OWNER:

WILL KRIEG P.O. BOX 7902 JACKSONVILLE, FL 32210 OFFICE 904-379-9242 WWW.RIVEROAKSOUTDOOR.COM WILL@RIVEROAKSOUTDOOR.COM

<u>GEOTECHNICAL</u> ENGINEER

ELLIS - ECS FLORIDA 7064 DAVIS CREEK RD. JACKSONVILLE, FLORIDA 32256 PH: (904) 880-0960 FX: (904) 880-0970

ENGINEER:

MAI ENGINEERING SERVICES, INC 2510 US 1 S, SUITE D ST. AUGUSTINE, FL 32086 PHONE: (904) 794-1760 FAX: (904)-794-1768 ATTN. QUOC H. MAI, P.E.

FRANK JONES & ASSOCIATES 6015 CHESTER CIRCLE JACKSONVILLE, FLORIDA 32217

TOPO SURVEYOR

PH: (904) 448-5424

ELECTRIC:

GREEN COVE SPRINGS ELECTRIC 321 WALNUT ST. GREEN COVE SPRINGS, FL 32043 PHONE: (904)-297-7500

COMMUNICATION

8171 BAYMEADOWS WAY W. 3RD FLOOR JACKSONVILLE, FL 32256 PHONE: (904) 407-2549 ATTN: KEVIN DOW

WATER & SEWER:

CITY OF GREEN COVE SPRINGS UTILITIES 321 WALNUT ST GREEN COVE SPRINGS, FL 32043

THE CITY OF GREEN COVE SPRINGS

321 WALNUT ST GREEN COVE SPRINGS, FL 32043 904-297-7500

ST JOHNS RIVER WATER MANAGEMENT DISTRICT

7775 BAYMEADOWS WAY, SUITE 102 JACKSONVILLE, FL 32256 904-730-6270 800-852-1563

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION:

FDEP-NORTHEAST DISTRICT 8800 BAYMEADOWS WAY WEST, SUITE 100 JACKSONVILLE, FLORIDA 32256 (904) 256-1700

SITE DEVELOPMENT PLANS FORRIVER OAKS INDUSTRIAL PARK

PARCEL ID. NO.: 38-06-26-016564-002 SITE ADDRESS: 1609 COOKS LANE., GREEN COVE SPRINGS, FLORIDA

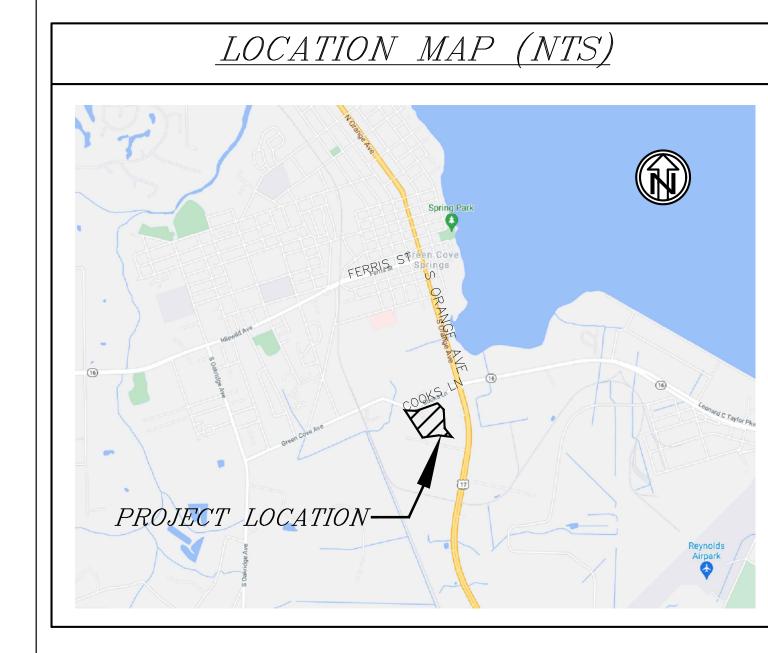
PREPARED BY:



DRAWING INDEX

1.	COVER SHEET
2.	GENERAL NOTES
3.	TREE SURVEY
4.	TOPO SURVEY
5.	EROSION CONTROL PLAN
6.	DEMOLITION PLAN
7.	SITE PLAN
8.	GRADING PLAN
9.	UTILITIES PLAN
10.	LANDSCAPE PLAN
11.	MOT INDEX
1213.	EROSION CONTROL DETAILS
14.	GENERAL DETAILS
15.	WATER SERVICE DETAILS
16.	SEWER SYSTEM DETAILS
17.	DRAINAGE DETAILS

PUMP STATION DETAILS







Sunshine

0 0 0

RIVER OAKS GREEN COVE

DATE: 8/10/20231369

GENERAL NOTES:

- 1. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION
- 2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURE.
- 3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL LINE AND GRADE STAKES IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER OR THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY ERRORS.
- 5. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION FOR LOCATION OF EXISTING UTILITIES, IN ORDER TO PREVENT DAMAGE AND COORDINATE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER AND OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.
- 7. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS REQUESTED BY THE OWNER FOR THIS PROJECT.
- 9. THE OWNER WILL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL PERMITS RECEIVED FOR THE PROJECT.
- 10. THE CONTRACTOR SHALL PROTECT AND USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
- 11. ALL PROPERTY CORNERS AND SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED, THE PROJECT ENGINEER AND OWNER SHOULD BE NOTIFIED IMMEDIATELY IN ORDER THAT THE COUNTY MAY HAVE A SURVEYOR REFERENCE SAID POINT PRIOR TO DISTURBANCE. ALSO, ALL G.P.S. CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE CONTROL POINT(S) AT THEIR EXPENSE.
- 12. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS ANY SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS IN COMPLIANCE WITH THE TOWN OF MARINELAND LAND DEVELOPMENT CODE.
- 13. SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCH MARKS, IS REQUIRED.
- 14. THE CONTRACTOR SHALL CONTACT THE TOWN OF MARINELAND DEVELOPMENT SERVICES INSPECTOR 24 HOURS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO THE FINAL INSPECTION.
- 15. ANY CHANGES TO THE EXISTING BUILDING (INCLUDING BUT NOT LIMITED TO RE-ROOF AND PAINT COLOR CHANGES) LANDSCAPING, AND FENCES/WALL REQUIRES THE APPROVAL BY THE TOWN OF MARINELAND.

EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.
- 2. THE CONTRACTOR SHALL SEED & MULCH OR SOD ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES.
- 3. SILT FENCES SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION .
- 4. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED.
- 5. ALL SIDE SLOPES OF STORM WATER MANAGEMENT AREAS SHALL BE SODDED UPON COMPLETION OF FINAL GRADING.
- 6. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED MATERIALS BY INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR HAYBALES.
- 7. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION ACTIVITIES WHERE PROTECTION AGAINST TURBID WATERS DISCHARGE MAY OCCUR.

MAINTENANCE OF TRAFFIC NOTES:

- 1. ADVANCE CONSTRUCTION SIGNAGE INDEX 602 SHALL BE POSTED.
- 2. TRAFFIC SHALL BE RESTRICTED TO A SINGLE LANE WHEN ANY WORK ENCROACHES THE AREA BETWEEN THE CENTERLINE AND 2 FEET OUTSIDE THE EDGE OF PAVEMENT. ONE—LANE CLOSURES SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX No. 603.
- 3. ALL WORK WITHIN THE FDOT RIGHT OF WAY SHALL CONFORM TO THE MOST CURRENT FDOT STANDARDS AND SPECIFICAATIONS.
- 4. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 30 FEET FROM THE EDGE OF EXISTING PAVEMENT AND SHALL BE PROTECTED BY TYPE II BARRICADES WITH FLASHING YELLOW LIGHTS.
- 5. THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER DARK.
- 6. CONTRACTOR SHALL NOTIFY CITY OF GREEN COVE SPRINGS PERMITTING OFFICE.
- 7. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE SUNSHINE STATE ONE CALL SYSTEM AT (800)-432-4770 FOR LOCATION OF UNDERGROUND UTILITIES.

TRAFFIC CONTROL/STRIPING NOTES:

- 1. SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE FLORIDA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE JURISDICTIONAL TRAFFIC DEPARTMENT TYPICAL DRAWINGS FOR ROADWAY SIGNING, STRIPING & GEOMETRICS
- 2. ALL PAVEMENT MARKINGS ARE TO CONSIST OF 90 MIL. THERMOPLASTIC.
- 3. REPLACE ALL EXISTING RPM'S REMOVED OR DAMAGED BY THIS PROJECT, TO MEET 2015 FDOT STANDARDS.
- 4. SIGNS THAT REQUIRE RELOCATION TO BE RELOCATED PER CURRENT STANDARDS 11860 AND 17302.

SITE PREPARATION NOTES:

- 1. NORMAL, GOOD PRACTICE SITE PREPARATION PROCEDURES SHALL BE USED FOR THIS PROJECT. THESE PROCEDURES INCLUDE: STRIPPING THE SITE OF EXISTING VEGETATION AND TOPSOIL, COMPACTING THE SUBGRADE AND PLACING NECESSARY FILL OR BACKFILL TO GRADE WITH ENGINEERED FILL. A MORE DETAILED SYNOPSIS OF THIS WORK IS AS FOLLOWS:
- 2. PRIOR TO CONSTRUCTION, THE LOCATION OF ANY EXISTING UNDERGROUND UTILITY LINES WITHIN THE CONSTRUCTION AREA SHOULD BE ESTABLISHED. PROVISIONS SHOULD THEN BE MADE TO RELOCATE INTERFERING UTILITIES TO APPROPRIATE LOCATIONS. ABANDONED PIPES SHALL BE PROPERLY REMOVED OR PLUGGED, AS THEY MAY SERVE AS CONDUITS FOR SUBSURFACE EROSION WHICH MAY SUBSEQUENTLY LEAD TO EXCESSIVE SETTLEMENT OF OVERLAY STRUCTURE(S).
- 3. STRIP THE PROPOSED CONSTRUCTION LIMITS OF ALL GRASS, ROOTS, TOPSOIL AND OTHER DELETERIOUS MATERIALS WITHIN AND FOR 3 FEET BEYOND THE PERIMETER OF THE PROPOSED PAVED AREAS. SOME ISOLATED AREAS MAY REQUIRE MORE THAN 12 INCHES OF STRIPPING OR UNDERCUTTING. TYPICAL STRIPPING AT THIS SITE TO DEPTHS OF 6 TO 12 INCHES.
- 4. IT IS RECOMMENDED THE TOP OF THE CLAYEY SANDS BE MAINTAINED A MINIMUM OF 2 FEET BELOW THE PROPOSED BOTTOM OF THE BASE MATERIAL OR CONCRETE PAVEMENT. IF THE SITE GRADING IS SUCH THAT THE MINIMUM SEPARATION DOES NOT EXIST, WE RECOMMEND UNDERCUTTING THE CLAYEY MATERIALS TO MAINTAIN THIS SEPARATION AND BACKFILLING WITH CLEAN STRUCTURAL FILL, AS DESCRIBED BELOW.
- 5. THE SEASONAL HIGH GROUNDWATER LEVEL IS ESTIMATED TO BE ONE FOOT BELOW THE EXISTING GROUND. FOR PLANNING PURPOSES, GROUNDWATER CONTROL MEASURES (DEWATERING) SHOULD BE ANTICIPATED FOR THE STRIPPING AND EARTHWORK OPERATIONS. TEMPORARY GROUNDWATER CONTROL MAY BE ACHIEVED BY PUMPING FROM SUMPS LOCATED IN PERIMETER DITCHES. EACH SUMP SHOULD BE LOCATED OUTSIDE THE ROADWAY AREAS TO AVOID LOOSENING OF THE FINE SANDY SUBGRADE SOILS.
- 6. COMPACT THE SUBGRADE FROM THE SURFACE WITH A LIGHT WEIGHT VIBRATORY ROLLER (A 2 TO 3 TON ROLLER, STATIC WEIGHT AND 3 FOOT DRUM DIAMETER) OR TRACKED DOZER EQUIPMENT UNTIL A MINIMUM DENSITY OF AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557), TO A DEPTH OF 12 INCHES BELOW THE COMPACTED SURFACE IS OBTAINED. A MINIMUM OF EIGHT (8) COMPLETE COVERAGES SHOULD BE MADE IN THE PAVEMENT CONSTRUCTION AREA WITH A ROLLER TO IMPROVE THE UNIFORMITY AND INCREASE THE DENSITY OF THE UNDERLYING SANDY SOILS. THE USE OF HEAVY VIBRATORY COMPACTION EQUIPMENT SHALL NOT BE UTILIZED DUE TO THE POTENTIAL FOR PUMPING OF THE NEAR-SURFACE CLAYEY SOILS ENCOUNTERED, UNLESS APPROVED BY THE ENGINEER.
- 7. SHOULD THE SUBGRADE SOILS EXPERIENCE PUMPING AND SOIL STRENGTH LOSS DURING THE COMPACTION OPERATIONS, COMPACTION WORK SHOULD BE IMMEDIATELY TERMINATED AND (1) THE DISTURBED SOILS REMOVED AND BACKFILLED WITH DRY STRUCTURAL FILL SOILS WHICH ARE THEN COMPACTED, OR (2) THE EXCESS PORE PRESSURES WITHIN THE DISTURBED SOILS ALLOWED TO DISSIPATE BEFORE RECOMPACTING.
- 8. TO AVOID PUMPING OF THE UNDERLAYING CLAYEY SOILS, SELF PROP— ELLED VIBRATING EQUIPMENT SHALL REMAIN A MINIMUM OF 2 FEET ABOVE THE CLAYEY SOILS. THE SANDY SOILS WITHIN 2 FEET OF THE CLAYEY SOILS MAY BE COMPACTED WITH A VIBRATORY ROLLER.
- 9. OPERATE IN THE STATIC MODE OR WITH A TRACK-MOUNTED DOZER TO AVOID DISTURBING THE CLAYEY SOILS. A MINIMUM OF 18 INCHES OF SAND SHALL OVERLAY THE CLAYEY SOILS PRIOR TO OPERATION OF ANY TYPE OF CONSTRUCTION EQUIPMENT. EXCESS DISTURBANCE OF THE CLAYEY SOILS WILL DEGRADE THE STRENGTH CHARACTERISTICS OF THE SOIL AND MAY RESULT IN AN UNSUITABLE SOIL WHICH WILL REQUIRE OVER-EXCAVATION AND SUBSEQUENT BACKFILLING WITH CLEAN FINE SAND FILL MATERIAL. IN AREAS WHERE CLAYEY SOILS ARE ENCOUNTERED NEAR THE GROUND SURFACE OR ARE EXPOSED BY OVER EXCAVATION, AN INITIAL LIFT OF STRUCTURAL FILL MAY BE PLACED PRIOR TO COMPACTION OF THE SUBGRADE SOILS.
- 10. DUE TO THE PRESENCE OF THE NEAR SURFACE CLAYEY SOILS, THE SITE MAY BECOME DIFFICULT TO WORK DURING WET WEATHER. IF CONSTRUCTION IS BEGUN DURING WET WEATHER, IT IS RECOMMENDED THE BUILDING AND PAVEMENT SUBGRADES NOT BE DISTURBED OTHER THAN TO STRIP VEGETATION. FILL AND GRADING OPERATIONS SHOULD BE PERFORMED WITH A MINIMUM DISTURBANCE TO THE SURFICIAL SOILS. IN THIS REGARD, IT IS RECOMMENDED THAT TRACK—MOUNTED EQUIPMENT BE USED ON SITE.
- 11. TEST THE SUBGRADE FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 10,000 SQUARE FEET.
- 12. PLACE FILL MATERIAL, AS REQUIRED. THE FILL SHOULD CONSIST OF CLEAN, FINE SAND WITH LESS THAN 10 PERCENT SOIL FINES. PLACE FILL IN UNIFORM 10 TO 12 INCH LOOSE LIFTS AND COMPACT EACH LIFT TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.

2510 US 1 SOUTH SUITE D	ST. AUGUSTINE, FL 32086	(904)794 - 1760	(904)794 - 1768	
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ENGINEERING SERVICES, IN

12/17/22 REVISION PER CITY REQUEST
04/12/2023 REVISION PER CITY AND WAD RAI
00/29/2023 REVISION PER CITY COLLIENTS

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ENG H.

