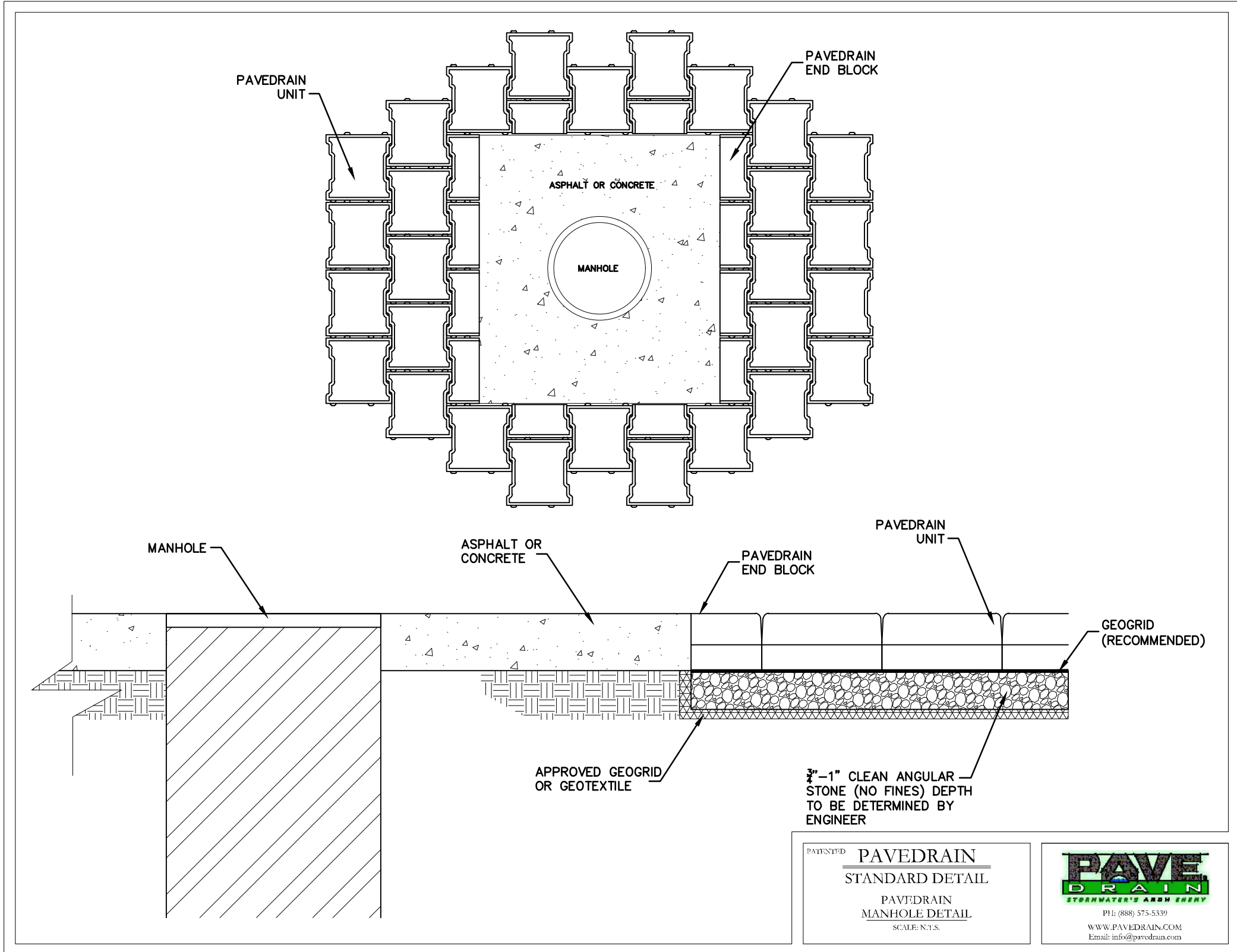
TYPICAL PAVEDRAIN SECTION DETAIL

NTS

- CONTRACTOR NOTE:
- CONSTRUCTION AND INSTALLATION SHALL BE PERFORMED BY A CONTRACTOR CERTIFIED BY THE PRODUCT MANUFACTURER AND/OR FAMILIAR WITH AND FOLLOWING THE RECOMMENDATIONS AND PROCEDURES STATED WITHIN THE PAVEDRAIN INSTALLATION MANUAL (LATEST ED.) AND THE PAVEDRAIN NOTES CONTAINED WITHIN SHEET C8.3.
 - WITHIN 2 WEEKS PRIOR TO THE INSTALLATION OF THE PAVEDRAIN P-ACB SYSTEM, CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH CONTRACTOR PERFORMING INSTALLATION, ENGINEER, SUPPLIER, AND ANY OTHER APPROPRIATE REPRESENTATIVE.

WATERSTAR ORLANDO	SHEET NUMBER C8.0	ORANGE COUNTY FLORIDA	PAVEDRAIN DETAILS	KHA PROJECT 149170012 DATE SEPT 2021 SCALE AS SHOWN DESIGNED BY RJO DRAWN BY AFE CHECKED BY JAM	LICENSED PROFESSIONAL MARCUS I. GEIGER, P.E. FLORIDA LICENSE NUMBER 89199	Kimley»Horn © 2021 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 PHONE: 407-898-1511 WWW.KIMLEY-HORN.COM CA 00000696	REVISIONS		BY DATE	
							No.			

