OWNER:

MIKE UNG
FREEDOM CAPITAL ALLIANCE, LLC
29381 SEDGEWAY BLVD.
WESLEY CHAPEL, FL 33544

ENVIRONMENTAL

ATLANTIC ECOLOGICAL SERVICE
201 BASQUE ROAD
ST, AUGUSTINE, FL 32084
WEB: WWW.ATLANTIC.COM
PHONE: (904) 347-9133

ENGINEER:

MAI ENGINEERING SERVICES, INC
2510 US 1 S, SUITE D
CITRUS COUNTY, FL 34448
PHONE: (904) 794-1760
FAX: (904)-794-1768
ATTN. QUOC H. MAI, P.E.

GEOTECHNICAL:

UES
4475 SW 35TH TERRACE,
GAINESVILLE, FL 32608
PHONE: (352) 372-3392

TOPO SURVEYOR

R.M. BARRINEAU AND ASSOCIATES
PROFESSIONAL SURVEYORS & MAPPERS
1309 SE. 25TH LOOP
OCALA, FL 34471
PHONE: (352) 622-3133
FAX: (352)-369-3771

ARCHEOLOGICAL

SWCA
2008 RIVERSIDE AVE, SUITE 100
JACKSONVILLE, FL 32204
PHONE: (904) 384-7020

ELECTRIC:

FLORIDA POWER AND LIGHT CO.
2900 CATHERINE STREET
PALATKA, FL 32177
PHONE: (904) 824-7615
FAX: (800)-868-9554
ATTN. TRACY STERN

COMMUNICATION

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

WATER UTILITY

CITRUS COUNTY DEPARTMENT OF
WATER RECOURCES

1300 S LECANTO HWY
LECANTO, FL 34461
(352)-527-7646

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

2379 BROAD STREET,
BROOKSVILLE, FL 34604
PHONE: (352) 796-7211

SWPPP Approved 1/13/26

An EROSION inspection will be required prior to any land disturbance to verify controls have been installed properly and appropriately. Please submit a request for an inspection, via the permit portal, 24 hours prior to the desired date of inspection.

SITE DEVELOPMENT PLANS FOR

LUCKY RANCH TRAIL

PARCEL ID. NO. : 18E19S07-42000

SITE ADDRESS: LUCKY RANCH TRAIL, CITRUS COUNTY, 34448

PREPARED BY:

MAI ENGINEERING SERVICES, INC.
2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com

DRAWING INDEX

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2.	GENERAL NOTES
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4A.-4B.	TREE TABLE
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6B.	POST DEVELOPMENT DRAINAGE MAP
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7.	CROSS SECTIONS
8.1-8.2	PORTABLE WATER PLAN
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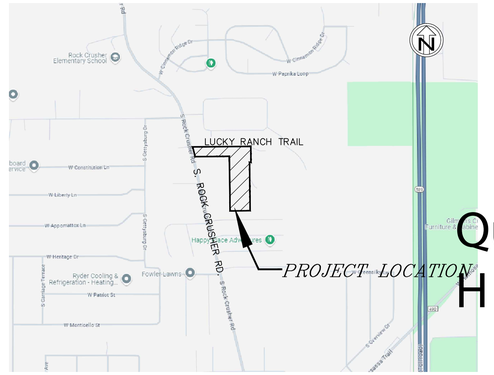
11.	EROSION CONTROL DETAILS
12.	GENERAL DETAILS
13.-17.	UTILITY DETAILS
18.	STORM WATER POLLUTION PREVENTION PLAN

LOCATION MAP (NTS)



Sunshine 811

2510 US 1 SOUTH SUITE D
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PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

Digitally signed by Quoc H Mai
Date: 2025.12.30 12:06:00 -05'00'

Quoc H. Mai, State of Florida, Professional Engineer, License NO. 64006
This item has been digitally signed and sealed by Quoc H. Mai, PE., on the date indicated.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

	DESCRIPTION
1	
2	
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COVER SHEET

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

SHEET TITLE

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	1

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 COUNTY 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 SPECIFICATIONS.

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 CITRUS COUNTY 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.

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 DEEP BELOW THE EXISTING GROUND, WATER DEWATERING IS NOT REQUIRED.

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.

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quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

	DESCRIPTION
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SHEET TITLE: GENERAL NOTES

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	2

LEGEND *UNLESS OTHERWISE NOTED*

- ℄ = CENTERLINE OF RIGHT OF WAY
- C.B. = CHORD BEARING
- O.R. = OFFICIAL RECORDS OF MARION COUNTY
- ◆ = BENCHMARK/CONTROL POINT
- ● = FOUND 5/8" IRON ROD & CAP – PLS 2797
- ○ = SET 5/8" IRON ROD & CAP – LB 5091
- ■ = FOUND 4" x 4" CONCRETE MONUMENT – NO I.D.
- ⊕ = FOUND NAIL & DISC
- (F) = FIELD MEASUREMENT
- (P) = PLAT DIMENSION
- (D) = DEED DIMENSION
- (C) = CALCULATED DIMENSION
- ⊏⊐ = WOOD POWER POLE
- ⊦ = GUY ANCHOR
- ▭ = TELEPHONE VAULT
- ▯ = TELEPHONE BOX
- FH = FIRE HYDRANT
- WM = WATER METER
- ▯ = MAILBOX
- ⊤ = SIGN
- —x/c— = AERIAL ELECTRIC
- —^— = BROKEN LINE; NOT DRAWN TO SCALE
- ▒▒▒▒ = DENOTES CONCRETE
- ▒▒▒▒ = DENOTES ASPHALT

TREE LEGEND
(SIZE DENOTED INSIDE SYMBOL)

- CEDAR
- CHERRY
- ELM
- OAK
- PALM
- PINE

DESCRIPTION:

PER WARRANTY DEED AS RECORDED IN OFFICIAL RECORDS BOOK 3461, PAGE 2317 OF THE PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA:

BEGIN AT THE SOUTHEAST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA, THENCE SOUTH 89°49'50" WEST, ALONG THE SOUTH LINE OF SAID SOUTHEAST 1/4 OF THE NORTHWEST 1/4 A DISTANCE OF 1111.64 FEET, THENCE NORTH 0°16' WEST, PARALLEL TO THE EAST LINE OF SAID SOUTHEAST 1/4 OF THE NORTHEAST 1/4 A DISTANCE OF 1140.61 FEET, THENCE SOUTH 89°57'15" WEST, PARALLEL TO THE NORTH LINE OF THE SOUTH 1/2 OF AFOREMENTIONED NORTHWEST 1/4 A DISTANCE OF 723.81 FEET TO THE NORTHEASTERLY RIGHT-OF-WAY LINE OF A COUNTY ROAD, THENCE NORTH 13°04'40" WEST, ALONG SAID NORTHEASTERLY RIGHT-OF-WAY LINE A DISTANCE OF 205.11 FEET TO THE AFOREMENTIONED NORTH LINE OF THE SOUTH 1/2 OF THE NORTHWEST 1/4, THENCE NORTH 89°57'15" EAST, ALONG SAID NORTH LINE OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 A DISTANCE OF 1880.94 FEET TO THE NORTHEAST CORNER OF AFOREMENTIONED SOUTHEAST 1/4 OF THE NORTHWEST 1/4, THENCE SOUTH 0°16' EAST ALONG THE EAST LINE OF SAID SOUTHEAST 1/4 OF THE NORTHWEST 1/4, A DISTANCE OF 1338.21 FEET TO THE POINT OF BEGINNING. DESCRIBED IN O.R. BOOK 239, PAGE 701 AND O.R. BOOK 330, PAGE 686.

LESS AND EXCEPT: FROM THE ABOVE LANDS THAT PORTION CONVEYED BY QUIT CLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 655, PAGE 692, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, AND BEING FURTHER DESCRIBED THEREIN.

ALSO LESS AND EXCEPT: FROM THE ABOVE LANDS THAT PORTION CONVEYED BY WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 808, PAGE 1595, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, AND BEING FURTHER DESCRIBED THEREIN.

ALSO LESS AND EXCEPT: FROM THE ABOVE LANDS THAT PORTION CONVEYED BY WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 808, PAGE 1597, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, AND BEING FURTHER DESCRIBED THEREIN.

ALSO LESS AND EXCEPT: FROM THE ABOVE LANDS THAT PORTION CONVEYED TO CITRUS COUNTY, FOR ROAD RIGHT OF WAY, BY WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 855, PAGE 1901, AND RE-RECORDED IN OFFICIAL RECORDS BOOK 885, PAGE 458, ALL OF THE PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, AND BEING FURTHER DESCRIBED THEREIN.

NOTES:

1. *DATE OF FIELD SURVEY: AUGUST 27, 2024.*
2. *SUBJECT TO RIGHTS OF WAY, RESTRICTIONS, EASEMENTS AND RESERVATIONS OF RECORD.*
3. *UNLESS OTHERWISE SHOWN, UNDERGROUND IMPROVEMENTS NOT LOCATED.*
4. *PUBLIC RECORDS NOT SEARCHED BY R.M. BARRINEAU & ASSOCIATES, INC.*
5. *BEARINGS AND STATE PLANE COORDINATES DEPICTED HEREON ARE GRID, WEST FLORIDA ZONE, NAD-83 (CORS96) EPOCH:2002.0000), BASED ON TRIMBLE VIRTUAL REFERENCE STATION NETWORK.*
6. *VERTICAL DATUM BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT H 610 WITH AN ELEVATION OF 44.74', NAVD-88.*
7. *ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES.*
8. *ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.*
9. *THIS SURVEY DEPICTS THE PROPERTY AS IT EXISTED ON THE SURVEY DATE, NOT NECESSARILY THE SIGNATURE DATE.*
10. *THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE BENEFIT OF THE PARTY(IES) NAMED HEREON, AND SHALL NOT BE DUPLICATED OR RELIED UPON BY ANY OTHER INDIVIDUAL OR ENTITY WITHOUT AUTHORIZATION FROM R.M. BARRINEAU & ASSOCIATES, INC.*

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.050-052, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES AND THAT THE SURVEY IS IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE CITRUS COUNTY LAND DEVELOPMENT CODE.

SIGNATURE DATE

TRAVIS P. BARRINEAU, P.S.M. – LS 6897
OF R.M. BARRINEAU & ASSOCIATES, INC.
TRAVIS@RMBARRINEAU.COM
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA.#28162

REVISIONS

	DESCRIPTION
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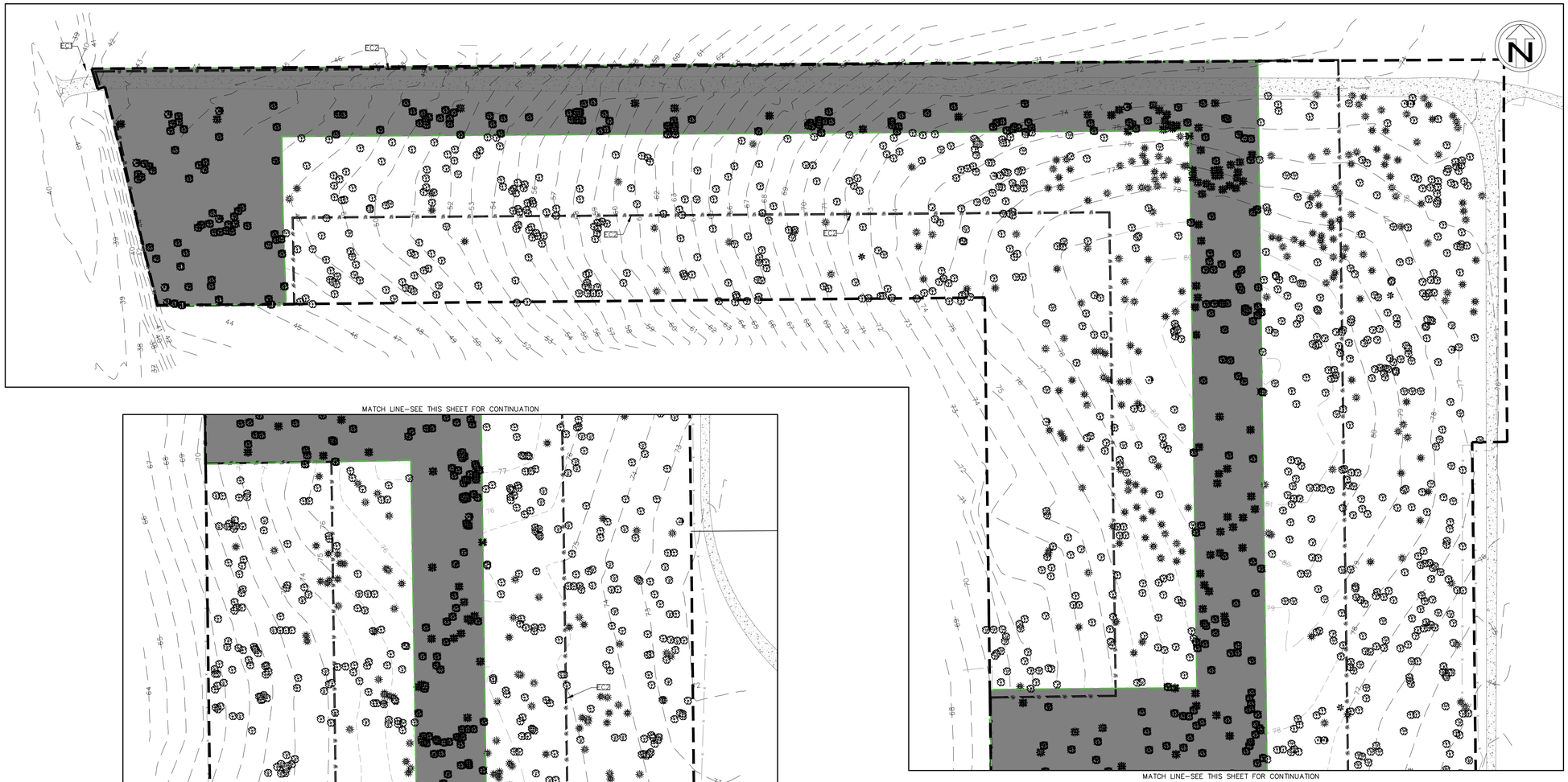
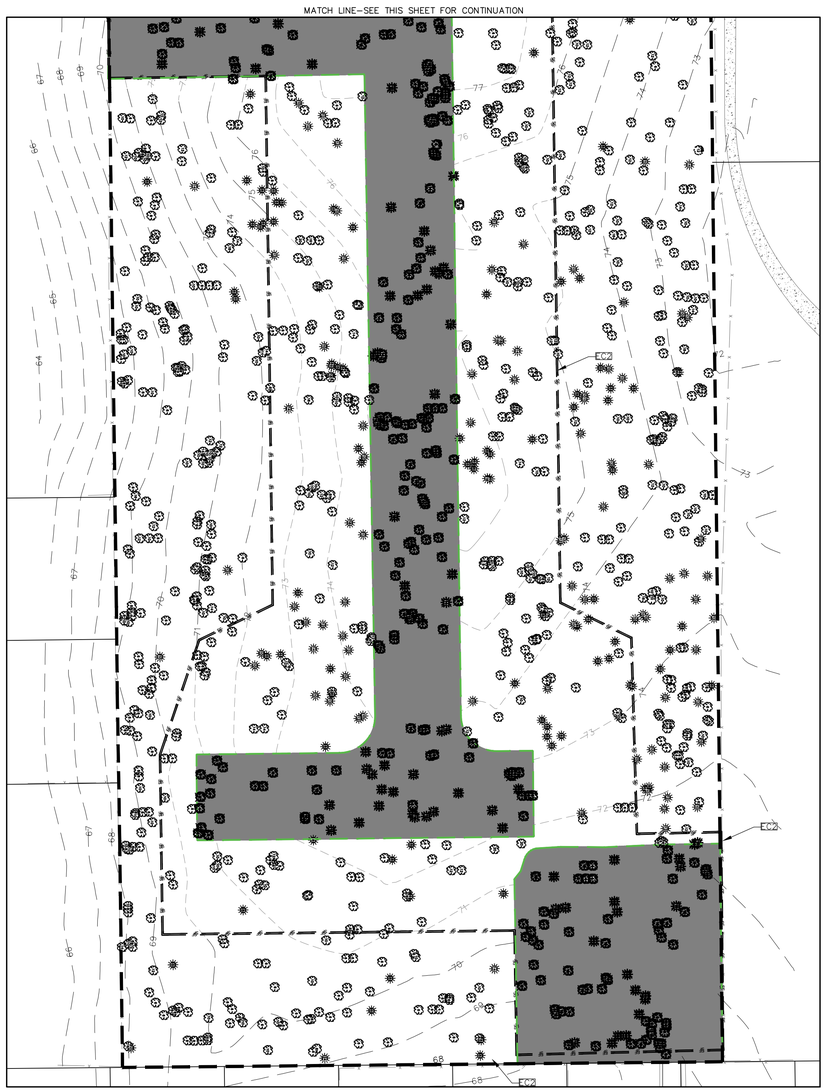
SHEET TITLE: TOPO SURVEY

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	3





MATCH LINE–SEE THIS SHEET FOR CONTINUATION

MATCH LINE–SEE THIS SHEET FOR CONTINUATION

GRAPHIC SCALE

50 0 50 100 200

(IN FEET)
1 inch = 50 ft.

EROSION CONTROL DETAILS

EC1 STABILIZED CONSTRUCTION ENTRANCE (PER FDOT INDEX 106)

EC2 TYPE III SILT FENCE

DEMOLITION NOTES

D02 PRESERVED WETLANDS.

D03 TO BE REMOVED.

D06 EXISTING DITCHES ARE TO BE FULLY CLEARED AND DEMUCKED UNTIL SOLID SOILS REACHED. FILL DITCH WITH SUITABLE MATERIAL AND COMPACT TO 95% DENSITY IN MAXIMUM 12" LIFTS.

D07 100' X 50' GRAVEL CONSTRUCTION ENTRANCE.

GENERAL NOTES

1. FOR DEMO/PRESERVED TREES AND TREE PROTECTION SEE LANDSCAPE PLAN SHEET.
2. ALL DISCHARGE POINTS SHALL RECEIVE RIP RAP AND/OR TURBIDITY BARRIERS TO PREVENT OFFSIDE EROSION.
3. ALL ROAD CUTS MUST BE RESTORED BY MILLING AND RESURFACING A MINIMUM OF 25 FEET FROM EACH SIDE OF CUT.

LEGEND

PROPERTY LINE

ROADWAY CENTERLINE

DRAINAGE EASEMENT

PROPOSED PAVEMENT

PROPOSED CONCRETE

PROPOSED GRAVEL

SILT FENCE

X-XX GEOTECH BORING LOCATION

NGWL NATURAL GROUND WATER LEVEL

SHGWL SEASONAL HIGH GROUND WATER LEVEL.

GRAPHIC SCALE

50 0 50 100 200

(IN FEET)
1 inch = 50 ft.

2510 US 1 SOUTH SUITE D
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LICENSED ENGINEER
QUOC H. MAI
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REVISIONS

	DESCRIPTION
1	
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SHEET TITLE: EROSION CONTROL & DEMO PLAN

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	4

REMOVED TREES TABLE		
ID	TYPE	DBH (IN)
#1	PINE	6
#2	CHERRY	6
#3	OAK	12
#4	OAK	10
#5	OAK	16
#6	OAK	12
#7	OAK	16
#8	OAK	16
#9	OAK	8
#10	OAK	10
#11	OAK	8
#12	OAK	8
#13	OAK	6
#14	CHERRY	6
#15	OAK	10
#21	OAK	6
#22	OAK	6
#23	OAK	10
#24	OAK	8
#25	OAK	10
#26	OAK	6
#27	OAK	10
#28	OAK	6
#29	OAK	10
#30	OAK	6
#31	OAK	10
#32	OAK	6
#33	OAK	12
#34	OAK	12
#35	OAK	8
#36	CHERRY	10
#37	OAK	6
#38	OAK	8
#39	OAK	12
#40	OAK	10
#41	OAK	8
#42	OAK	6
#43	OAK	10
#44	OAK	6
#45	OAK	10
#46	OAK	12
#47	OAK	12
#48	CHERRY	6
#49	CHERRY	6
#50	PINE	12
#51	OAK	6
#52	OAK	8
#53	OAK	8
#55	OAK	12
#60	OAK	8
#61	OAK	8
#62	OAK	14
#63	OAK	14
#64	OAK	6
#67	OAK	6
#70	OAK	8
#71	OAK	8
#72	OAK	6
#99	OAK	6
#100	OAK	8
#101	OAK	6
#102	OAK	10
#174	OAK	8
#177	OAK	6
#178	OAK	8
#179	OAK	6
#180	OAK	8
#181	OAK	8
#182	OAK	6
#183	OAK	8
#184	OAK	10
#185	OAK	6
#186	OAK	6
#187	PINE	14
#188	OAK	6
#189	OAK	6
#190	OAK	6
#191	OAK	6
#192	OAK	6
#193	OAK	6
#199	OAK	6
#200	OAK	6
#201	OAK	8
#202	OAK	8
#203	OAK	6
#204	OAK	6
#205	OAK	6
#206	OAK	6
#207	OAK	6
#208	OAK	6
#209	OAK	6
#210	OAK	6
#211	OAK	8
#212	OAK	6
#213	OAK	6
#215	PINE	12
#216	OAK	10
#217	OAK	6
#218	OAK	12
#219	OAK	12
#220	OAK	6
#221	OAK	8
#214	OAK	6
#269	OAK	6
#307	PINE	10
#309	OAK	8
#310	OAK	6
#311	OAK	8
#312	OAK	6
#313	OAK	6
#314	OAK	6
#315	OAK	6
#316	OAK	6
#317	OAK	8
#395	OAK	6
#396	OAK	8
#397	OAK	6
#398	OAK	6
#402	OAK	6
#403	OAK	6
#404	PINE	6
#405	OAK	12
#406	PINE	6
#407	PINE	6
#413	OAK	14
#409	OAK	10
#410	OAK	6
#412	OAK	6
#414	OAK	12