KS INDUSTRIAL PARK
COVE SPRINGS, FLORIDA
PREPARED FOR
ER OAKS OUTDOOR, LLC

O Z

DEGN BY: QHI

DSGN BY: QHM

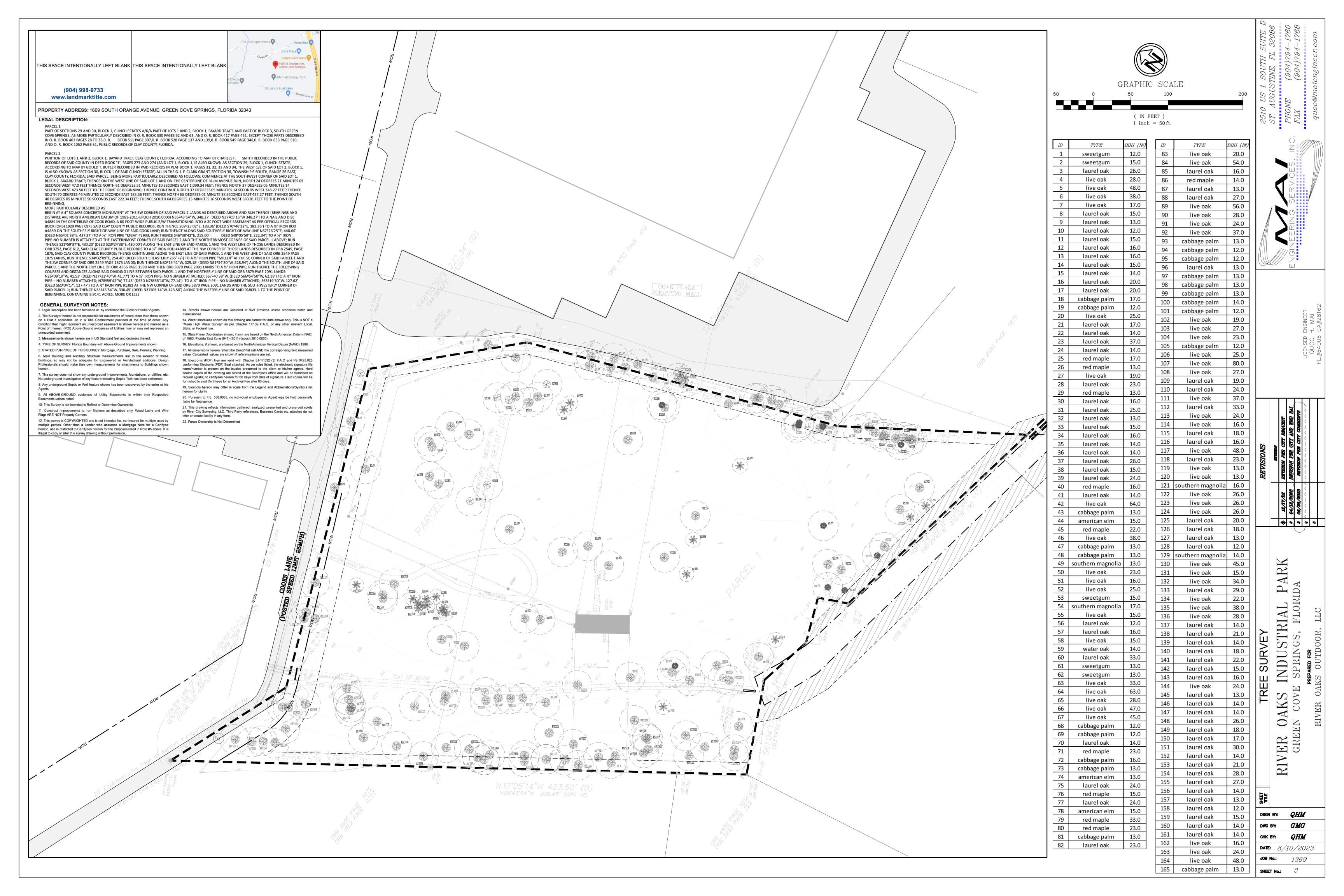
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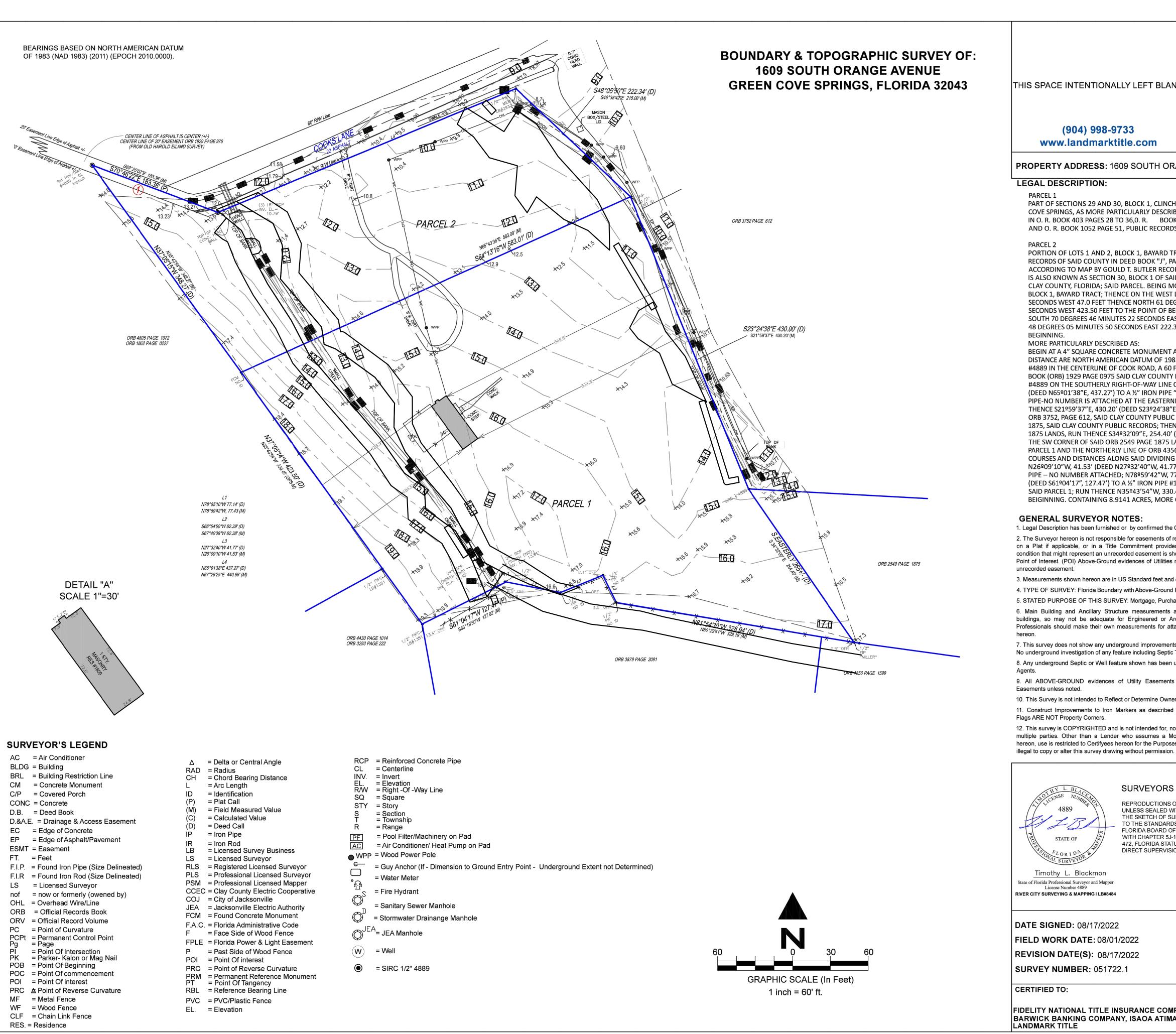
CHK BY: QHM

DATE: 8/10/2023

JOB No.: 1369

SHEET No.: 2





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Larry's Giant Subs Alternate Energy Tech.

(904) 998-9733 www.landmarktitle.com

PROPERTY ADDRESS: 1609 SOUTH ORANGE AVENUE, GREEN COVE SPRINGS, FLORIDA 32043

LEGAL DESCRIPTION:

PARCEL 1

PART OF SECTIONS 29 AND 30, BLOCK 1, CLINCH ESTATES A/K/A PART OF LOTS 1 AND 2, BLOCK 1, BAYARD TRACT, AND PART OF BLOCK 3, SOUTH GREEN COVE SPRINGS, AS MORE PARTICULARLY DESCRIBED IN O. R. BOOK 330 PAGES 62 AND 63, AND O. R. BOOK 417 PAGE 451, EXCEPT THOSE PARTS DESCRIBED IN O. R. BOOK 403 PAGES 28 TO 36,0. R. BOOK 511 PAGE 397,0. R. BOOK 528 PAGE 137 AND 139,0. R. BOOK 549 PAGE 346,0. R. BOOK 653 PAGE 510, AND O. R. BOOK 1052 PAGE 51, PUBLIC RECORDS OF CLAY COUNTY, FLORIDA.

PORTION OF LOTS 1 AND 2, BLOCK 1, BAYARD TRACT, CLAY COUNTY, FLORIDA, ACCORDING TO MAP BY CHARLES F. SMITH RECORDED IN THE PUBLIC RECORDS OF SAID COUNTY IN DEED BOOK "J", PAGES 273 AND 274 (SAID LOT 1, BLOCK 1, IS ALSO KNOWN AS SECTION 29, BLOCK 1, CLINCH ESTATE, ACCORDING TO MAP BY GOULD T. BUTLER RECORDED IN PAID RECORDS IN PLAT BOOK 1, PAGES 31, 32, 33 AND 34, THE WEST 1/2 OF SAID LOT 2, BLOCK 1, IS ALSO KNOWN AS SECTION 30, BLOCK 1 OF SAID CLINCH ESTATE) ALL IN THE G. I. F. CLARK GRANT, SECTION 38, TOWNSHIP 6 SOUTH, RANGE 26 EAST, CLAY COUNTY, FLORIDA; SAID PARCEL. BEING MORE PARTICULARLY, DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWEST CORNER OF SAID LOT 1, BLOCK 1, BAYARD TRACT; THENCE ON THE WEST LINE OF SAID LOT 1 AND ON-THE CENTERLINE OF PALM AVENUE RUN, NORTH 24 DEGREES 21 MINUTES 05 SECONDS WEST 47.0 FEET THENCE NORTH 61 DEGREES 51 MINUTES 10 SECONDS EAST 1,099.34 FEET; THENCE NORTH 37 DEGREES 05 MINUTES 14 SECONDS WEST 423.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 37 DEGREES 05 MINUTES 14 SECONDS WEST 348.27 FEET; THENCE SOUTH 70 DEGREES 46 MINUTES 22 SECONDS EAST 183.36 FEET; THENCE NORTH 65 DEGREES 01 MINUTE 38 SECONDS EAST 437.27 FEET; THENCE SOUTH 48 DEGREES 05 MINUTES 50 SECONDS EAST 222.34 FEET; THENCE SOUTH 64 DEGREES 13 MINUTES 16 SECONDS WEST 583.01 FEET TO THE POINT OF BEGINNING.

BEGIN AT A 4" SQUARE CONCRETE MONUMENT AT THE SW CORNER OF SAID PARCEL 2 LANDS AS DESCRIBED ABOVE AND RUN THENCE (BEARINGS AND DISTANCE ARE NORTH AMERICAN DATUM OF 1983-2011-EPOCH 2010.0000) N35º43'54"W, 348.27' (DEED N37º05'15"W 348.27') TO A NAIL AND DISC #4889 IN THE CENTERLINE OF COOK ROAD, A 60 FOOT WIDE PUBLIC R/W TRANSITIONING INTO A 20 FOOT WIDE EASEMENT AS PER OFFICIAL RECORDS BOOK (ORB) 1929 PAGE 0975 SAID CLAY COUNTY PUBLIC RECORDS; RUN THENCE S69º25'02"E, 183.36' (DEED S70º46'22"E, 183.36') TO A ½" IRON ROD #4889 ON THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID COOK LANE; RUN THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE N67º26'25"E, 440.66' (DEED N65º01'38"E, 437.27') TO A ½" IRON PIPE "MEM" #2933; RUN THENCE S46º38'42"E, 215.00' (DEED S48º05'50"E, 222.34') TO A ½" IRON PIPE-NO NUMBER IS ATTACHED AT THE EASTERNMOST CORNER OF SAID PARCEL 2 AND THE NORTHERNMOST CORNER OF SAID PARCEL 1 ABOVE; RUN THENCE S21º59'37"E, 430.20' (DEED S23º24'38"E, 430.00') ALONG THE EAST LINE OF SAID PARCEL 1 AND THE WEST LINE OF THOSE LANDS DESCRIBED IN 1875, SAID CLAY COUNTY PUBLIC RECORDS; THENCE CONTINUING ALONG THE EAST LINE OF SAID PARCEL 1 AND THE WEST LINE OF SAID ORB 2549 PAGE 1875 LANDS, RUN THENCE S34º32'09"E, 254.40' (DEED SOUTHEREASTERLY 265' +/-) TO A ½" IRON PIPE "MILLER" AT THE SE CORNER OF SAID PARCEL 1 AND THE SW CORNER OF SAID ORB 2549 PAGE 1875 LANDS; RUN THENCE N80º29'41"W, 329.18' (DEED N81º54'30"W, 328.94') ALONG THE SOUTH LINE OF SAID PARCEL 1 AND THE NORTHERLY LINE OF ORB 4356 PAGE 1599 AND THEN ORB 3879 PAGE 2091 LANDS TO A ½" IRON PIPE; RUN THENCE THE FOLLOWING COURSES AND DISTANCES ALONG SAID DIVIDING LINE BETWEEN SAID PARCEL 1 AND THE NORTHERLY LINE OF SAID ORB 3879 PAGE 2091 LANDS: N26º09'10"W, 41.53' (DEED N27º32'40"W, 41.77') TO A ½" IRON PIPE- NO NUMBER ATTACHED; S67º40'38"W, (DEED S66º54'50"W, 62.39') TO A ½" IRON PIPE – NO NUMBER ATTACHED; N78º59'42"W, 77.43' (DEED N78º55'10"W, 77.14') TO A ½" IRON PIPE – NO NUMBER ATTACHED; S63º19'50"W, 127.02' (DEED S61º04'17", 127.47') TO A ½" IRON PIPE #1381 AT THE NW CORNER OF SAID ORB 3879 PAGE 2091 LANDS AND THE SOUTHWESTERLY CORNER OF SAID PARCEL 1; RUN THENCE N35º43'54"W, 330.45' (DEED N37º05'14"W, 423.50') ALONG THE WESTERLY LINE OF SAID PARCEL 1 TO THE POINT OF BEIGINNING. CONTAINING 8.9141 ACRES, MORE OR LESS

GENERAL SURVEYOR NOTES:

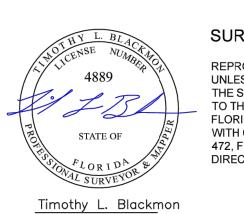
- 1. Legal Description has been furnished or by confirmed the Client or His/her Agents. 2. The Surveyor hereon is not responsible for easements of record other than those shown
- condition that might represent an unrecorded easement is shown hereon and marked as a Point of Interest. (POI) Above-Ground evidences of Utilities may or may not represent an unrecorded easement.
- 3. Measurements shown hereon are in US Standard feet and decimals thereof.
- 4. TYPE OF SURVEY: Florida Boundary with Above-Ground Improvements shown. 5. STATED PURPOSE OF THIS SURVEY: Mortgage, Purchase, Sale, Permits, Planning.
- 6. Main Building and Ancillary Structure measurements are to the exterior of those buildings, so may not be adequate for Engineered or Architectural additions. Design Professionals should make their own measurements for attachments to Buildings shown
- 7. This survey does not show any underground improvements, foundations, or utilities, etc. No underground investigation of any feature including Septic Tank has been performed. 8. Any underground Septic or Well feature shown has been uncovered by the seller or his
- 9. All ABOVE-GROUND evidences of Utility Easements lie within their Respective
- Easements unless noted. 10. This Survey is not intended to Reflect or Determine Ownership.
- 11. Construct Improvements to Iron Markers as described only. Wood Laths and Wire
- 12. This survey is COPYRIGHTED and is not intended for, nor Insured for multiple uses by multiple parties. Other than a Lender who assumes a Mortgage Note for a Certifyee hereon, use is restricted to Certifyees hereon for the Purposes listed in Note #5 above. It is

13. Streets shown hereon are Centered in R/W provided unless otherwise noted and

St. John's Boat Sales

- 14. Water shorelines shown on this drawing are current for date shown only. This is NOT a "Mean High Water Survey" as per Chapter 177.39 F.A.C. or any other relevant Local, State, or Federal rule.
- 15. State Plane Coordinates shown, if any, are based on the North American Datum (NAD) of 1983, Florida East Zone (941)-(2011)-(epoch 2010.0000)
- 16. Elevations, if shown, are based on the North American Vertical Datum (NAVD) 1988. 17. All dimensions hereon reflect the Deed/Plat call AND the corresponding field measured value. Calculated values are shown if reference irons are set.
- 18. Electronic (PDF) files are valid with Chapter 5J-17.032 (3) F.A.C and FS 0425.025 conforming Electronic (PDF) Seal attached. As per rules listed, the electronic signature file name/number is present on the invoice presented to the client or his/her agents. Hard sealed copies of the drawing are stored at the Surveyor's office and will be furnished on request (gratis) to certifyees hereon for 60 days from date of signature. Hard copies will be furnished to said Certifyees for an Archival Fee after 60 days.
- 19. Symbols hereon may differ in scale from the Legend and Abbreviations/Symbols list hereon for clarity.
- 20. Pursuant to F.S. 558.0035, no individual employee or Agent may be held personally liable for Negligence.
- 21. This drawing reflects information gathered, analyzed, presented and preserved solely by River City Surveying, LLC. Third Party references, Business Cards etc. attached do not infer or create liability in any form.
- 22. Fence Ownership is Not Determined

POINTS OF INTEREST:



SURVEYORS CERTIFICATION:

REPRODUCTIONS OF THIS SKETCH ARE NOT VALID UNLESS SEALED WITH FLORIDA PSM EMBOSSED SEAL. THE SKETCH OF SURVEY DEPICTED HEREON CONFORMS TO THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS IN ACCORDANCE WITH CHAPTER 5J-17.050-17.053, PURSUANT TO CHAPTER 472, FLORIDA STATUTES, AND WAS DONE UNDER MY DIRECT SUPERVISION.

1) ASPHALT STREET IN EASEMENT ALONG NORTH LINE IN THIS AREA

DATE SIGNED: 08/17/2022

FIELD WORK DATE: 08/01/2022

REVISION DATE(S): 08/17/2022

CERTIFIED TO:

FIDELITY NATIONAL TITLE INSURANCE COMPANY BARWICK BANKING COMPANY, ISAOA ATIMA LANDMARK TITLE



RIVER CITY SURVEYING & MAPPING 904-487-9054 | F. 904-998-9736 7220 FINANCIAL WAY | JACKSONVILLE, FL 32256

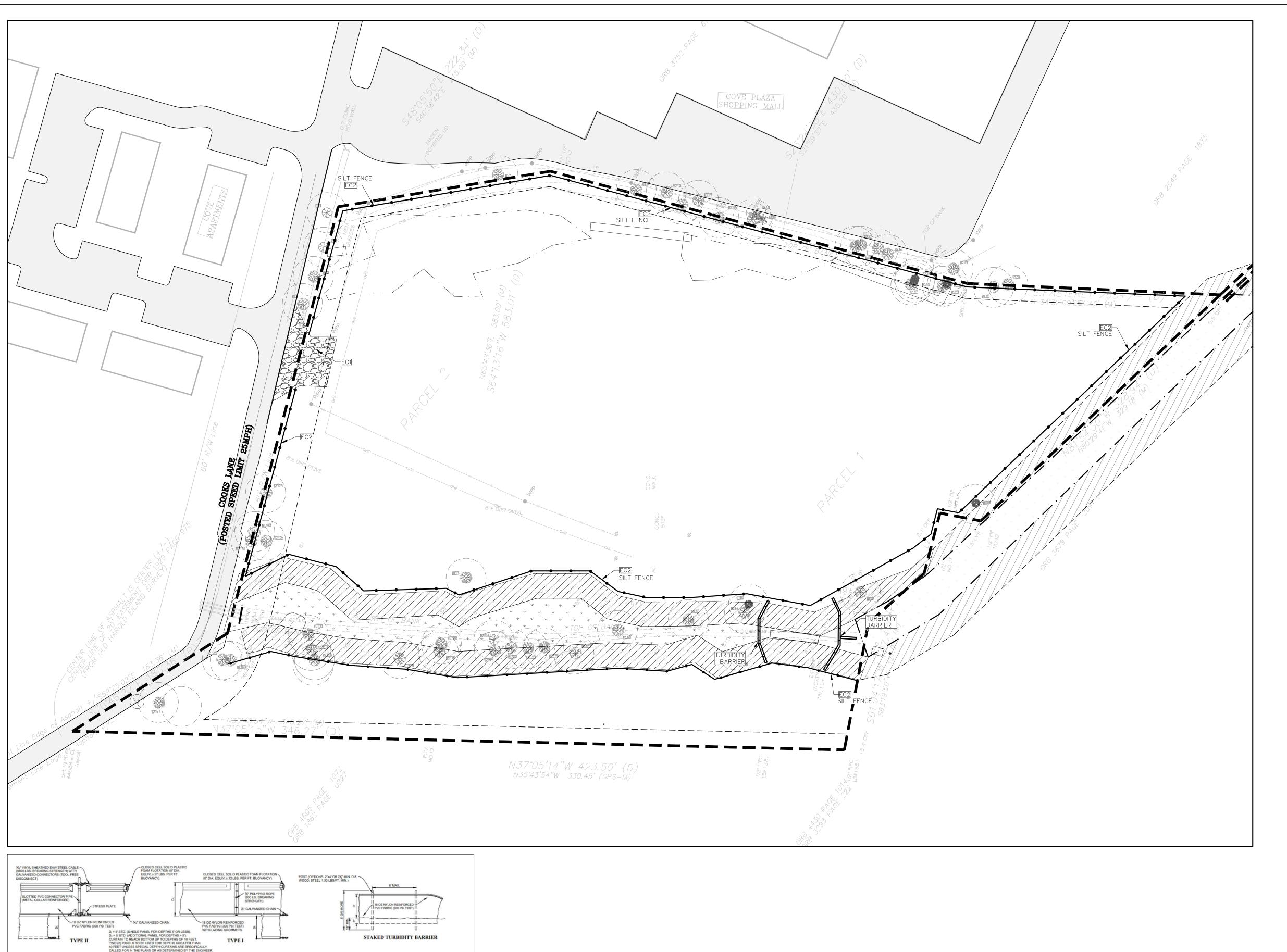
PAGE 1 OF 1

QHMDSGN BY: GMGDWG BY: CHK BY: DATE: 8/10/2023JOB No.: 1369 SHEET No.:

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NOTICE:
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

CURRENT

STRUCTURE ALIGNMENT

TURBIDITY BARRIER APPLICATIONS

TURBILITY BARRIER DETAIL EC4

LIMITS OF CONSTRUCTION

GENERAL NOTES

 FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.

STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.

PILE LOCATIONS
 DREDGE OR FILL AREA

- ANCHOR

- MOORING BUOY W/ANCHOR

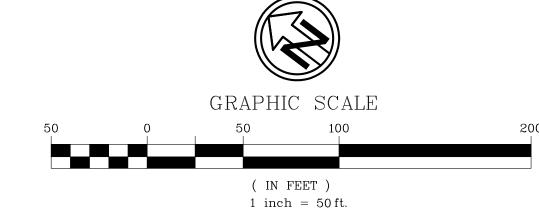
SARRIER MOVEMENT DUE TO CURRENT ACTION

 TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.

 FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.

 NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.

 NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.



EROSION CONTROL DETAILS

1 STABILIZED CONSTRUCTION ENTRANCE

2 TYPE III SII T FENCE

EC3 WATTLE INLET PROTECT

EC4 TURBIDITY BARRIER

LEGEND

PROPERTY LINE

ROADWAY CENTERLINE

PROPOSED CONCRETE

DRAINAGE EASEMENT

PROPOSED PAVEMENT

PROPOSED GRAVEL



EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.

2. THE CONTRACTOR SHALL SEED & MULCH OR SOD ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES.

3. SILT FENCES SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION .

4. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED.

5. ALL SIDE SLOPES OF STORM WATER MANAGEMENT AREAS SHALL BE

SODDED UPON COMPLETION OF FINAL GRADING.

6. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED

AGAINST TURBID WATERS DISCHARGE MAY OCCUR.

MATERIALS BY INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR HAYBALES.

7. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION ACTIVITIES WHERE PROTECTION

RIAL PARK

* 04/12/2023 REVISION PARTICULU

* 12/17/22 REVISION PARTICULU

* 06/29/2023 REVISION PARTICULU

* 12/17/22 REVISION PARTICULUU

* 12/17/22 REVISION PARTICU

REEN COVE SPRINGS, FLORIDA PREPARED FOR RIVER OAKS OUTDOOR, LLC

SHEET No.:

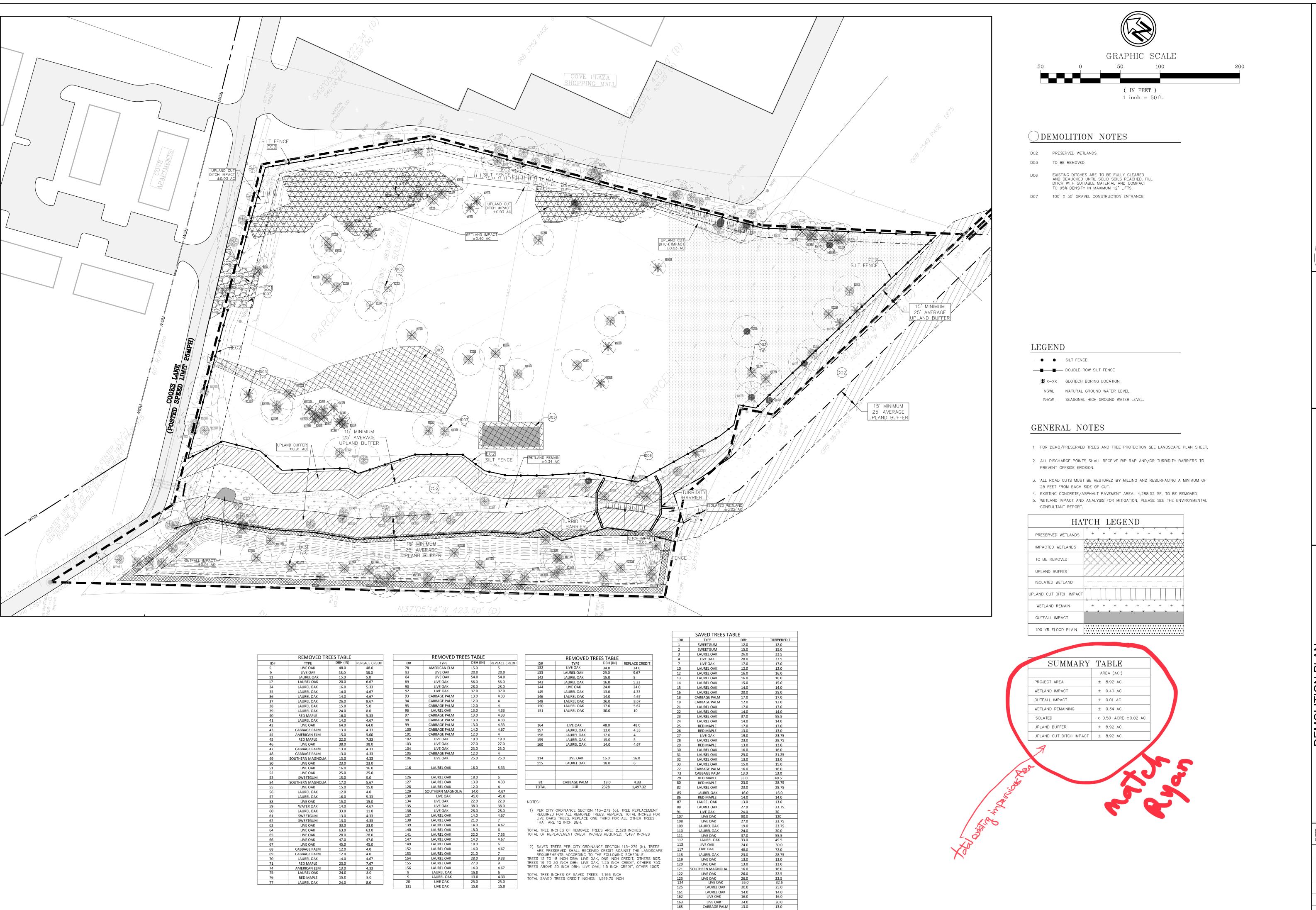
DSGN BY: QHM

DWG BY: GMG

CHK BY: QHM

DATE: 8/10/2023

JOB No.: 1369



SEET

DSGN BY: QHM

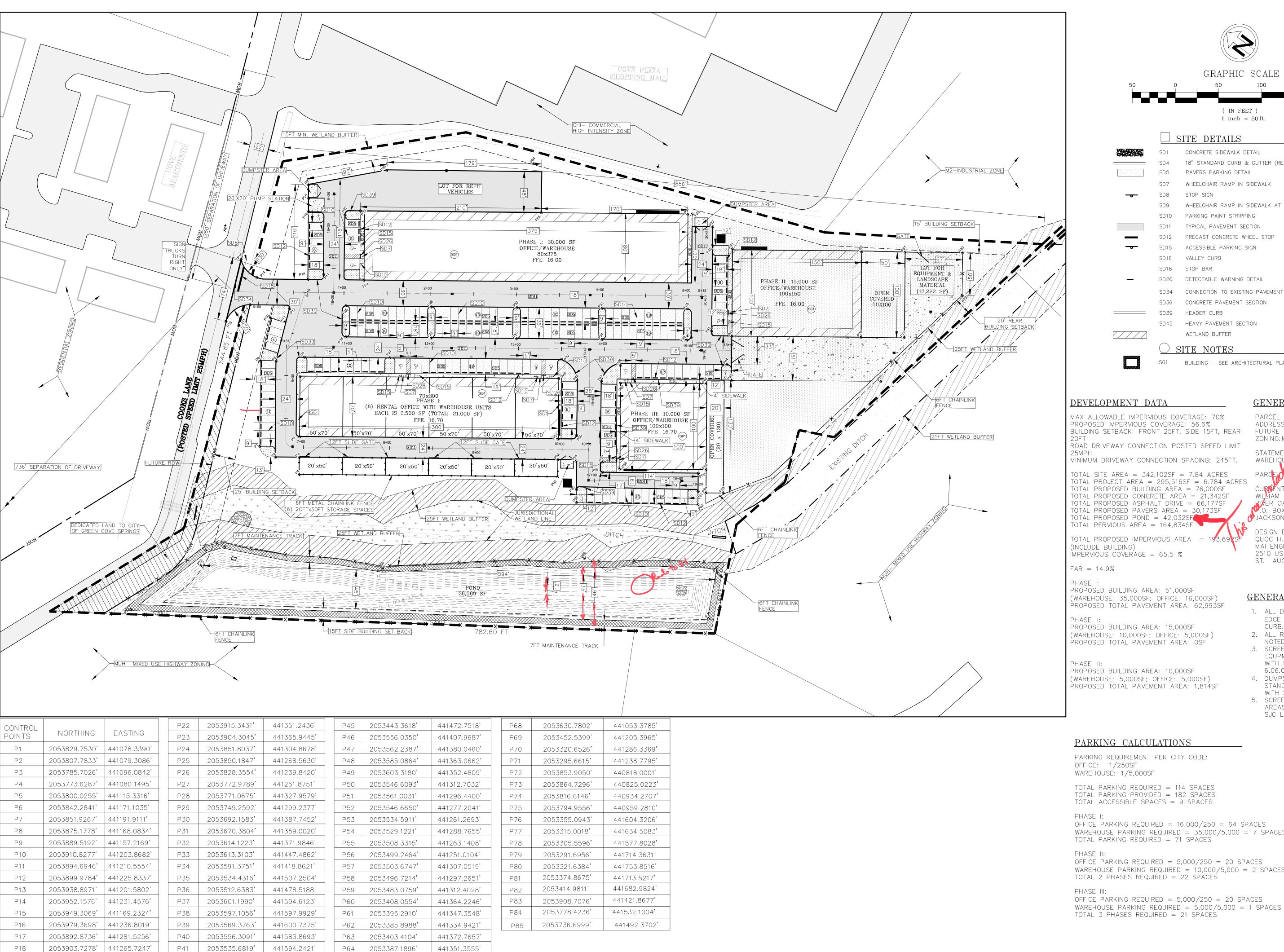
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CHK BY: QHM

DATE: 8/10/2023

JOB No.: 1369

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2053951.2340' 441328.5103'

441340.8026

441353.0499

2053960.5348

2053970.3393'

P20

P21

P42

P44

2053496.3604

2053458.9450'

P43 2053474.4336'

441503.9591

441513.7295'

441484.1944'

P65 2053371.1024'

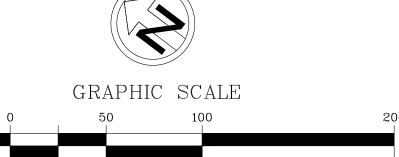
P66 2053464.4466'

P67 2053543.3189'

441363.5435

441451.6728

441391.9101



CONCRETE SIDEWALK DETAIL 18" STANDARD CURB & GUTTER (REVERSE PITCH)

WHEELCHAIR RAMP IN SIDEWALK

WHEELCHAIR RAMP IN SIDEWALK AT CURB RETURN

TYPICAL PAVEMENT SECTION PRECAST CONCRETE WHEEL STOP ACCESSIBLE PARKING SIGN

DETECTABLE WARNING DETAIL

CONCRETE PAVEMENT SECTION

HEAVY PAVEMENT SECTION

BUILDING - SEE ARCHITECTURAL PLANS (TBD BY OTHERS)

BUILDING SETBACK: FRONT 25FT, SIDE 15FT, REAR

FOTAL PROJECT AREA = 295,516SF = 6.784 ACRES

GENERAL PROJECT INFORMATION

PARCEL #: 38-06-26-016564-002 ADDRESS: 1609 COOKES LANE. FUTURE LAND USE; MULT-MIXED USE HIGHWAY ZONING: MUH-MIXED USE HIGHWAY

STATEMENT OF USE: OFFICE AND INDUSTRIAL WAREHOUSE AND OFFICES.

PARCEL AREA: 8.88 ACRES URNENT LAND OWNER: WILNAM KRIEG

RIVER OAKS OUTDOOR, LLC JACKSONVILLE, FL 32238

DESIGN ENGINEER AGENT: QUOC H. MAI, P.E. #64006 MAI ENGINEERING SERVICES, INC. 2510 US 1 S, SUITE D ST. AUGUSTINE, FL 32086

GENERAL NOTES

- 1. ALL DIMENSIONS ARE LISTED TO THE EDGE OF PAVEMENT AND/OR FACE OF
- 2. ALL RADII ARE 5' UNLESS OTHERWISE
- 3. SCREENING OF ALL MECHANICAL EQUPMENT SHALL BE IN ACCORDANCE WITH SJC LDC SEC.6.01.03.H.2. AND
- 6.06.04.B.9. 4. DUMPSTER/SOLID WASTE SCREENINGS STANDARDS SHALL BE IN ACCORDANCE WITH SJC LDC SEC 6.06.04.B.8. 5. SCREENING OF OUTDOOR STORAGE

SJC LDC SEC 6.06.04.B.7.

AREAS SHALL BE IN ACCORDANCE WITH

OFFICE PARKING REQUIRED = 16,000/250 = 64 SPACES WAREHOUSE PARKING REQUIRED = 35,000/5,000 = 7 SPACES

OFFICE PARKING REQUIRED = 5,000/250 = 20 SPACES WAREHOUSE PARKING REQUIRED = 10,000/5,000 = 2 SPACES

WAREHOUSE PARKING REQUIRED = 5,000/5,000 = 1 SPACES

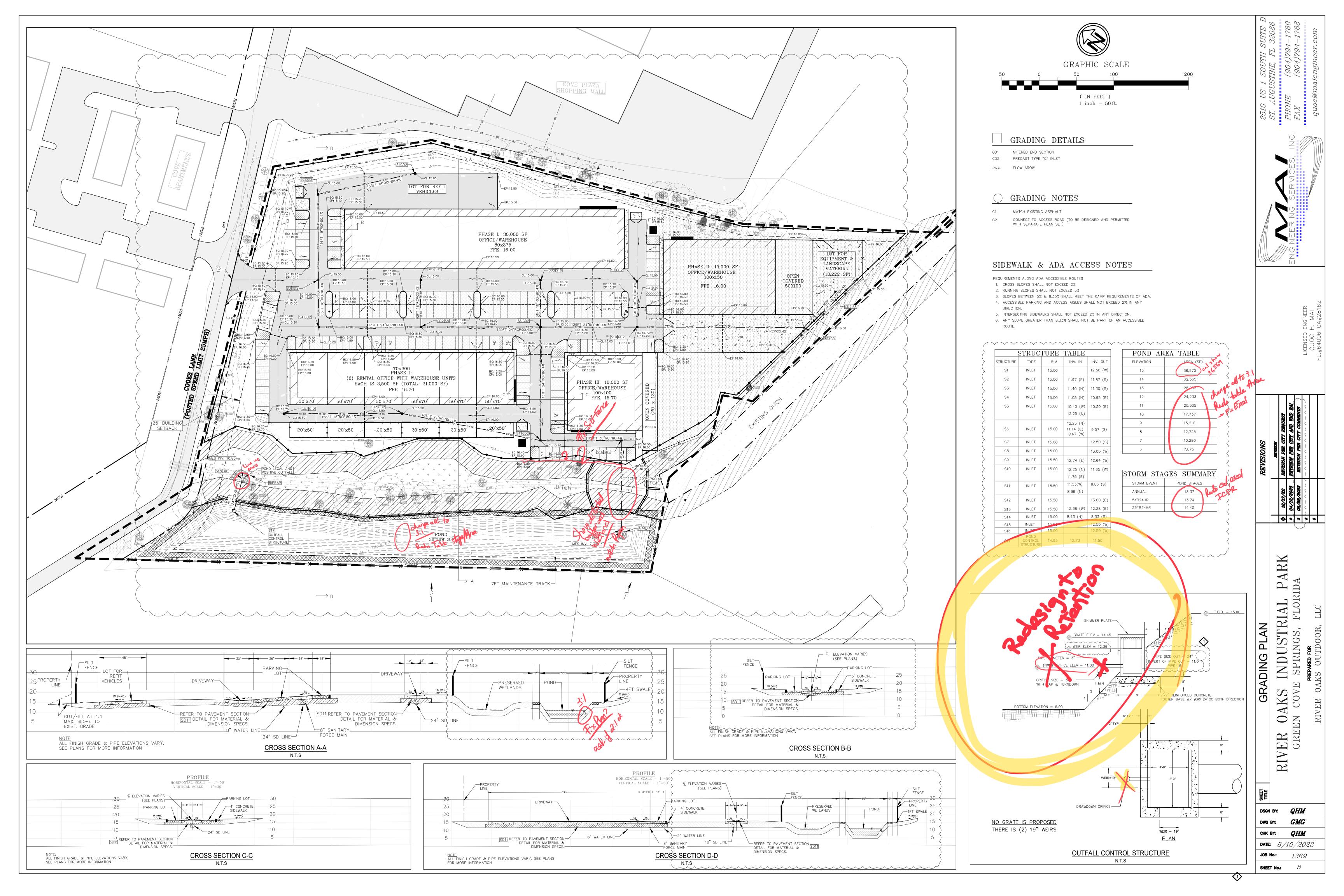
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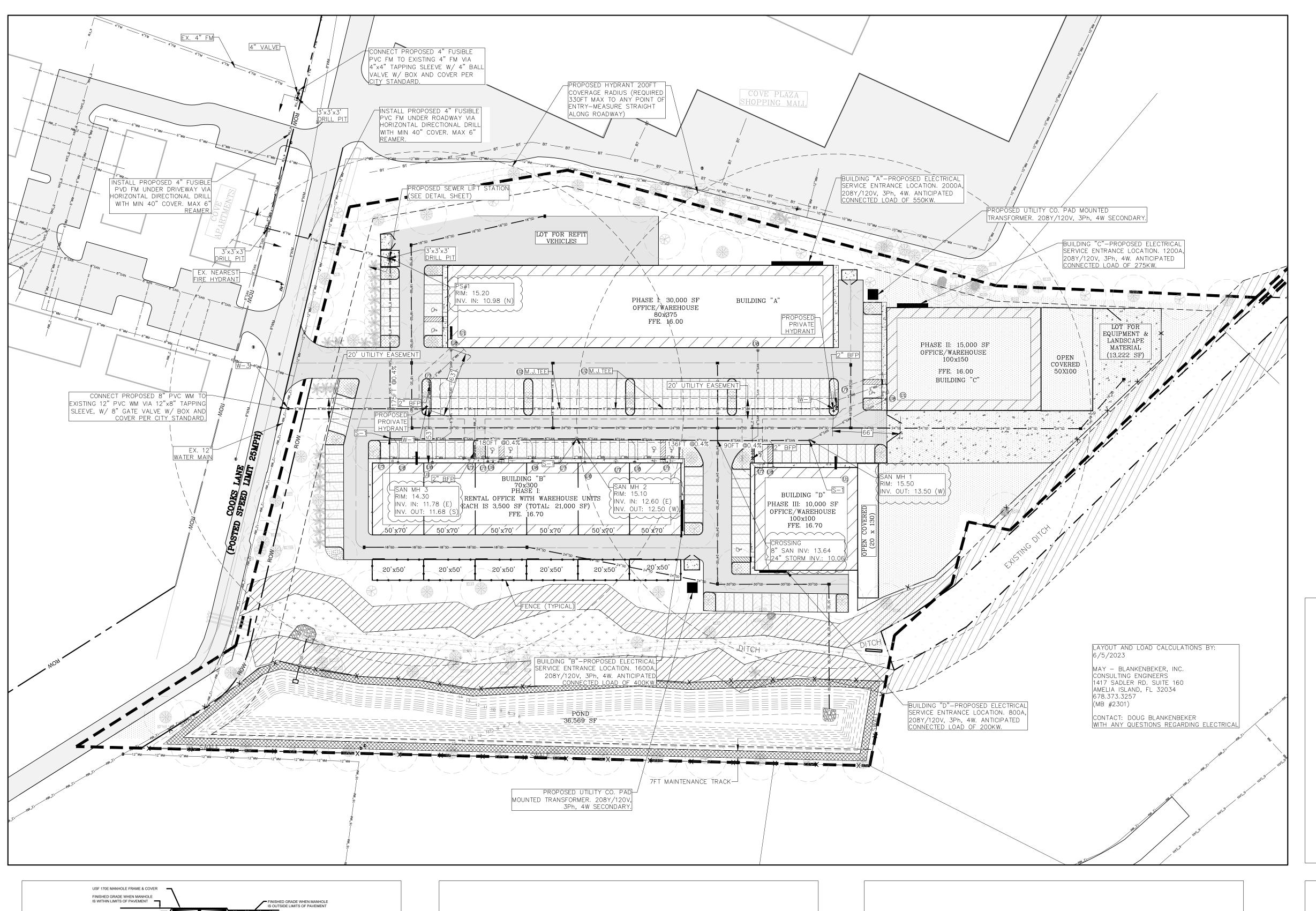
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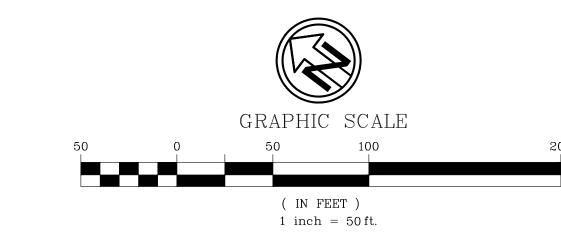
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QHM DWG BY: QHM CHK BY: DATE: 8/10/2023JOB No.:

SHEET No.:







UTILITY DETAILS-WATER & SEWER

SANITARY SEWER MANHOLE FRAME & COVER

FIRE HYDRANT INSTALLATION GATE VALVE AND BOX

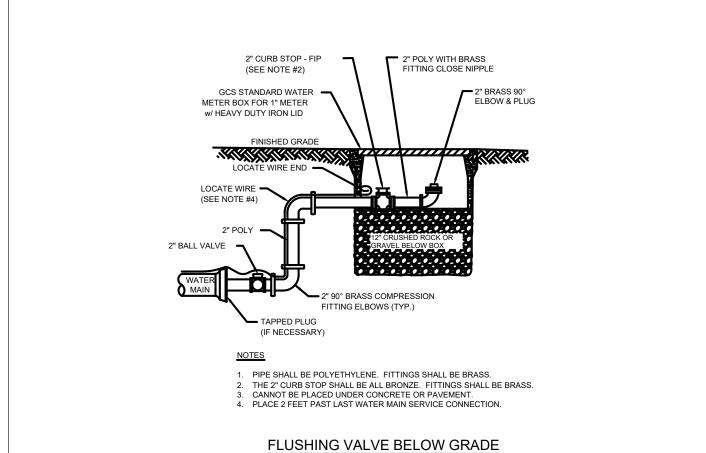
) UTILITY NOTES

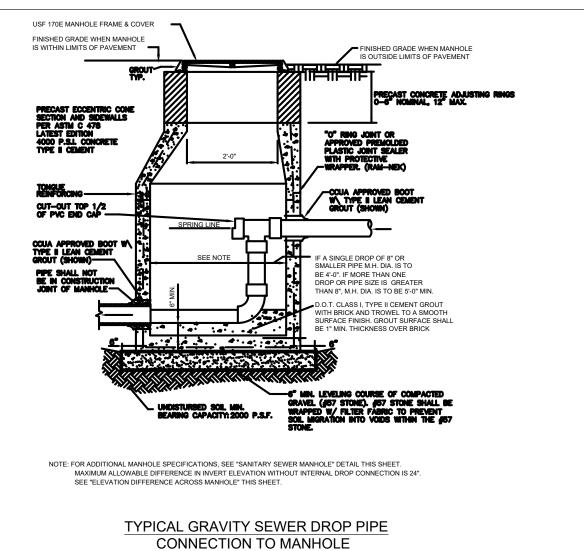
FDC CONNECTION TO BUILDING, AT MAX 100FT FROM HYDRANT.

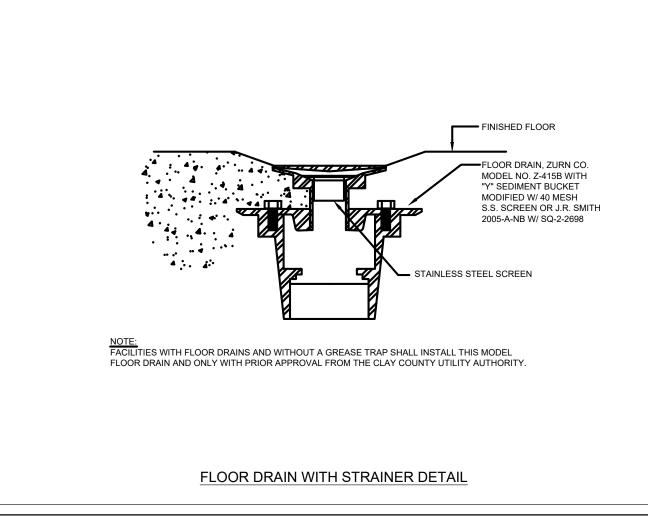
PROPOSED LOCATION FOR WATER SERVICE LATERAL TO TIE INTO BUILDING.

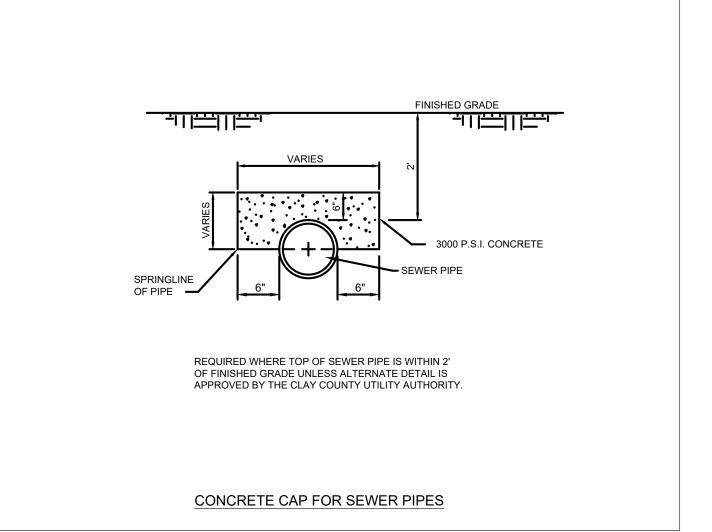
PROPOSED LOCATION FOR SANITARY SERVICE LATERAL TO TIE INTO BUILDING.

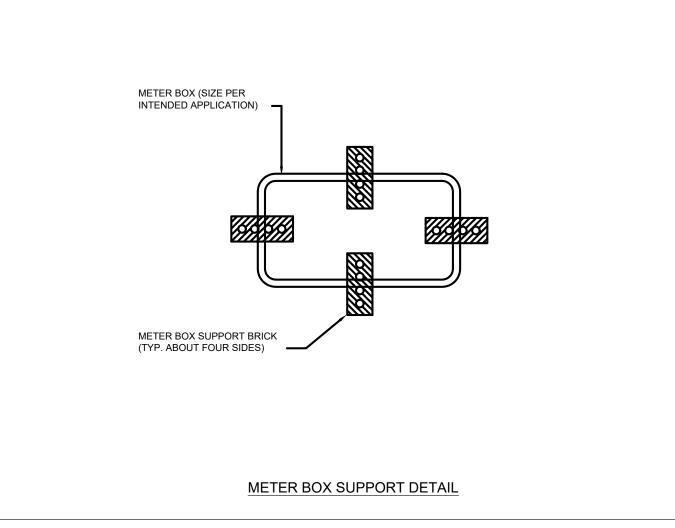
>	SANIT	CARY	SEWE	R STF	RUCTURE	TABLE
	ID	RIM	INV. IN	INV. OUT	NORTHING	EASTING
	MH1	15.50		13.50 (W)	2053513.2381'	441436.0417'
	MH2	15.10	12.60 (E)	12.50 (W)	2053694.7740'	441300.5134'
(MH3	14.30	11.78 (E)	11.68 (N)	2053839.8280'	441190.9021











OZ

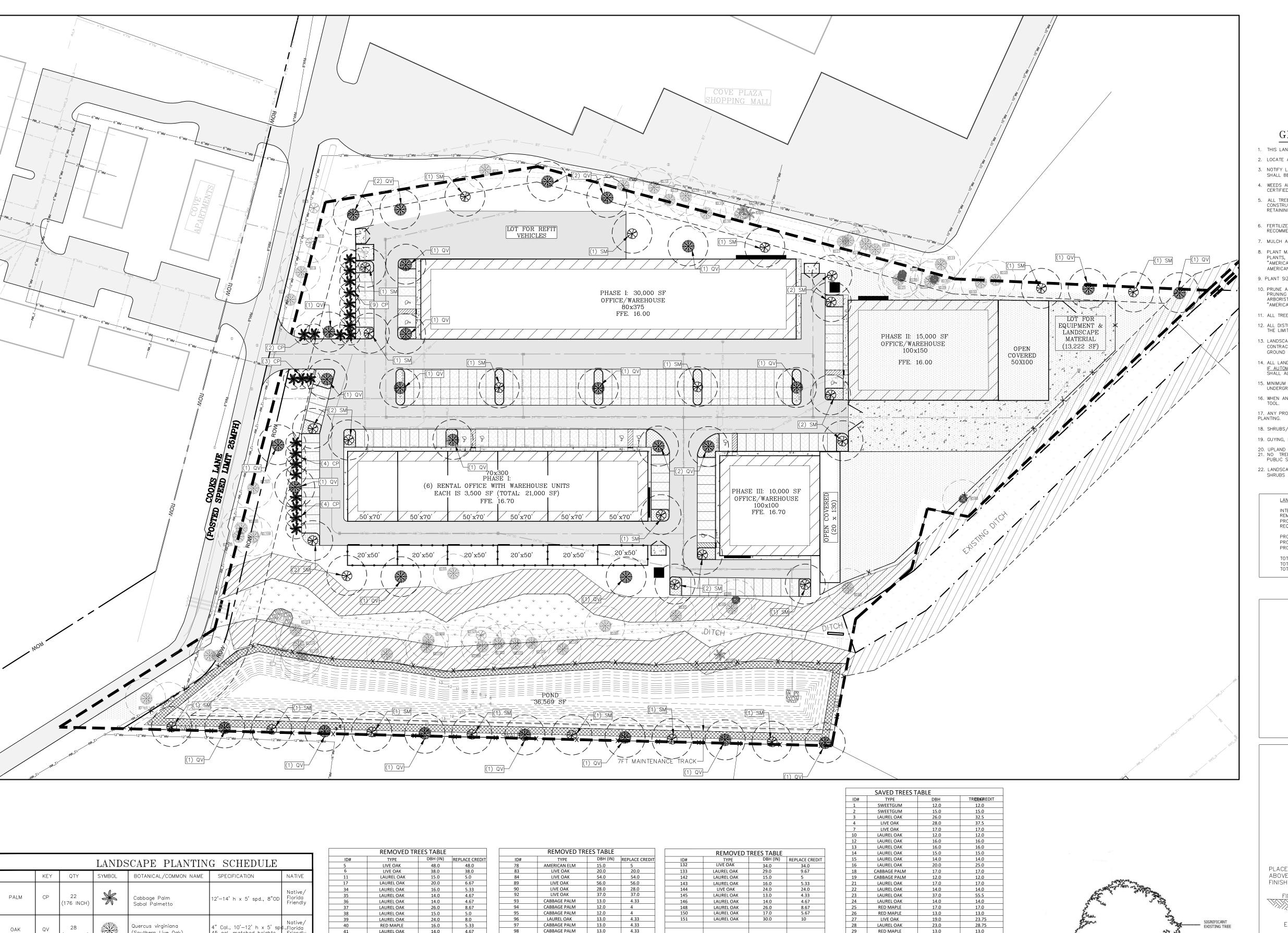
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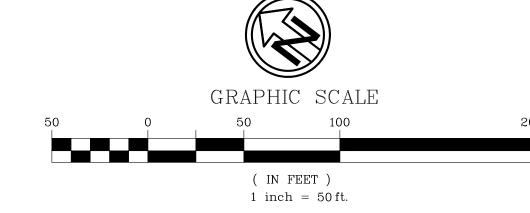
CHK BY:

JOB No.:

SHEET No.:

DATE: 8/10/2023





GENERAL LANDSCAPE NOTES

- 1. THIS LANDSCAPE PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CLAY COUNTY LDC.
- 2. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
- 3. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING, SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND (SEE PLANTING DETAILS).
- 4. WEEDS ARE TO BE ADEQUATELY AND PROPERLY TREATED AND REMOVED PRIOR TO LANDSCAPE INSTALLATION. ALL SOIL AMENDMENTS SHOULD BE
- 5. ALL TREES AND SHRUBS ARE TO BE POSITIONED VERTICALLY REGARDLESS OF THE SLOPE OF THE GROUND IN WHICH THEY ARE PLANTED. BERMS ARE TO CONSTRUCTED AT RIGHT. ANGLES TO THE TREE OR SHRUB OR IN A MANNER IN WHICH THEY WILL MOST EFFECTIVELY SERVE THE PURPOSE OF RETAINING WATER AT THE BASE OF THE PLANT.
- 6. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER. A QUALITY COMPOST / LEAF DEBRIS FROM A RELIABLE SOURCE IS RECOMMENDED IN ALL PLANTING AREAS.
- 7. MULCH ALL LANDSCAPE AREAS WITH 3" OF PINE STRAW MULCH UNLESS SPECIFIED OTHERWISE.
- 8. PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II", FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN NATIONAL STANDARDS INSTITUTE".
- 9. PLANT SIZE IS TO TAKE PRECEDENCE OVER CONTAINER SIZE.
- 10. PRUNE ALL EXISTING SAVED TREES ON SITE TO A HEIGHT OF 15' ABOVE GRADE, AND REMOVE ALL DEAD WOOD, PRUNE TREES ACCORDING TO THE PRUNING GUIDELINES BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE, 1995 EDITION, IF ARBORIST BELIEVES A LIMB SHOULD NOT BE REMOVED THE ARBORIST SHALL CONTACT THE LANDSCAPE ARCHITECT. REMOVE ALL DEBRIS FROM THE SITE TO AN APPROVED OFF—SITE LOCATION. FOLLOW THE "AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS" AND ANSI Z133.1 GUIDELINES.
- 11. ALL TREES MUST MEET MINIMUM 2" CALIPER SIZE, AND SHRUB LINE PLANT HEIGHT (18"MIN.). 12. ALL DISTURBED AREAS MUST BE STABILIZED BY MEANS OF MULCH, SEEDING, OR SOD AS CALLED OUT ON THIS PLAN. IF DISTURBED AREA IS OUTSIDE OF THE LIMITS OF THIS PLAN, AREAS MUST BE STABILIZED WITH EXISTING MATERIAL OR BETTER. I.E. SEEDED OR SODDED.
- 13. LANDSCAPE MATERIAL IS TO BE MAINTAINED BY THE LANDSCAPE CONTRACTOR (INCLUDING MOWING, PRUNING, AND WEEDING). THE LANDSCAPE CONTRACTOR MUST PROVIDE: (A.) A WARRANTY ON ALL TREES AND PALMS FOR A PERIOD OF (1) ONE YEAR. (B.) A WARRANTY ON ALL SHRUBS AND
- GROUND COVERS FOR A PERIOD OF (1) ONE YEAR. (C.) GUIDELINES FOR PROPER MAINTENANCE. 14. ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM THAT SUPPLIES HOSE BIBS LOCATED WITHIN 75' OF ANY LANDSCAPED AREAS.
- IF <u>AUTOMATIC SYSTEM IS INSTALLED</u> (OPTIONAL), SYSTEM SHALL BE WATER EFFICIENT AND SHALL ACHIEVE 100% COVERAGE. NOTE THAT SUCH A SYSTEM SHALL ALSO SEPARATELY IRRIGATE TURF VS. SHRUBS. A RAIN SENSOR SHALL BE INSTALLED WITH SUCH A SYSTEM. 15. MINIMUM OF 10 FEET SEPARATION SHALL BE MAINTAINED BETWEEN TREES AND OVERHEAD UTILITIES AND MINIMUM OF 5 FEET SEPARATION TO
- 16. WHEN ANY ROOT OF EXISTING TREES ARE ENCOUNTERED DURING CONSTRUCTION, THE ROOTS MUST BE CUT OFF EVENLY WITH SHARP CLEAN PRUNING
- 17. ANY PROPOSED TREE LOCATED BETWEEN THE BUILDING AND RIGHT OF WAY SHALL BE A MINIMUM OF FOUR INCHED IN CALIPER AT THE TIME OF
- 18. SHRUBS/HEDGES SHALL BE A MINIMUM OF 30 INCHES IN HEIGHT WITHIN ONE YEAR OF PLANTING AND A MINIMUM OF OF 30 INCHES ON CENTER. 19. GUYING, PROPPING AND STAKING SHALL BE PROVIDED PER 14-2-94(E)(4)(b).
- 20. UPLAND BUFFER WILL REMAIN NATURAL AND UNDISTURBED AND WILL BE FULLY RESTORED IF IMPACTED. 21. NO TREE OR SHRUB SHALL BE PLANTED IN SUCH A MANNER THAT AT THE TIME OF PLANTING THE BASE OF THE TREE IS WITHIN THREE FEET OF ANY PUBLIC SIDEWALK OR BIKEWAY FOR SMALL TREES OR FIVE FEET FOR LARGE TREES.
- 22. LANDSCAPING MUST BE INCORPORATED AT A MINIMUM DEPTH OF 36 INCHES AROUND THE BASE OF ALL GROUND SIGNS TO INCLUDE LOW GROWING SHRUBS AND GROUND COVER AND/OR FLOWERING ANNUAL TO PROMOTE COLOR.