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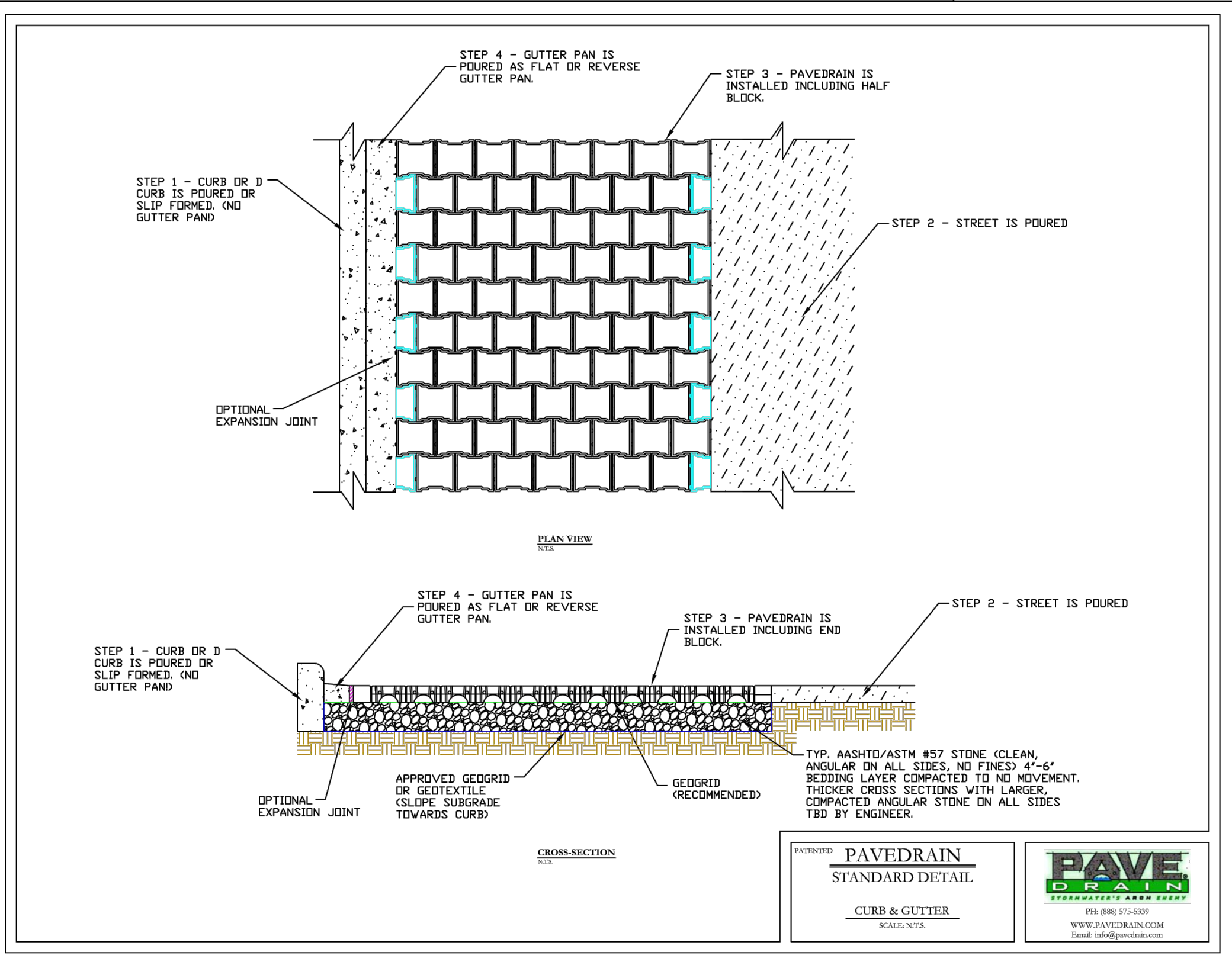
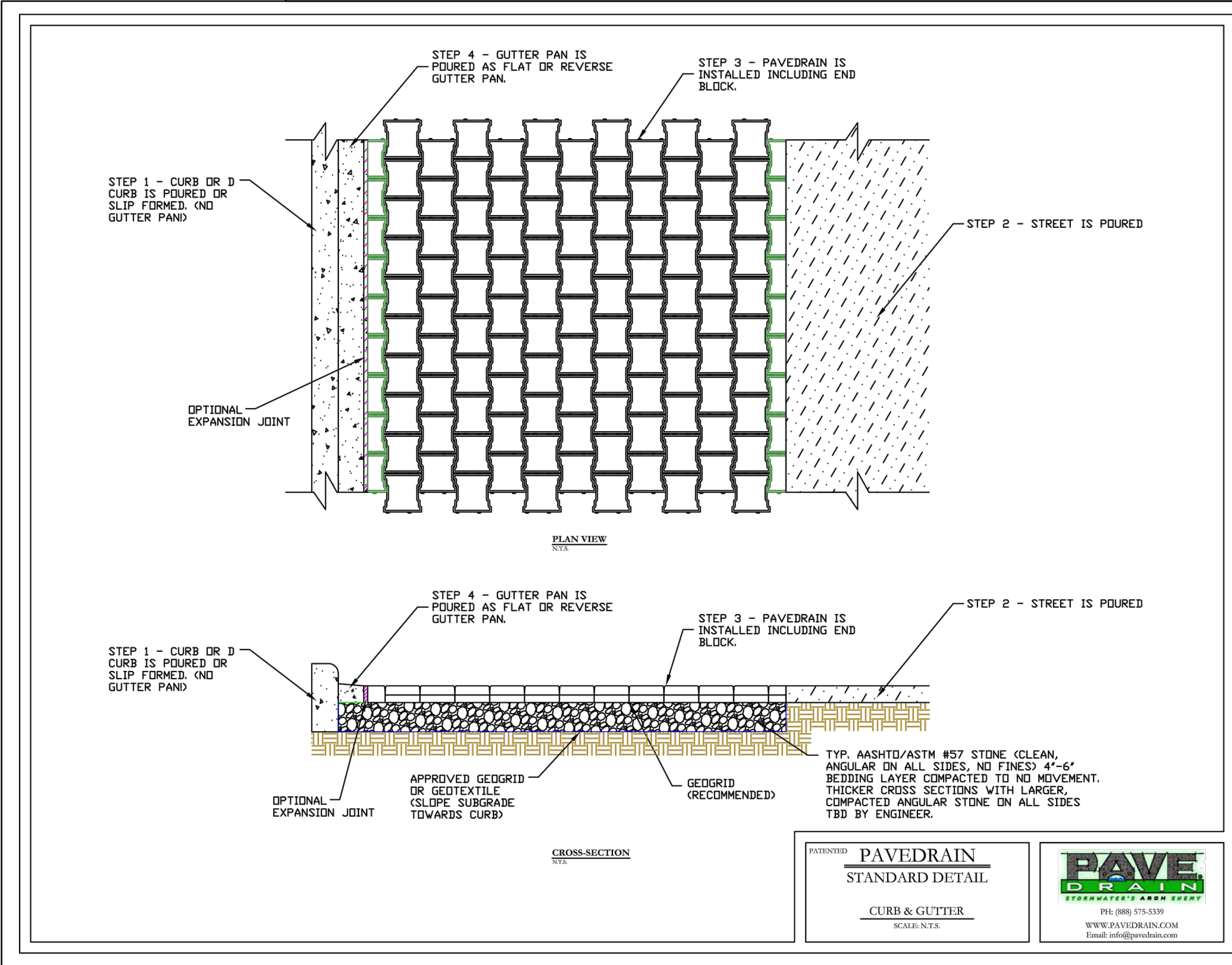
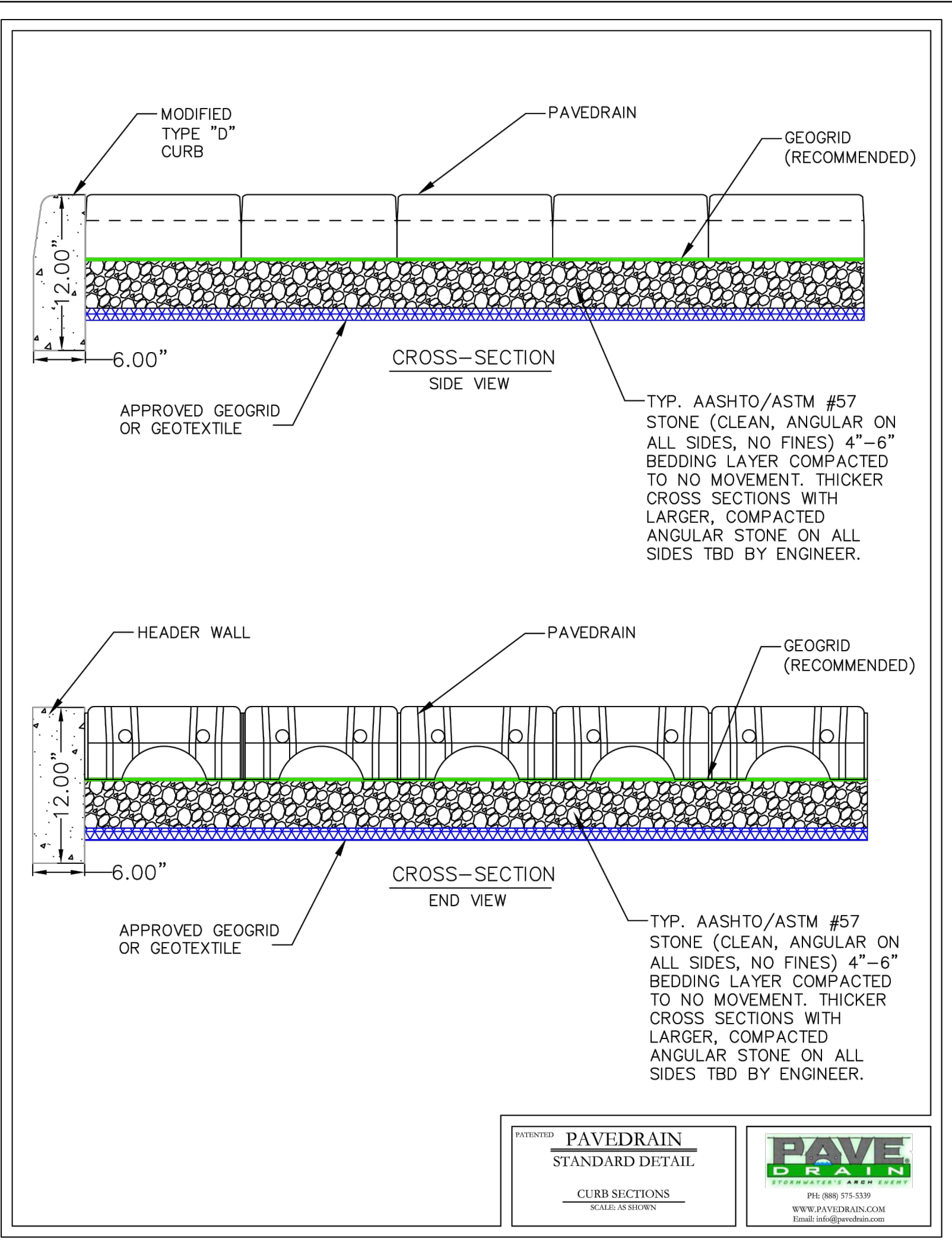
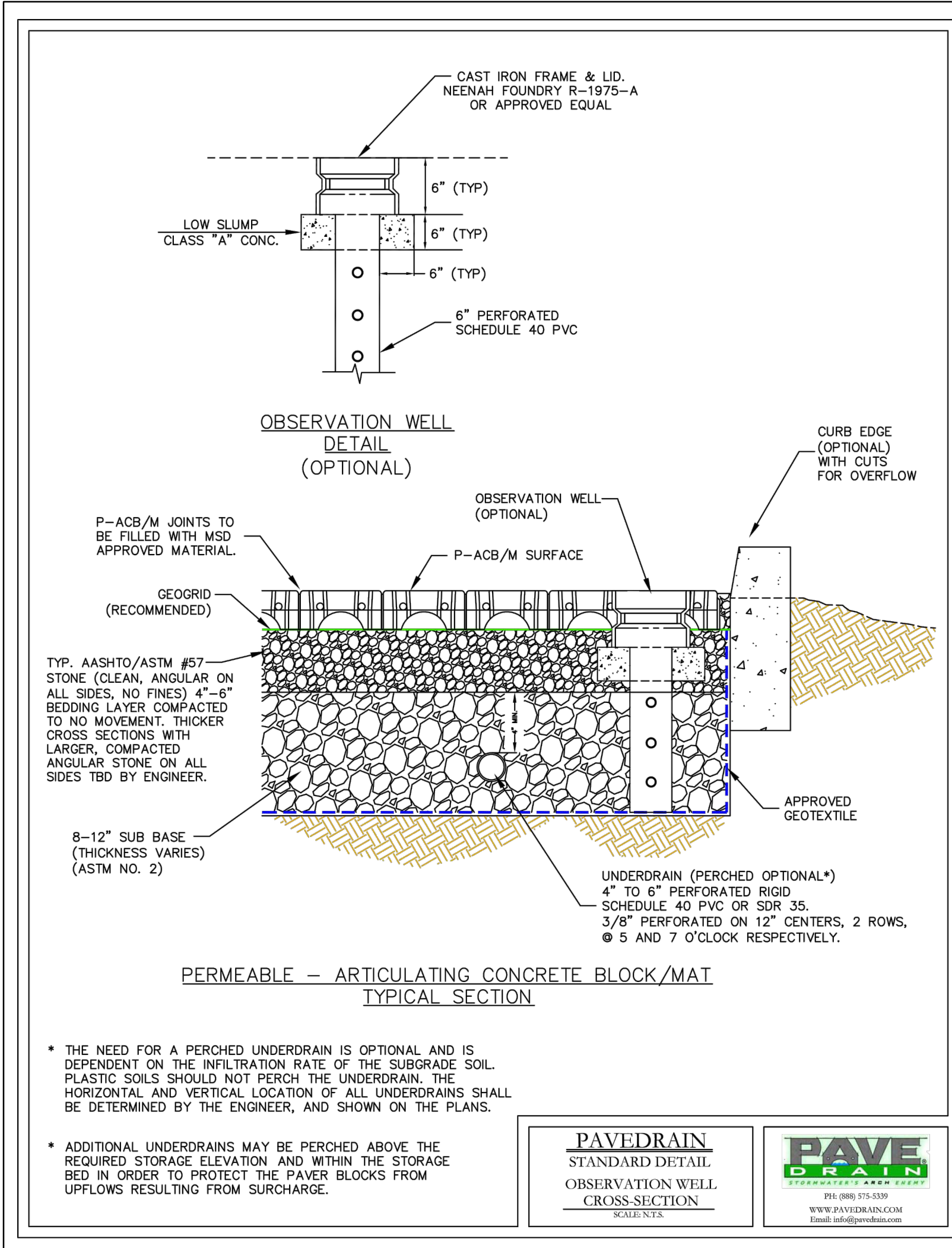


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SHEET NUMBER										ORANGE COUNTY										FLORIDA										PAVEDRAIN DETAILS										KHA PROJECT 149170012										LICENSED 