REMOVED TREES TABLE		
ID	TYPE	DBH (IN)
#460	OAK	6
#461	PINE	10
#462	PINE	8
#463	PINE	6
#464	CHERRY	6
#465	PINE	14
#466	PINE	8
#467	OAK	6
#468	OAK	6
#469	OAK	12
#492	PINE	10
#493	PINE	6
#494	PINE	10
#495	PINE	8
#496	PINE	8
#497	PINE	8
#498	PINE	8
#499	PINE	10
#500	PINE	6
#501	PINE	10
#502	PINE	10
#503	PINE	6
#504	PINE	8
#505	PINE	8
#506	PINE	6
#507	OAK	6
#508	PINE	10
#512	OAK	8
#513	PINE	12
#514	OAK	8
#515	PINE	6
#518	PINE	8
#519	PINE	8
#520	PINE	6
#521	OAK	12
#522	OAK	6
#523	PINE	10
#524	OAK	6
#525	OAK	6
#530	OAK	10
#531	OAK	14
#806	PINE	8
#807	OAK	12
#808	OAK	12
#809	PINE	14
#810	OAK	6
#811	PINE	14
#812	PINE	14
#813	OAK	6
#814	OAK	10
#815	OAK	6
#816	OAK	8
#817	PINE	12
#818	OAK	6
#819	OAK	6
#820	OAK	6
#821	OAK	6
#822	OAK	6
#823	OAK	6
#824	OAK	6
#825	OAK	4
#826	OAK	8
#827	OAK	6
#828	OAK	6
#829	PINE	8
#830	PINE	6
#832	PINE	12
#833	OAK	10
#909	OAK	6
#910	OAK	6
#911	OAK	8
#912	OAK	12
#914	OAK	10
#915	OAK	6
#916	OAK	6
#928	OAK	6
#981	OAK	6
#982	OAK	6
#983	OAK	6
#984	CHERRY	6
#985	OAK	6
#986	OAK	6
#987	OAK	6
#988	OAK	6
#989	OAK	6
#994	OAK	6
#995	OAK	6
#996	OAK	6
#1004	OAK	6
#1005	OAK	6
#1006	OAK	6
#1007	OAK	6
#1008	OAK	6
#1009	OAK	6
#1010	OAK	6
#1011	OAK	6
#1012	PINE	12
#1013	OAK	8
#1014	OAK	8
#1015	OAK	6
#1016	OAK	12
#1020	OAK	6
#1031	OAK	8
#1032	OAK	8
#1033	OAK	6
#1034	OAK	6
#1035	OAK	6
#1036	PINE	8
#1037	OAK	8
#1038	PINE	8
#1039	PINE	6
#1040	OAK	6
#1041	OAK	8
#1042	PINE	20
#1043	OAK	6
#1044	OAK	6
#1046	OAK	8
#1045	OAK	8
#1047	OAK	6
#1048	OAK	6
#1049	PINE	8
#1135	PINE	2
#1366	OAK	12
#1367	OAK	6
#1368	OAK	8
#1369	OAK	10
#1370	OAK	6
#1371	OAK	10
#1372	OAK	8

REMOVED TREES TABLE		
ID	TYPE	DBH (IN)
#1373	OAK	12
#1374	OAK	10
#1375	OAK	6
#1376	OAK	8
#1508	PINE	6
#1510	PINE	10
#1519	OAK	6
#1536	OAK	6
#1537	PINE	10
#1538	PINE	10
#1539	OAK	6
#1540	OAK	6
#1541	OAK	10
#1542	PINE	8
#1543	OAK	8
#1544	OAK	6
#1545	PINE	8
#1546	PINE	10
#1547	PINE	10
#1548	OAK	6
#1549	OAK	8
#1550	PINE	10
#1551	PINE	8
#1552	PINE	8
#1553	PINE	8
#1554	PINE	10
#1555	PINE	12
#1556	PINE	10
#1557	PINE	8
#1558	OAK	6
#1559	PINE	6
#1560	PINE	8
#1563	OAK	6
#1564	OAK	6
#1565	OAK	10
#1566	PINE	10
#1567	OAK	12
#1568	OAK	6
#1569	OAK	6
#1570	OAK	6
#1571	OAK	6
#1572	OAK	6
#1628	OAK	8
#1629	OAK	6
#1631	OAK	8
#1632	OAK	6
#1636	OAK	6
#1768	OAK	6
#1769	PINE	12
#1770	OAK	6
#1771	PINE	8
#1772	PINE	6
#1773	PINE	6
#1774	OAK	6
#1775	OAK	10
#1776	OAK	8
#1778	OAK	8
#1779	OAK	6
#1780	OAK	6
#1781	OAK	6
#1782	OAK	10
#1783	OAK	12
#1784	OAK	6
#1785	OAK	6
#1786	OAK	6
#1787	OAK	6
#1788	OAK	6
#1789	PINE	6
#1790	PINE	6
#1791	PINE	6
#1792	PINE	6
#1793	PINE	8
#1794	OAK	6
#1795	OAK	6
#1796	OAK	8
#1797	OAK	6
#1798	OAK	10
#1799	OAK	6
#1800	OAK	10
#1801	OAK	12
#1802	OAK	6
#1804	OAK	8
#1805	OAK	16
#1806	OAK	6
#1807	OAK	8
#1808	OAK	8
#1810	OAK	6
#1812	OAK	6
#1813	OAK	8
#1814	OAK	6
#1815	PINE	10
#1816	PINE	10
#1817	OAK	8
#1818	PINE	6
#1819	OAK	16
#1820	OAK	6
#1821	PINE	8
#1822	PINE	6
#1823	OAK	4
#1824	OAK	4
#1825	OAK	6
#1826	PINE	8
#1827	OAK	20
#1829	OAK	10
#1830	OAK	4
#1831	PINE	6
#1837	OAK	8
#1838	PINE	12
#1839	PINE	6
#1840	OAK	8
#1841	PINE	8
#1842	PINE	10
#1843	OAK	6
#1844	OAK	6
#1845	OAK	6
#1846	OAK	6
#1847	OAK	8
#1848	OAK	6
#1849	PINE	10
#1850	OAK	12
#1851	OAK	10
#1852	OAK	10
#1853	OAK	8
#1854	OAK	8
#1855	OAK	8
#1856	PINE	10
#1857	OAK	6
#1873	PINE	12
#1874	OAK	10

REMOVED TREES TABLE		
ID	TYPE	DBH (IN)
#1876	PINE	8
#1878	PINE	10
#1879	OAK	10
#1880	OAK	6
#1881	OAK	12
#1882	OAK	12
#1883	OAK	8
#1884	OAK	6
#1885	OAK	8
#1886	OAK	10
#1894	OAK	8
#1895	OAK	10
#1980	OAK	20
#1981	OAK	8
#1982	OAK	6
#1983	OAK	12
#1984	OAK	8
#2006	OAK	10
#2007	OAK	12
#2012	OAK	6
#2013	OAK	6
#2014	OAK	8
#2015	OAK	6
#2016	OAK	8
#2017	OAK	6
#2018	OAK	8
#2019	OAK	10
#2020	OAK	8
#2021	OAK	12
#2022	PINE	8
#2023	PINE	6
#2024	PINE	8
#2026	PINE	6
#2073	PINE	16
#2074	OAK	8
#2085	OAK	14
#2090	PINE	12
#2091	PINE	12
#2092	OAK	6
#2093	PINE	8
#2099	PINE	12
#2100	PINE	10
#2101	PINE	6
#2102	PINE	6
#2103	PINE	6
#2104	PINE	6
#2106	PINE	12
#2107	PINE	8
#2108	PINE	8
#2110	OAK	8
#2111	PINE	12
#2112	PINE	6
#2193	OAK	10
#2194	OAK	8
#2195	OAK	6
#2196	OAK	6
#2197	PINE	8
#2198	OAK	8
#2199	PINE	10
#2200	OAK	6
#2201	OAK	16
#2202	OAK	6
#2203	OAK	12
#2204	OAK	14
#2206	OAK	6
#2210	OAK	6
#2211	OAK	8
#2212	OAK	6
#2213	OAK	10
#2214	OAK	10
#2215	PINE	8
#2217	OAK	8
#2218	PINE	10
#2220	PINE	8
#2221	PINE	8
#2222	PINE	6
#2223	PINE	10
#2224	OAK	14
#2225	OAK	18
#2234	PINE	8
#2235	OAK	6
#2236	PINE	12
#2237	OAK	6
#2238	OAK	6
#2239	OAK	24
#2240	OAK	8
#2241	PINE	8
#2242	OAK	8
#2243	PINE	6
#2244	PINE	6
#2245	PINE	6
#2260	OAK	8
#2261	OAK	14
#2262	OAK	6
#2263	OAK	6
#2264	PINE	6
#2265	PINE	6
#2266	OAK	14
#2267	OAK	12
#2296	PINE	12
#2299	OAK	6
#2300	OAK	10
#2301	OAK	10
#2302	OAK	6
#2303	OAK	8
#2304	OAK	6
#2305	OAK	8
#2306	OAK	8
#2307	OAK	12
#2308	OAK	6
#2309	OAK	6
#2310	OAK	6
#2311	OAK	6
#2312	OAK	8
#2313	OAK	8
#2314	OAK	6
#2315	OAK	8
#2316	OAK	6
#2330	OAK	8
#2331	OAK	8
#2332	OAK	6
#2333	OAK	10
#2334	OAK	8
#2335	OAK	10
#2336	OAK	10
#2337	OAK	8
#2338	OAK	8
#2339	OAK	6
#2340	OAK	6

REMOVED TREES TABLE		
ID	TYPE	DBH (IN)
#2341	OAK	6
#2344	OAK	6
#2345	PINE	10
#2346	OAK	8
#2347	OAK	8
#2348	OAK	6
#2349	OAK	6
#2350	OAK	8
#2351	OAK	6
#2352	OAK	6
#2353	OAK	6
#2354	OAK	8
#2355	OAK	8
#2356	PINE	6
#2357	OAK	6
#2372	OAK	10
#2373	PINE	8
#2086	OAK	8
#222	OAK	10
#649	PINE	6
#657	OAK	8
#16	CHERRY	8
#17	OAK	8
#18	OAK	6
#20	OAK	8
#68	OAK	12
#69	OAK	8
#408	PINE	12
#411	OAK	6
#223	OAK	12
#224	OAK	10
#306	OAK	6
#318	OAK	6
#321	PINE	6
#394	OAK	8
#459	OAK	6
#470	OAK	6
#471	PINE	6
#415	OAK	12
#511	PINE	12
#516	PINE	8
#517	PINE	8
#490	PINE	6
#491	PINE	8
#1575	OAK	8
#2205	OAK	10
#2207	OAK	8
#2297	OAK	8
#1630	OAK	8
#1633	OAK	8
#1634	OAK	4
#1637	OAK	6
#1638	OAK	6
#1639	OAK	8
#1561	PINE	12
#1803	OAK	8
#1777	OAK	8
#1809	OAK	6
#1811	OAK	6
#1509	OAK	6
#1511	OAK	6
#1512	OAK	6
#1513	OAK	6
#1514	PINE	8
#1515	OAK	6
#1516	PINE	6
#1517	OAK	6
#1518	OAK	6
#532	OAK	6
#533	PINE	8
#534	OAK	10
#2005	OAK	6
#2008	OAK	6
#2009	OAK	8
#2010	OAK	6
#2011	OAK	8
#1979	OAK	6
#2109	OAK	6
#2094	OAK	6
#2095	OAK	6
#2216	OAK	8
#2188	OAK	8
#2189	OAK	8
#2190	OAK	6
#2191	OAK	6
#2192	OAK	6
#917	OAK	8
#918	OAK	6
#990	OAK	8
#991	OAK	8
#997	OAK	6
#998	OAK	6
#999	OAK	6
#1000	OAK	6
#1001	OAK	6
#1002	OAK	6
#1003	OAK	6
#2259	PINE	16
#2295	OAK	8
#2317	OAK	6
#2329	OAK	8
#2358	PINE	6
#2359	PINE	14
#2360	OAK	8
#1377	OAK	8
#1535	OAK	8
TOTAL	622	4,974

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#19	OAK	6
#54	OAK	8
#56	OAK	6
#57	PINE	8
#58	PINE	14
#59	OAK	14
#65	OAK	6
#66	OAK	10
#73	OAK	6
#74	OAK	6
#76	OAK	12
#77	OAK	10
#78	OAK	8
#79	OAK	10
#80	OAK	8
#81	OAK	8
#82	OAK	8
#83	OAK	10
#84	OAK	6
#85	OAK	10
#88	OAK	6
#94	OAK	6
#95	OAK	6
#96	OAK	6
#97	OAK	6
#98	OAK	8
#104	OAK	8
#116	OAK	8
#117	OAK	6
#118	OAK	6
#119	OAK	6
#120	OAK	8
#121	OAK	6
#122	OAK	6
#123	OAK	6
#125	OAK	12
#126	OAK	6
#129	OAK	8
#133	OAK	6
#134	OAK	8
#153	OAK	6
#155	OAK	6
#160	OAK	10
#163	OAK	8
#167	OAK	6
#168	OAK	6
#169	OAK	6
#170	OAK	14
#171	OAK	6
#172	OAK	6
#173	OAK	6
#175	OAK	8
#176	OAK	6
#194	OAK	6
#195	OAK	6
#196	OAK	6
#197	OAK	6
#198	OAK	6
#225	OAK	6
#226	OAK	8
#227	OAK	6
#228	OAK	8
#229	PINE	10
#230	OAK	6
#231	OAK	6
#240	OAK	6
#244	PINE	12
#245	OAK	8
#251	OAK	6
#252	OAK	8
#253	OAK	10
#261	OAK	6
#262	OAK	6
#264	PINE	14
#265	OAK	6
#266	OAK	6
#267	OAK	8
#268	OAK	6
#271	OAK	6
#278	OAK	10
#279	OAK	10
#281	OAK	6
#282	OAK	6
#283	OAK	10
#284	OAK	6
#285	OAK	8
#286	OAK	12
#287	PINE	8
#288	OAK	6
#289	OAK	8
#303	OAK	8
#304	PINE	10
#305	OAK	6
#308	OAK	8
#319	OAK	6
#320	OAK	10
#322	OAK	8
#323	OAK	10
#324	OAK	6
#325	OAK	6
#326	OAK	8
#329	OAK	6
#330	PINE	14
#332	OAK	6
#333	OAK	10
#334	PALM	8
#335	PINE	14
#339	OAK	6
#342	OAK	6
#350	OAK	6
#351	OAK	8
#356	OAK	6
#359	OAK	12
#360	OAK	6
#361	PINE	6
#365	OAK	6
#366	OAK	6
#367	OAK	12
#371	OAK	8
#372	OAK	10
#373	OAK	12
#374	OAK	6
#375	OAK	6
#376	OAK	10
#377	OAK	10
#378	OAK	6
#379	OAK	12
#380	OAK	6
#381	OAK	10

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#382	OAK	12
#383	OAK	10
#384	OAK	6
#385	OAK	12
#386	OAK	10
#387	OAK	6
#400	OAK	8
#401	OAK	6
#416	OAK	14
#417	OAK	8
#418	OAK	8
#419	OAK	6
#420	OAK	8
#421	OAK	8
#422	OAK	10
#423	OAK	6
#424	OAK	8
#425	CHERRY	10
#426	OAK	8
#427	OAK	6
#428	OAK	10
#429	OAK	12
#430	OAK	6
#433	OAK	10
#434	OAK	6
#435	OAK	10
#436	OAK	8
#437	OAK	10
#438	OAK	14
#439	OAK	8
#440	OAK	12
#441	OAK	8
#442	OAK	8
#443	OAK	8
#444	OAK	8
#445	OAK	10
#452	PINE	10
#453	PINE	6
#457	OAK	6
#472	OAK	10
#473	PINE	8
#474	PINE	10
#475	PINE	10
#476	PINE	8
#477	PINE	8
#478	PINE	10
#479	PINE	10
#481	PINE	10
#482	PINE	10
#483	PINE	10
#484	PINE	10
#485	PINE	6
#486	PINE	12
#487	PINE	6
#488	PINE	8
#489	PINE	8
#509	PINE	6
#510	PINE	10
#536	PINE	12
#537	OAK	10
#538	OAK	10
#555	PINE	8
#556	PINE	8
#557	PINE	8
#558	PINE	6
#559	OAK	6
#560	OAK	6
#561	PINE	6
#562	PINE	12
#563	PINE	10
#564	PINE	14
#565	PINE	12
#575	PINE	8
#576	PINE	8
#590	PINE	12
#591	OAK	8
#592	PINE	12
#599	OAK	6
#600	OAK	6
#601	OAK	6
#605	OAK	8
#606	OAK	6
#607	OAK	6
#608	OAK	8
#609	OAK	8
#610	OAK	8
#611	OAK	8
#612	OAK	8
#613	OAK	8
#614	PINE	6
#615	OAK	8
#616	OAK	6
#617	PINE	14
#626	OAK	8
#627	OAK	6
#628	OAK	6
#629	PINE	12
#630	OAK	8
#633	OAK	6
#634	OAK	6
#635	PINE	8
#638	OAK	8
#639	OAK	8
#640	OAK	8
#641	OAK	6
#642	OAK	6
#643	OAK	8
#644	OAK	6
#645	OAK	8
#646	PINE	10
#647	PINE	10
#648	PINE	6
#650	OAK	12
#651	OAK	6
#652	OAK	6
#653	OAK	6
#654	OAK	8
#655	OAK	8
#656	OAK	6
#659	CHERRY	6
#660	OAK	6
#661	OAK	8
#662	OAK	6
#663	OAK	8
#664	OAK	8
#665	PINE	6
#666	OAK	10
#667	OAK	6
#668	PINE	14

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#670	OAK	10
#673	PINE	10
#674	CHERRY	12
#690	OAK	8
#692	OAK	8
#693	OAK	10
#694	OAK	12
#695	OAK	14
#696	OAK	10
#698	PINE	6
#699	PINE	12
#700	OAK	8
#701	OAK	6
#702	OAK	6
#703	OAK	6
#705	OAK	6
#706	OAK	6
#708	OAK	6
#709	OAK	6
#710	OAK	6
#711	OAK	10
#712	OAK	6
#713	OAK	10
#714	OAK	8
#715	OAK	6
#716	PINE	12
#719	OAK	12
#720	OAK	6
#721	OAK	10
#722	OAK	6
#723	OAK	6
#724	OAK	6
#725	OAK	10
#726	OAK	6
#727	OAK	6
#728	OAK	6
#729	OAK	8
#730	OAK	10
#731	OAK	8
#732	OAK	10
#738	PINE	8
#739	PINE	8
#740	PINE	6
#741	OAK	10
#742	OAK	14
#743	OAK	8
#744	OAK	6
#745	OAK	6
#746	OAK	8
#747	PINE	6
#748	PINE	6
#749	OAK	6
#750	OAK	14
#751	OAK	6
#752	OAK	6
#755	OAK	8
#756	PINE	8
#757	OAK	8
#758	OAK	8
#761	OAK	6
#762	PINE	6
#763	PINE	6
#764	PINE	10
#765	OAK	6
#766	OAK	8
#767	OAK	8
#768	OAK	6
#769	OAK	8
#770	OAK	6
#771	OAK	8
#782	OAK	8
#783	OAK	6
#784	OAK	8
#785	OAK	10
#794	OAK	6
#795	OAK	8
#798	OAK	8
#799	OAK	10
#800	OAK	6
#801	OAK	8
#802	OAK	6
#803	OAK	8
#804	OAK	8
#805	PINE	6
#831	OAK	6
#836	OAK	6
#837	OAK	6
#839	OAK	6
#840	PINE	6
#841	OAK	6
#842	OAK	6
#843	OAK	6
#844	OAK	6
#846	OAK	6
#856	OAK	16
#857	OAK	6
#858	OAK	6
#860	OAK	8
#861	OAK	10
#862	OAK	8
#863	OAK	10
#864	OAK	8
#869	OAK	10
#875	OAK	6
#877	OAK	8
#878	OAK	8
#888	OAK	6
#896	OAK	6
#897	OAK	6
#898	PINE	12
#899	OAK	6
#900	OAK	6
#901	CHERRY	8
#919	OAK	6
#920	OAK	6
#921	OAK	6
#922	PINE	6
#923	OAK	6
#924	OAK	6
#925	OAK	6
#926	OAK	6
#927	OAK	6
#929	OAK	6
#930	OAK	6
#931	OAK	12
#932	OAK	12
#933	OAK	12
#943	OAK	10
#945	OAK	12

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#946	OAK	16
#947	OAK	6
#948	OAK	6
#950	OAK	6
#951	OAK	8
#953	PINE	14
#954	OAK	6
#955	PINE	10
#969	OAK	6
#970	OAK	6
#971	OAK	10
#972	OAK	10
#973	OAK	6
#974	OAK	6
#975	OAK	6
#976	OAK	8
#977	OAK	8
#978	OAK	8
#979	OAK	8
#980	OAK	8
#992	OAK	8
#993	OAK	6
#1017	OAK	12
#1018	OAK	6
#1019	OAK	6
#1021	PINE	12
#1022	PINE	14
#1023	OAK	6
#1024	PINE	10
#1029	OAK	6
#1050	OAK	6
#1051	OAK	12
#1052	OAK	12
#1053	OAK	8
#1056	OAK	12
#1057	OAK	6
#1058	OAK	8
#1059	OAK	10
#1060	OAK	10
#1061	OAK	8
#1062	OAK	8
#1063	OAK	8
#1064	OAK	10
#1066	PINE	6
#1067	OAK	8
#1068	OAK	6
#1069	OAK	6
#1070	OAK	8
#1071	OAK	6
#1072	OAK	6
#1073	OAK	6
#1074	OAK	6
#1075	OAK	6
#1076	OAK	8
#1078	OAK	10
#1079	OAK	10
#1080	OAK	8
#1081	OAK	8
#1082	OAK	6
#1083	OAK	6
#1084	OAK	6
#1085	OAK	6
#1086	OAK	6
#1087	OAK	6
#1088	OAK	6
#1089	OAK	6
#1090	OAK	6
#1091	OAK	6
#1098	OAK	8
#1099	OAK	18
#1100	OAK	14
#1113	PINE	8
#1118	OAK	6
#1119	P