LANDSCAPE CALCULATION:

INTERIOR TREE REQUIREMENT: 1 TREE FOR EVERY 1,500SF, FOR FIRST 10500SF (7 TREES), THEN 1 TREE FOR EVERY 4,000SF FOR THE REMAINING, TREES SHALL BE 50% CANOPY AND 50% UNDERSTORY TREES.

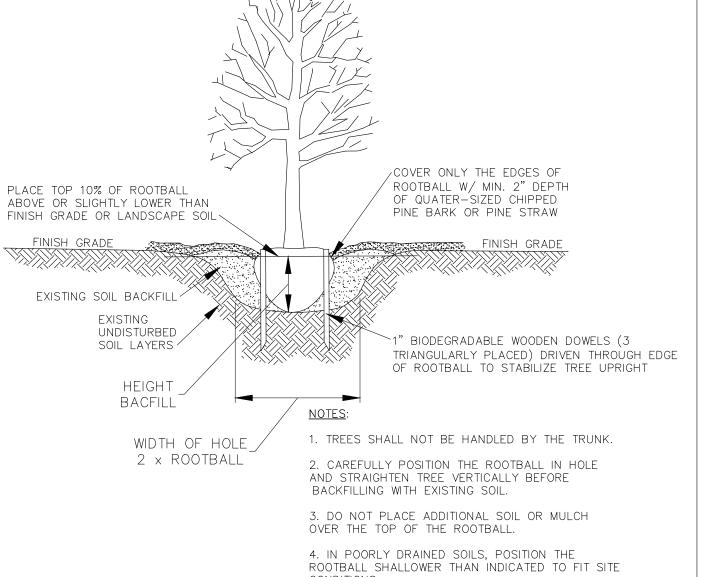
PROJECT INTERIOR AREA = 342,102SF REQUIRED TOTAL: 90 TREES, 50% (45 TREES SHALL BE CANBOPY) REQUIRED CANOPY TREES = 45 TREES, PROVIDED = 56 CANOPY TREES

PROJECT TOTAL SAVED TREES: 55 TREES, 1,419.75 CREDIT INCHES (SEE TABLE BELOW) PROJECT TOTAL PROPOSED NEW TREES: 78 TREES, 400 INCHES DBH (SEE PLANTED TABLE BELOW) PROJECT TOTAL PROVIDED TREES: 133 TREES, 1,819.75 INCHES DBH (EXCEED REQUIRED 90 TREES)

TOTAL OF REMOVED TREE REPLACEMENT INCHES REQUIRED: 1,497 INCHES (SEE TABLE BELOW) TOTAL PROPOSED PLANTED TREES INCHES: 400 INCHES (SEE PLANTED TABLE BELOW)
TOTAL REMAINING REMOVED TREE INCHES FOR MITIGATION: 1,097 INCHES TO BE PAID TO CITY TREE MITIGATION FUND.

/MIN. 3" DEPTH OF FINE TO QUATER-SIZED PINE BARK FINISH GRADE OF PLANTING MIX CHIPS. LARGER FRAGMENTS SHALL BE AT SAME SOIL LEVEL ARE NOT ACCEPTABLE. AS IN ORIGINAL CONTAINER < 3" BERMED SAUCER $-1-1/2 \times ROOTBALL$ PLANTING MIX PER SPECS.

SHRUB PLANTING



TOP OF ROOTBALL.

TREE PLANTING

N.T.S.

5. UNFASTEN STRING/BURLAP FROM TRUCK AND

Southern Live Oak) 45 gal. matched heights 'Cal., 10'—12'h x 5'spo MAGNOLIA Southern Magnolia) 45 gal. matched heights

ADDITIONAL LANDSCAPE NOTES:

a.VEGETATION THAT EXCEEDS TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED CLOSER THAN FIFTEEN (15) FEET OF THE VERTICAL PLANE OF AN EXISTING POWER LINE, EXCLUDING SERVICE WIRES. b.BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL SHALL BE REMOVED PRIOR TO FINAL INSPECTION. WIRE BASKETS SHOULD BE CUT AWAY FROM TOP ONE-THIRD OF ROOT BALL. c.NON-CANOPY TREES SHALL NOT BE PLANTED CLOSER THAN 10 FEET FROM OTHER TREES AND CANOPY TREES NO CLOSER

THAN 20-30 FEET, DEPENDING ON SPECIES. d.PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK," AMERICAN NATIONAL STANDARDS

e.PINE BARK OR PINE STRAW MULCH SHALL BE PROVIDED A MINIMUM OF TWO TO THREE INCHES IN DEPTH AROUND ALL NEWLY PLANTED LANDSCAPING. f. A MULCH RING FOR ALL NEWLY PLANTED TREES SHALL BE PROVIDED AT LEAST FIVE (5) FEET IN DIAMETER AND NOT CLOSER THAN SIX (6) INCHES FROM THE TREE TRUNK.

g.IRRIGATION WILL BE PROVIDED WITH AN AUTOMATIC IRRIGATION SYSTEM. h.TREES SHALL HAVE A MINIMUM HEIGHT OF (8) EIGHT TO (10) FEET AND (2) TWO INCHES OF CALIPER. i. SHRUB LINES ARE TO BE PLANTED AT THE REQUIRED MINIMUM HEIGHT, NOT BY CONTAINER SIZE. j. SOIL IN TREE ISLANDS SHALL HAVE AT LEAST 12" OF SUITABLE SOIL FOR TREE PLANTINGS, AND BE VOID OF ANY CONSTRUCTION DEBRIS OR UNSUITABLE MATERIALS.

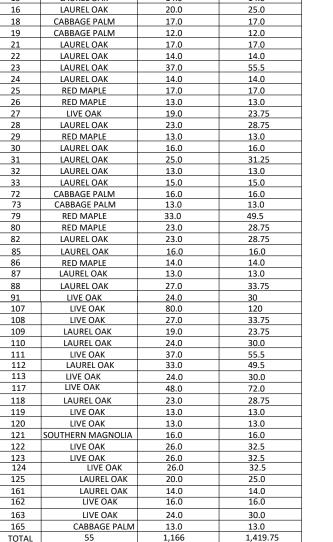
k.TREES SHALL NOT BE PLANTED CLOSER THAN 7.5' FROM THE CENTERLINE OF UNDERGROUND UTILITIES.

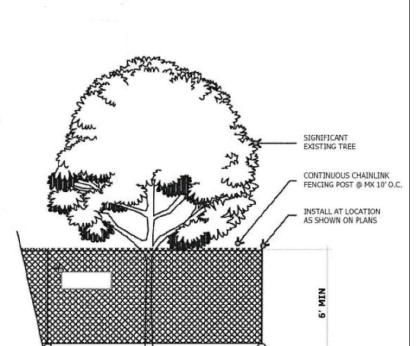
5	LIVE OAK	48.0	48.0	/8	AMERICAN ELM	15.0	5
6	LIVE OAK	38.0	38.0	83	LIVE OAK	20.0	20.0
11	LAUREL OAK	15.0	5.0	84	LIVE OAK	54.0	54.0
17	LAUREL OAK	20.0	6.67	89	LIVE OAK	56.0	56.0
34	LAUREL OAK	16.0	5.33	90	LIVE OAK	28.0	28.0
35	LAUREL OAK	14.0	4.67	92	LIVE OAK	37.0	37.0
36	LAUREL OAK	14.0	4.67	93	CABBAGE PALM	13.0	4.33
37	LAUREL OAK	26.0	8.67	94	CABBAGE PALM	12.0	4
38	LAUREL OAK	15.0	5.0	95	CABBAGE PALM	12.0	4
39	LAUREL OAK	24.0	8.0	96	LAUREL OAK	13.0	4.33
40	RED MAPLE	16.0	5.33	97	CABBAGE PALM	13.0	4.33
				98	CABBAGE PALM	13.0	4.33
41	LAUREL OAK	14.0	4.67	99	CABBAGE PALM	13.0	4.33
42	LIVE OAK	64.0	64.0				
43	CABBAGE PALM	13.0	4.33	100		14.0	4.67
44	AMERICAN ELM	15.0	5.00	101		12.0	4
45	RED MAPLE	22.0	7.33	102		19.0	19.0
46	LIVE OAK	38.0	38.0	103		27.0	27.0
47	CABBAGE PALM	13.0	4.33	104		23.0	23.0
48	CABBAGE PALM	13.0	4.33	105		12.0	4
49	SOUTHERN MAGNOLIA	13.0	4.33	106	LIVE OAK	25.0	25.0
50	LIVE OAK	23.0	23.0				
51	LIVE OAK	16.0	16.0	116	LAUREL OAK	16.0	5.33
52	LIVE OAK	25.0	25.0				
53	SWEETGUM	15.0	5.0	126	LAUREL OAK	18.0	6
54	SOUTHERN MAGNOLIA	17.0	5.67	127	LAUREL OAK	13.0	4.33
55	LIVE OAK	15.0	15.0	128	LAUREL OAK	12.0	4
56	LAUREL OAK	12.0	4.0	129	SOUTHERN MAGNOLIA	14.0	4.67
57	LAUREL OAK	16.0	5.33	130	LIVE OAK	45.0	45.0
58	LIVE OAK	15.0	15.0	134	LIVE OAK	22.0	22.0
59	WATER OAK	14.0	4.67	135		38.0	38.0
60	LAUREL OAK	33.0	11.0	136		28.0	28.0
61	SWEETGUM	13.0	4.33	137		14.0	4.67
62	SWEETGUM	13.0	4.33	138		21.0	7
63	LIVE OAK	33.0	33.0	139		14.0	4.67
64	LIVE OAK	63.0	63.0	140		18.0	6
65	LIVE OAK	28.0	28.0	141		22.0	7.33
	LIVE OAK	28.0 47.0	47.0	147		14.0	4.67
66 67		47.0	47.0	147		18.0	6
	LIVE OAK			152		14.0	4.67
68	CABBAGE PALM	12.0	4.0	152		21.0	7
69	CABBAGE PALM	12.0	4.0				_
70	LAUREL OAK	14.0	4.67	154		28.0	9.33
71	RED MAPLE	23.0	7.67	155		27.0	9
74	AMERICAN ELM	13.0	4.33	156		14.0	4.67
75	LAUREL OAK	24.0	8.0	8	LAUREL OAK	15.0	5
76	RED MAPLE	15.0	5.0	9	LAUREL OAK	13.0	4.33
77	LAUREL OAK	24.0	8.0	20		25.0	25.0
				131	L LIVE OAK	15.0	15.0

	KEIVIOVED I	KEES TABLE	
ID#	TYPE	DBH (IN)	REPLACE CREDIT
132	LIVE OAK	34.0	34.0
133	133 LAUREL OAK		9.67
142	LAUREL OAK	15.0	5
143	LAUREL OAK	16.0	5.33
144	LIVE OAK	24.0	24.0
145	LAUREL OAK	13.0	4.33
146	LAUREL OAK	14.0	4.67
148	LAUREL OAK	26.0	8.67
150	LAUREL OAK	17.0	5.67
151	LAUREL OAK	30.0	10
164	LIVE OAK	48.0	48.0
157	LAUREL OAK	13.0	4.33
158	LAUREL OAK	12.0	4
159	LAUREL OAK	15.0	5
160	LAUREL OAK	14.0	4.67
114	LIVE OAK	16.0	16.0
115	LAUREL OAK	18.0	6
81	CABBAGE PALM	13.0	4.33
TOTAL	118	2328	1,497.32

1) PER CITY ORDINANCE SECTION 113-279 (a), TREE REPLACEMENT REQUIRED FOR ALL REMOVED TREES. REPLACE TOTAL INCHES FOR LIVE OAKS TREES. REPLACE ONE THIRD FOR ALL OTHER TREES THAT ARE 12 INCH DBH. TOTAL TREE INCHES OF REMOVED TREES ARE: 2,328 INCHES
TOTAL OF REPLACEMENT CREDIT INCHES REQUIRED: 1,497 INCHES

2) SAVED TREES PER CITY ORDINANCE SECTION 113-279 (b). TREES ARE PRESERVED SHALL RECEIVED CREDIT AGAINST THE LANDSCAPE REQUIREMENTS ACCORDING TO THE FOLLOWING SCHEDULE:
TREES 12 TO 18 INCH DBH: LIVE OAK, ONE INCH CREDIT, OTHERS 50%.
TREES 19 TO 30 INCH DBH: LIVE OAK, 1.25 INCH CREDIT, OTHERS 75%
TREES ABOVE 30 INCH DBH: LIVE OAK, 1.5 INCH CREDIT, OTHER 100% TOTAL TREE INCHES OF SAVED TREES: 1,166 INCH TOTAL SAVED TREES CREDIT INCHES: 1,519.75 INCH





MINIMUM SIX (6) FOOT HIGH TEMPORARY CHAINLINK FENCE SHALL BE PLACED AT THE CRITICAL ROOT ZONE OR DESIGNATED LIMIT OF DISTURBANCE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE TREE(S). INSTALL FENCE POSTS USING PIER BLOCK ONLY. AVOID POST OR STAKES INTO MAJOR ROOTS, MODIFICATIONS TO FENCING MATERIAL AND LOCATION MUST BE APPROVED BY PLANNING OFFICIAL.

TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER ONE (1) INCH DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING AND COVERED WITH SOIL AS SOON AS POSSIBLE.

B. NO STOCKPILING OF MATERIALS, YEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE CITY PLANNING OFFICIAL. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY UNDER THE SUPERVISION OF THE ON-SITE ARBORIST AND WITH PRIOR APPROVAL BY THE CITY PLANNING OFFICIAL. 4. FENCING SIGNAGE AS DETAILED ABOVE MUST BE POSTED EVERY FIFTEEN (15) FEET ALONG THE FENCE.

TREE PROTECTION FENCING DETAIL (for public and private trees)

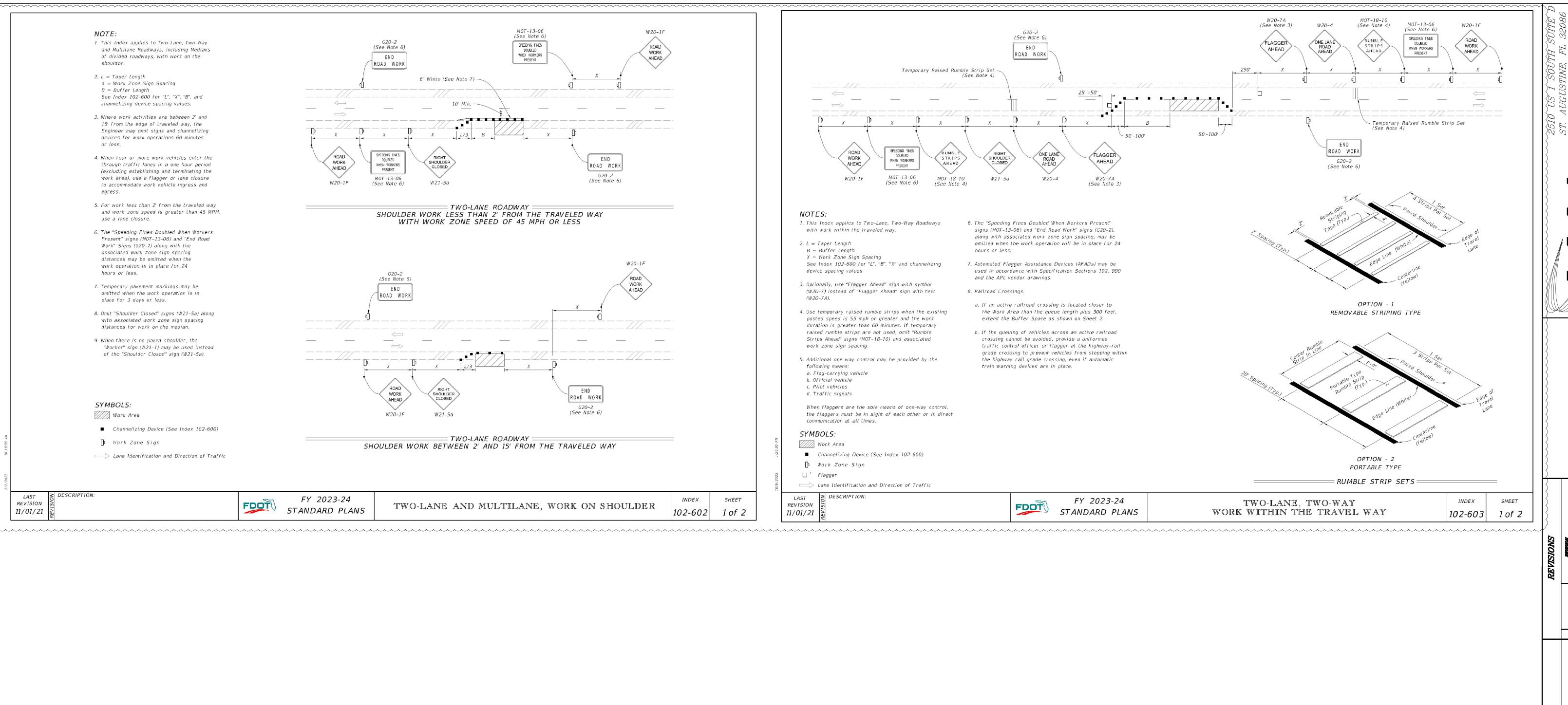
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RIVER OAKS INDUSTRIAL PARK GREEN COVE SPRINGS, FLORIDA PREPARED FOR RIVER OAKS OUTDOOR, LLC

DATE: 8/10/2023

GENERAL NOTES

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE CLEARING AND EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS.

- SEQUENCE OF MAJOR ACTIVITIES
- THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS: INSTALL STABILIZED CONSTRUCTION ENTRANCE
- INSTALL SILT FENCES, SYNTHETIC BALES AND OTHER EROSION/SEDIMENTATION CONTROLS AS REQUIRED.
- . CONSTRUCT SEDIMENTATION BASIN IF REQUIRED . CONTINUE CLEARING AND GRUBBING.
- STOCK PILE TOP SOIL IF REQUIRED
- PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
- COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
- . REMOVE ACCUMULATED SEDIMENT FROM BASIN. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.
- <u>TIMING OF CONTROLS / MEASURES</u>

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF FANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES MILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE CLEARING AND EROSION CONTROL PLAN.

CONTROLS

- STABILIZED CONSTRUCTION ENTRANCE: CONTRACTOR SHALL INSTALL AND MAINTAIN FOR THE DURATION OF THE CONSTRUCTION A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS TO THE CONSTRUCTION SITE. AGGREGATE SHALL BE FDOT SIZE NO. 1 COARSE AGGREGATE.
- EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES: SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
- A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
 B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
- GREATER THAN 2 ACKES.

 C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.

 D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS
 CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A
 WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO
 INCIDE A CAINST WASHOUT.
- INSURE AGAINST WASHOUT.

 E. REFER TO THE DETAILS FOR CONSTRUCTING THE SYNTHETIC BALE BARRIER. ALSO, REFER TO THE DETAILS FOR PROPER LOCATION, MATERIAL AND USAGE. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
- WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.

 IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO H. REFER TO THE DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE
- STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE

- MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSIO AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

CONTROLS (CONTINUED)

- A BLOCK AND GRAVEL SEDIMENT FILTER THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO THE DETAILS FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER. AND FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER. B. GRAVEL SEDIMENT TRAP THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED SEDIMENT TRAP.

 C. DROP INLET SEDIMENT TRAP THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO THE DETAILS FOR CONSTRUCTION OF SYNTHETIC BALE AND FABRIC SEDIMENT FILTER.
- OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND SYNTHETIC BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

OTHER CONTROLS

WASTE DISPOSAL:

- AS IL MA IEMIALS:

 ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPITED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
- OFFSITE VEHICLE TRACKING:

MAINTENANCE / INSPECTION PROCEDURES EROSION AND SEDIMENT CONTROL INSPECTIONS AND MAINTENANCE PRACTICES: THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

 $\bullet\,$ No more than 10 acres of the site will be denuded at one time without written permission from the engineer.

 ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE
FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST
ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. - BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE—THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.

DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED. \bullet TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND FETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

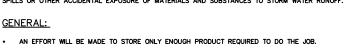
PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

- IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
- ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE. ALL SUCH DISCHARGES SHALL MEET STATE WATER QUALITY STANDARDS AND ALL NECESSARY PERMITS SHALL BE OBTAINED.

STORM WATER POLLUTION PREVENTION PLAN

SPILL PREVENTION

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



 ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

 ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. $\bullet~$ IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES:

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANC TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED

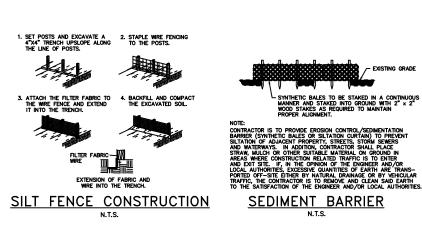
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERDED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

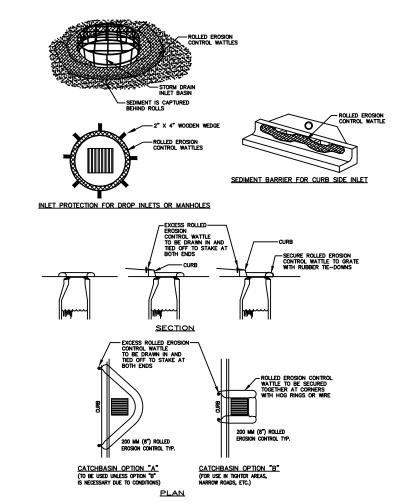
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

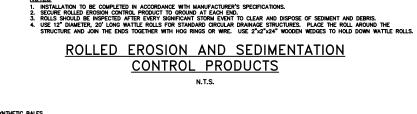
CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONLY AT DISCHARGE POINT PROVIDED. NO OFFSITE DISCHARGE WILL BE PERMITTED. SPILL CONTROL PRACTICES:

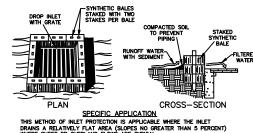
IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS INCLUDE BUT ARE NOT LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LOUID ABSORBENT (LE. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPIL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

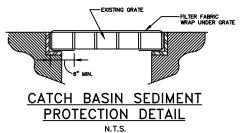


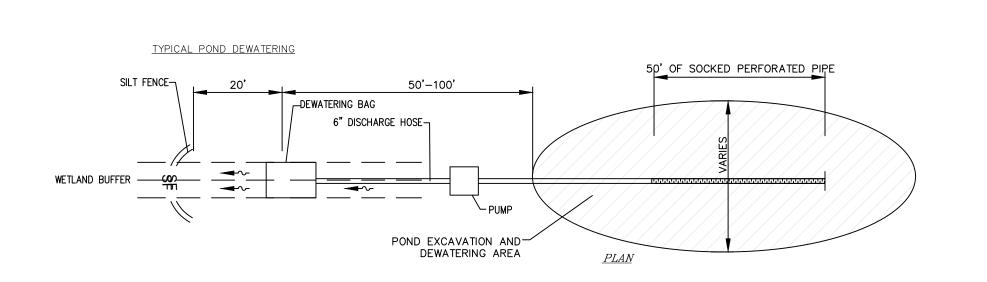


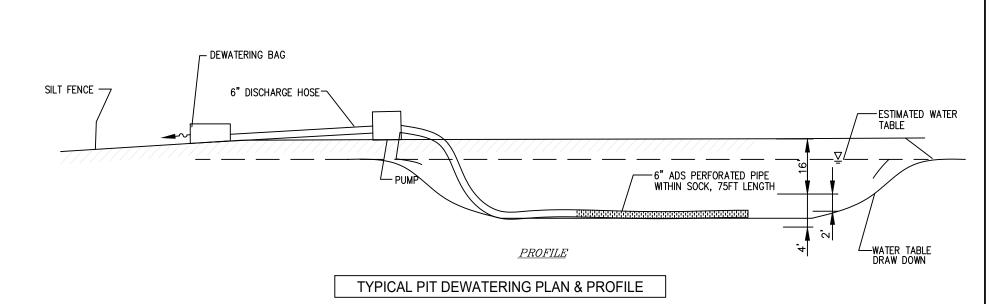


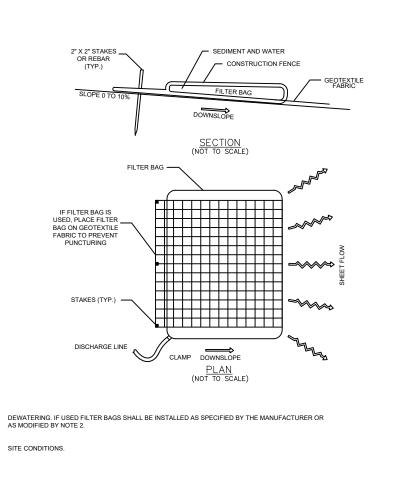


SYNTHETIC BALE DROP INLET SEDIMENT FILTER









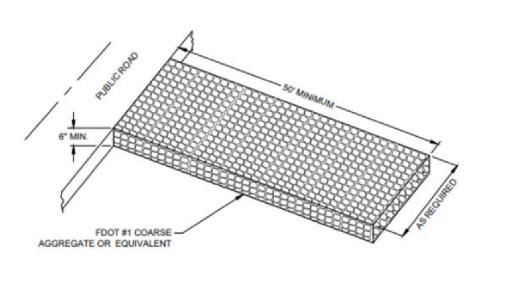
DEWATERING BAG DETAIL

DEWATERING SUMMARY

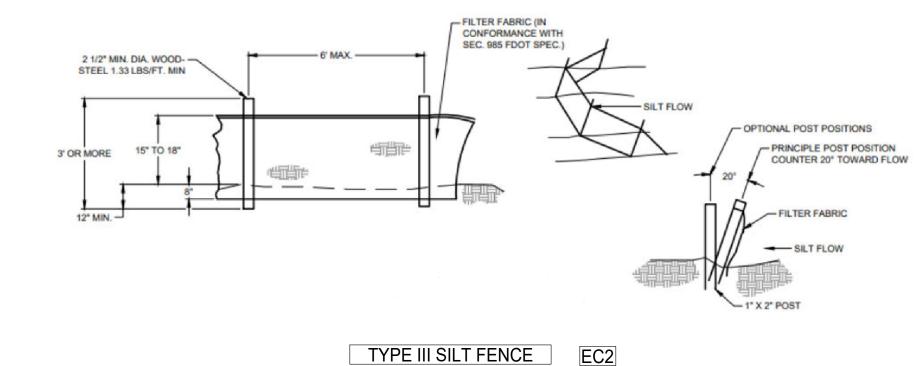
EST. GROUNDWATER DEPTH	FROM EXISTING SURFACE TO APPROXIMATELY 36" DEEP.
REQUIRED DEWATERING DEPTH	APPROXIMATELY 15 FEET BELOW EXISTING GROUND
DEWATERING AREA	2'x75'x15'
DURATION OF PUMPING	1-3 DAYS FOR EACH EXCAVATION
PUMPS	THOMPSON PUMP MODEL 6TSV-DJDS-45T-M, 6" VACUUM ASSISTED DRY PRIME PUMP(OR EQUIVALENT)
DISCHARGE LOCATIONS	ALL PUMPS DISCHARGE TO GRASS SWALE ALONG THE ROAD
EST. GROUNDWATER EXTRACTION	43.7 GPM TOTAL FOR 75FT OF 6"PERORATED PIPE
EROSION CONTROL	PROPOSED SILT FENCE, AND DEWATERING FILTER BAG
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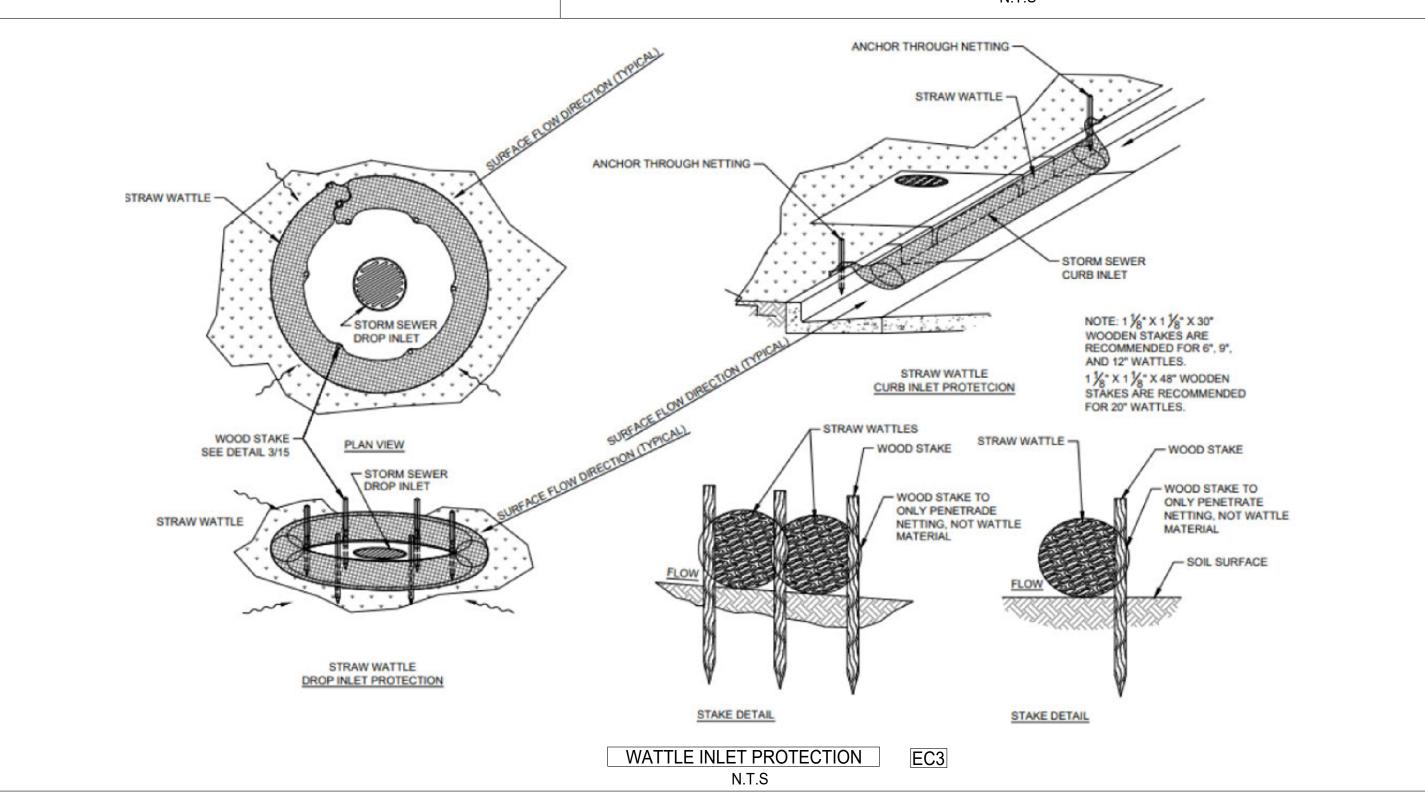
GENERAL NOTES:

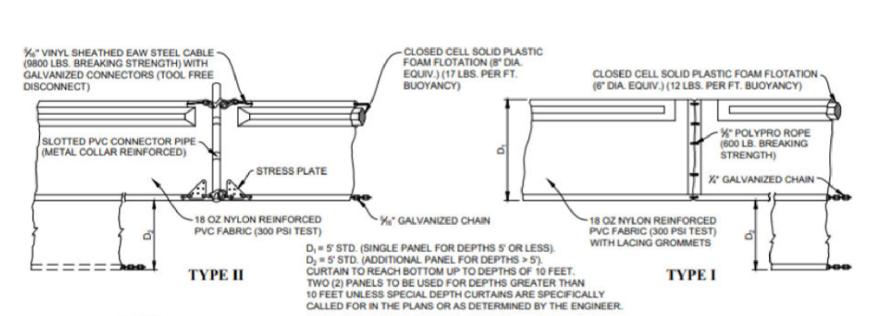
- 1. IF REQUIRED, CONTRACTOR SHALL APPLY DEWATERING PLAN WHEN WATER TABLE IS ENCOUNTERED AT TIME OF CONSTRUCTION.
- 2. IF DEWATERING IS REQUIRED THIS DEWATERING PLAN REPRESENTS THE MAX. PUMP CAPACITY THE CONTRACTOR MAY USE.
- 3. THE DISCHARGE PIPE LENGTH IS APPROXIMATELY 100FT FROM PUMP TO THE FILTER BAG. THE DIRECTIONS FOR THE DISCHARGE PIPE IS
- 4. ADDITIONAL SILTFENCE SHALL BE INSTALLED PRIOR TO ENTERING
- 5. LOCATION OF THE DEWATERING PERFORATED PIPE SHALL IN INSTALLED EITHER DIRECTLY AT THE BOTTOM OF THE EXCAVATION PIT.

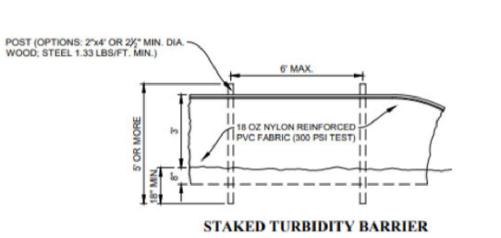


STABILIZED CONSTRUCTION ENTRANCE EC1



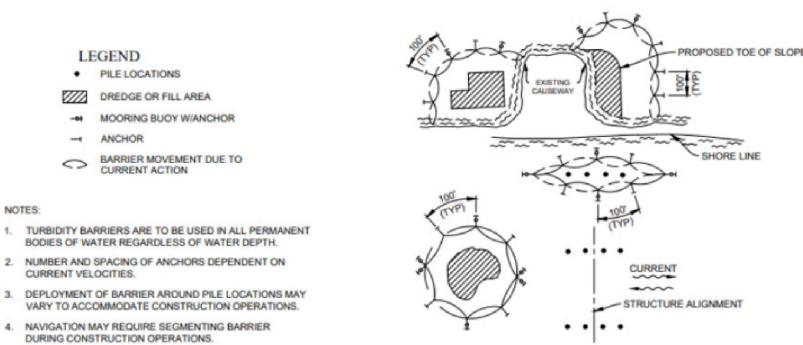






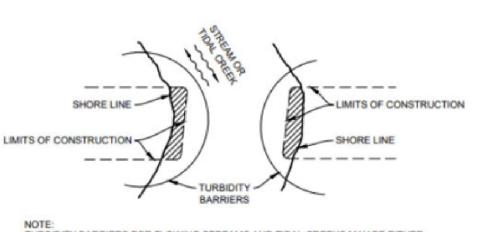
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS

FLOATING TURBIDITY BARRIERS



5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE

STANDARD SPECIFICATIONS.



TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. HOWEVER PAYMENT WILL BE UNDER THE PAY ITEM(S). ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIER AND/OR STAKED URBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

GENERAL NOTES

- 1. FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.
- 2. STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.