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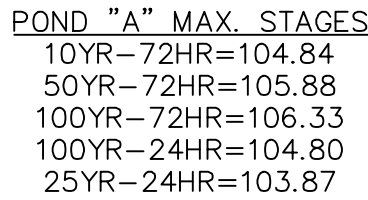
- CONTRACTOR NOTE:
- CONSTRUCTION AND INSTALLATION SHALL BE PERFORMED BY A CONTRACTOR CERTIFIED BY THE PRODUCT MANUFACTURER AND/OR FAMILIAR WITH AND FOLLOWING THE RECOMMENDATIONS AND PROCEDURES STATED WITHIN THE PAVEDRAIN INSTALLATION MANUAL (LATEST ED.) AND THE PAVEDRAIN NOTES CONTAINED WITHIN SHEET C8.3.
 - WITHIN 2 WEEKS PRIOR TO THE INSTALLATION OF THE PAVEDRAIN P-ACB SYSTEM, CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH CONTRACTOR PERFORMING INSTALLATION, ENGINEER, SUPPLIER, AND ANY OTHER APPROPRIATE REPRESENTATIVE.

KHA PROJECT 149170012		DATE SEPT 2021		SCALE AS SHOWN		DESIGNED BY RJO		DRAWN BY ATE		CHECKED BY JAM		DATE:	
PAVEDRAIN DETAILS		WATERSTAR ORLANDO		FLORIDA		ORANGE COUNTY		SHEET NUMBER C8.2		REVISIONS		No.	