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#1216	PINE	12
#1215	OAK	6
#1219	PINE	8
#1220	PINE	12
#1221	PINE	6
#1222	PINE	10
#1223	OAK	6
#1224	OAK	8
#1225	OAK	8
#1226	OAK	8
#1227	OAK	10
#1228	OAK	10
#1229	OAK	16
#1230	PINE	14
#1234	OAK	8
#1235	OAK	8
#1236	OAK	8
#1237	OAK	6
#1238	OAK	6
#1239	PINE	8
#1240	PINE	8
#1247	OAK	6
#1260	OAK	6
#1261	OAK	6
#1262	OAK	8
#1263	OAK	8
#1264	OAK	8
#1265	OAK	8
#1266	OAK	6
#1277	OAK	8
#1278	OAK	10
#1279	OAK	6
#1280	OAK	12
#1281	OAK	12
#1282	OAK	6
#1283	OAK	10
#1287	OAK	14
#1290	OAK	10
#1294	OAK	8
#1295	OAK	8
#1296	OAK	12
#1297	OAK	8
#1298	OAK	10
#1299	OAK	12
#1309	OAK	6
#1340	OAK	6
#1341	OAK	10
#1342	OAK	10
#1343	OAK	10
#1344	OAK	12
#1345	OAK	8
#1350	OAK	10
#1351	OAK	12
#1356	OAK	6
#1357	PINE	10
#1358	PINE	12
#1359	PINE	10
#1360	OAK	6
#1361	OAK	6
#1362	OAK	6
#1363	OAK	12
#1364	OAK	6
#1365	OAK	6
#1378	OAK	8
#1379	OAK	8
#1380	OAK	8
#1382	OAK	6
#1383	OAK	6
#1384	OAK	8
#1385	OAK	8
#1386	OAK	6
#1387	OAK	8
#1388	OAK	6
#1389	OAK	6
#1390	OAK	6
#1391	PINE	8
#1392	OAK	6
#1393	PINE	10
#1394	PINE	8
#1395	PINE	6
#1396	PINE	8
#1397	PINE	10
#1398	PINE	10
#1399	OAK	12
#1400	OAK	6
#1401	OAK	10
#1402	OAK	12
#1403	OAK	10
#1419	OAK	12
#1420	OAK	10
#1421	OAK	6
#1422	OAK	6
#1426	OAK	10
#1427	OAK	8
#1428	OAK	6
#1429	OAK	6
#1434	PINE	12
#1435	PINE	12
#1436	OAK	16
#1437	OAK	10
#1438	OAK	16
#1439	OAK	10
#1440	OAK	10
#1441	PINE	10
#1442	PINE	10
#1443	PINE	10
#1446	PINE	8
#1447	PINE	10
#1448	OAK	8
#1449	OAK	6
#1465	OAK	6
#1466	OAK	6
#1467	OAK	8
#1468	OAK	6
#1482	OAK	8
#1483	OAK	6
#1484	OAK	6
#1491	OAK	6
#1492	OAK	6
#1493	OAK	10
#1494	OAK	6
#1497	OAK	6
#1498	PINE	12
#1503	OAK	6
#1504	OAK	6
#1505	OAK	6
#1506	OAK	6
#1507	PINE	18
#1520	PINE	6

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#1521	PINE	8
#1522	PINE	6
#1523	PINE	8
#1524	PINE	6
#1531	OAK	10
#1573	PINE	8
#1574	PINE	12
#1575	PINE	10
#1576	OAK	16
#1577	OAK	14
#1578	OAK	6
#1581	PINE	10
#1582	PINE	12
#1583	PINE	6
#1584	OAK	6
#1585	OAK	8
#1603	PINE	10
#1604	OAK	6
#1605	OAK	8
#1606	OAK	6
#1607	OAK	8
#1608	OAK	6
#1609	OAK	6
#1610	OAK	6
#1611	OAK	6
#1614	OAK	10
#1619	OAK	8
#1620	OAK	6
#1621	OAK	8
#1622	OAK	6
#1623	OAK	6
#1627	OAK	10
#1635	OAK	6
#1640	OAK	6
#1641	OAK	8
#1645	OAK	8
#1644	OAK	10
#1651	OAK	6
#1652	OAK	8
#1653	OAK	10
#1654	OAK	10
#1655	OAK	10
#1659	OAK	12
#1660	OAK	8
#1661	OAK	6
#1662	OAK	8
#1666	OAK	6
#1667	OAK	6
#1683	OAK	6
#1684	OAK	6
#1685	OAK	6
#1686	OAK	6
#1687	OAK	8
#1690	OAK	8
#1691	OAK	8
#1692	OAK	8
#1693	OAK	8
#1694	OAK	8
#1695	OAK	10
#1696	OAK	6
#1697	OAK	10
#1698	OAK	8
#1699	OAK	6
#1703	OAK	10
#1704	OAK	10
#1706	OAK	6
#1707	OAK	10
#1708	OAK	10
#1709	OAK	8
#1710	OAK	6
#1711	OAK	6
#1712	OAK	6
#1713	OAK	6
#1714	OAK	6
#1719	OAK	6
#1720	PINE	6
#1721	OAK	8
#1722	OAK	6
#1734	OAK	8
#1735	OAK	6
#1736	OAK	8
#1737	OAK	6
#1738	OAK	6
#1739	PINE	8
#1743	OAK	6
#1744	OAK	20
#1745	OAK	12
#1746	OAK	12
#1747	PINE	8
#1754	PINE	14
#1757	OAK	6
#1761	OAK	4
#1762	OAK	6
#1763	OAK	6
#1764	OAK	8
#1765	OAK	6
#1766	PINE	8
#1828	OAK	20
#1832	PINE	12
#1833	OAK	12
#1834	OAK	6
#1835	OAK	6
#1836	OAK	6
#1858	PINE	12
#1859	PINE	6
#1864	PINE	14
#1865	PINE	10
#1866	PINE	8
#1867	OAK	6
#1868	OAK	6
#1869	OAK	6
#1871	PINE	12
#1872	OAK	8
#1877	OAK	8
#1887	OAK	6
#1888	PINE	10
#1889	PINE	8
#1890	PINE	10
#1891	PINE	12
#1892	PINE	6
#1893	PINE	6
#1898	PINE	8
#1899	PINE	8
#1900	PINE	8
#1901	PINE	6
#1902	PINE	8
#1906	PINE	10
#1907	PINE	8
#1908	PINE	10

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#1909	OAK	8
#1910	PINE	12
#1911	PINE	6
#1912	PINE	8
#1913	OAK	10
#1914	OAK	6
#1915	PINE	6
#1916	OAK	6
#1917	OAK	6
#1944	OAK	10
#1945	OAK	10
#1946	OAK	10
#1947	OAK	10
#1960	OAK	12
#1961	OAK	10
#1962	OAK	10
#1963	PINE	6
#1964	OAK	10
#1965	OAK	8
#1966	PINE	12
#1968	OAK	6
#1969	OAK	6
#1971	OAK	6
#1972	OAK	8
#1973	OAK	6
#1974	OAK	6
#1975	OAK	6
#1976	OAK	8
#1977	OAK	10
#1988	OAK	14
#1989	OAK	6
#1990	OAK	6
#1991	OAK	14
#1992	OAK	8
#1993	OAK	8
#1994	OAK	8
#1995	OAK	8
#1996	OAK	8
#1997	OAK	6
#1998	OAK	6
#1999	PINE	16
#2000	OAK	6
#2001	OAK	6
#2002	OAK	8
#2003	OAK	8
#2004	OAK	6
#2209	OAK	8
#2219	OAK	6
#2025	PINE	6
#2034	PINE	10
#2035	PINE	8
#2036	PINE	12
#2037	PINE	10
#2038	PINE	12
#2043	OAK	10
#2055	CHERRY	8
#2056	PINE	8
#2057	PINE	8
#2060	OAK	6
#2061	PINE	8
#2062	OAK	8
#2063	PINE	6
#2064	OAK	6
#2065	OAK	8
#2066	OAK	6
#2067	OAK	10
#2068	OAK	8
#2069	OAK	6
#2070	OAK	8
#2071	OAK	10
#2072	OAK	10
#2075	OAK	10
#2080	PINE	6
#2081	PINE	8
#2082	PINE	6
#2083	PINE	10
#2084	OAK	16
#2087	PINE	10
#2088	PINE	8
#2089	PINE	6
#2096	OAK	6
#2097	PINE	6
#2098	PINE	10
#2123	OAK	8
#2124	OAK	8
#2125	OAK	6
#2126	OAK	6
#2127	OAK	6
#2128	OAK	6
#2129	OAK	6
#2130	OAK	6
#2131	OAK	6
#2132	OAK	6
#2152	PINE	8
#2156	OAK	14
#2157	PINE	6
#2158	OAK	6
#2160	OAK	6
#2161	OAK	8
#2162	PINE	6
#2163	PINE	10
#2164	PINE	6
#2167	OAK	10
#2168	OAK	6
#2169	OAK	10
#2170	OAK	6
#2171	OAK	14
#2187	OAK	10
#2226	OAK	8
#2227	OAK	8
#2228	OAK	6
#2229	OAK	6
#2230	PINE	12
#2231	OAK	8
#2232	PINE	12
#2233	OAK	8
#2249	PINE	10
#2250	OAK	6
#2251	OAK	6
#2252	OAK	10
#2253	OAK	10
#2254	OAK	8
#2255	OAK	8
#2258	PINE	8
#2278	PINE	12
#2279	OAK	6
#2282	PINE	12
#2283	OAK	6
#2284	OAK	6

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#2285	OAK	8
#2286	OAK	6
#2287	OAK	8
#2288	OAK	6
#2289	OAK	6
#2290	OAK	6
#2291	PINE	8
#2292	OAK	6
#2293	OAK	8
#2294	OAK	10
#2298	PINE	6
#2318	PINE	8
#2319	PINE	8
#2320	PINE	6
#2321	OAK	14
#2322	OAK	10
#2323	OAK	8
#2324	PINE	6
#2325	PINE	16
#2326	PINE	6
#2327	PINE	8
#2328	PINE	6
#2361	OAK	8
#2362	OAK	8
#2363	OAK	6
#2364	OAK	8
#2365	OAK	10
#2366	OAK	6
#2367	OAK	10
#2368	OAK	10
#2369	OAK	10
#2370	OAK	6
#2371	OAK	6
#526	OAK	12
#527	OAK	8
#528	OAK	6
#529	OAK	6
#535	OAK	12
#566	OAK	8
#567	OAK	6
#568	PINE	12
#569	OAK	10
#570	PINE	10
#571	PINE	6
#572	PINE	12
#573	PINE	10
#574	PINE	10
#577	OAK	6
#578	OAK	8
#579	PINE	12
#580	CHERRY	6
#581	CHERRY	6
#582	OAK	8
#583	OAK	10
#584	PINE	8
#585	PINE	6
#586	PINE	6
#587	PINE	8
#588	PINE	10
#589	PINE	14
#1302	OAK	6
#1310	OAK	6
#1313	OAK	6
#1314	OAK	10
#1315	OAK	14
#1316	OAK	10
#1317	OAK	6
#1318	OAK	6
#1319	OAK	6
#1320	OAK	8
#1321	OAK	8
#1352	OAK	8
#1353	PINE	10
#1354	OAK	6
#1355	PINE	12
#1532	PINE	10
#1533	OAK	6
#1534	OAK	12
#1562	PINE	8
#1978	OAK	6
#2208	OAK	8
#675	PINE	8
#86	OAK	8
#87	OAK	10
#89	OAK	10
#90	OAK	6
#91	OAK	8
#92	OAK	6
#93	OAK	6
#103	OAK	6
#105	OAK	6
#106	OAK	6
#107	OAK	10
#108	OAK	14
#109	OAK	12
#110	OAK	12
#124	OAK	6
#161	PINE	8
#162	OAK	8
#164	PINE	8
#165	OAK	6
#166	OAK	6
#135	OAK	6
#136	OAK	6
#137	OAK	6
#138	OAK	6
#139	OAK	6
#140	OAK	6
#141	OAK	6
#142	OAK	6
#143	OAK	6
#144	OAK	8
#145	OAK	6
#146	OAK	8
#147	OAK	6
#148	OAK	6
#149	OAK	6
#150	OAK	8
#151	OAK	8
#152	OAK	6
#154	OAK	8
#156	OAK	6
#157	OAK	6
#158	OAK	6
#159	OAK	6
#232	OAK	6
#233	OAK	6
#234	OAK	6
#235	OAK	6

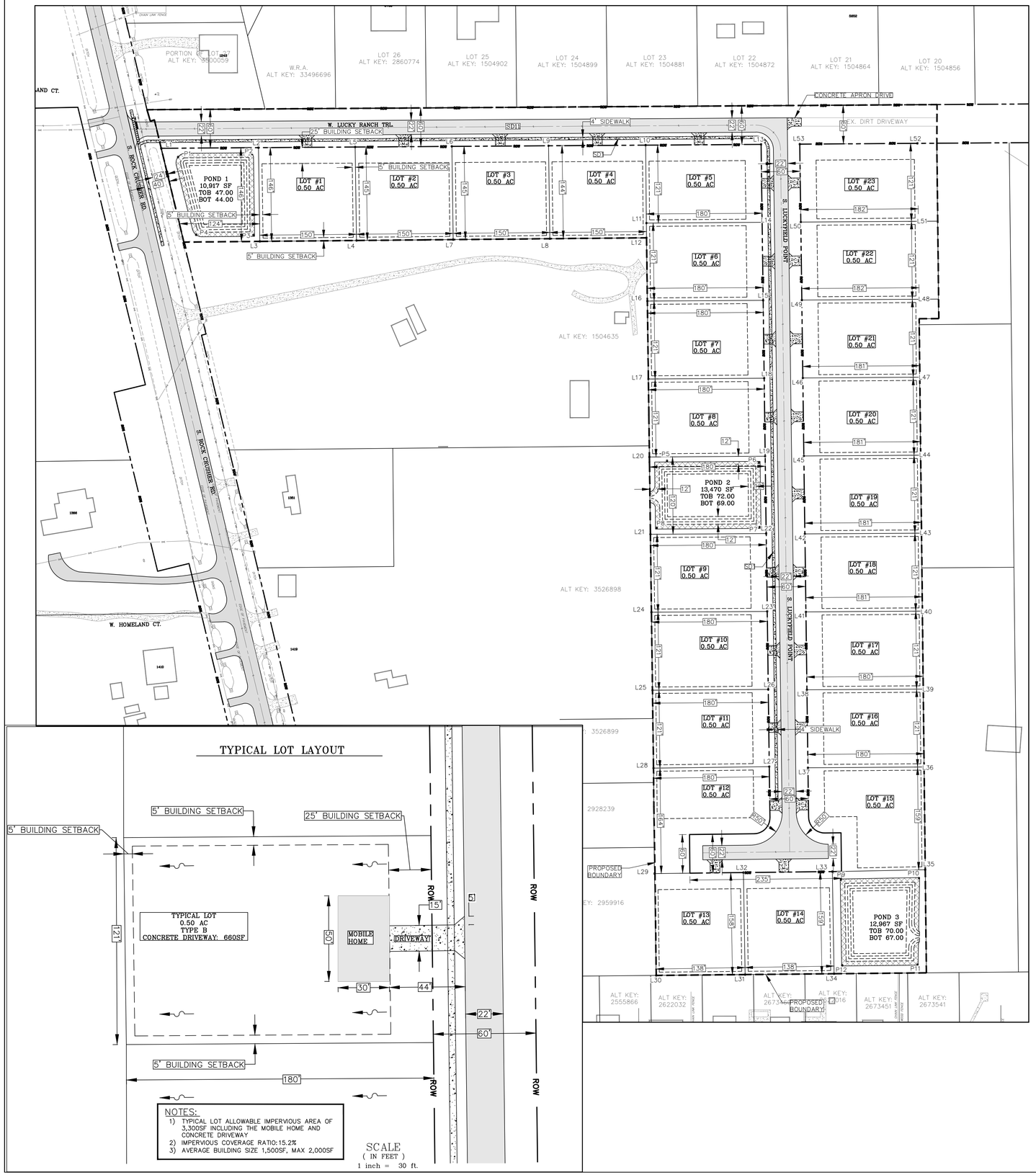
SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#236	OAK	8
#237	OAK	6
#238	OAK	6
#239	OAK	6
#241	OAK	6
#242	OAK	6
#243	OAK	6
#246	OAK	6
#247	OAK	10
#248	OAK	6
#249	OAK	6
#250	OAK	6
#290	OAK	8
#291	OAK	6
#292	OAK	10
#293	OAK	8
#294	OAK	12
#295	PINE	10
#296	OAK	8
#297	OAK	6
#298	OAK	6
#299	OAK	8
#300	OAK	6
#301	OAK	8
#302	OAK	8
#327	OAK	6
#328	OAK	6
#331	OAK	6
#362	PINE	6
#363	PINE	12
#364	PINE	12
#368	OAK	8
#369	OAK	6
#370	OAK	8
#388	PINE	6
#389	OAK	8
#390	OAK	8
#391	OAK	8
#392	OAK	8
#393	OAK	8
#399	OAK	6
#431	OAK	12
#432	OAK	6
#446	PINE	6
#447	PINE	12
#448	PINE	10
#449	PINE	8
#450	PINE	8
#451	PINE	8
#454	PINE	10
#455	OAK	6
#456	OAK	6
#458	OAK	12
#480	PINE	12
#1860	OAK	8
#1861	OAK	8
#1862	OAK	12
#1863	OAK	6
#1870	OAK	6
#2039	OAK	6
#2040	OAK	6
#2041	PINE	16
#2042	OAK	10
#2044	OAK	6
#2045	OAK	6
#2046	PINE	16
#2047	OAK	6
#2048	OAK	6
#2049	OAK	8
#2050	PINE	6
#2051	PINE	4
#2052	PINE	8
#2053	PINE	8
#2054	PINE	8
#2027	OAK	8
#2028	OAK	8
#2029	OAK	8
#2030	OAK	6
#2031	OAK	8
#2032	OAK	6
#2033	OAK	6
#669	PINE	8
#671	PINE	8
#672	PINE	6
#2058	PINE	6
#2059	PINE	10
#676	PINE	6
#677	PINE	6
#678	PINE	6
#679	OAK	6
#680	OAK	10
#681	OAK	8
#682	OAK	8
#683	OAK	8
#684	OAK	6
#685	PINE	10
#686	OAK	10
#687	PINE	6
#688	PINE	6
#689	PINE	10
#2076	PINE	8
#2077	PINE	8
#2078	PINE	8
#2079	OAK	6
#759	PINE	8
#760	OAK	6
#753	PINE	14
#754	OAK	6
#772	OAK	8
#773	OAK	6
#774	PINE	8
#775	OAK	6
#776	OAK	8
#777	PINE	8
#778	OAK	6
#779	OAK	8
#780	OAK	8
#781	OAK	8
#838	OAK	6
#834	OAK	10
#835	OAK	6
#1025	OAK	6
#1027	OAK	6
#1028	OAK	6
#1030	PINE	8
#1101	OAK	6
#1102	OAK	6
#1103	OAK	6
#1104	PINE	4

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#1105	OAK	8
#1106	PINE	6
#1107	OAK	10
#1108	OAK	8
#1109	OAK	8
#1110	PINE	8
#1111	PINE	6
#1112	PINE	8
#1114	PINE	6
#1115	PINE	6
#1116	PINE	6
#1117	PINE	6
#1092	PINE	6
#1093	PINE	6
#1094	OAK	4
#1095	OAK	4
#1096	OAK	8
#1097	OAK	10
#1231	OAK	6
#1232	OAK	6
#1233	OAK	6
#1241	PINE	6
#1242	PINE	6
#1243	OAK	6
#1244	PINE	10
#1245	OAK	14
#1246	OAK	6
#1248	OAK	6
#1249	OAK	6
#1250	OAK	6
#1251	OAK	6
#1252	OAK	8
#1253	OAK	8
#1254	OAK	10
#1255	OAK	14
#1256	OAK	14
#1257	OAK	10
#1258	OAK	6
#1259	OAK	6
#1284	OAK	10
#1285	OAK	8
#1286	OAK	10
#1288	OAK	10
#1289	OAK	10
#1322	OAK	6
#1323	OAK	8
#1324	OAK	6
#1325	OAK	6
#1326	OAK	6
#1327	OAK	8
#1328	OAK	8
#1329	OAK	6
#1330	PINE	12
#1331	OAK	6
#1332	OAK	8
#1333	OAK	8
#1334	OAK	8
#1335	OAK	10
#1336	OAK	6
#1337	OAK	6
#1338	OAK	6
#1339	OAK	8
#1346	OAK	8
#1347	OAK	6
#1348	PINE	16
#1349	PINE	12
#1311	OAK	8
#1312	OAK	6
#1579	OAK	8
#1580	OAK	6
#1586	PINE	10
#1587	PINE	8
#1588	PINE	12
#1589	PINE	14
#1590	OAK	8
#1591	OAK	12
#1592	PINE	6
#1593	PINE	8
#1594	PINE	10
#1595	PINE	10
#1596	OAK	8
#1597	OAK	6
#1598	OAK	8
#1599	OAK	6
#1600	OAK	6
#1601	OAK	6
#1602	OAK	6
#1656	OAK	6
#1657	OAK	8
#1658	OAK	6
#1663	OAK	10
#1664	OAK	8
#1665	OAK	8
#1668	PINE	8
#1669	OAK	8
#1670	OAK	8
#1671	OAK	6
#1679	OAK	12
#1680	PINE	8
#1681	OAK	6
#1682	OAK	6
#1700	OAK	6
#1701	OAK	6
#1702	OAK	6
#1705	OAK	6
#1723	OAK	6
#1724	OAK	6
#1725	PINE	8
#1726	OAK	6
#1727	OAK	6
#1728	OAK	6
#1729	OAK	6
#1730	OAK	6
#1731	OAK	6
#1732	OAK	6
#1733	OAK	6
#1740	PINE	8
#1741	OAK	6
#1742	OAK	6
#1748	OAK	6
#1749	OAK	6
#1750	PINE	6
#1751	OAK	6
#1752	OAK	6
#1753	OAK	10
#1755	OAK	10
#1756	OAK	8
#1758	OAK	6
#1759	OAK	6