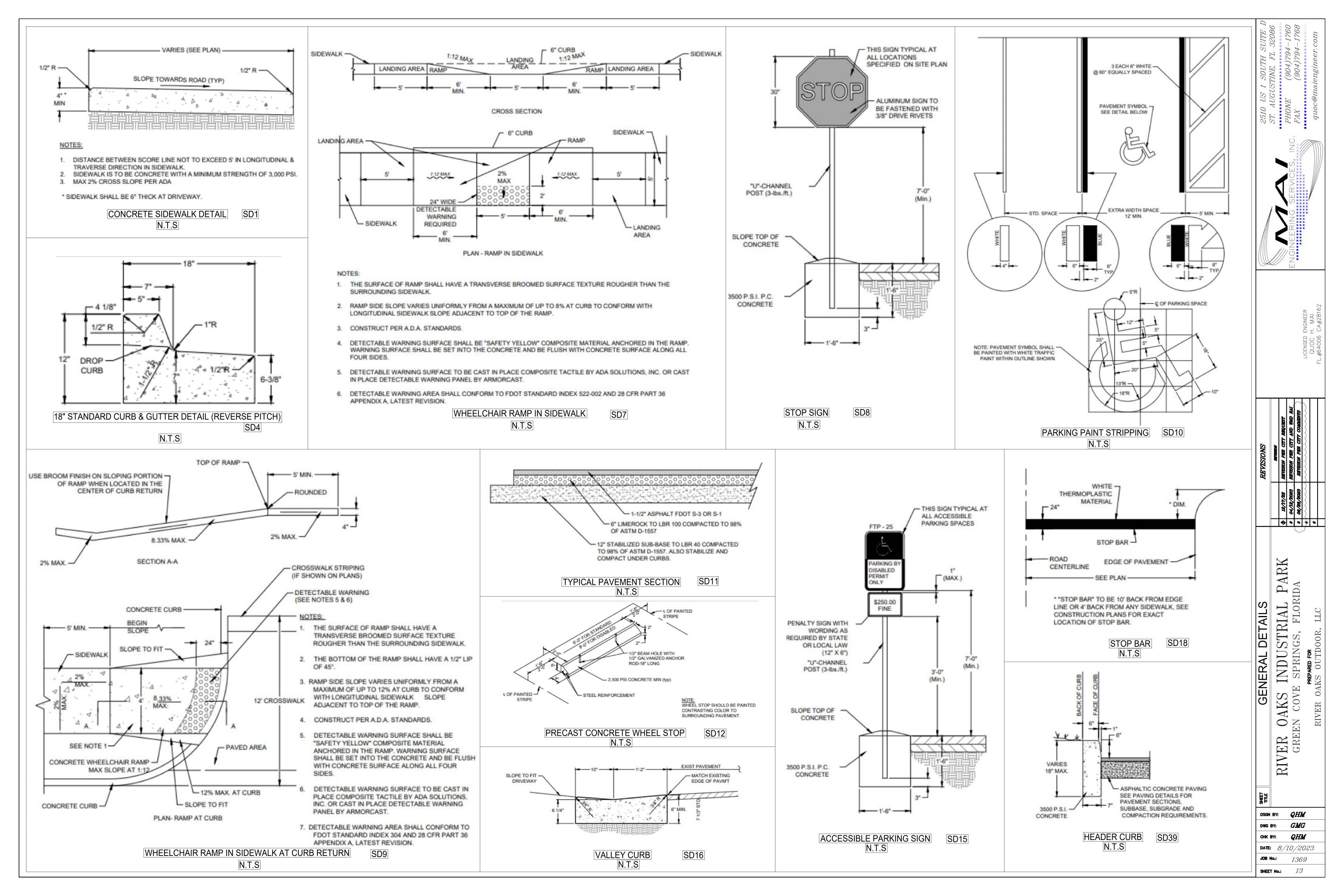
TURBIDITY BARRIER APPLICATIONS

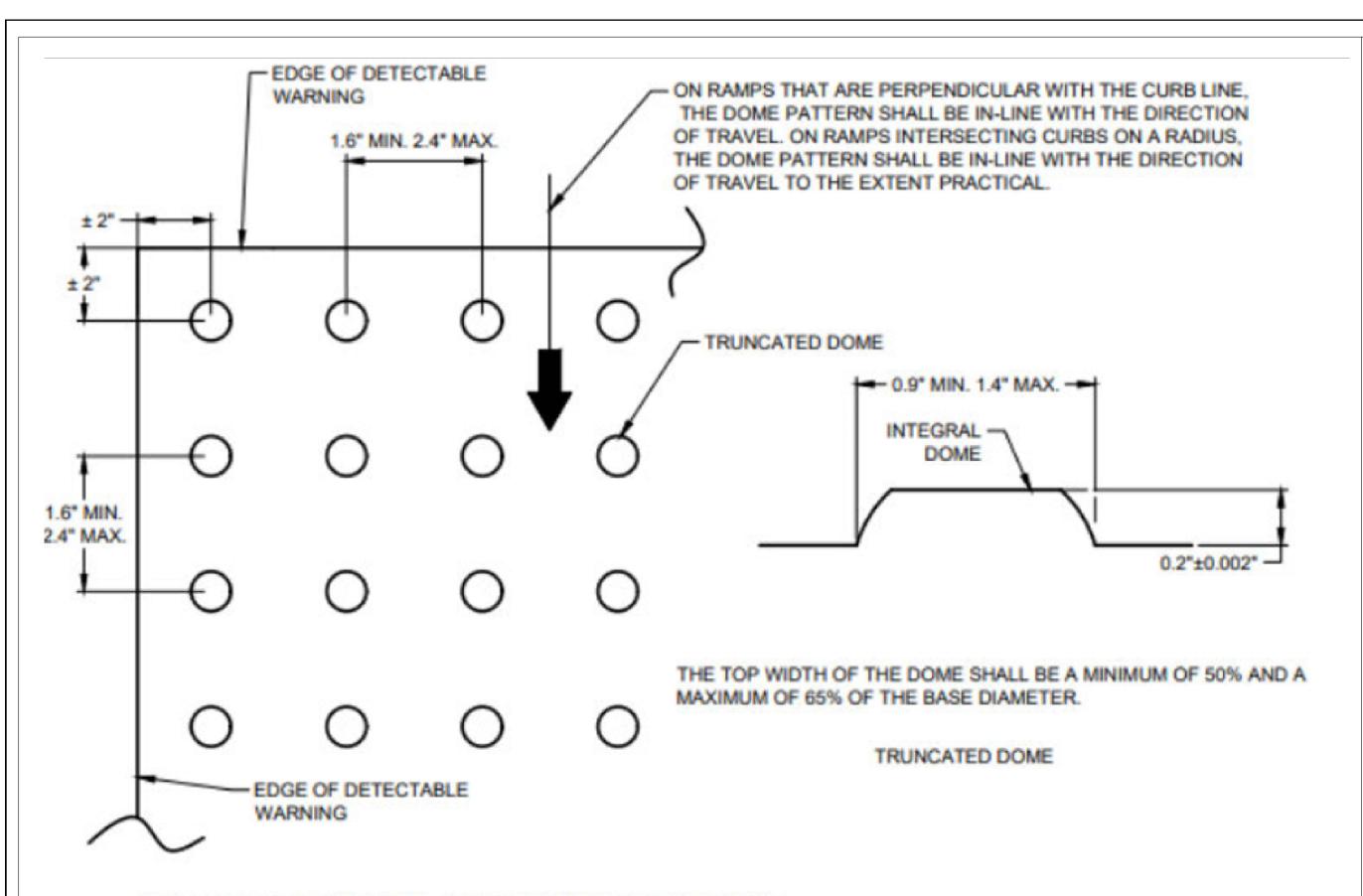
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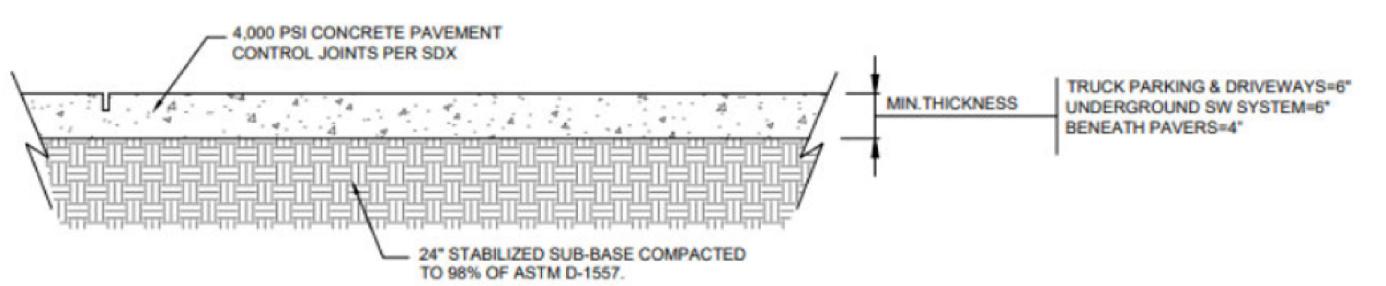
BASE-TO BASE SPACING SHALL BE 0.65" MINIMUM BETWEEN DOMES.

PLAN VIEW

NOTES:

- 1. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP. AND IN THE DIRECTION OF TRAVEL 24 INCHES FROM THE BACK OF CURB.
- SEE FOOT STANDARD INDEX 522-002, LATEST EDITION FOR MORE DETAILS.
- DETECTABLE WARNING SURFACE SHALL BE "SAFETY YELLOW" COMPOSITE MATERIAL ANCHORED IN THE RAMP. WARNING SURFACE SHALL BE SET INTO THE CONCRETE AND BE FLUSH WITH CONCRETE SURFACE ALONG ALL FOUR SIDES.
- DETECTABLE WARNING SURFACE TO BE CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC. OR CAST IN PLACE DETECTABLE WARNING PANEL BY ARMORCAST.

DETECTABLE WARNING DETAIL | SD26 N.T.S



RECOMMENDED MAX. JOINT SPACINGS

PAVEMENT THICKNESS (INCHES)	RECOMMENDED MAXIMUM JOINT SPACING (FEET)
3.5 (FOR WHITETOPPING ONLY)	6
4.0	10
4.5	10
5.0	12
5.5	12
6.0	15
OVER 6.0	15

CURBS:

- ALL CURBING SHALL BE CONSTRUCTED OF CONCRETE THAT WILL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28
- ALL CONCRETE CURBS SHALL BE SPACED WITH A FULL-DEPTH, ₹ WIDTH ISOLATION JOINT MATERIAL (UNLESS OTHERWISE NOTED) PRIOR TO PLACEMENT OF ADJACENT CONCRETE PAVEMENT.
- THERE SHALL BE CONTROL JOINTS, EITHER TOOL OR SAW-CUT. MATCH PAVEMENT JOINTS, UNLESS OTHERWISE SPECIFIED; JOINTS SHALL BE FORMED WITHIN 12 HOUR OF PLACEMENT.
- ALL CURB ENDS THAT DO NOT TIE INTO OTHER FACILITIES SHALL
- TRANSITION DOWN TO PAVEMENT GRADE IN 24 INCHES. CONSTRUCTION JOINT SHALL BE TIED WITH A No.4 TIE BAR EXTENDED 6 INCHES INTO EACH CURB SECTION AND SHALL BE SPACED WITH A FULL-DEPTH & WIDTH ISOLATION JOINT MATERIAL

GENERAL NOTES

- USE ACI 330 GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS.
- USE ACI 330.1 STANDARD SPECIFICATION FOR PLAIN CONCRETE PARKING
- ALL CONCRETE USED IN PARKING LOT, UNLESS OTHERWISE INDICATED, SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- PREPARE THE SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEEER'S RECOMMENDATIONS FOR RIGID PAVEMENTS. SUBGRADE SOIL DENSITY TESTING MUST BE COMPLETED AND VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT.
- IMPORTED SOIL USE FOR BACK FILL SHOULD BE FREE OF HEAVY CLAY. SILTS, STONES, PLANT ROOT OR OTHER FOREIGN MATERIAL GREATER THAN 12 IN DIAMETER IN ORDER TO ACHIEVE ADEQUATE COMPACTION AROUND ANY FIXED OBJECT IN GROUND. ALTERNATE WILL BE TO USE FLOWABLE FILL
- CURE CONCRETE IMMEDIATELY AFTER FINISHING OPERATION IS COMPLETED BY USING ONE OF THE FOLLOWING METHODS: WATER, PIGMENTED WATER-BASED CURING COMPOUND OR VISQUEEN AND BURLAP.

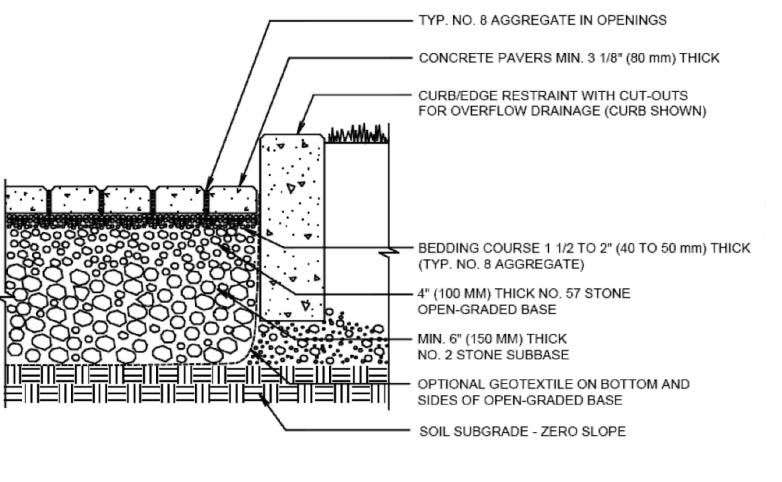
COMPACTED SUBGRADE:

SUBGRADE FOR PAVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 98% OF MAXIMUM DRY DENSITY USING STANDARD EFFORT AS DETERMINED BY ASTM D 698 FOR A MINIMUM DEPTH OF 12 INCHES.

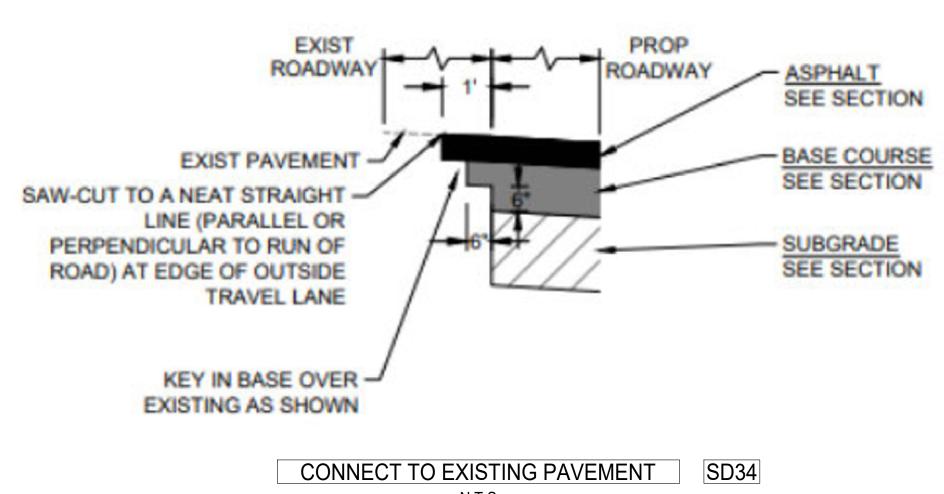
JOINT SPACING DETERMINATION:

- LAYOUT CONTROL JOINT BY STARTING WITH ANY DRAINAGE INLET WITHIN THE PAVEMENT SECTION AND WORK TOWARD EDGE OF PAVEMENT.
- KEEP ALL JOINTS CONTINUOUS.
- 3. CONTROL JOINTS SHALL BE FORMED OR SAWED WITHIN 12 HOURS FROM TIME OF PLACEMENT:
 - A. SIDEWALK-SPACING SHALL BE SAME AS WIDTH OF PAVEMENT AND LESS THAN 5 FEET IN LENGTH.
 - PAVEMENT-MAXIMUM SPACING SHALL BE 2.5 TIMES THICKNESS IN UNIT OF FEET AND LESS THAN 15 FEET IN LENGTH (E.G. D=5 INCHES, SPACING AT 12'x12').

CONCRETE PAVEMENT SECTION SD36 N.T.S



PARKING STALL PAVER DETAIL SD5 N.T.S



GENERAL KS OZ ER (GREEI QHMDSGN BY: GMG

QHMDATE: 8/10/2023

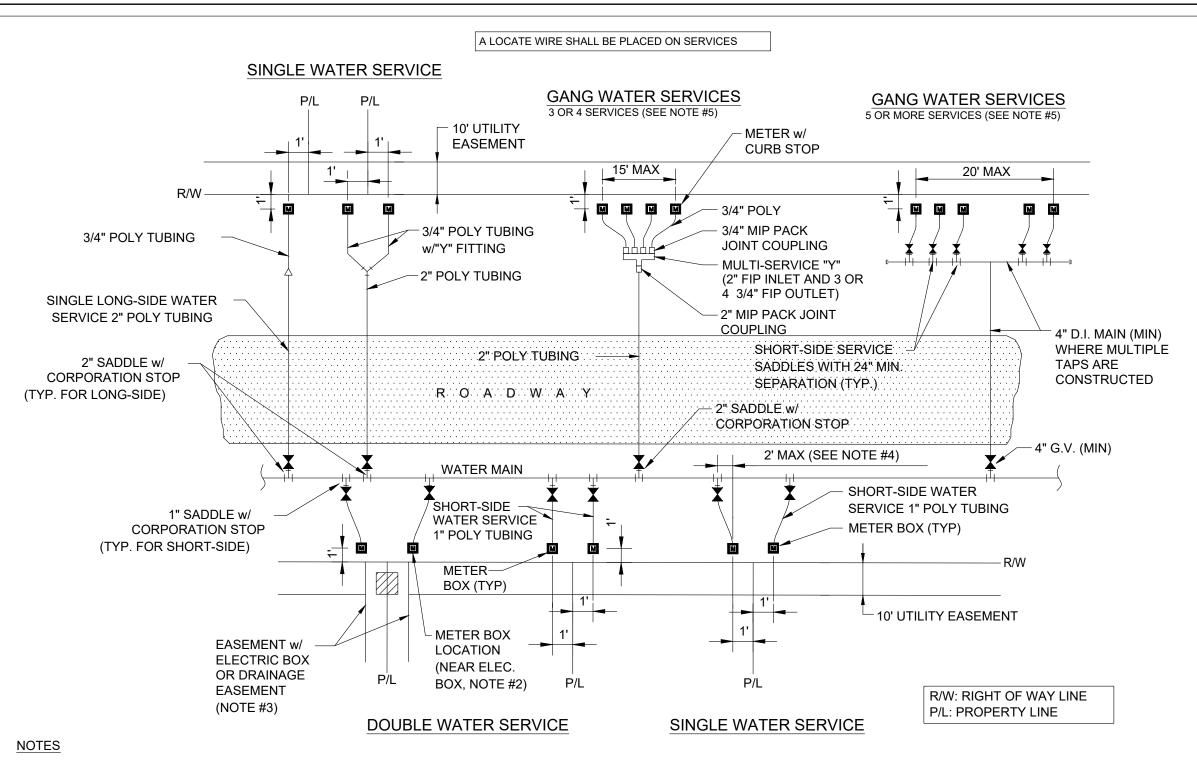
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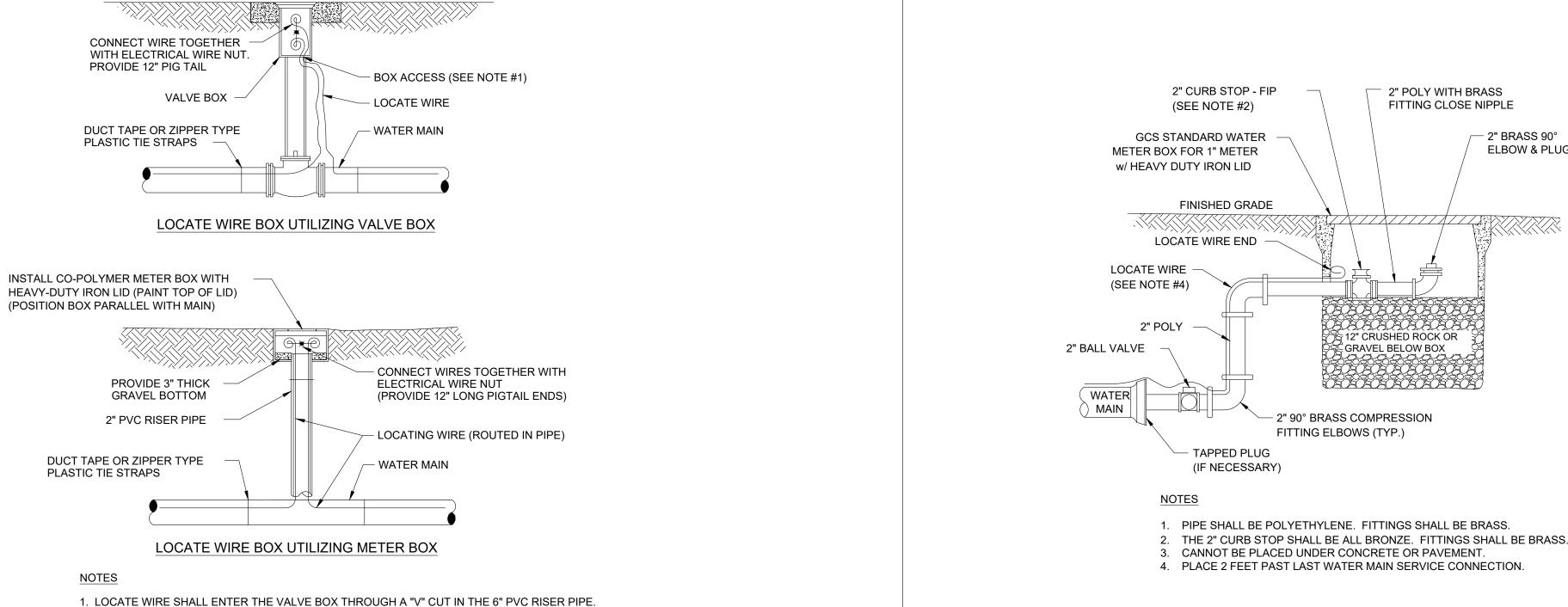
N.T.S



- 1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE.
- 2. UNLESS SPECIFIED OTHERWISE BY THE CITY OF GREEN COVE SPRINGS, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE, AND 1.0' FOOT INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF 1.0' FEET). UNLESS APPROVED OTHERWISE BY THE CITY, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF AN UNAPPROVED METER BOX IS IDENTIFIED BY THE CITY, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. THE CITY SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
- 3. IF DRAINAGE OR OTHER EASEMENT IS LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
- 4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICE'S SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 3/4 "SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES. THE WIRE SHALL RUN FROM THE METER BOX TO THE MAIN (WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY THE CITY OF GREEN COVE SPRINGS. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
- 5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CURB STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER (MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN D.I. CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" G.V., 4" PIPE, 4"X1" SADDLES AND 1" CURB STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE ENGINEER.
- 6. ALL COMMERCIAL WATER SERVICES SHALL BE 2" POLYETHYLENE PIPING CONNECTED TO 2" CURB STOP IN METER BOX, UNLESS OTHERWISE APPROVED BY THE CITY.