Kimley»Horn		© 2021 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 PHONE: 407-898-1511 WWW.KIMLEY-HORN.COM CA 00000696		LICENSED PROFESSIONAL		BY		DATE					

PAVEDRAIN SPECIFICATIONS	PAVEDRAIN SPECIFICATIONS	PAVEDRAIN SPECIFICATIONS
<p>1.0 SUBMITTALS</p> <p>A. REFER TO SECTION 01 33 00 – SUBMITTAL PROCEDURES</p> <p>B. SHOP DRAWINGS: SUBMIT DESIGN DETAILS, UNIT DETAILS, CROSS–SECTIONS AND LAYOUTS AS PER CONTRACT DOCUMENTS TO ENGINEER OF RECORD (EOR).</p> <p>C. SAMPLES:</p> <ol style="list-style-type: none"> 1. NATURAL GRAY: SUBMIT ONE (1) FULL–SIZED P–ACB SAMPLE. 2. COLOR: SUBMIT 4" X 4" SAMPLES REPRESENTATIVE OF COLOR(S) SELECTED WITHIN THIS SPECIFICATION OR NOTED ON CONTRACT DOCUMENTS 3. MINIMUM 3 LB. SAMPLES OF PROPOSED SUBBASE &/OR BASE AGGREGATE MATERIALS. <p>D. GEOSYNTHETIC: SUBMIT PRODUCT DATA SHEET(S) AND TEST REPORTS FOR GEOSYNTHETIC(S) PROPOSED FOR USE BY EOR WITHIN THIS SPECIFICATION OR ON CONTRACT DOCUMENTS.</p> <p>E. SUBMIT TO THE EOR MANUFACTURERS' PRINTED INSTALLATION MANUAL, LITERATURE, LAYOUT DRAWNGS, AND PRODUCT SPECIFICATIONS.</p> <p>F. CERTIFICATION OF COMPLIANCE</p> <ol style="list-style-type: none"> 1. TEST REPORTS – INDICATE COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS INCLUDING: <ul style="list-style-type: none"> a. P–ACB UNIT COMPRESSIVE STRENGTH, MOISTURE CONTENT AND DENSITY ON LIKE UNITS, TESTED IN ACCORDANCE TO ASTM C140 BY INDEPENDENT LABORATORY PER UNIT REQUIREMENTS OF ASTM D6684, TABLE 1. b. SIEVE ANALYSIS OF ALL AGGREGATE GRADES INDICATED IN CONTRACT DOCUMENTS, SAMPLED ACCORDING TO ASTM D75 AND TESTED IN ACCORDANCE TO ASTM C136. c. SPECIFIED STANDARD SIZES OF COARSE AGGREGATES SHALL COMPLY WITH SIZES GIVEN IN ACCORDANCE TO ASTM D448, TABLE 1. 2. PERFORMANCE COMPLIANCE – INDICATE COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS INCLUDING: <ul style="list-style-type: none"> a. INFILTRATION PERFORMANCE – SUBMIT INDEPENDENT LABORATORY TEST REPORT INDICATING IN–PLACE INFILTRATION PERFORMANCE OF: AVERAGE OF THREE (3) TESTS OF ONE THOUSAND (1,000) INCHES PER HOUR (IN/HR.). TEST SHALL BE PERFORMED IN ACCORDANCE TO ASTM C1781 OR C1701 AND BASED ON AN OUTDOOR WORKING SURFACE WITH TYPICAL BASE MATERIAL AND INSTALLATION. b. STRUCTURAL PERFORMANCE – DESIGN OF THE P–ACB SHALL BE CAPABLE OF SUPPORTING AASHTO H–20, HS–20 AND HS–25 TRUCK LOADING WITH PROPER SUBGRADE AND BASE INSTALLATION. THE P–ACB'S SHALL BE ANALYZED AS UNREINFORCED CONCRETE ARCHES SUPPORTING A UNIFORM TRUCK TIRE LOAD WITH IMPACT PER AASHTO STANDARDS AS TESTED BY AN INDEPENDENT LABORATORY. c. MAINTAINABILITY – PROVIDE MAINTENANCE STUDY BASED ON AT LEAST 24 MONTHS BY AN INDEPENDENT OR THIRD PARTY REPRESENTATIVE WHICH INCLUDES PRE AND POST INFILTRATION TESTING DOCUMENTATION IN MULTIPLE LOCATIONS IN ACCORDANCE WITH ASTM C1781 OR C1701. THE STUDY SHALL SHOW THAT AFTER MANUFACTURERS' RECOMMENDED MAINTENANCE THAT THE ORIGINAL INFILTRATION PERFORMANCE OF THE PERMEABLE SYSTEM CAN EFFECTIVELY BE RESTORED TO 80% +/- 10% OF INITIAL INFILTRATION RATES. <p>G. SUBSTITUTIONS</p> <ol style="list-style-type: none"> 1. NO MATERIAL SHALL BE CONSIDERED AS AN EQUIVALENT TO THE P–ACB SPECIFIED HEREIN UNLESS IT MEETS ALL AREAS OF THIS SPECIFICATION WITHOUT EXCEPTION. 