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#1760	OAK	6
#1499	PINE	12
#1500	PINE	10
#1501	PINE	8
#1502	PINE	6
#539	OAK	10
#540	OAK	8
#541	PINE	8
#542	PINE	12
#543	PINE	10
#544	PINE	10
#545	PINE	8
#546	PINE	6
#547	PINE	8
#548	PINE	6
#549	PINE	10
#550	OAK	6
#551	PINE	14
#552	PINE	14
#553	PINE	8
#554	OAK	6
#631	PINE	18
#632	OAK	10
#1903	PINE	8
#1904	OAK	8
#1905	PINE	10
#1896	OAK	6
#1897	OAK	8
#1985	OAK	10
#1986	OAK	10
#1987	OAK	8
#1918	PALM	12
#1919	OAK	10
#1920	OAK	10
#1921	PINE	8
#1922	OAK	6
#1923	OAK	6
#1924	OAK	6
#1925	OAK	6
#1926	OAK	8
#1927	OAK	6
#1928	OAK	8
#1929	OAK	10
#1930	OAK	8
#1931	OAK	8
#1932	OAK	6
#1933	OAK	8
#1934	OAK	8
#1935	OAK	8
#1936	OAK	6
#1937	OAK	8
#1938	OAK	6
#1939	OAK	6
#1940	OAK	6
#1941	OAK	6
#1942	OAK	6
#1943	OAK	6
#1948	OAK	10
#1949	OAK	6
#1950	OAK	6
#1951	OAK	6
#1951	OAK	6
#1952	OAK	8
#1953	OAK	8
#1954	OAK	8
#1955	OAK	8
#1956	OAK	6
#1957	OAK	6
#1958	OAK	6
#1959	OAK	6
#1970	OAK	8
#1967	PINE	6
#2150	PINE	10
#2151	PINE	12
#2105	PINE	12
#2113	OAK	6
#2114	OAK	8
#2115	OAK	6
#2116	OAK	8
#2117	OAK	6
#2118	OAK	10
#2119	OAK	12
#2120	OAK	6
#2121	OAK	6
#2122	OAK	10
#2133	OAK	6
#2134	OAK	6
#2135	OAK	6
#2136	OAK	6
#2137	OAK	6
#2138	OAK	6
#2139	OAK	10
#2140	OAK	6
#2141	OAK	6
#2142	OAK	4
#2143	OAK	6
#2144	OAK	6
#2145	OAK	6
#2146	OAK	6
#2147	PINE	10
#2148	OAK	6
#2149	PINE	12
#2153	PINE	8
#2154	OAK	6
#2155	OAK	6
#2159	OAK	6
#707	OAK	6
#733	OAK	6
#734	OAK	6
#735	OAK	6
#736	OAK	12
#737	OAK	6
#845	OAK	8
#847	OAK	10
#848	OAK	8
#849	OAK	6
#850	OAK	6
#851	OAK	8
#852	OAK	8
#853	OAK	10
#854	OAK	8
#855	OAK	8
#865	OAK	10
#866	OAK	8
#867	OAK	8
#868	OAK	8
#2165	OAK	10
#2166	OAK	12
#2172	OAK	6

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#2173	OAK	6
#2174	OAK	6
#2175	OAK	6
#2176	OAK	6
#2177	OAK	6
#2178	OAK	6
#2179	OAK	6
#2180	OAK	6
#2181	OAK	6
#2182	PINE	6
#2183	OAK	8
#2184	OAK	10
#2185	OAK	8
#2186	OAK	8
#890	OAK	10
#891	OAK	8
#892	OAK	6
#893	OAK	6
#894	PINE	8
#895	PALM	12
#887	OAK	10
#889	OAK	6
#880	OAK	12
#881	OAK	12
#882	OAK	10
#883	OAK	10
#884	OAK	12
#885	OAK	10
#886	OAK	12
#902	CHERRY	8
#903	OAK	10
#904	OAK	10
#905	OAK	8
#906	OAK	10
#907	OAK	4
#908	OAK	8
#913	OAK	8
#934	OAK	8
#935	OAK	12
#936	OAK	10
#937	OAK	6
#938	OAK	6
#939	OAK	8
#940	OAK	8
#941	OAK	6
#942	OAK	8
#949	OAK	6
#956	OAK	12
#957	OAK	6
#958	OAK	6
#959	OAK	6
#960	PINE	8
#961	OAK	6
#962	OAK	10
#963	OAK	10
#964	OAK	8
#965	OAK	10
#966	OAK	8
#967	OAK	10
#968	OAK	8
#1136	OAK	8
#1137	OAK	8
#1138	OAK	8
#1139	OAK	6
#1140	OAK	6
#1141	OAK	6
#1142	OAK	12
#1143	OAK	8
#1144	OAK	10
#1145	OAK	12
#1146	OAK	10
#1147	OAK	16
#1148	OAK	4
#2246	PINE	6
#2247	PINE	8
#2248	OAK	6
#1163	OAK	8
#1164	OAK	6
#1176	OAK	20
#1177	OAK	6
#1178	OAK	6
#1179	OAK	6
#1190	PINE	10
#1191	PINE	8
#1192	PINE	10
#1193	PINE	8
#1194	PINE	8
#1195	OAK	6
#1196	PINE	8
#1197	PINE	10
#1198	PINE	10
#1199	PINE	8
#1200	PINE	6
#2256	PINE	8
#2257	OAK	6
#2268	OAK	6
#2269	OAK	8
#2270	PINE	16
#2271	PINE	16
#2272	PINE	14
#2273	OAK	12
#2274	OAK	12
#2275	OAK	10
#2276	OAK	6
#2277	OAK	8
#2280	OAK	6
#2281	OAK	8
#1217	PINE	12
#1218	PINE	6
#1404	OAK	6
#1405	OAK	8
#1406	OAK	8
#1407	OAK	6
#1408	OAK	6
#1409	OAK	6
#1410	PINE	12
#1411	PINE	12
#1412	OAK	6
#1413	OAK	6
#1414	OAK	6
#1415	OAK	6
#1416	PINE	10
#1417	OAK	20
#1418	OAK	6
#2342	OAK	6
#2343	OAK	12
#1381	OAK	6
#1450	PINE	10
#1451	PINE	6

SAVE TREES TABLE		
ID	TYPE	DBH (IN)
#1452	OAK	6
#1453	PINE	6
#1454	PINE	6
#1455	PINE	8
#1456	PINE	8
#1457	PINE	8
#1458	OAK	6
#1459	PINE	10
#1460	OAK	8
#1461	OAK	6
#1462	OAK	8
#1463	OAK	6
#1464	PINE	12
#1473	OAK	6
#1474	OAK	6
#1475	OAK	6
#1476	OAK	6
#1477	OAK	8
#1485	OAK	6
#1486	OAK	8
#1487	PINE	10
#1488	PINE	10
#1489	PINE	10
#1490	OAK	6
#1525	OAK	8
#1526



GRAPHIC SCALE

80 0 80 160 320

(IN FEET)
1 inch = 80 ft.

SITE LEGEND AND DETAILS

- PROJECT BOUNDARY LINE
- PROPERTY LINE
- BUILDING SETBACK LINE
- EOP
- SILT FENCE
- SD1 4FT CONCRETE SIDEWALK
- SD2 ACCESSIBLE STRIPING
- SD5 PAVERS SIDEWALK DETAIL
- SD8 STOP SIGN
- SD9 WHEELCHAIR RAMP IN SIDEWALK AT CURB RETURN
- SD10 PARKING PAINT STRIPPING
- SD11 TYPICAL PAVEMENT SECTION
- SD12 PRECAST CONCRETE WHEEL STOP
- SD15 ACCESSIBLE PARKING SIGN
- SD16 RIBBON CURB
- SD18 STOP BAR
- SD34 CONNECTION TO EXISTING PAVEMENT
- SD39 HEADER CURB

SITE NOTES

- S01 BUILDING – SEE ARCHITECTURAL PLANS (TBD BY OTHERS)

DEVELOPMENT DATA

TOTAL PROPERTY AREA = 729,198 SF = 16.74 ACRES
TOTAL DEVELOPMENT AREA =9.9 ACRES
TOTAL PROPOSED ASPHALT DRIVE = 52,465 SF = 1.20 ACRES
TOTAL PROPOSED CONCRETE SIDEWALK = 10,585 SF = 0.24 ACRES
TOTAL PROPOSED POND = 37,354 SF = 0.86 ACRES
TOTAL PROPOSED IMPERVIOUS AREA = 63,050 SF = 1.45 ACRES

ISR–IMPERVIOUS COVERAGE (MAX/PROPOSED) = 70%/8.66%
PROPOSED 23 0.5 ACRE RESIDENTIAL LOTS
PROPOSED BUILDING SETBACK: F25/S5/R5

GENERAL NOTES

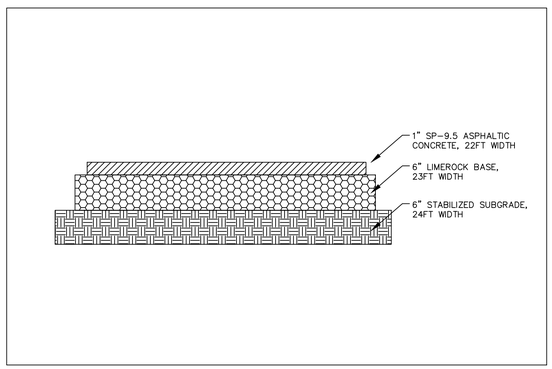
1. ALL DIMENSIONS ARE LISTED TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB. SIDEWALK IS 4FT WIDE UNLESS OTHERWISE NOTED.
2. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
3. MECHANICAL, DUMPSTER/SOLID WASTE SCREENINGS STANDARDS SHALL BE IN ACCORDANCE WITH CHAPTER 3 OF THE CITRUS COUNTY LDC
4. PROPOSED SIGNS TO BE DESIGNED AND PERMIT IN COMPLIANCE WITH CHAPTER 9 OF THE CITRUS COUNTY LDC.
5. NO LIGHTNING IS PROPOSED AT THIS POINT. ANY FUTURE PROPOSED LIGHTNING WILL BE DESIGNED AND SUBMIT IN ACCORDANCE TO LIGHTNING STANDARD OF PART 9240

GENERAL PROJECT INFORMATION

PARCEL ID#: 18E19S07–42000
OWNER: FREEDOM CAPITAL ALLIANCE, LLC
TOTAL AREA:16.74 ACRES
CURRENT ZONING: LDR MH/LOW DENSITY RES–MH ALLOWED
BUILDING SETBACK: F 25', S 5', R 5'

NOTE:

* ALL MECHANICAL EQUIPMENT SCREENING WILL MEET THE REQUIREMENTS OF LDC SEC. 6.06.04.B.9.
* ALL DUMPSTER ENCLOSURE SCREENING WILL MEET THE REQUIREMENTS OF LDC. SEC. 6.06.04.B.8
* PROJECT LIGHTING WILL MEET THE REQUIREMENTS OF LDC SEC. 5.03.06.H.6 AND 6.09.00.
* PARKING FOR BICYCLES WILL MEET THE REQUIREMENTS OF LDC SEC. 6.05.02.M.
* SIGNS WILL MEET THE REQUIREMENTS OF ORD 79–73 WHICH STATES ONSITE SIGNS ARE LIMITED TO ONE SIGN NOT TO EXCEED 32 SQUARE FEET ADA.



TYPICAL PAVEMENT SECTION SD11

N.T.S

LOTS CONTROL POINT TABLE		
	NORTHING	EASTING
L1	1642756.3606'	165913.9953'
L2	1642757.3413'	166064.9697'
L3	1642611.8341'	166067.0876'
L4	1642613.2247'	166217.0832'
L5	1642758.3156'	166214.9714'
L6	1642759.2900'	166364.9731'
L7	1642614.6153'	166367.0789'
L8	1642616.0060'	166517.0756'
L9	1642760.2643'	166514.9748'
L10	1642761.2431'	166665.6475'
L11	1642640.2483'	166666.8442'
L12	1642617.3966'	166667.0702'
L13	1642762.4071'	166844.8500'
L14	1642641.4149'	166846.4400'
L15	1642520.4226'	166848.0301'
L16	1642519.2556'	166668.3599'
L17	1642399.2633'	166669.9368'
L18	1642400.4303'	166849.6069'
L19	1642279.4381'	166851.1970'
L20	1642278.2710'	166671.5268'
L21	1642157.2788'	166673.1168'
L22	1642158.4459'	166852.7870'
L23	1642037.4537'	166854.3770'
L24	1642036.2866'	166674.7068'
L25	1641915.2944'	166676.2969'
L26	1641916.4614'	166855.9670'
L27	1641796.6355'	166857.5417'
L28	1641794.3021'	166677.8869'
L29	1641630.6213'	166679.4757'
L30	1641472.5624'	166682.1150'
L31	1641473.8741'	166820.1124'
L32	1641632.2161'	166817.4683'
L33	1641633.7438'	166955.4620'
L34	1641475.1859'	166958.1097'
L35	1641636.5558'	167099.5603'
L36	1641796.0297'	167097.7887'
L37	1641794.8590'	166917.5703'
L38	1641915.8513'	166915.9802'
L39	1641917.0233'	167096.4112'
L40	1642038.0168'	167095.0272'
L41	1642036.8435'	166914.3902'
L42	1642157.8357'	166912.8002'
L43	1642159.0104'	167093.6432'
L44	1642280.0040'	167092.2601'
L45	1642278.8279'	166911.2102'
L46	1642399.8202'	166909.6201'
L47	1642400.9976'	167090.8819'
L48	1642521.9943'	167089.9841'
L49	1642520.8124'	166908.0301'
L50	1642641.8046'	166906.4401'
L51	1642642.9893'	167088.8152'
L52	1642763.9828'	167087.4338'
L53	1642762.7968'	166904.8501'

POND CONTROL POINT TABLE		
	NORTHING	EASTING
P1	1642745.7975'	165927.4948'
P2	1642747.2465'	166055.0852'
P3	1642621.8006'	166056.8782'
P4	1642620.3261'	165956.5551'
P5	1642506.4544'	166681.4150'
P6	1642507.4682'	166835.3276'
P7	1642413.2837'	166836.5516'
P8	1642412.2167'	166682.6397'
P9	1641621.2951'	166968.5488'
P10	1641623.4605'	167089.8096'
P11	1641489.2689'	167087.6437'
P12	1641488.1779'	166970.7656'

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794–1760
FAX (904)794–1768
quoc@maiengineer.com
MAI ENGINEERING SERVICES, INC.
LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

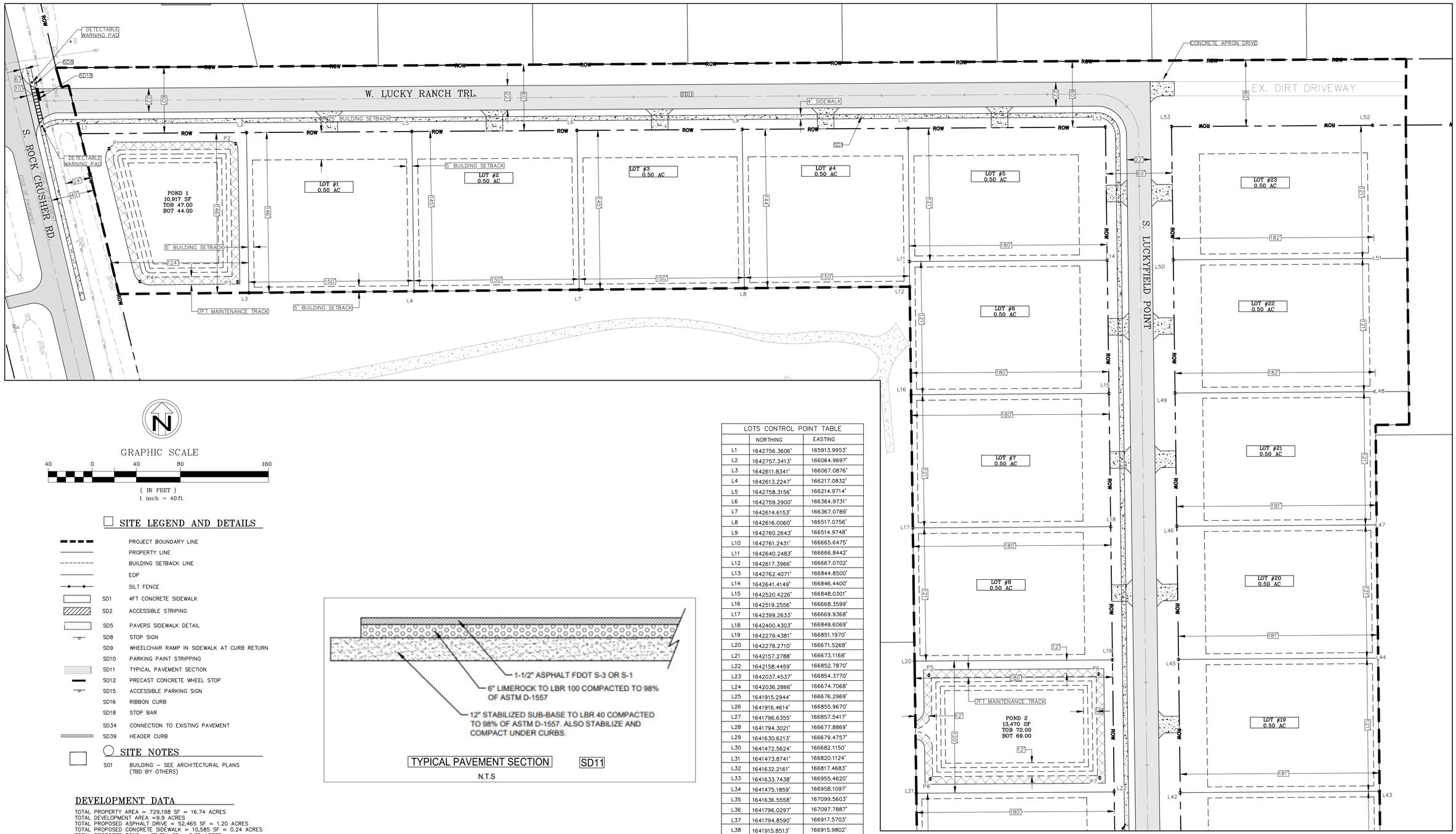
	DESCRIPTION
1	
2	
3	
4	
5	

SHEET TITLE: OVERALL SITE PLAN

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	5



GRAPHIC SCALE

40 0 40 80 160

(IN FEET)
1 inch = 40 ft.

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- PROJECT BOUNDARY LINE
- PROPERTY LINE
- BUILDING SETBACK LINE
- EOP
- SILT FENCE
- SD1 4FT CONCRETE SIDEWALK
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4. PROPOSED SIGNS TO BE DESIGNED AND PERMIT IN COMPLIANCE WITH CHAPTER 9 OF THE CITRUS COUNTY LDC.
5. NO LIGHTNING IS PROPOSED AT THIS POINT. ANY FUTURE PROPOSED LIGHTNING WILL BE DESIGNED AND SUBMIT IN ACCORDANCE TO LIGHTNING STANDARD OF PART 9240

GENERAL PROJECT INFORMATION

PARCEL ID#: 18E19S07-42000
OWNER: FREEDOM CAPITAL ALLIANCE, LLC
TOTAL AREA:16.74 ACRES
CURRENT ZONING: LDR MH/LOW DENSITY RES-MH ALLOWED
BUILDING SETBACK: F 25', S 5', R 5'

TYPICAL PAVEMENT SECTION SD11

N.T.S

NOTE:

* ALL MECHANICAL EQUIPMENT SCREENING WILL MEET THE REQUIREMENTS OF LDC SEC. 6.06.04.B.9.
* ALL DUMPSTER ENCLOSURE SCREENING WILL MEET THE REQUIREMENTS OF LDC. SEC. 6.06.04.B.8
* PROJECT LIGHTING WILL MEET THE REQUIREMENTS OF LDC SEC. 5.03.06.H.6 AND 6.09.00.
* PARKING FOR BICYCLES WILL MEET THE REQUIREMENTS OF LDC SEC. 6.05.02.M.
* SIGNS WILL MEET THE REQUIREMENTS OF ORD 79-73 WHICH STATES ONSITE SIGNS ARE LIMITED TO ONE SIGN NOT TO EXCEED 32 SQUARE FEET ADA.