LOCATE WIRE BOX

WATER SERVICE INSTALLATIONS 2" AND SMALLER METER



FLUSHING VALVE BELOW GRADE

— 2" BRASS 90°

ELBOW & PLUG

(SEE NOTE #4)

(NOTE #1)

DISTRIBUTION MAIN

1. SEE CITY OF GREEN COVE SPRINGS APPROVED MATERIALS MANUAL AND SYSTEM DETAILS FOR

2. SINGLE BAND SADDLES MAYBE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY

10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS

3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR

IF DIRECTED OTHERWISE BY CITY OF GREEN COVE SPRINGS. CONSTRUCT POLY LINE WITH 36" (MIN.) COVER

AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS OTHERWISE APPROVED

BOX. THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE BOXES, METERS

OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.

6. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E., NO DIRT,

UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (3/4" MINIMUM)

INSTALLED). IN ADDITION, INSTALL A 6', 6" P.T. FENCE POST (TOP PAINTED BLUE) 12" OFF SIDE OF METER

4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS

LOCATE WIRE

ALONG PIPE

12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED.

TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).

7. LOCATE WIRING REQUIRED ON ALL LONG AND SHORT SERVICES.

WATER SERVICE DETAIL- 2" AND SMALLER METER

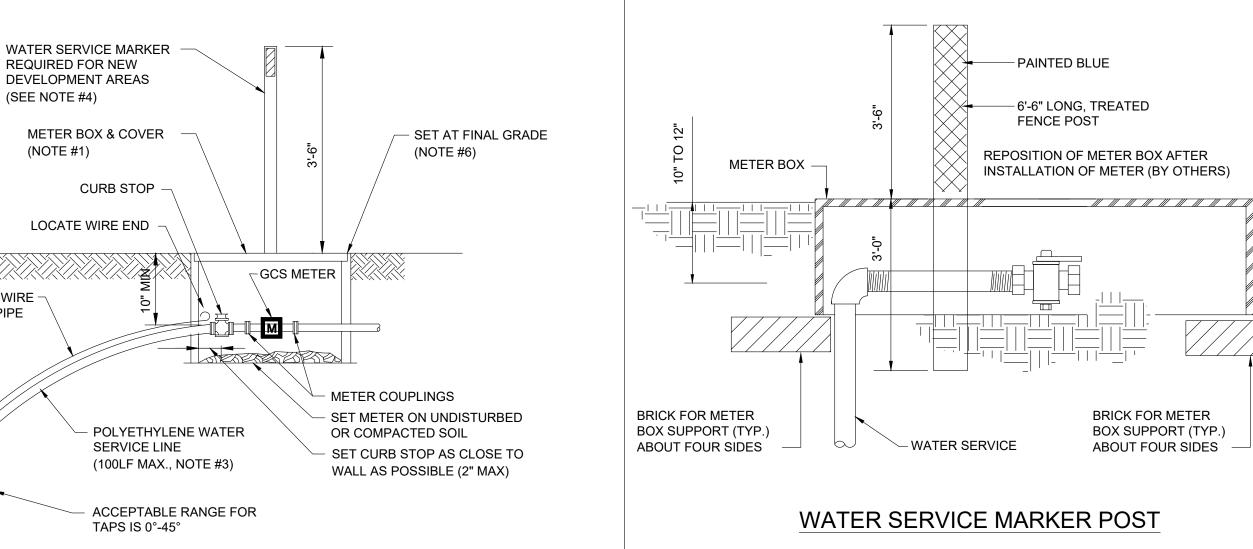
CORPORATION STOP

SERVICE SADDLE

REQUIREMENTS.

BY CITY OF GREEN COVE SPRINGS.

(SEE NOTE #2)

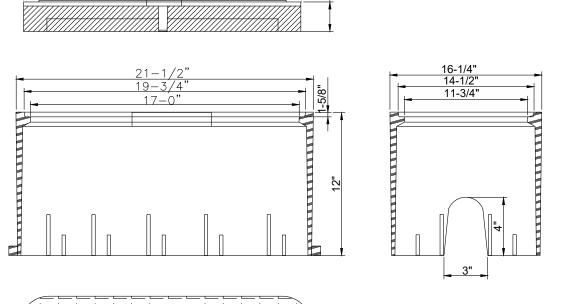


WATER SERVICE MARKER POST

ALL SERVICES ARE TO BE CLEARLY MARKED BY A TREATED 6'-6" LONG MARKER POST PAINTED BLUE ALL SERVICES ARE TO BE EXTENDED ABOVE GRADE UNTIL COMPLETION OF ALL GRADING ACTIVITIES. ONCE FINAL ROAD GRADING IS COMPLETE, LOWER SERVICES BY CUTTING OFF RISER 10" TO 12" BELOW FINAL GRADE AND INSTALL 90° BEND, NIPPLE AND LW BALL VALVE AT THAT ELEVATION. SET METER BOX OVER ENTIRE HORIZONTAL SECTION OF SERVICE LINE FROM LAST 90° BEND TO THE END OF THE CURB STOP. BOX TO BE REPOSITIONED WHEN THE METER IS INSTALLED. MARKER POST TO BE INSTALLED ADJACENT TO AND LOCATED AT THE MID SECTION OF THE METER BOX.

MIN. WALL THIKNESS: .25" DOUBLE WALL BODY w/STRUCTURAL SUPPORT RIBS w/MIN. THINCKNESS: 3/6" 1" BOTTOM FLANGE BOX IS INJECTED MOLDED STRUCTURAL FOAM RECYCLED

POLYPROPYLENE MATERIAL



METER BOX & SOLID BLUE LID

METER BOX (SIZE PER INTENDED APPLICATION) METER BOX SUPPORT BRICK (TYP. ABOUT FOUR SIDES)

METER BOX SUPPORT DETAIL

♦ 4 5 4 6 TRIAL PARS, FLORIDA VKS COVE OZ

QHM

GMG

QHM

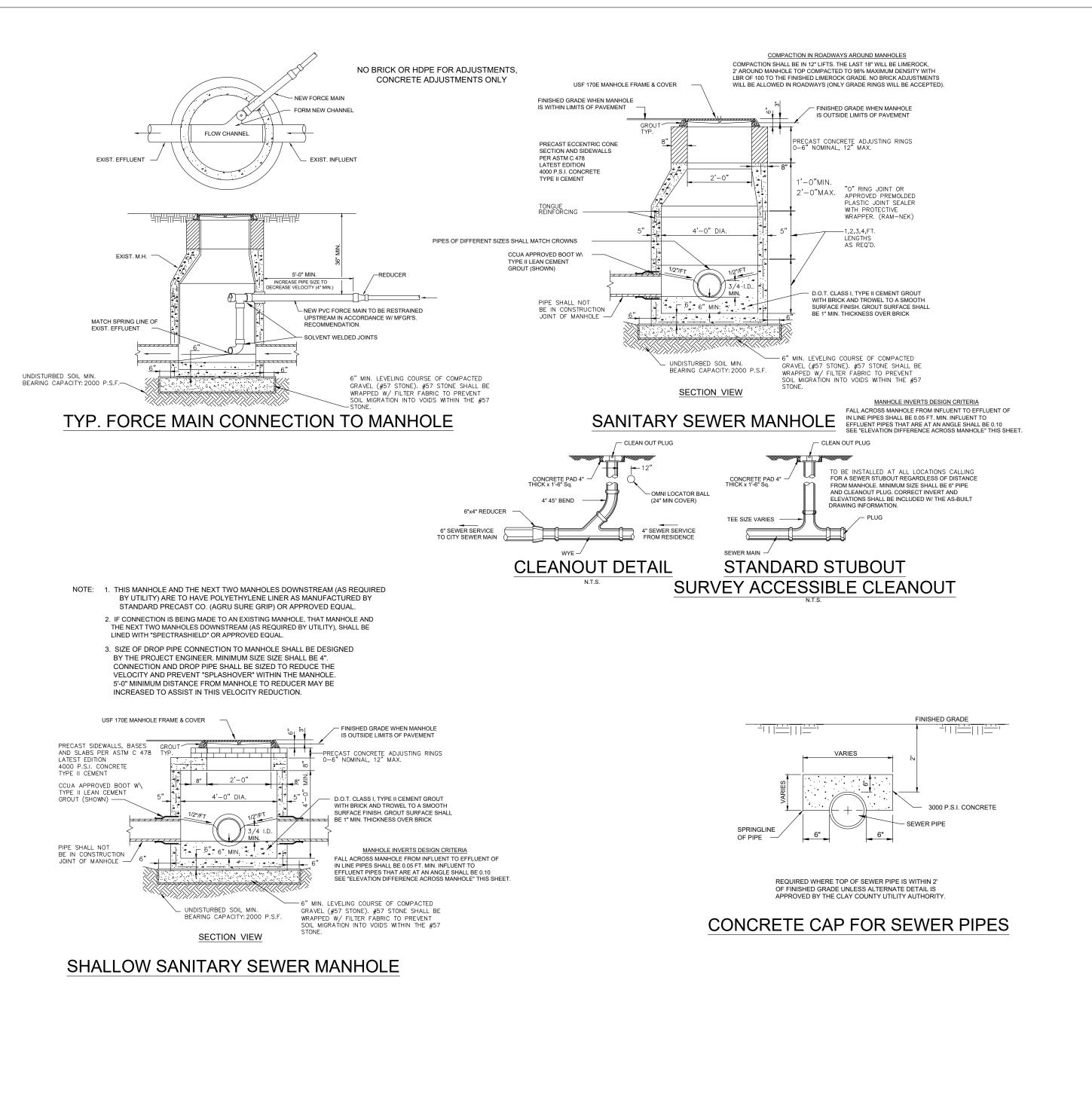
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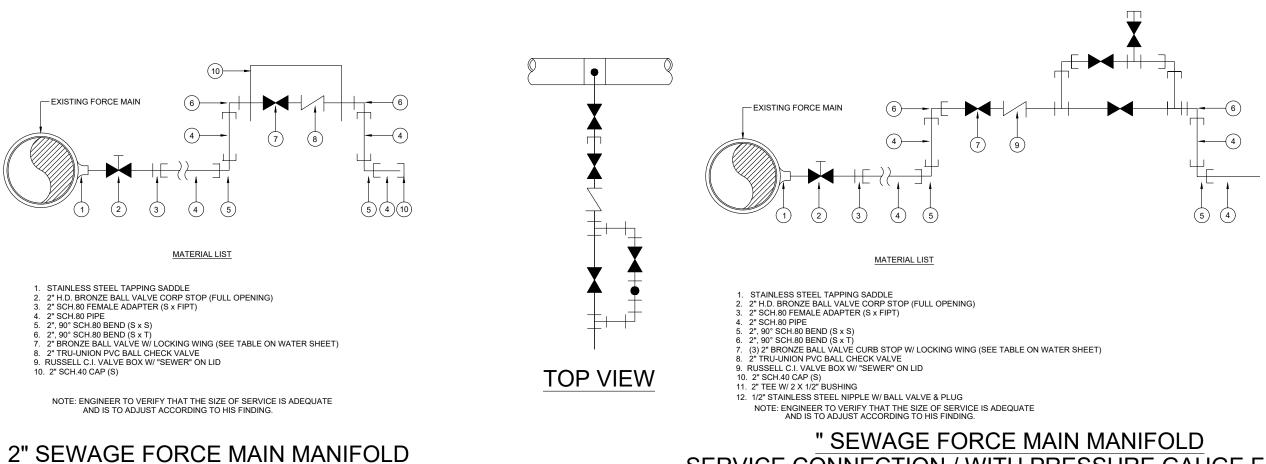
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DSGN BY:

JOB No.:

SHEET No.:



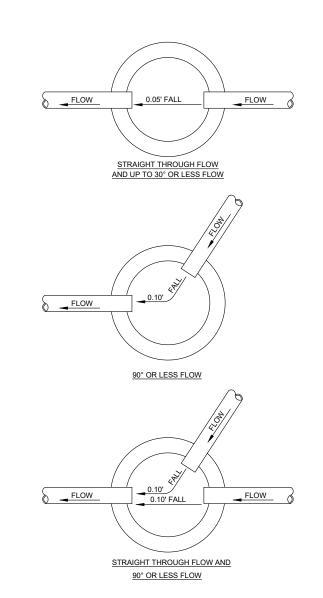


SERVICE CONNECTION DETAIL

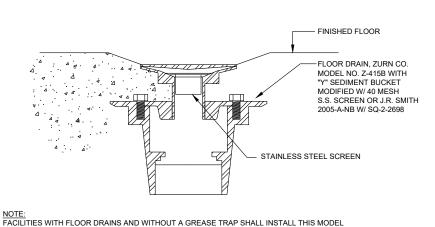
FOR MEDIUM TO HIGH PRESSURE

CONNECTION SYSTEMS

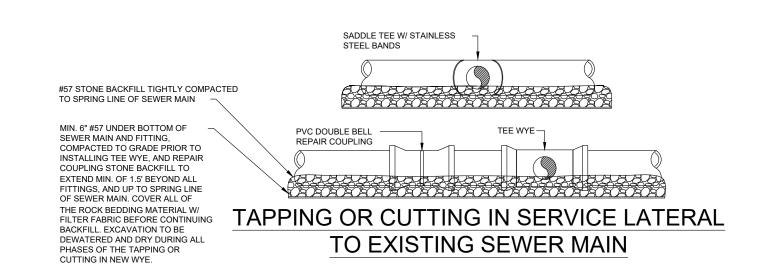
" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION / WITH PRESSURE GAUGE FITTING / FOR LOW PRESSURE RECEIVING SYSTEMS FOR CREATING ARTIFICIAL HEAD PRESSURE

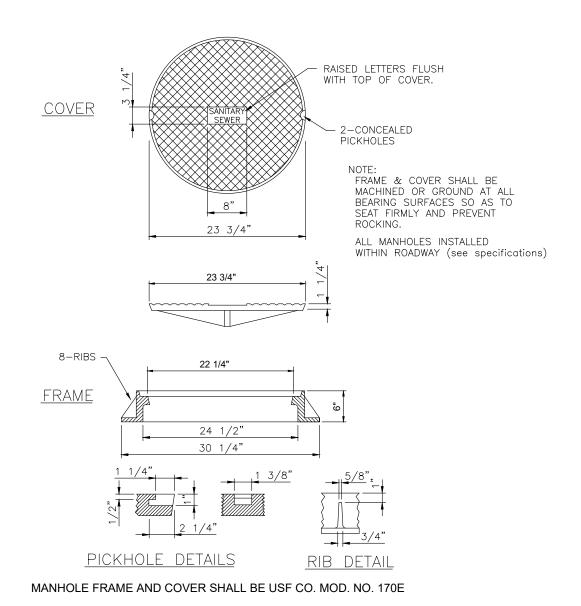


ELEVATION DIFFERENCE ACROSS MANHOLE

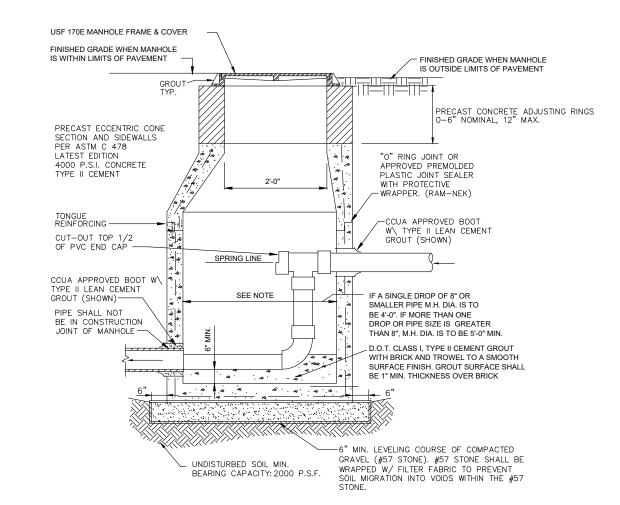


FLOOR DRAIN WITH STRAINER DETAIL



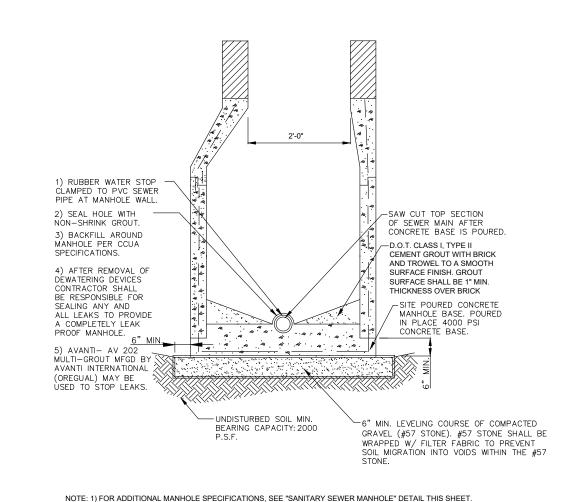


SANITARY SEWER MANHOLE FRAME & COVER | S-1

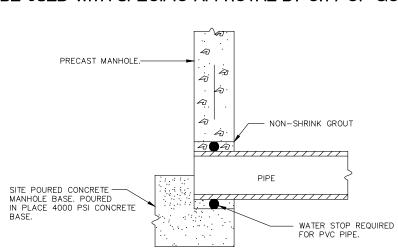


NOTE: FOR ADDITIONAL MANHOLE SPECIFICATIONS, SEE "SANITARY SEWER MANHOLE" DETAIL THIS SHEET MAXIMUM ALLOWABLE DIFFERENCE IN INVERT ELEVATION WITHOUT INTERNAL DROP CONNECTION IS 24". SEE "ELEVATION DIFFERENCE ACROSS MANHOLE" THIS SHEET.

TYPICAL GRAVITY SEWER DROP PIPE **CONNECTION TO MANHOLE**



SADDLE MANHOLE DETAIL THIS DETAIL IS ONLY TO BE USED WITH SPECIFIC APPROVAL BY CITY OF GCS.



SADDLE MANHOLE DETAIL SECTION

♦ 4 5 4 6 TRIAL PARS, FLORIDA

OZ

QHM DSGN BY: GMG QHM DATE: 8/10/2023JOB No.: 1369