2. MANUFACTURER'S REQUESTING TO SUBMIT MATERIALS AS EQUIVALENT MUST PROVIDE RECORDS, DATA, INDEPENDENT LABORATORY TEST RESULTS, SAMPLES, CERTIFICATIONS, AND DOCUMENTATION MEETING ALL AREAS OF THIS SPECIFICATION WITHOUT EXCEPTION. ANY REQUESTS MUST BE SUBMITTED TO EOR <u>15 DAYS PRIOR TO BID DATE</u>. <p>1.1 SCHEDULING</p> <p>A. CONTRACTOR SHALL CONTACT P–ACB MANUFACTURER TO DETERMINE NECESSARY LEAD TIME TO PRODUCE UNIT MATERIAL ORDER.</p> <p>B. SCHEDULE MANUFACTURE AND DELIVERY OF P–ACB'S TO COINCIDE WITH CONSTRUCTION SCHEDULE TO PREVENT STORAGE FOR EXTENDED PERIODS.</p> <p>C. APPROXIMATELY TWO (2) WEEKS PRIOR TO THE START OF THE INSTALLATION, A PRECONSTRUCTION MEETING SHALL OCCUR WITH REPRESENTATIVE(S) FROM THE DESIGN TEAM, GENERAL CONTRACTOR, SITE CONTRACTOR, INSTALLATION CONTRACTOR AND MANUFACTURERS' REPRESENTATIVE.</p> <p>1.2 DELIVERY, STORAGE AND HANDLING</p> <p>A. P–ACB INDIVIDUAL BLOCKS MUST BE DELIVERED ON WOODEN PALLETS AND MARKED ACCORDINGLY.</p> <p>B. ALL P–ACB'S SHALL BE SOUND AND FREE OF DEFECTS THAT WOULD INTERFERE WITH PROPER PLACEMENT OR THAT WOULD IMPAIR THE STRENGTH OF LONGEVITY OF THE INSTALLATION.</p> <p>C. MINOR CRACKS INCIDENTAL TO THE USUAL METHOD OF MANUFACTURE; SCUFFING OR CHIPPING THAT RESULTS FROM CUSTOMARY METHODS OF HANDLING IN SHIPPING, DELIVERY AND PLACEMENT SHALL NOT BE DEEMED GROUNDS FOR REJECTION.</p>	<p>B. ACCEPTABLE MANUFACTURERS AND DISTRIBUTION PARTNERS:</p> <ol style="list-style-type: none"> 1. LOCAL – ACF ENVIRONMENTAL. (800) 448–3636, SALES@ACFENVIRONMENTAL.COM WWW.ACFENVIRONMENTAL.COM 2. NATIONAL – PAVEDRAIN, LLC. (888) 575–5339, INFO@PAVEDRAIN.COM WWW.PAVEDRAIN.COM 3. MANUFACTURER – TITAN AMERICA. CONTACT: GREG STRICKLAND 561–291–3459, GSTRICKLAND@TITANAMERICA.COM <p>2.2 AGGREGATE MATERIALS</p> <p>A. OPEN–GRADED COARSE AGGREGATE: SELECT COARSE AGGREGATE SHALL BE CLEAN MATERIAL FREE FROM ORGANIC MATERIALS AND ANGULAR ON ALL SIDES. SELECT COARSE AGGREGATE SHALL MEET THE GRADATIONS THAT ARE LISTED IN TABLE 1 OF ASTM D448 AND BASED ON SIEVE ANALYSIS IN ACCORDANCE TO ASTM C136. RECYCLED AGGREGATE MATERIAL IS NOT ALLOWED WITHIN THE TOP 4–6" ELEVATION DIRECTLY CONTACTING THE BOTTOM OF THE PAVEDRAIN UNITS.</p> <ol style="list-style-type: none"> 1. BASE COURSE AGGREGATE: ASTM GRADE #57 STONE SHALL BE USED AS THE FINISH (TOP) 4–6" LAYER OF STONE DIRECTLY UNDERNEATH THE PAVEDRAIN UNITS. 2. SECONDARY SUB–BASE AGGREGATE: ASTM GRADE #2, #3 OR #4 AS DETERMINED BY ENGINEER OF RECORD, THICKNESS AS INDICATED BY CROSS–SECTIONS ON THE SHOP DRAWINGS &/OR CONTRACT DOCUMENTS. CONTACT MANUFACTURER OR DISTRIBUTOR ABOUT LOCAL AVAILABILITY OF DIFFERENT AGGREGATE GRADES <p>2.3 TRANSITION AND EDGE RETRAINTS</p> <p>A. TRANSITION: UTILIZE PAVEDRAIN END BLOCK, SOLID BLOCK AND HALF BLOCK SHAPES TO MAKE SMOOTH TRANSITIONS WITH CURBS AND OTHER RIGID SURFACES AS PER SHOP DRAWINGS &/OR CONTRACT DOCUMENTS.</p> <p>B. EDGE RESTRAINT: TYPE AND DIMENSIONS SHALL BE INDICATED BY EOR AS PER SHOP DRAWINGS &/OR CONTRACT DOCUMENTS.</p> <p>2.4 GEOSYNTHETIC MATERIALS</p> <p>A. GEOTEXTILE: ACF M200 (OR APPROVED EQUAL), A HIGH STRENGTH, HIGH WATER FLOW, WOVEN MONOFILAMENT OR MULTIFILAMENT GEOTEXTILE AS SPECIFIED BY EOR BASED ON NATIVE SOIL PROPERTIES.