LOTS CONTROL POINT TABLE		
	NORTHING	EASTING
L1	1642756.3606'	165913.9953'
L2	1642757.3413'	166064.9697'
L3	1642611.8341'	166067.0876'
L4	1642613.2247'	166217.0832'
L5	1642758.3156'	166214.9714'
L6	1642759.2900'	166364.9731'
L7	1642614.6153'	166367.0789'
L8	1642616.0060'	166517.0756'
L9	1642760.2643'	166514.9748'
L10	1642761.2431'	166665.6475'
L11	1642640.2483'	166666.8442'
L12	1642617.3966'	166667.0702'
L13	1642762.4071'	166844.8500'
L14	1642641.4149'	166846.4400'
L15	1642520.4226'	166848.0301'
L16	1642519.2556'	166668.3599'
L17	1642399.2633'	166669.9368'
L18	1642400.4303'	166849.6069'
L19	1642279.4381'	166851.1970'
L20	1642278.2710'	166671.5268'
L21	1642157.2788'	166673.1168'
L22	1642158.4459'	166852.7870'
L23	1642037.4537'	166854.3770'
L24	1642036.2866'	166674.7068'
L25	1641915.2944'	166676.2969'
L26	1641916.4614'	166855.9670'
L27	1641796.6355'	166857.5417'
L28	1641794.3021'	166677.8869'
L29	1641630.6213'	166679.4757'
L30	1641472.5624'	166682.1150'
L31	1641473.8741'	166820.1124'
L32	1641632.2161'	166817.4683'
L33	1641633.7438'	166955.4620'
L34	1641475.1859'	166958.1097'
L35	1641636.5558'	167099.5603'
L36	1641796.0297'	167097.7887'
L37	1641794.8590'	166917.5703'
L38	1641915.8513'	166915.9802'
L39	1641917.0233'	167096.4112'
L40	1642038.0168'	167095.0272'
L41	1642036.8435'	166914.3902'
L42	1642157.8357'	166912.8002'
L43	1642159.0104'	167093.6432'
L44	1642280.0040'	167092.2601'
L45	1642278.8279'	166911.2102'
L46	1642399.8202'	166909.6201'
L47	1642400.9976'	167090.8819'
L48	1642521.9943'	167089.9841'
L49	1642520.8124'	166908.0301'
L50	1642641.8046'	166906.4401'
L51	1642642.9893'	167088.8152'
L52	1642763.9828'	167087.4338'
L53	1642762.7968'	166904.8501'

POND CONTROL POINT TABLE		
	NORTHING	EASTING
P1	1642745.7975'	165927.4948'
P2	1642747.2465'	166055.0852'
P3	1642621.8006'	166056.8782'
P4	1642620.3261'	165956.5551'
P5	1642506.4544'	166681.4150'
P6	1642507.4682'	166835.3276'
P7	1642413.2837'	166836.5516'
P8	1642412.2167'	166682.6397'
P9	1641621.2951'	166968.5488'
P10	1641623.4605'	167089.8096'
P11	1641489.2689'	167087.6437'
P12	1641488.1779'	166970.7656'

2510 US 1 SOUTH SUITE D
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quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

1	2	3	4	5

SITE PLAN

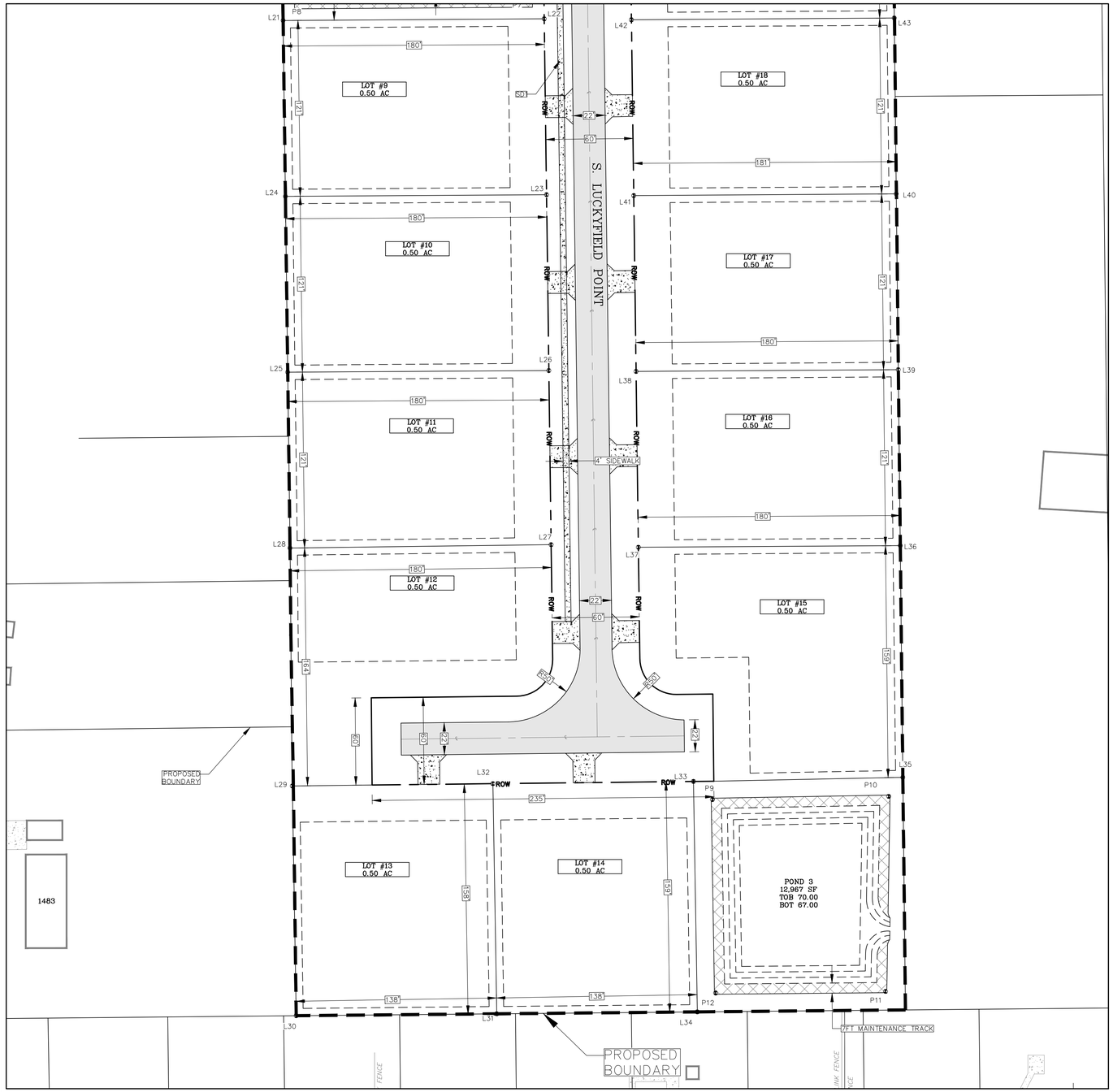
LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

SHEET TITLE

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	5.1



GRAPHIC SCALE

40 0 40 80 160

(IN FEET)
1 inch = 40 ft.

SITE LEGEND AND DETAILS

		PROJECT BOUNDARY LINE
		PROPERTY LINE
		BUILDING SETBACK LINE
		EOP
		SILT FENCE
	SD1	4FT CONCRETE SIDEWALK
	SD2	ACCESSIBLE STRIPING
	SD5	PAVERS SIDEWALK DETAIL
	SD8	STOP SIGN
	SD9	WHEELCHAIR RAMP IN SIDEWALK AT CURB RETURN
	SD10	PARKING PAINT STRIPPING
	SD11	TYPICAL PAVEMENT SECTION
	SD12	PRECAST CONCRETE WHEEL STOP
	SD15	ACCESSIBLE PARKING SIGN
	SD16	RIBBON CURB
	SD18	STOP BAR
	SD34	CONNECTION TO EXISTING PAVEMENT
	SD39	HEADER CURB

SITE NOTES

S01 BUILDING – SEE ARCHITECTURAL PLANS (TBD BY OTHERS)

DEVELOPMENT DATA

TOTAL PROPERTY AREA = 729,198 SF = 16.74 ACRES
TOTAL DEVELOPMENT AREA =9.9 ACRES
TOTAL PROPOSED ASPHALT DRIVE = 52,465 SF = 1.20 ACRES
TOTAL PROPOSED CONCRETE SIDEWALK = 10,585 SF = 0.24 ACRES
TOTAL PROPOSED POND = 37,354 SF = 0.86 ACRES
TOTAL PROPOSED IMPERVIOUS AREA = 63,050 SF = 1.45 ACRES

ISR–IMPERVIOUS COVERAGE (MAX/PROPOSED) = 70%/8.66%
PROPOSED 23 0.5 ACRE RESIDENTIAL LOTS
PROPOSED BUILDING SETBACK: F25/S5/R5

GENERAL NOTES

1. ALL DIMENSIONS ARE LISTED TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB. SIDEWALK IS 4FT WIDE UNLESS OTHERWISE NOTED.
2. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
3. MECHANICAL, DUMPSTER/SOLID WASTE SCREENINGS STANDARDS SHALL BE IN ACCORDANCE WITH CHAPTER 3 OF THE CITRUS COUNTY LDC
4. PROPOSED SIGNS TO BE DESIGNED AND PERMIT IN COMPLIANCE WITH CHAPTER 9 OF THE CITRUS COUNTY LDC.
5. NO LIGHTNING IS PROPOSED AT THIS POINT. ANY FUTURE PROPOSED LIGHTNING WILL BE DESIGNED AND SUBMIT IN ACCORDANCE TO LIGHTNING STANDARD OF PART 9240

GENERAL PROJECT INFORMATION

PARCEL ID#: 18E19S07–42000
OWNER: FREEDOM CAPITAL ALLIANCE, LLC
TOTAL AREA:16.74 ACRES
CURRENT ZONING: LDR MH/LOW DENSITY RES–MH ALLOWED
BUILDING SETBACK: F 25', S 5', R 5'

NOTE:

* ALL MECHANICAL EQUIPMENT SCREENING WILL MEET THE REQUIREMENTS OF LDC SEC. 6.06.04.B.9.
* ALL DUMPSTER ENCLOSURE SCREENING WILL MEET THE REQUIREMENTS OF LDC. SEC. 6.06.04.B.8
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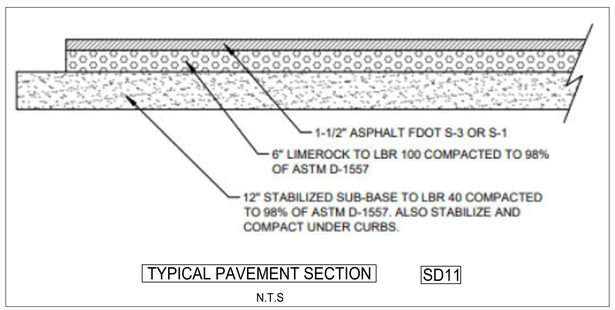

TYPICAL PAVEMENT SECTION SD11

N.T.S

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
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quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

	1	2	3	4	5
REVISION					

SHEET TITLE: SITE PLAN

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	5.2

PRE-DRAINAGE BASIN SUMMARY

BASIN ID	AREA (SF)	AREA (AC)	IMPERVIOUS AREA (AC)	CN (AC)	TC (MIN)
01	139,526	3.203	0	39	10
02	158,871	3.647	0	39	3.38
03	126,478	2.904	0	39	7.42
	TOTAL:	9.754			

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LICENSED ENGINEER
QUOC H. MAI
FL #64006 CA#28162

REVISIONS

	DESCRIPTION
1	
2	
3	
4	
5	

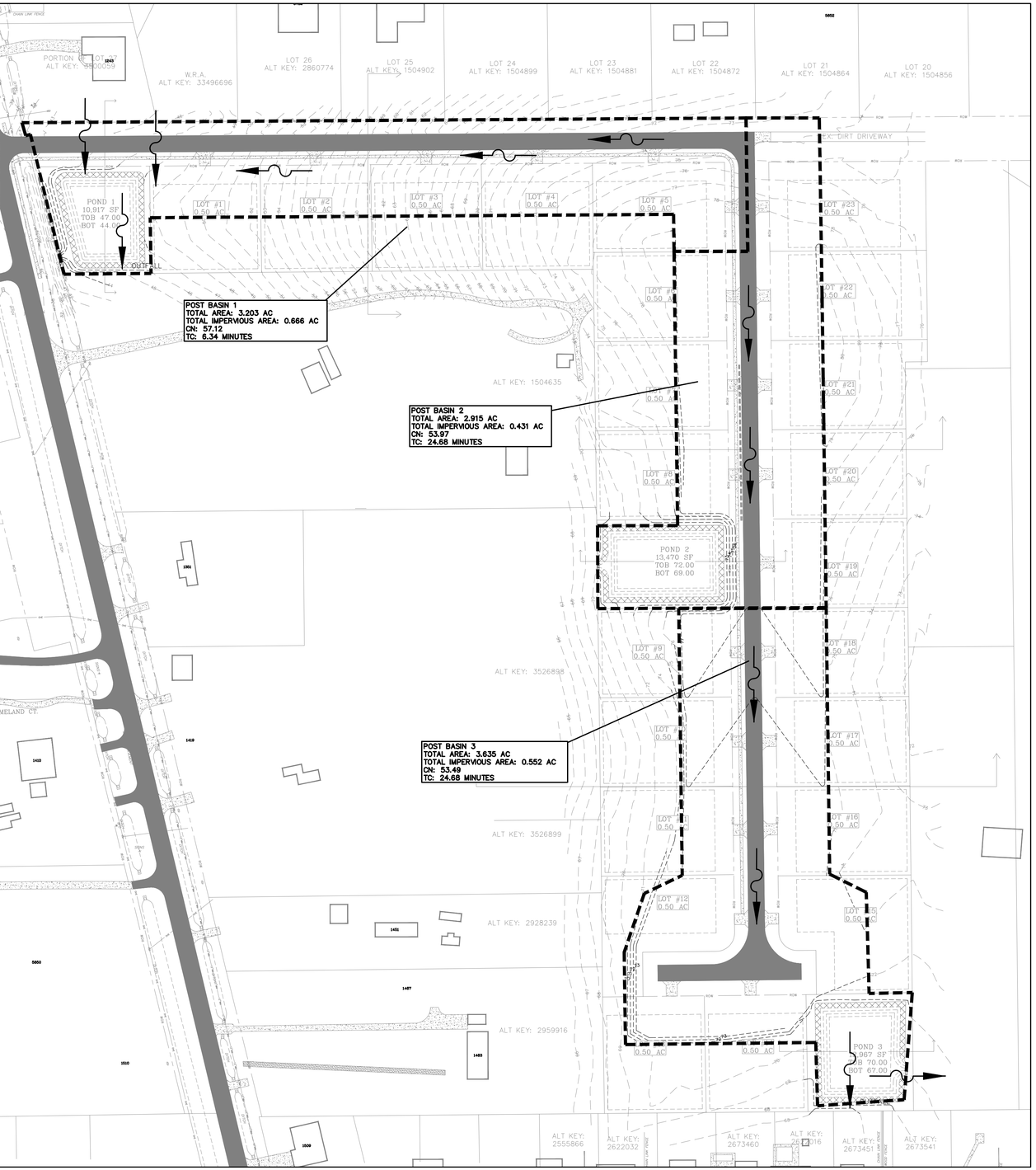
SHEET TITLE: PRE-DEVELOPMENT DRAINAGE MAP

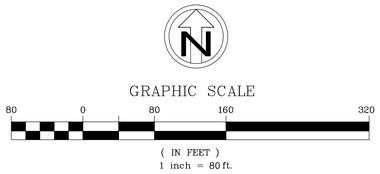
LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	6A





POST-DRAINAGE BASIN SUMMARY

BASIN ID	AREA (AC)	IMPERVIOUS AREA (AC)	CN (AC)	TC (MIN)
01	3.203	0.666	57.12	6.34
02	2.915	0.431	53.97	24.68
03	3.635	0.552	53.49	24.68
TOTAL:	9.754			

POST-POND 1 STAGE-AREA TABLE

STAGE	AREA (SF)	AREA (AC)
47.00	15,298	0.351
46.00	13,401	0.308
45.00	11,606	0.266
44.00	9,933	0.228
43.00	8,389	0.193

POST-POND 2 STAGE-AREA TABLE

STAGE	AREA (SF)	AREA (AC)
72.00	14,937	0.343
71.00	12,995	0.298
70.00	11,174	0.257
69.00	9,480	0.218
68.00	7,915	0.182

POST-POND 3 STAGE-AREA TABLE

STAGE	AREA (SF)	AREA (AC)
70.00	16,354	0.375
69.00	14,375	0.330
68.00	12,517	0.287
67.00	10,787	0.248
66.00	9,185	0.211

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LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA.#28162

REVISIONS

NO.	DESCRIPTION
1	
2	
3	
4	
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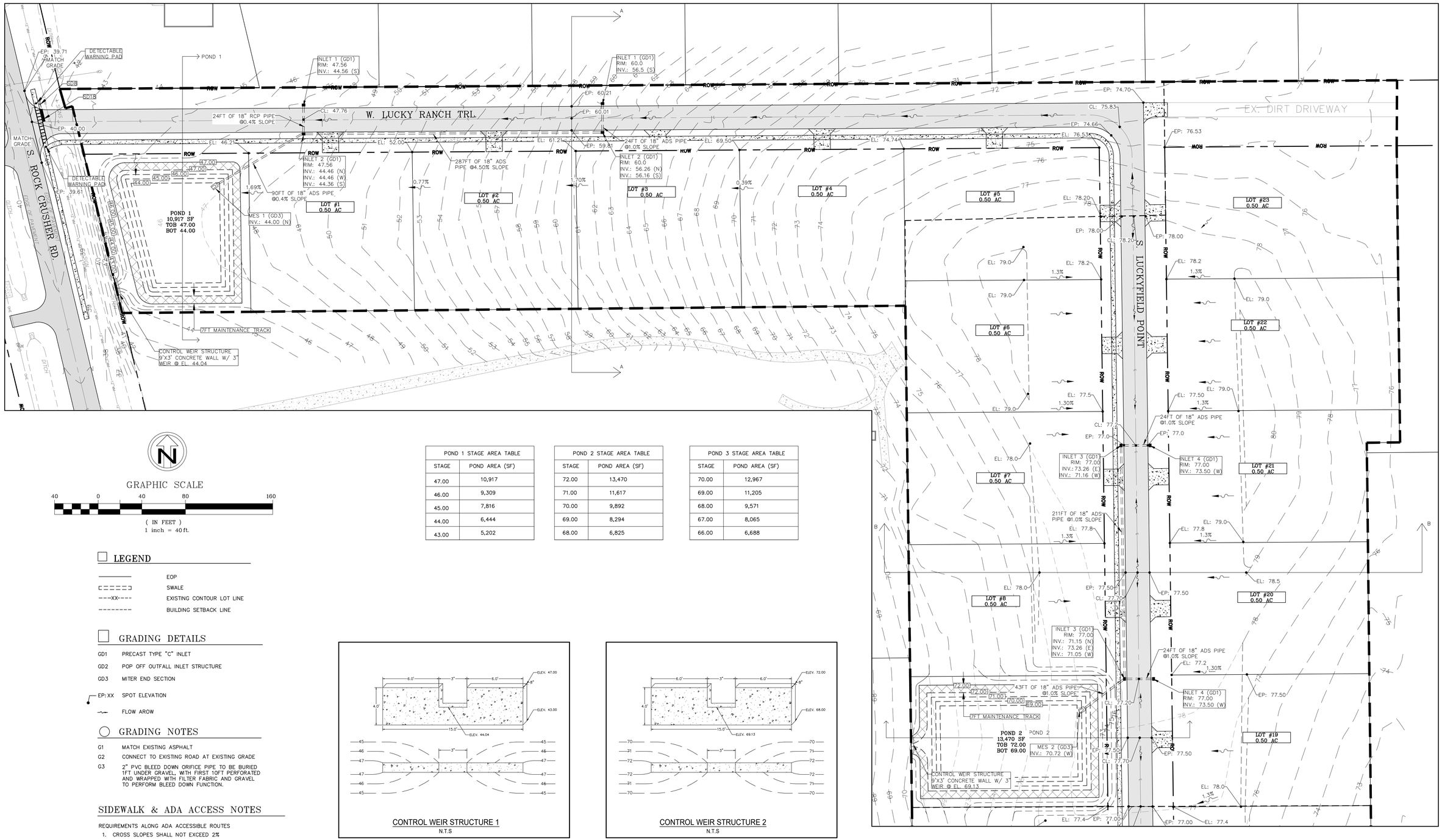
SHEET TITLE: POST DEVELOPMENT DRAINAGE MAP

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	6B



GRAPHIC SCALE

40 0 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

- EOP
- SWALE
- EXISTING CONTOUR LOT LINE
- BUILDING SETBACK LINE

GRADING DETAILS

- GD1 PRECAST TYPE "C" INLET
- GD2 POP OFF OUTFALL INLET STRUCTURE
- GD3 MITER END SECTION
- EP: XX SPOT ELEVATION
- FLOW AROW

GRADING NOTES

- G1 MATCH EXISTING ASPHALT
- G2 CONNECT TO EXISTING ROAD AT EXISTING GRADE
- G3 2" PVC BLEED DOWN ORIFICE PIPE TO BE BURIED 1FT UNDER GRAVEL, WITH FIRST 10FT PERFORATED AND WRAPPED WITH FILTER FABRIC AND GRAVEL TO PERFORM BLEED DOWN FUNCTION.

SIDEWALK & ADA ACCESS NOTES

REQUIREMENTS ALONG ADA ACCESSIBLE ROUTES

1. CROSS SLOPES SHALL NOT EXCEED 2%
2. RUNNING SLOPES SHALL NOT EXCEED 5%
3. SLOPES BETWEEN 5% & 8.33% SHALL MEET THE RAMP REQUIREMENTS OF ADA.
4. ACCESSIBLE PARKING AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.
5. INTERSECTING SIDEWALKS SHALL NOT EXCEED 2% IN ANY DIRECTION.
6. ANY SLOPE GREATER THAN 8.33% SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

POND 1 STAGE AREA TABLE	
STAGE	POND AREA (SF)
47.00	10,917
46.00	9,309
45.00	7,816
44.00	6,444
43.00	5,202

POND 2 STAGE AREA TABLE	
STAGE	POND AREA (SF)
72.00	13,470
71.00	11,617
70.00	9,892
69.00	8,294
68.00	6,825

POND 3 STAGE AREA TABLE	
STAGE	POND AREA (SF)
70.00	12,967
69.00	11,205
68.00	9,571
67.00	8,065
66.00	6,688

CONTROL WEIR STRUCTURE 1
N.T.S

CONTROL WEIR STRUCTURE 2
N.T.S

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REVISIONS

#	DESCRIPTION
1	
2	
3	
4	
5	

GRADING PLAN

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

SHEET TITLE

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
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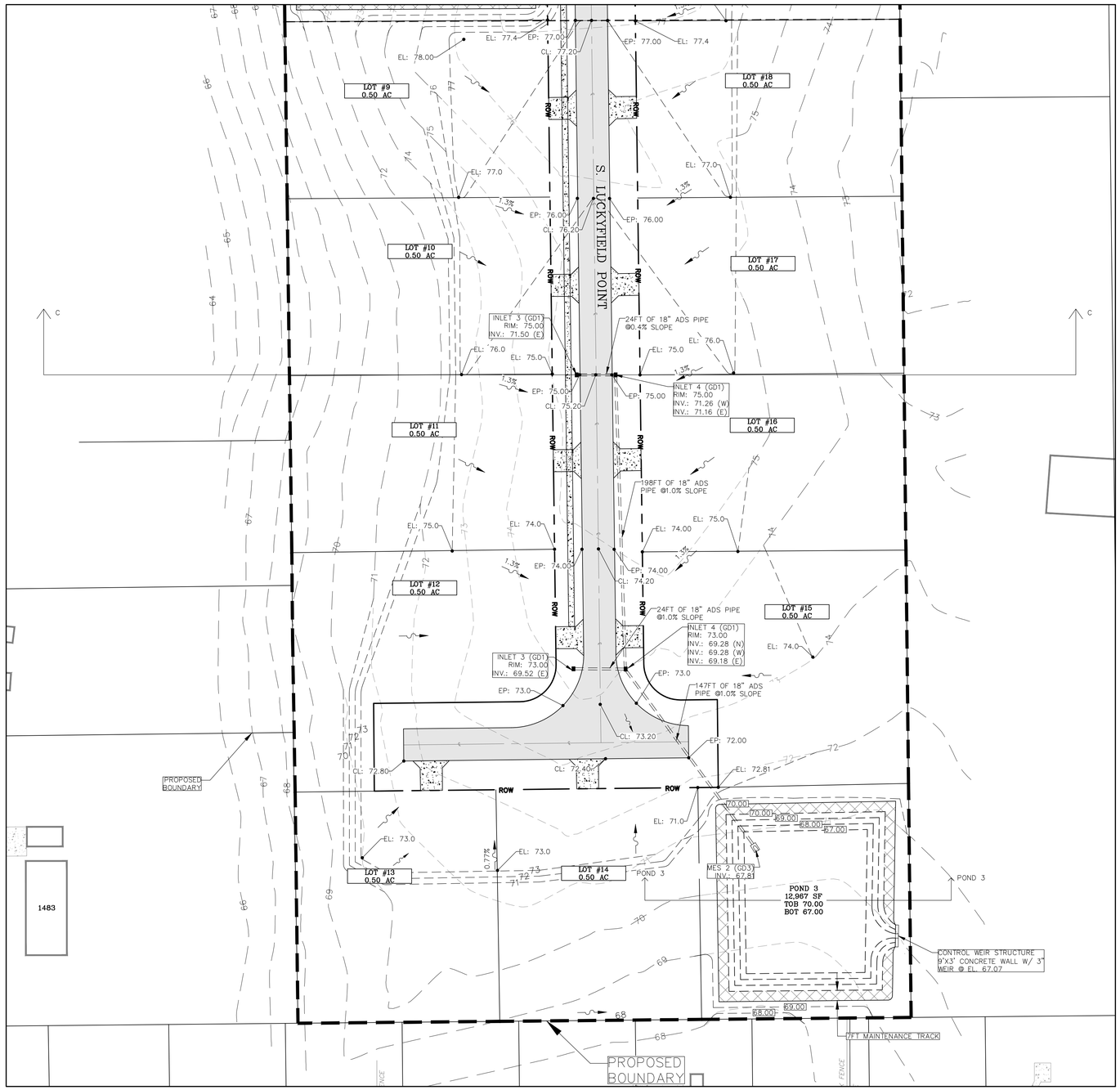

GRAPHIC SCALE

40 0 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

———	EOP
⊏=====⊐	SWALE
---XX---	EXISTING CONTOUR LOT LINE
--------	BUILDING SETBACK LINE

GRADING DETAILS

GD1	PRECAST TYPE "C" INLET
GD2	POP OFF OUTFALL INLET STRUCTURE
GD3	MITER END SECTION
EP:XX	SPOT ELEVATION
	FLOW AROW

GRADING NOTES

G1	MATCH EXISTING ASPHALT
G2	CONNECT TO EXISTING ROAD AT EXISTING GRADE
G3	2" PVC BLEED DOWN ORIFICE PIPE TO BE BURIED 1FT UNDER GRAVEL, WITH FIRST 10FT PERFORATED AND WRAPPED WITH FILTER FABRIC AND GRAVEL TO PERFORM BLEED DOWN FUNCTION.