</p> <p>B. GEOGRID: TENSAR BX–1100 OR SYNTEEN STF–P11 (OR APPROVED EQUAL) AS SPECIFIED BY EOR BASED ON NATIVE SOIL PROPERTIES. REQUIREMENT OF GEOGRID SEPARATOR TO BE DETERMINED BY THE ENGINEER OF RECORD</p> <p>PART 3 – EXECUTION</p> <p>3.1 EXAMINATION AND INSPECTION</p> <p>A. THE CONTRACTOR SHALL VERIFY THAT THE SUBGRADE HAS BEEN EXCAVATED, SHAPED, STABILIZED AND COMPACTED IN ACCORDANCE TO SECTIONS 31 22 00, 31 23 00, 31 32 00 & 31 34 00 AND CONFORMS TO THE LINES, GRADES AND CROSS–SECTIONS SHOWN ON CONTRACT DOCUMENTS.</p> <p>B. VERIFY THAT NATIVE SUBGRADE HAS BEEN COMPACTED TO A MAXIMUM OF 95% MODIFIED PROCTOR IN ACCORDANCE TO ASTM D 1557. DO NOT OVER OVER–COMPACT OR RUT NATIVE SUBGRADE. OVER–COMPACTION OF THE NATIVE SOIL SUBGRADE COULD REDUCE THE INFILTRATION RATE OF THE NATIVE SOIL AND MUST BE MINIMIZED</p> <p>C. IMMEDIATELY PRIOR TO PLACING THE PAVEDRAIN UNITS, THE FINAL PREPARED SUB–BASE AGGREGATE SHALL BE INSPECTED BY THE EOR AND WITNESS TO A PROOF ROLL TEST BY A FULLY LOADED DUMP TRUCK. UNSATISFACTORY CONDITIONS MUST BE CORRECTED PRIOR TO INSTALLATION OF THE PAVEDRAIN UNITS.</p> <p>3.2 GEOSYNTHETIC INSTALLATION</p> <p>A. GEOTEXTILE: THE CONTRACTOR SHALL PLACE ACF M200 (OR APPROVED EQUAL) WOVEN MONOFILAMENT OR MULTIFILAMENT GEOTEXTILE FLAT ON SUBGRADE AND VERTICAL SECTIONS OF BASE AGGREGATE FREE OF WRINKLES AND OVERLAPPING A MINIMUM OF TWELVE (12) INCHES. BASED ON THE SOIL PROPERTIES OF THE SITE, THE GEOTECHNICAL ENGINEER SHALL DETERMINE WHAT STRENGTH GEOTEXTILE IS REQUIRED</p> <p>B. GEOGRID: INSTALL TENSAR BX–1100 OR SYNTEEN STF–P11 (OR APPROVED EQUAL) DIRECTLY ON TOP OF PROPERLY PREPARED AND LEVELED FINAL AGGREGATE BASE. REQUIREMENT OF GEOGRID SEPARATOR TO BE DETERMINED BY THE ENGINEER OF RECORD</p> <p>3.3 AGGREGATE SUB BASE INSTALLATION</p> <p>A. THE THICKNESS OF THE SUB–BASE, REQUIREMENT OF MULTIPLE GRADATIONS OF OPEN–GRADED COARSE AGGREGATE AND INTERMEDIATE GEOSYNTHETIC SHALL BE INDICATED BY THE EOR AND DETAILED ON THE CONTRACT DOCUMENTS. THE MINIMUM THICKNESS OF OPEN–GRADED COARSE AGGREGATE IS SIX (6) INCHES. IF MORE THAN SIX (6) INCHES OF BASE AGGREGATE IS REQUIRED, ONLY THE TOP FOUR TO SIX (4–6) INCHES SHALL BE ASTM GRADE #57.</p> <p>B. ALL BASE AGGREGATES SHALL BE COMPACTED IN SIX TO EIGHT (6–8") INCH LIFTS WILL A ROLLER COMPACTOR AND FINAL GRADE LEVEL COMPACTED WITH A MINIMUM 10,000 LB. VIBRATORY PLATE COMPACTOR IN WITH AT LEAST TWO PASSES IN BOTH THE PERPENDICULAR AND PARALLEL DIRECTIONS. OPEN–GRADED BASE AGGREGATE INSTALLATION SHALL NOT DAMAGE OR DISLODGE THE GEOTEXTILE.</p> <ol style="list-style-type: none"> 1. WHEN USING MULTIPLE AGGREGATE LAYERS INCLUDING ASTM #2, #3 OR #4, THE CONTRACTOR SHALL COMPACT A 2" LAYER OF ASTM #57 INTO THE ASTM #2, #3 OR #4. <p>C. FINISHED GRADE SHALL BE A SMOOTH, PLANE SURFACE WITH NO SIGN OF MOVEMENT AND CONFORM TO THE LINES, GRADES AND CROSS–SECTIONS SHOWN ON CONTRACT DOCUMENTS.</p> <p>3.4 PAVEDRAIN PERMEABLE ARTICULATING CONCRETE BLOCK INSTALLATION</p> <p>A. REFER TO: PAVEDRAIN INSTALLATION MANUAL (LATEST EDITION)</p> <p>B. HAND OR MECHANICAL PLACING PAVEDRAIN UNITS</p> <ol style="list-style-type: none"> 1. THE CONTRACTOR SHALL DETERMINE THE BEST STARTING POINT OF THE PAVEDRAIN UNIT INSTALLATION TO CONFORM TO THE LINES, GRADES AND ELEVATIONS SHOWN ON THE CONTRACT DOCUMENTS. 2. PLACE PAVEDRAIN UNITS TIGHT TOGETHER IN RUNNING BOND PATTERN SUCH THAT ONE UNIT IS DIRECTLY IN CONTACT WITH ONE HALF OF THE TWO ADJACENT UNITS. PLACE UNITS IN SUCH A MANNER AS TO ENSURE THAT THE PATTERN REMAINS SQUARE TO CURBS, TRANSITIONS OR ADJACENT PAVEMENTS. 3. VERIFY THAT EACH PAVEDRAIN UNIT MAKES CONTACT WITH THE GEOGRID OR OPEN–GRADED AGGREGATE SUB–BASE AND IS TIGHTLY ENGAGED WITH ADJACENT UNITS. 4. WHEN NECESSARY, MAKE PARTIAL UNITS FROM SAW CUTTING SOLID, ARCH–LESS PAVEDRAIN UNITS. TRANSITIONS AGAINST CURBS AND OTHER RIGID PAVEMENTS SHOULD BE MADE WITH MAXIMUM ONE–HALF (1/2) INCH GAPS UTILIZING SOLID, END AND HALF PAVEDRAIN UNITS. <p>C. ADJUSTMENTS</p> <ol style="list-style-type: none"> 1. MINOR ADJUSTMENTS TO PROPERLY ENGAGE PAVEDRAIN UNITS SHALL BE MADE WITH A DEAD BLOW HAMMER OR RUBBER Mallet. 2. ONCE ALL PAVEDRAIN UNITS HAVE BEEN INSTALLED, MINOR DIFFERENTIAL HEIGHTS BETWEEN UNITS CAN BE CORRECTED WITH A SMALL NON–VIBRATORY SINGLE OR DOUBLE BARREL ROLLER COMPACTOR OR VIBRATORY PLATE COMPACTOR. WHEN USING PLATE COMPACTOR, PROTECT UNITS WITH NONWOVEN GEOTEXTILE OR MAT TO ELIMINATE SCUFFING. 3. INSPECT COMPLETED INSTALLATION AND REPLACE ANY CRACKED OR DAMAGED UNITS. <p>3.5 TOLERANCES</p> <p>A. NO INDIVIDUAL PAVEDRAIN UNIT SHALL PROTRUDE MORE THAN ONE–QUARTER (1/4) INCH WITHIN THE PLANE OF FINAL PLACED UNITS/MATS.</p> <p>B. NO GAP BETWEEN THE INDIVIDUAL PAVEDRAIN UNITS SHALL EXCEED ONE–HALF (1/2) INCH.</p> <p>3.6 FINISHING</p> <p>A. THE JOINTS BETWEEN THE PAVEDRAIN UNITS DO NOT REQUIRE BACKFILLING WITH SMALLER AGGREGATE JOINT MATERIAL OR SAND IN ORDER TO FUNCTION PROPERLY. THE JOINTS ARE DESIGNED TO BE LEFT OPEN; THIS INCLUDES FOLLOWING MAINTENANCE OF THE PAVEDRAIN SYSTEM.</p>	<p>3.7 POST INSTALLATION CERTIFICATION</p> <p>A. UPON COMPLETION OF THE PAVEDRAIN INSTALLATION, THE SURFACE INFILTRATION RATE OF THE PERMEABLE PAVEMENT AREA SHALL BE VERIFIED IN ACCORDANCE WITH ASTM C1781 OR C1701 TO CONFIRM THE REQUIRED INFILTRATION RATE AS PER TABLE 1 IN THIS SPECIFICATION.</p> <p>B. IF THE SYSTEM FAILS TO PERFORM AS REQUIRED IN TABLE 1 OF THIS SPECIFICATION, IT SHALL BE REMOVED AND REPLACED AT THE SUPPLIER'S EXPENSE.</p> <p>C. THE EXPENSES ASSOCIATED WITH THIS POST INSTALLATION INFILTRATION VERIFICATION ARE INCLUDED IN THE COST OF THE PERMEABLE SYSTEM AND PROVIDED BY THE SUPPLIER.</p> <p>3.8 INSPECTION AND MAINTENANCE OF P–ACB SYSTEM</p> <p>A. REFER TO: PAVEDRAIN MAINTENANCE MANUAL (LATEST EDITION)</p> <p>B. THE MANUFACTURER'S REPRESENTATIVE OF THE P–ACB SHALL PROVIDE A MINIMUM 36 MONTH MAINTENANCE PROGRAM, INCLUDING A VISUAL INSPECTION REPORT WITH PHOTOS AND A RECOMMENDED CLEANING SCHEDULE WITH A VACUUM TRUCK SUCH AS THE ELGIN® WHIRLWIND® OR MEGAWIND® OR WITH THE PAVEDRAIN® VAC HEAD AND ASSOCIATED COMBINATION SANITATION VAC TRUCK. REFER TO THE PAVEDRAIN VAC HEAD IN</p>

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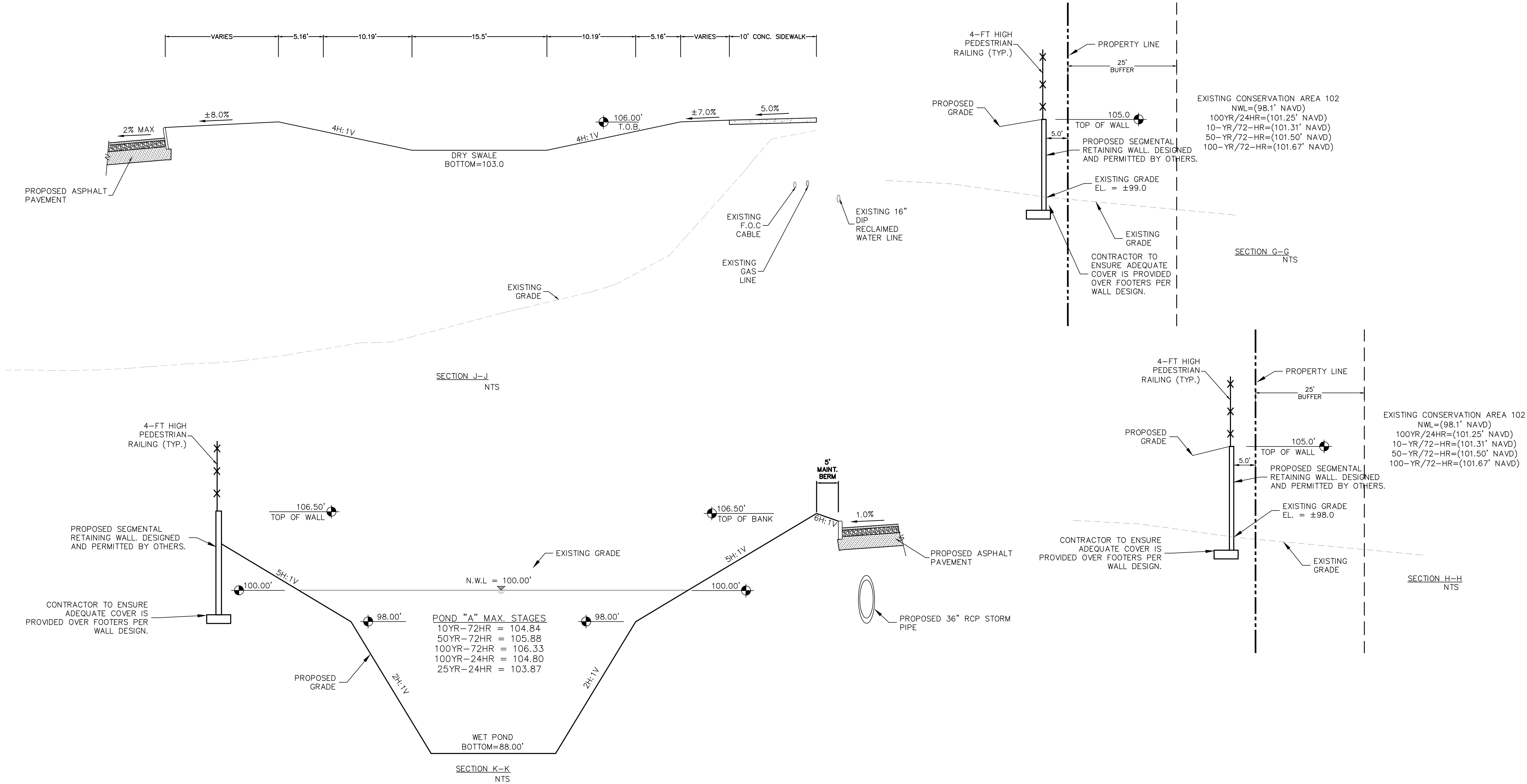
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