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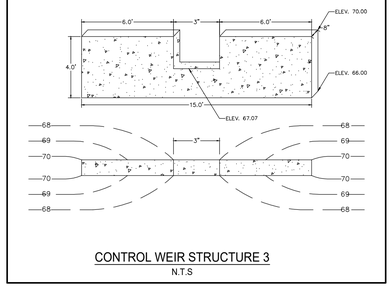

CONTROL WEIR STRUCTURE 3
N.T.S

POND 1 STAGE AREA TABLE	
STAGE	POND AREA (SF)
47.00	10,917
46.00	9,309
45.00	7,816
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REVISIONS

	DESCRIPTION
1	
2	
3	
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5	

SHEET TITLE: GRADING PLAN

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	6.2

CROSS SECTION A–A
HORIZONTAL SCALE – 1"=30'
VERTICAL SCALE – 1"=30'

CROSS SECTION B–B
HORIZONTAL SCALE – 1"=30'
VERTICAL SCALE – 1"=30'

CROSS SECTION C–C
HORIZONTAL SCALE – 1"=30'
VERTICAL SCALE – 1"=30'

CROSS SECTION POND 1
HORIZONTAL SCALE – 1"=30'
VERTICAL SCALE – 1"=30'

CROSS SECTION POND 2
HORIZONTAL SCALE – 1"=30'
VERTICAL SCALE – 1"=30'

CROSS SECTION POND 3
HORIZONTAL SCALE – 1"=30'
VERTICAL SCALE – 1"=30'

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MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

#	REVISION
1	
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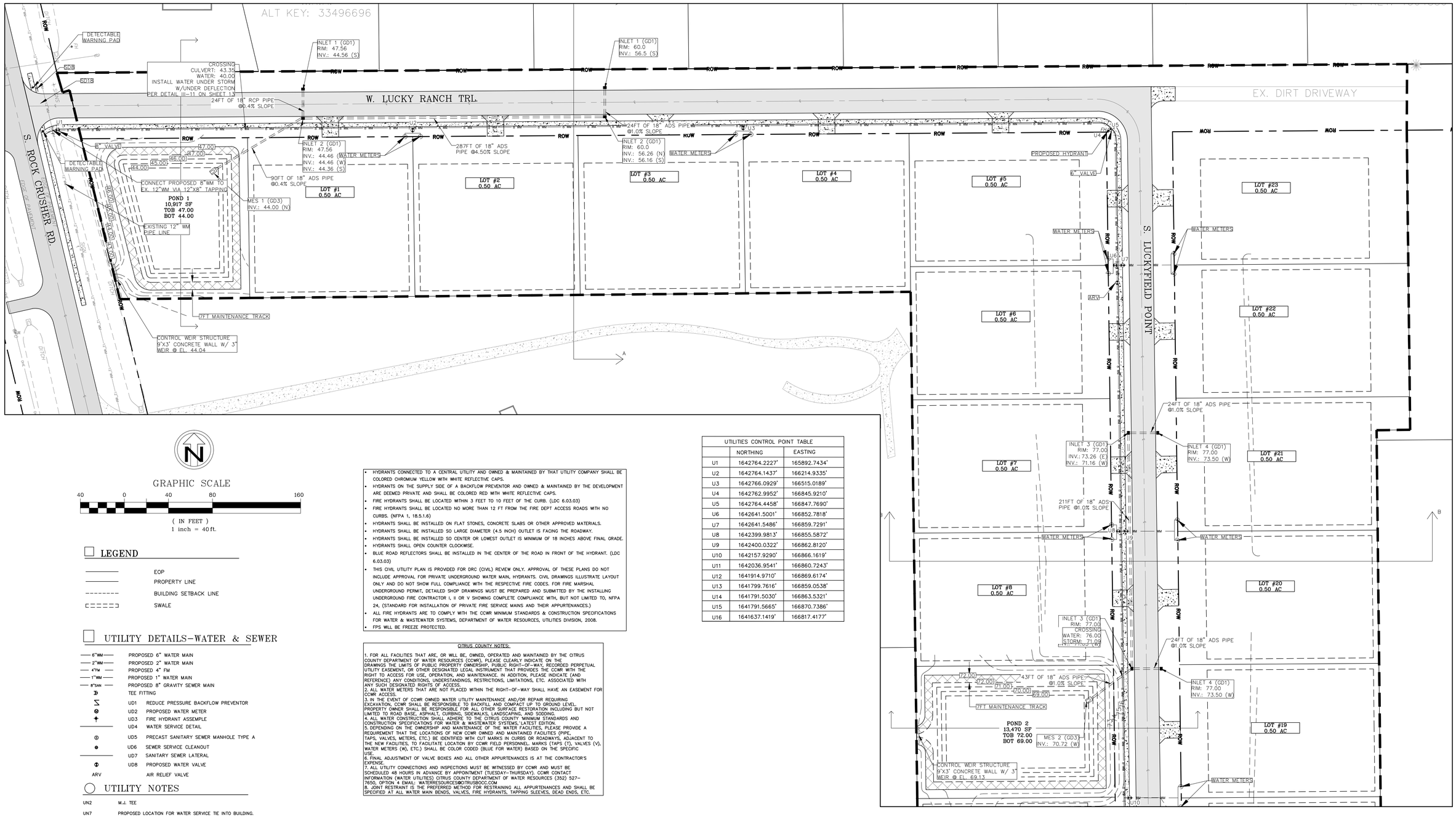
SHEET TITLE: CROSS SECTIONS

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	7



GRAPHIC SCALE

40 0 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

- EOP
- PROPERTY LINE
- BUILDING SETBACK LINE
- SWALE

UTILITY DETAILS–WATER & SEWER

6"WM		PROPOSED 6" WATER MAIN
2"WM		PROPOSED 2" WATER MAIN
4"FM		PROPOSED 4" FM
1"WM		PROPOSED 1" WATER MAIN
8"SAN		PROPOSED 8" GRAVITY SEWER MAIN
		TEE FITTING
	UD1	REDUCE PRESSURE BACKFLOW PREVENTOR
	UD2	PROPOSED WATER METER
	UD3	FIRE HYDRANT ASSEMPLE
	UD4	WATER SERVICE DETAIL
	UD5	PRECAST SANITARY SEWER MANHOLE TYPE A
	UD6	SEWER SERVICE CLEANOUT
	UD7	SANITARY SEWER LATERAL
	UD8	PROPOSED WATER VALVE
ARV		AIR RELIEF VALVE

UTILITY NOTES

UN2 M.J. TEE

UN7 PROPOSED LOCATION FOR WATER SERVICE TIE INTO BUILDING.

UN8 PROPOSED LOCATION FOR SANITARY SERVICE LATERAL TO TIE INTO BUILDING.

GENERAL NOTE:

UTILIZE SMART IRRIGATION CONTROLLERS WITH SOIL MOISTURE METER SENSORS (SOIL MOISTURE SYSTEMS). TO DETERMINE OPTIMUM MOISTURE LEVELS, SHUT DOWN IRRIGATION, PREVENTING WATER WASTE. THE SOIL MOISTURE SYSTEM SHALL OPERATE AS A PERMISSIVE AND NOT AS A CALL–TO–RUN. IT SHALL BE THE HOMEBUILDER'S RESPONSIBILITY TO INSTALL, TEST, AND CERTIFY THE SOIL MOISTURE SYSTEM FOR PROPER INSTALLATION AND OPERATION PRIOR TO OCCUPANCY. SOIL MOISTURE SYSTEMS ARE TO BE SPECIFIED IN THE CONSERVATION PLAN SUBMITTAL FOR CCWR APPROVAL. THE HOMEBUILDER SHALL BE RESPONSIBLE FOR CCWR INSPECTION PRIOR TO OCCUPANCY."

IN THE EVENT THAT ANY OF THE PROPOSED UNITS WITHIN THE PROJECT, ARE LATER DETERMINED TO BE OCCUPIED BY A FOOD SERVICE PROVIDER, THEN CCWR PRE–TREATMENT REQUIREMENTS WILL BE REQUIRED. SUBMITTAL OF ARCHITECTURAL FLOOR PLANS, PLUMBING PLANS, GREASE TRAP DETAILS, GREASE TRAP DESIGN CALCULATIONS AND THE APPROVED SEATING CAPACITY WILL BE REQUIRED. ALSO, AN ADJUSTMENT IN THE UNIT CONNECTION FEE COST WILL BE REQUIRED AND MUST BE PAID PRIOR TO OCCUPANCY OF THE UNIT. (MANUAL OF WATER, WASTEWATER AND REUSE DESIGN STANDARDS & SPECIFICATIONS, SECTION 4.2.2; CITRUS COUNTY PRETREATMENT REQUIREMENT).

- HYDRANTS CONNECTED TO A CENTRAL UTILITY AND OWNED & MAINTAINED BY THAT UTILITY COMPANY SHALL BE COLORED CHROMIUM YELLOW WITH WHITE REFLECTIVE CAPS.
- HYDRANTS ON THE SUPPLY SIDE OF A BACKFLOW PREVENTOR AND OWNED & MAINTAINED BY THE DEVELOPMENT ARE DEEMED PRIVATE AND SHALL BE COLORED RED WITH WHITE REFLECTIVE CAPS.
- FIRE HYDRANTS SHALL BE LOCATED WITHIN 3 FEET TO 10 FEET OF THE CURB. (LDC 6.03.03)
- FIRE HYDRANTS SHALL BE LOCATED NO MORE THAN 12 FT FROM THE FIRE DEPT ACCESS ROADS WITH NO CURBS. (NFPA 1, 18.5.1.6)
- HYDRANTS SHALL BE INSTALLED ON FLAT STONES, CONCRETE SLABS OR OTHER APPROVED MATERIALS.
- HYDRANTS SHALL BE INSTALLED SO LARGE DIAMETER (4.5 INCH) OUTLET IS FACING THE ROADWAY.
- HYDRANTS SHALL BE INSTALLED SO CENTER OR LOWEST OUTLET IS MINIMUM OF 18 INCHES ABOVE FINAL GRADE.
- HYDRANTS SHALL OPEN COUNTER CLOCKWISE.
- BLUE ROAD REFLECTORS SHALL BE INSTALLED IN THE CENTER OF THE ROAD IN FRONT OF THE HYDRANT. (LDC 6.03.03)
- THIS CIVIL UTILITY PLAN IS PROVIDED FOR DRC (CIVIL) REVIEW ONLY. APPROVAL OF THESE PLANS DO NOT INCLUDE APPROVAL FOR PRIVATE UNDERGROUND WATER MAIN, HYDRANTS. CIVIL DRAWINGS ILLUSTRATE LAYOUT ONLY AND DO NOT SHOW FULL COMPLIANCE WITH THE RESPECTIVE FIRE CODES. FOR FIRE MARSHAL UNDERGROUND PERMIT, DETAILED SHOP DRAWINGS MUST BE PREPARED AND SUBMITTED BY THE INSTALLING UNDERGROUND FIRE CONTRACTOR I, II OR V SHOWING COMPLETE COMPLIANCE WITH, BUT NOT LIMITED TO, NFPA 24, (STANDARD FOR INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.)
- ALL FIRE HYDRANTS ARE TO COMPLY WITH THE CCWR MINIMUM STANDARDS & CONSTRUCTION SPECIFICATIONS FOR WATER & WASTEWATER SYSTEMS, DEPARTMENT OF WATER RESOURCES, UTILITIES DIVISION, 2008.
- FPS WILL BE FREEZE PROTECTED.

CITRUS COUNTY NOTES:

1. FOR ALL FACILITIES THAT ARE, OR WILL BE, OWNED, OPERATED AND MAINTAINED BY THE CITRUS COUNTY DEPARTMENT OF WATER RESOURCES (CCWR), PLEASE CLEARLY INDICATE ON THE DRAWINGS THE LIMITS OF PUBLIC PROPERTY OWNERSHIP, PUBLIC RIGHT–OF–WAY, RECORDED PERPETUAL UTILITY EASEMENT, OR OTHER DESIGNATED LEGAL INSTRUMENT THAT PROVIDES THE CCWR WITH THE RIGHT TO ACCESS FOR USE, OPERATION, AND MAINTENANCE. IN ADDITION, PLEASE INDICATE (AND REFERENCE) ANY CONDITIONS, UNDERSTANDINGS, RESTRICTIONS, LIMITATIONS, ETC. ASSOCIATED WITH ANY SUCH DESIGNATED RIGHTS OF ACCESS.
2. ALL WATER METERS THAT ARE NOT PLACED WITHIN THE RIGHT–OF–WAY SHALL HAVE AN EASEMENT FOR CCWR ACCESS.
3. IN THE EVENT OF CCWR OWNED WATER UTILITY MAINTENANCE AND/OR REPAIR REQUIRING EXCAVATION, CCWR SHALL BE RESPONSIBLE TO BACKFILL AND COMPACT UP TO GROUND LEVEL. PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL OTHER SURFACE RESTORATION INCLUDING BUT NOT LIMITED TO ROAD BASE, ASPHALT, CURBING, SIDEWALKS, LANDSCAPING, AND SODDING.
4. ALL WATER CONSTRUCTION SHALL ADHERE TO THE CITRUS COUNTY MINIMUM STANDARDS AND CONSTRUCTION SPECIFICATIONS FOR WATER & WASTEWATER SYSTEMS, LATEST EDITION.
5. DEPENDING ON THE OWNERSHIP AND MAINTENANCE OF THE WATER FACILITIES, PLEASE PROVIDE A REQUIREMENT THAT THE LOCATIONS OF NEW CCWR OWNED AND MAINTAINED FACILITIES (PIPE, TAPS, VALVES, METERS, ETC.) BE IDENTIFIED WITH CUT MARKS IN CURBS OR ROADWAYS, ADJACENT TO THE NEW FACILITIES, TO FACILITATE LOCATION BY CCWR FIELD PERSONNEL. MARKS (TAPS (T), VALVES (V), WATER METERS (W), ETC.) SHALL BE COLOR CODED (BLUE FOR WATER) BASED ON THE SPECIFIC USE.
6. FINAL ADJUSTMENT OF VALVE BOXES AND ALL OTHER APPURTENANCES IS AT THE CONTRACTOR'S EXPENSE.
7. ALL UTILITY CONNECTIONS AND INSPECTIONS MUST BE WITNESSED BY CCWR AND MUST BE SCHEDULED 48 HOURS IN ADVANCE BY APPOINTMENT (TUESDAY–THURSDAY). CCWR CONTACT INFORMATION (WATER UTILITIES) CITRUS COUNTY DEPARTMENT OF WATER RESOURCES (352) 527–7650, OPTION 4 EMAIL: WATERRESOURCES@CITRUSBOCC.COM
8. JOINT RESTRAINT IS THE PREFERRED METHOD FOR RESTRAINING ALL APPURTENANCES AND SHALL BE SPECIFIED AT ALL WATER MAIN BENDS, VALVES, FIRE HYDRANTS, TAPPING SLEEVES, DEAD ENDS, ETC.

UTILITIES CONTROL POINT TABLE		
	NORTHING	EASTING
U1	1642764.2227'	165892.7434'
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U13	1641799.7616'	166859.0538'
U14	1641791.5030'	166863.5321'
U15	1641791.5665'	166870.7386'
U16	1641637.1419'	166817.4177'

NOTES: EACH RESIDENTIAL LOT SHALL HAVE SEWER SEPTIC AND DRAIN FIELD–TO BE DESIGNED AND PERMIT DURING BUILDING PERMIT STAGE

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LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

	DESCRIPTION
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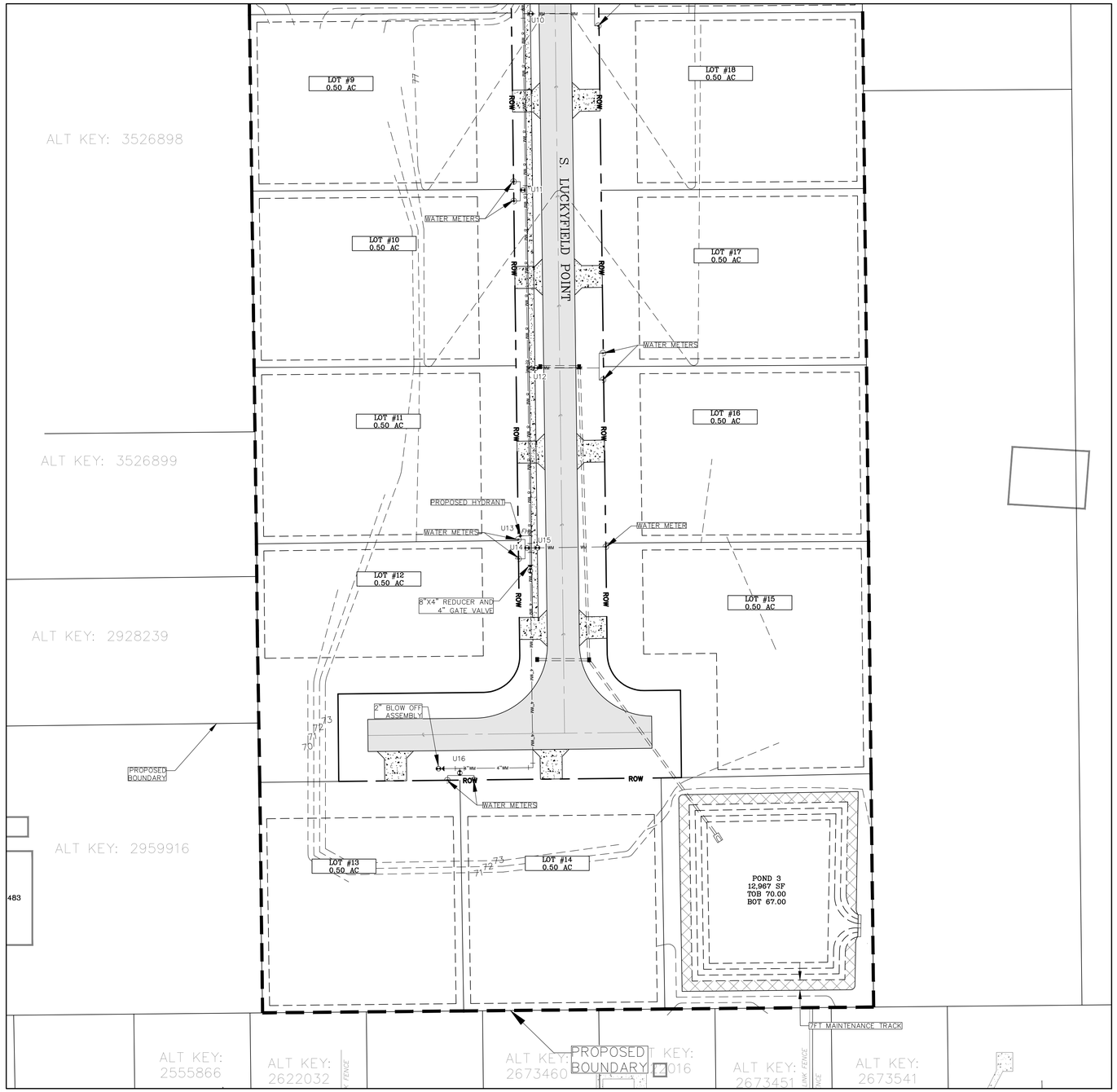
SHEET TITLE: PORTABLE WATER PLAN

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	8.1



GRAPHIC SCALE

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LEGEND

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REVISIONS

	BY	DESCRIPTION
1		
2		
3		
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5		

SHEET TITLE

PORTABLE WATER PLAN

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
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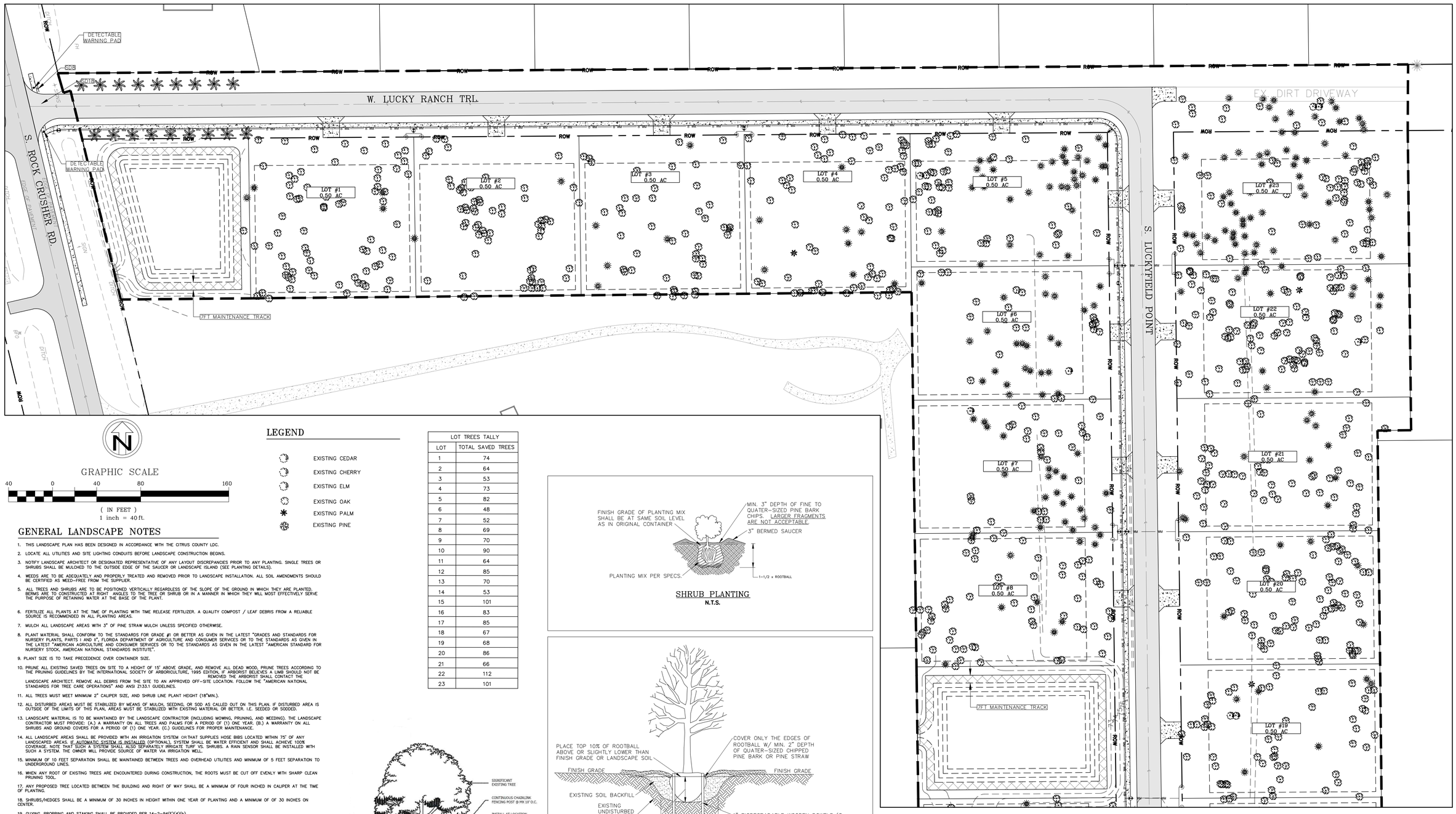


GRAPHIC SCALE

40 0 40 80 160

(IN FEET)

1 inch = 40 ft.

LEGEND

- EXISTING CEDAR
- EXISTING CHERRY
- EXISTING ELM
- EXISTING OAK
- EXISTING PALM
- EXISTING PINE

LOT TREES TALLY	
LOT	TOTAL SAVED TREES
1	74
2	64
3	53
4	73
5	82
6	48
7	52
8	69
9	70
10	90
11	64
12	85
13	70
14	53
15	101
16	83
17	85
18	67
19	68
20	86
21	66
22	112
23	101

GENERAL LANDSCAPE NOTES

1. THIS LANDSCAPE PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CITRUS 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 CERTIFIED AS WEED-FREE FROM THE SUPPLIER.
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 OR THAT SUPPLIES HOSE BIBS LOCATED WITHIN 75' OF ANY LANDSCAPED AREAS. IF AUTOMATIC SYSTEM IS INSTALLED (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. THE OWNER WILL PROVIDE SOURCE OF WATER VIA IRRIGATION WELL.
15. MINIMUM OF 10 FEET SEPARATION SHALL BE MAINTAINED BETWEEN TREES AND OVERHEAD UTILITIES AND MINIMUM OF 5 FEET SEPARATION TO UNDERGROUND LINES.
16. WHEN ANY ROOT OF EXISTING TREES ARE ENCOUNTERED DURING CONSTRUCTION, THE ROOTS MUST BE CUT OFF EVENLY WITH SHARP CLEAN PRUNING TOOL.
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 PLANTING.
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.

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 INSTITUTE.

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. OWNER WILL PROVIDE IRRIGATION WELL.

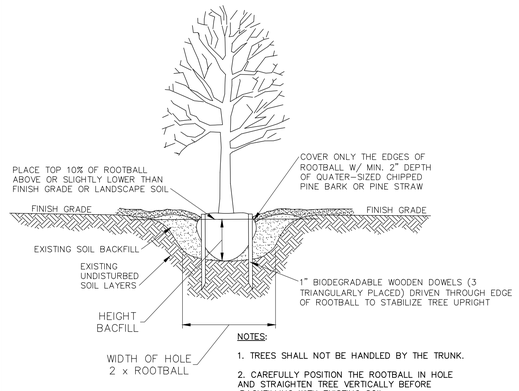
h. TREES SHALL HAVE A MINIMUM HEIGHT OF (8) EIGHT TO (10) FEET AND (2) TWO INCHES OF CALIPER.

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.

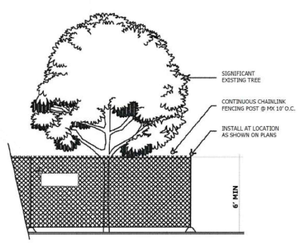
SHRUB PLANTING
N.T.S.



NOTES:

1. TREES SHALL NOT BE HANDLED BY THE TRUNK.
2. CAREFULLY POSITION THE ROOTBALL IN HOLE AND STRAIGHTEN TREE VERTICALLY BEFORE BACKFILLING WITH EXISTING SOIL.
3. DO NOT PLACE ADDITIONAL SOIL OR MULCH OVER THE TOP OF THE ROOTBALL.
4. IN POORLY DRAINED SOILS, POSITION THE ROOTBALL SHALLOWER THAN INDICATED TO FIT SITE CONDITIONS.
5. UNFASTEN STRING/BURLAP FROM TRUCK AND TOP OF ROOTBALL.

TREE PLANTING
N.T.S.



1. 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.
2. 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.
3. NO STOCKPILING OF MATERIALS, VEHICULAR 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)

LANDSCAPE PLANTING SCHEDULE

	KEY	QTY	TOTAL INCHES	SYMBOL	BOTANICAL/COMMON NAME	SPECIFICATION	NATIVE
PALM	CP	18	108		Cabbage Palm Sabal Palmetto	6"OD, MIN 15' h	Native/ Florida Friendly
MAGNOLIA	MG	0	0		Magnolia Grandiflora (Southern Magnolia)	Straight Trunk & Healthy	Native/ Florida Friendly
OAK	QV	0	0		Quercus Virginiana (Southern Live Oak)	3" Cal., Min. 10' Ht., Straight Trunk & Healthy	Native/ Florida Friendly

SEE SHEET 4A & 4B FOR REMOVED & SAVED TREES TABLE

LANDSCAPE CALCULATION:

TOTAL SAVED TREE: 1,761 TREES
TOTAL PROPOSED PLANTING TREE: 18 TREES
(CANOPY TREES+PALM= 18)

TOTAL PROVIDED TREE: 1,779 TREES

TOTAL REMOVED TREE: 622 TREES

TOTAL TREE MITIGATION: 525/TREE = $15,100

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LICENSED ENGINEER
QUOC H. MAI
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REVISIONS

	1	2	3	4	5
REVISION					

SHEET TITLE: LANDSCAPE PLAN

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	9.1

GRAPHIC SCALE

40 0 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

- EXISTING CEDAR
- EXISTING CHERRY
- EXISTING ELM
- EXISTING OAK
- EXISTING PALM
- EXISTING PINE

LANDSCAPE CALCULATION:

TOTAL SAVED TREE: 1,761 TREES
TOTAL PROPOSED PLANTING TREE: 18 TREES
(CANOPY TREES+PALM= 18)

TOTAL PROVIDED TREE: 1,779 TREES

TOTAL REMOVED TREE: 622 TREES

TOTAL TREE MITIGATION: $25/TREE = $15,100

LOT TREES TALLY	
LOT	TOTAL SAVED TREES
1	74
2	64
3	53
4	73
5	82
6	48
7	52
8	69
9	70
10	90
11	64
12	85
13	70
14	53
15	101
16	83
17	85
18	67
19	68
20	86
21	66
22	112
23	101

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REVISIONS

	DESCRIPTION
1	
2	
3	
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SHEET TITLE: LANDSCAPE PLAN

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	9.2

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.

3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.

4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.

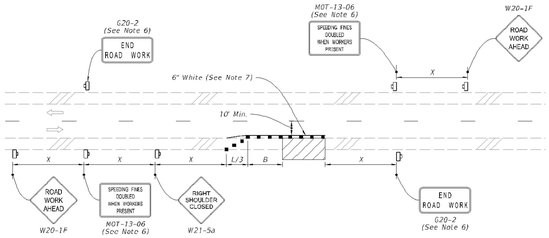
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.

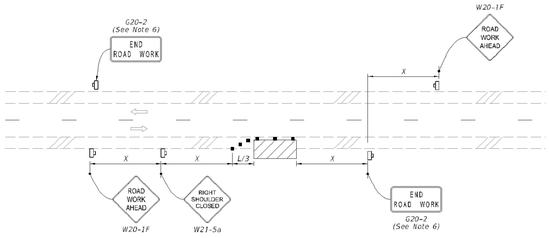
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.

9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).



TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



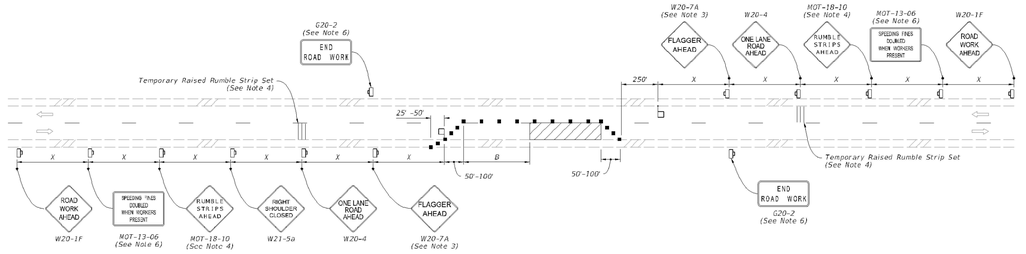
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

10:45:37 AM
9/18/2024

LAST REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/21					102-602	1 of 2



NOTES:

1. This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.

2. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Spacing
   See Index 102-600 for "L", "B", "X" and channelizing device spacing values.

3. Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).

4. Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (M0T-18-10) and associated work zone sign spacing.

5. Additional one-way control may be provided by the following means:
   a. Flag-carrying vehicle
   b. Official vehicles
   c. Pilot vehicles
   d. Traffic signals

   When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.

6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.

7. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.

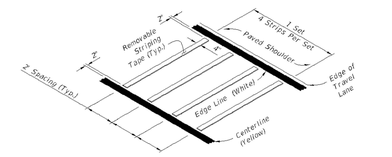
8. Railroad Crossings:

   a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.

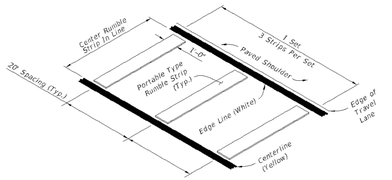
   b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic



OPTION - 1
REMOVABLE STRIPING TYPE



OPTION - 2
PORTABLE TYPE

RUMBLE STRIP SETS

10:45:38 AM
9/18/2024

LAST REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX	SHEET
11/01/21					102-603	1 of 2

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REVISIONS

	REVISION
1	
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4	
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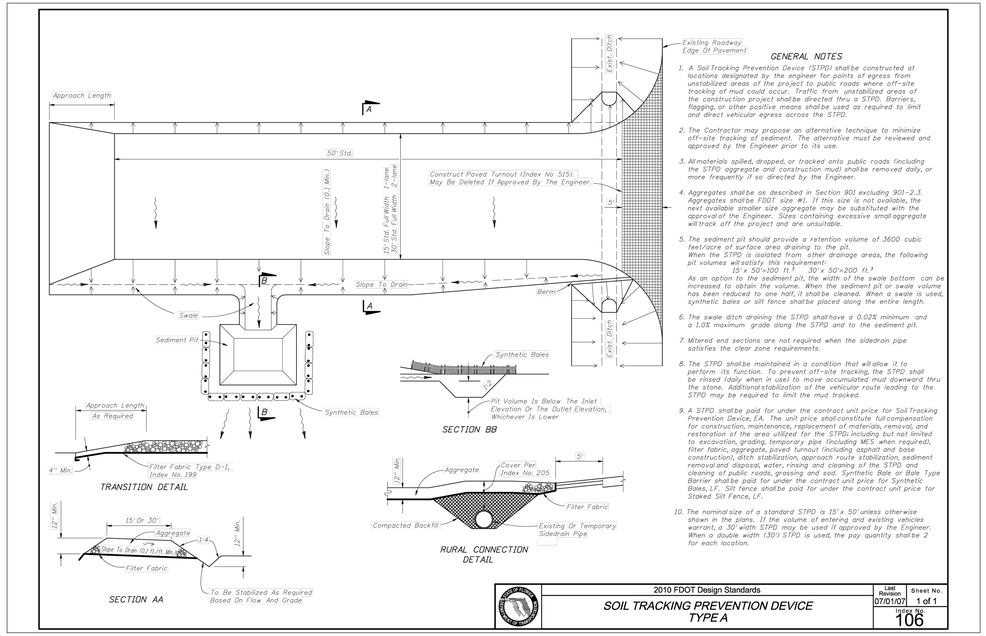
SHEET TITLE: MOT INDEX

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	10

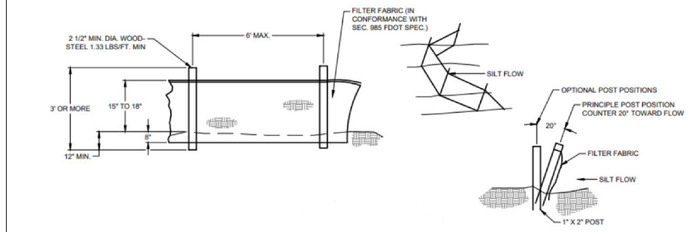


GENERAL NOTES

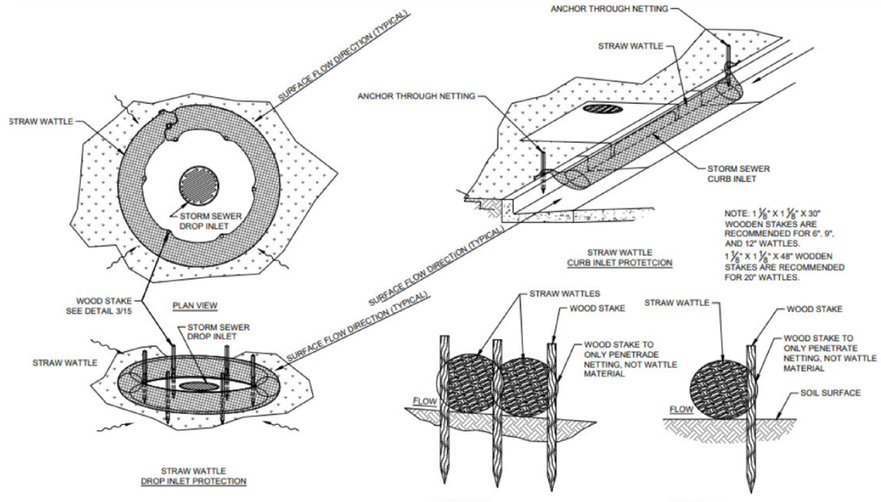
1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
2. The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
   15'x 50'=100 ft.³ 30'x 50'=200 ft.³
   As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
6. The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, LF. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

2010 FDOT Design Standards	Last Revision	Sheet No.
SOIL TRACKING PREVENTION DEVICE TYPE A	07/01/07	1 of 1
	Index No.	106

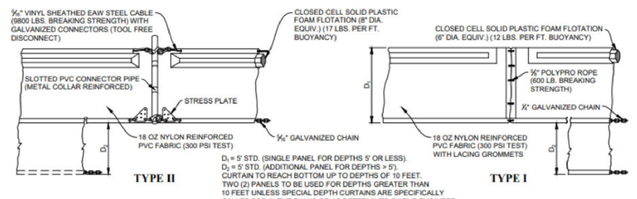
STABILIZED CONSTRUCTION ENTRANCE EC1
N.T.S



TYPE III SILT FENCE EC2
N.T.S



WATTLE INLET PROTECTION EC3
N.T.S

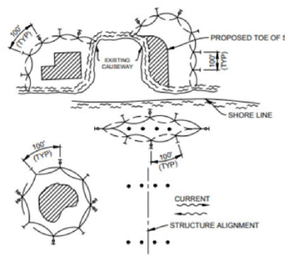


NOTICE:
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

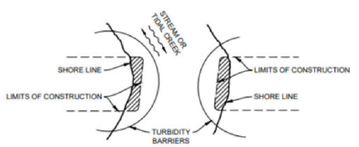
FLOATING TURBIDITY BARRIERS

LEGEND
- PILE LOCATIONS
- DREDGE OR FILL AREA
- MOORING BUOY W/ANCHOR
- ANCHOR
- BARRIER MOVEMENT DUE TO CURRENT ACTION

NOTES:
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.



TURBIDITY BARRIER APPLICATIONS



NOTE:
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 TURBIDITY 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 EC4
N.T.S

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REVISIONS

	1	2	3	4	5
REVISION					

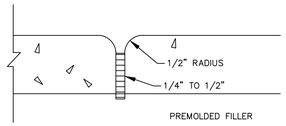
EROSION CONTROL DETAILS

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

SHEET TITLE

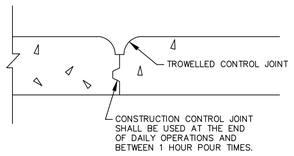
DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	11



EXPANSION JOINT DETAIL

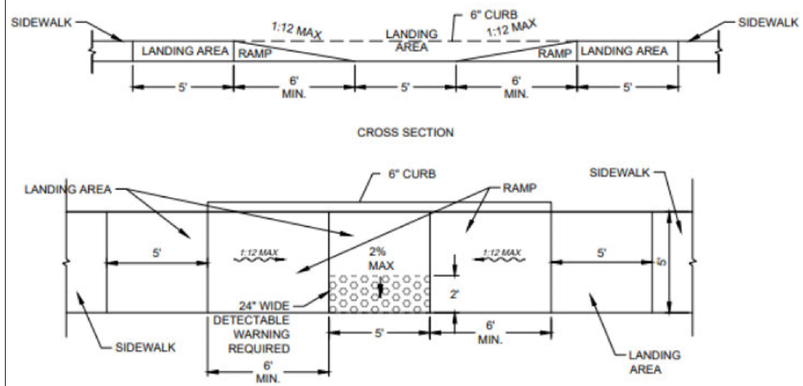
NOT TO SCALE

EXPANSION JOINT DETAIL



CONSTRUCTION CONTROL JOINT DETAIL

NOT TO SCALE

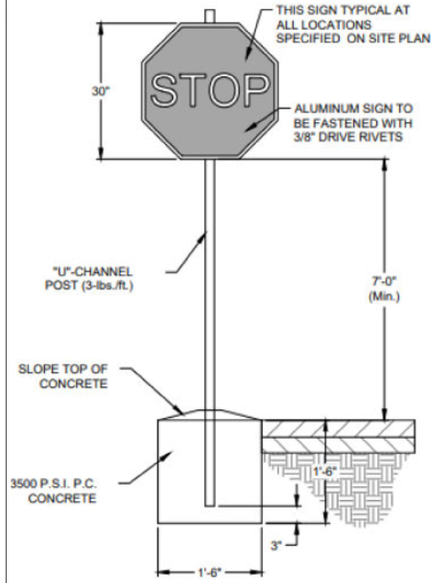


NOTES:

1. THE SURFACE OF RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
2. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 8% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.
3. CONSTRUCT PER A.D.A. STANDARDS.
4. 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.
5. DETECTABLE WARNING SURFACE TO BE CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC. OR CAST IN PLACE DETECTABLE WARNING PANEL BY ARMORCAST.
6. DETECTABLE WARNING AREA SHALL CONFORM TO FDOT STANDARD INDEX 522-002 AND 28 CFR PART 36 APPENDIX A, LATEST REVISION.

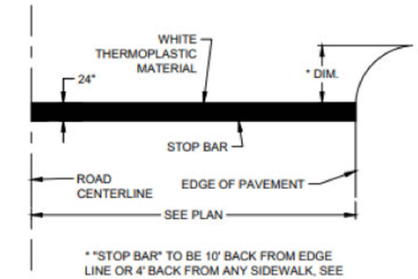
WHEELCHAIR RAMP IN SIDEWALK SD7

N.T.S



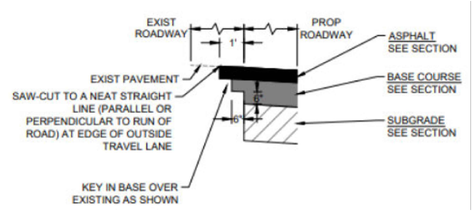
STOP SIGN SD8

N.T.S



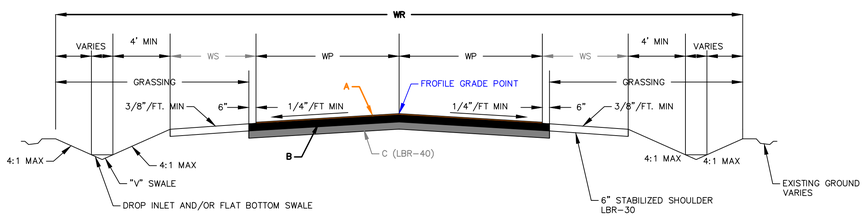
STOP BAR SD18

N.T.S



CONNECT TO EXISTING PAVEMENT SD34

N.T.S



MINIMUM DESIGN CRITERIA

WR = WIDTH OF RIGHT-OF-WAY = 60 FT OR 50 FT WITH CURB AND GUTTER

WP = WIDTH OF PAVEMENT LANE = 10 FT.

WS = WIDTH OF SHOULDER = 6 FT.

A = SP – 9.5 ASPHALTIC CONCRETE/THICKNESS = 1"

B = LIMEROCK BASE/WDTH = 21 FT./THICKNEES = 6"

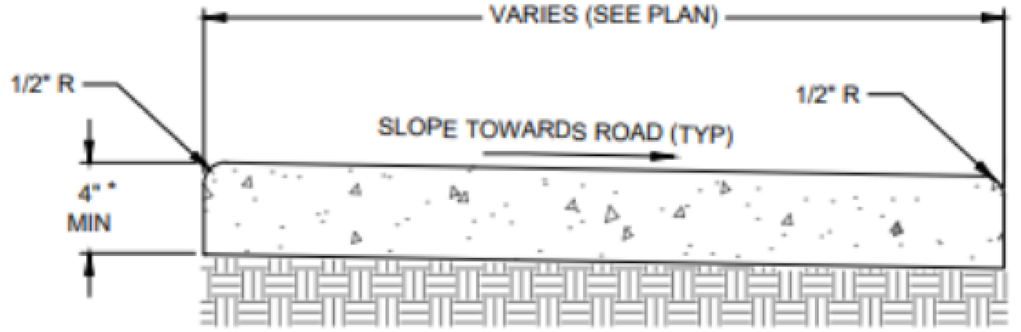
C = STABILIZED SUBGRADE/WIDTH = 22 FT./THICKNEES = 6"

TYPICAL SECTION (n.t.s)

2-LANE ROAD
DESIGN SPEED 40 MPH

USE WHEN TRAFFIC PROJECTIONS ARE 0 TO 499 ADT

ALL WORK SHALL CONFORM TO CURRENT CITRUS COUNTY SPECIFICATIONS OR, IF THOSE SPECIFICATIONS ARE SILENT, IN ACCORDANCE WITH CURRENT STATE OF FLORIDA SPECIFICATIONS.



NOTES:

1. DISTANCE BETWEEN SCORE LINE NOT TO EXCEED 5' IN LONGITUDINAL & TRAVERSE DIRECTION IN SIDEWALK.
2. SIDEWALK IS TO BE CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI.
3. MAX 2% CROSS SLOPE PER ADA

* SIDEWALK SHALL BE 6" THICK AT DRIVEWAY.

CONCRETE SIDEWALK DETAIL SD1

N.T.S

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

	1	2	3	4	5

GENERAL DETAILS

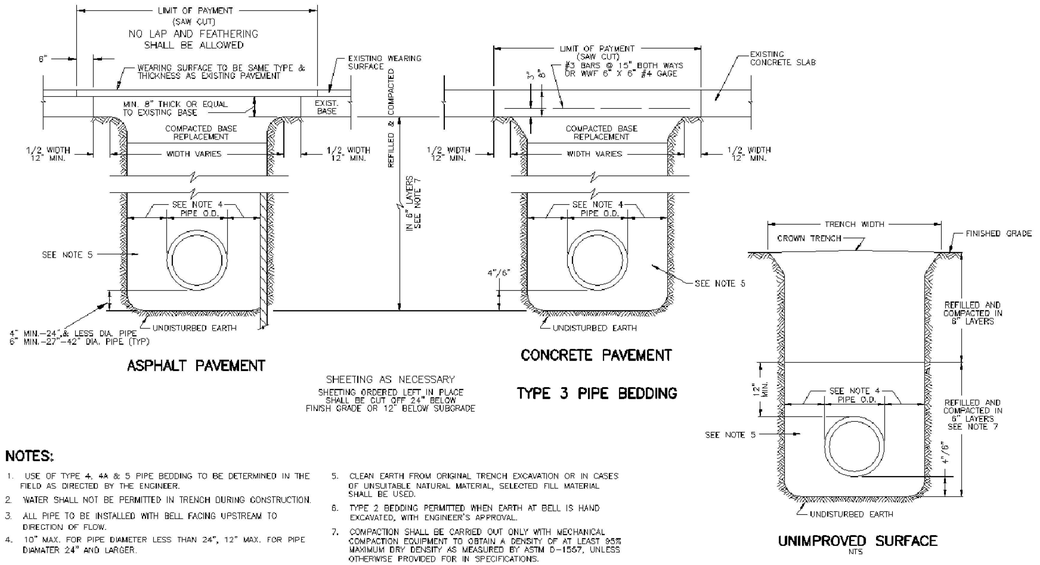
SHEET TITLE

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	12

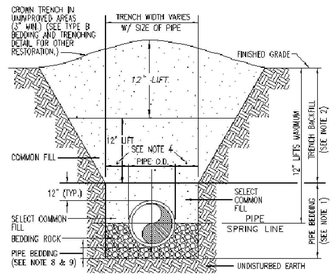


NOTES:

1. USE OF TYPE 4, 4A & 5 PIPE BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
2. WATER SHALL NOT BE PERMITTED IN TRENCH DURING CONSTRUCTION.
3. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO DIRECTION OF FLOW.
4. 10" MAX. FOR PIPE DIAMETER LESS THAN 24", 12" MAX. FOR PIPE DIAMATER 24" AND LARGER.
5. CLEAN EARTH FROM ORIGINAL TRENCH EXCAVATION OR IN CASES OF UNSUITABLE NATURAL MATERIAL, SELECTED FILL MATERIAL SHALL BE USED.
6. TYPE 2 BEDDING PERMITTED WHEN EARTH AT BELL IS HAND EXCAVATED, WITH ENGINEER'S APPROVAL.
7. COMPACTION SHALL BE CARRIED OUT ONLY WITH MECHANICAL COMPACTION EQUIPMENT TO OBTAIN A DENSITY OF AT LEAST 95% MAXIMUM DRY DENSITY AS MEASURED BY ASTM D-1557, UNLESS OTHERWISE PROVIDED FOR IN SPECIFICATIONS.

TYPICAL TRENCH EXCAVATION AND PAVEMENT REPLACEMENT

DETAIL No.III-1

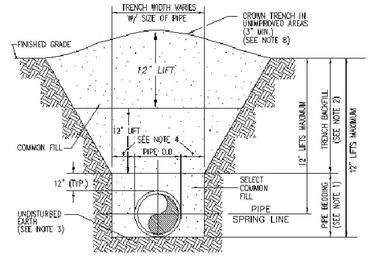


NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE COUNTY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. SHEETING AND BRACING IN EXCAVATION AS REQUIRED BY O.S.H.A.
8. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE COUNTY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. COUNTY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

TYPE A BEDDING AND TRENCHING DETAIL

DETAIL No.III-2

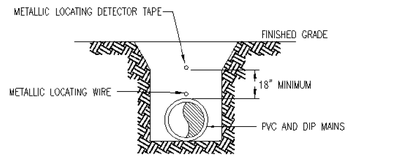


NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE COUNTY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. SHEETING AND BRACING IN EXCAVATIONS AS REQUIRED BY O.S.H.A. IN EXCAVATIONS.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF CONFIRMED AGENCIES. SURFACE RESTORATION WITHIN CITRUS COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

TYPE B BEDDING AND TRENCHING DETAIL

DETAIL No.III-3



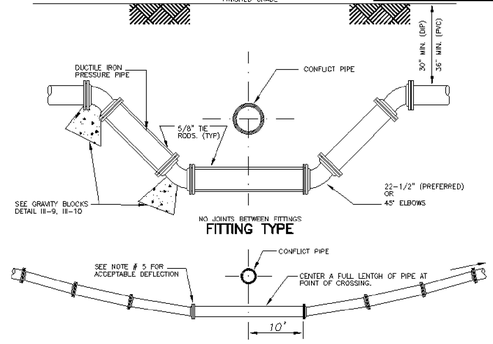
NOTES:

1. PVC AND DUCTILE IRON PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE STRAND COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION. (EXTEND WIRE UP OUTSIDE OF VALVE BOX). USE PLASTIC ZIPPER TYPE TIES ON EACH SIDE OF BELL JOINT OR FITTING AND AT 10 FT. INTERVALS ALONG THE PIPELINE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.

PVC & DIP PIPE LOCATING WIRE and TAPE DETAIL FOR POTABLE WATER AND WASTEWATER FORCE MAINS

DETAIL No.III-8

REVISED JULY 2004



NOTE:

1. THERE SHALL BE IN ALL CASES A MINIMUM OF 12" VERTICAL SEPARATION BETWEEN WATER MAIN AND FORCE MAINS OR STORM SEWERS
2. WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
3. FITTINGS SHALL BE RESTRAINED WITH RETAINER GLANDS AND EITHER GRAVITY BLOCKS OR TIE RODS.
4. THE DEFLECTION TYPE CROSSING IS PREFERRED.
5. DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
6. ALL TIE RODS/STEEL SHALL BE COATED WITH COAL-TAR EPOXY.

ANY NEW OR RELOCATED WATERMAINS THAT CROSS ANY SANITARY SEWERS, STORM SEWERS, FORCE MAINS OR RECLAIMED WATER LINES SHALL CROSS ABOVE (PREFERRED) OR BELOW SUCH PIPELINES WITH A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE OUTSIDE OF THE WATER MAINS AND THE OUTSIDE OF SUCH PIPELINES. SUCH CROSSINGS SHALL BE ARRANGED SO THAT ALL PIPE JOINTS ARE EQUIDISTANCE FROM THE POINT OF CROSSING WITH NO LESS THAN TEN FEET BETWEEN ANY TWO JOINTS. FOR EXCEPTIONS SEE DETAIL III-24.

UTILITY SEPARATION

DETAIL No.III-11

REVISED SEPT. 2004

SHT NO.
DT-2
DT-3

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com
MAI ENGINEERING SERVICES, INC.
LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

1	2	3	4	5

UTILITY DETAILS

SHEET TITLE

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

PREPARED FOR

FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	13

GENERAL NOTES :

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", WHERE APPLICABLE.
2. GRADES SHOWN ARE FINISHED GRADES, OR AS SHOWN ON THE PLANS.
3. EXISTING (VALVE BOXES, METER BOXES, MANHOLES, ETC.) SHALL BE ADJUSTED TO THE FINAL GRADE AS DIRECTED BY THE ENGINEER.
4. ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY: CITRUS COUNTY SURVEY SECTION OR THE FOLLOWING:
   NGS INFORMATION SERVICES, NOAA, N/NGS12
   NATIONAL GEODETIC SURVEY SSMC-3, #9202
   1315 EAST-WEST HIGHWAY
   SILVER SPRING, MD 20910-3282
   TELEPHONE: (301) 713-3242
   FAX: (301) 713-4172
5. UTILITY OWNERS — TELEPHONE NUMBERS

CITRUS COUNTY UTILITIES DIVISION	527-7650
CITRUS COUNTY ENGINEERING DIVISION	527-5446
FLORIDA POWER CORP.	1-800-432-4770
WITHLACOOCHEE ELECTRIC	489-6818
SUMTER ELECTRIC	728-3944
TIME WARNER	746-0755
UNITED TELEPHONE	1-800-432-4770
BELL SOUTH TELEPHONE	1-800-432-4770
FLORIDA WATER SERVICES	459-2452/ 1 (800) 432-4501
HOMOSASSA SPECIAL WATER DISTRICT	628-3740
PSG	746-4291
FLORAL CITY WATER ASSOCIATION	726-3386
CRYSTAL RIVER	795-4216
CITY OF INVERNESS	726-2321; 726-5016
OZELLO WATER ASSOCIATION	795-5331
FLORIDA GAS & TRANSMISSION	527-1898
SUNSHINE ONE CALL (CABLE LOCATES)	1 (800) 432-4770

6. ALL STATIONS AND OFFSETS ARE REFERENCED TO THE BASELINE OF SURVEY. DEPTHS ARE REFERENCED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED IN THE PLANS.
7. 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 CONTRACTOR SHOULD NOTIFY THE COUNTY SURVEYOR BY TELEPHONE WITHOUT DELAY, AND PROCEED AS INSTRUCTED BY HIM.
8. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES. CONTRACTOR SHALL HAVE ALL EXISTING BURIED UTILITIES LOCATED PRIOR TO EXCAVATION.
9. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR 48 HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR LINES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT FOR EXACT LOCATIONS.
10. PRIOR TO CONSTRUCTION, CONTRACTOR IS TO LOCATE ALL UNDERGROUND UTILITIES AND PROTECT THEM AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH F.S.S. #556 OR LATER REVISION THERE OF.

GENERAL NOTES
DETAIL No.III-19
REVISED NOV. 20, 2006

11. THE LOCATION OF THE PROPOSED FACILITIES SHOWN ON THE PLANS IS APPROXIMATE. LOCATION ADJUSTMENT SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION BASED UPON FIELD CONDITIONS.
12. ALL EXISTING LANDSCAPING AND IRRIGATION WITHIN THE CONSTRUCTION AREAS ARE TO BE REMOVED AND RELOCATED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER
13. PRIOR TO COMMENCING CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED BY THE ENGINEER. THE FOLLOWING SHALL BE INCLUDED IN THE CONFERENCE. THE CITRUS COUNTY UTILITIES DIVISION, THE CONTRACTOR, THE ENGINEER, AND UTILITY COMPANIES.
14. DENSITY TESTS SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER, THE ENGINEER SHALL BE RESPONSIBLE FOR OBSERVATION OF CONSTRUCTION AND UPON COMPLETION OF THE PROJECT A LETTER OF CERTIFICATION FROM THE ENGINEER INDICATING THAT CONSTRUCTION WAS CARRIED OUT IN CONFORMANCE TO THE APPROVED PLANS, SHALL BE SUBMITTED TO THE CITRUS COUNTY UTILITIES DIVISION, AS APPLICABLE EVERY CERTIFICATION SUBMITTAL TO THE C.C.U.D. SHALL INCLUDE ONE (1) SET OF 'AS BUILT'/RECORD PLANS, ALONG WITH COPIES OF PERTINENT BACTERIOLOGICAL MAIN CLEARANCE AND HYDROSTATIC TEST REPORTS, UNDER NO CIRCUMSTANCES SHALL WATER MAINS PERMITTED HEREIN BE PLACED INTO OPERATION PRIOR TO THE ISSUANCE OF A LETTER OF CLEARANCE BY THE F.D.E.P., AS APPLICABLE
15. NO PHYSICAL CONNECTION OF NEW WATER MAINS TO ACTIVE WATER MAINS SHALL BE MADE UNTIL SUCH TIME THAT NEW MAINS ARE CONFIRMED TO BE BACTERIOLOGICALLY SAFE
16. ALL WATER MAINS SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI
17. THE WATER SYSTEM SHALL BE HYDROSTATICALLY PRESSURE TESTED FOR A PERIOD OF 2 HOURS AT NOT LESS THAN 150 PSI IN ACCORDANCE WITH ANSI/AWWA STANDARD C600 OR C605 LATEST REVISIONS WITH AN ALLOWABLE LEAKAGE NOT GREATER THAN DETERMINED BY THE FOLLOWING:

DIP	PVC
$L = \frac{SxDx\sqrt{P}}{133200}$	$L = \frac{NxDx\sqrt{P}}{7400}$
D= SIZE OF LINE TESTED IN INCHES	N= No. OF JOINTS IN LENGTH OF PIPE TESTED
S= LENGTH OF LINE IN FEET	D=NOMINAL DIA. OF PIPE TESTED
P= AVERAGE TEST PRESSURE (P.S.I.)	P= AVERAGE TEST PRESSURE (P.S.I.)
L= ALLOWABLE LEAKAGE IN GALS/HOUR	L= ALLOWABLE LEAKAGE IN GALS/HOUR

SEE CHART FOR HDPE PIPE IN SECTION VII, 3.6.2.4

18. WATER MAIN PIPE SHALL MEET THE REQUIREMENTS OF AWWA C-900 LATEST REVISION "POLIVINYL CHLORIDE (PVC) PRESSURE PIPE". PRESSURE CLASS 150 PIPE SHALL CONFORM TO REQUIREMENT OF DR 18, PRESSURE CLASS 200 PIPE SHALL CONFORM TO REQUIREMENTS OF DR-14. PVC PIPE SHALL BE BLUE COLOR.
19. PVC MAINS SHALL BE LAID WITH A MINIMUM OF 36" CLEAR COVER. FITTINGS SHALL BE DUCTILE IRON CLASS 350 THROUGH 12" AND CLASS 250 IN SIZES 16" AND LARGER (SHORT BODY TYPE). ALL FITTINGS SHALL BE CEMENT LINED AND SEALED THE SAME AS DUCTILE IRON PIPE (WHERE SPECIFIED)IN ACCORDANCE WITH AWWA/ANSI C110 LATEST REVISION
20. DUCTILE IRON PIPE SHALL BE CLASS 350 AND SHALL BE CEMENT LINED AND SEALCOATED IN ACCORDANCE WITH AWWA/ANSI STANDARD C151 LATEST REVISION D.I.P. MAINS SHALL BE LAID WITH A MINIMUM 30" CLEAR COVER. DUCTILE IRON FITTINGS SHALL BE CLASS 350 (SHORT BODY TYPE)THROUGH 12" AND CLASS 250 IN SIZES 16" AND LARGER. ALL FITTINGS SHALL BE CEMENT LINED AND SEALCOATED THE SAME AS DUCTILE IRON PIPE IN ACCORDANCE WITH C104 LATEST REVISION & C153 LATEST REVISION.

GENERAL NOTES
DETAIL No.III-20
REVISED JULY 2004

21. INSTALL DETECTOR TAPE AND LOCATING WIRE AS SHOWN IN DETAIL III-8 IN POTABLE WATER AND WASTEWATER FORCE MAIN SYSTEMS. A CONTINUITY TEST SHALL BE PERFORMED BY THE CONTRACTOR. THE TEST IS TO BE WITNESSED AND APPROVED BY BOTH THE CITRUS COUNTY UTILITIES DEPARTMENT AND THE ENGINEER.
22. ALL DRIVEWAYS TO BE REPLACED IN KIND IF CROSSED BY OPEN-CUT. COMPACTED TO 98% OF ITS MAXIMUM LABORATORY MODIFIED DRY DENSITY, ASTM D1557.
23. RE-SOD ALL DISTURBED AREAS. (PRESERVE EXISTING SURFACE DRAINAGE).

HORIZONTAL SEPARATION BETWEEN PARALLEL LINES
24. ALL NEW AND RELOCATED WATER MAINS SHALL BE LOCATED AT LEAST SIX FEET (PREFERABLY 10 FEET) HORIZONTALLY FROM ALL GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIM WATER MAINS. IF THE BOTTOM OF A POTABLE WATER MAIN IS LOCATED 6 INCHES MINIMUM ABOVE THE TOP OF A GRAVITY TYPE SEWER MAIN, THE HORIZONTAL DISTANCE CAN BE REDUCED TO 3 FEET MINIMUM. ALSO, ALL NEW AND RELOCATED WATER MAINS SHALL BE LOCATED AT LEAST THREE FEET HORIZONTALLY FROM ALL STORM SEWERS, STORMWATER FORCE MAINS, RECLAIMED WATER LINES CARRYING RECLAIMED WATER FOR NURSERIES AND VACUUM-TYPE SANITARY SEWERS.

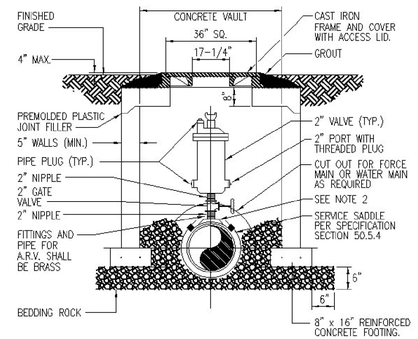
VERTICAL SEPARATION BETWEEN LINES
25. ANY NEW OR RELOCATED WATER MAINS THAT CROSS ANY GRAVITY OR VACUUM-TYPE SANITARY SEWER, STORM SEWER, OR RECLAIMED WATER MAIN SHALL CROSS ABOVE (PREFERRED) OR BELOW SUCH PIPELINES WITH A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE OUTSIDE OF THE WATER MAINS AND THE OUTSIDE OF SUCH PIPELINES. SUCH CROSSINGS SHALL BE ARRANGED SO THAT ALL PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN FEET BETWEEN ANY TWO JOINTS (OR ALTERNATIVELY, THE MAINS AT SUCH CROSSINGS SHALL BE PLACED IN SLEEVES TO OBTAIN THE EQUIVALENT OF THE TEN-FOOT SEPARATION BETWEEN JOINTS).

DISINFECTION OF WATER LINES
26. BACTERIOLOGICAL SAMPLING-DISINFECTION OF ALL NEW AND RELOCATED WATER MAINS SHALL BE IN ACCORDANCE WITH ANSI/AWWA SPECIFICATION C651 LATEST REVISION. CITRUS COUNTY UTILITIES DEPARTMENT PERSONEL MUST BE PRESENT AT THE TIME OF CHLORINATION AND FLUSHING.

SPECIFIC NOTES :

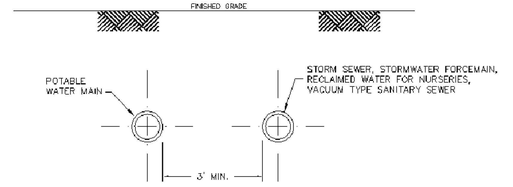
1. ALL WATER MAINS TAKEN OUT OF SERVICE BY A PROJECT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. EXISTING 911 CABLE IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND OR RELOCATE AS NECESSARY. PENALTIES MAY BE INCURRED. SEE CONTRACT FOR EXPLANATION.

GENERAL NOTES
DETAIL No.III-21
REVISED JULY 2004

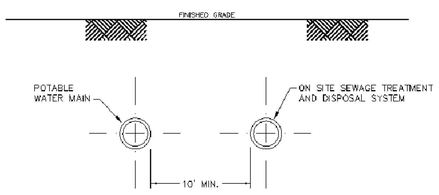


NOTES:
1. ABOVE DETAIL IS BASED ON 2" COMBINATION AIR/VACUUM RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES TO BE DETERMINED BY THE ENGINEER AND APPROVED BY THE COUNTY PRIOR TO INSTALLATION.
2. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.

WASTEWATER AIR RELEASE VALVE
DETAIL No.V-1



HORIZONTAL CLEARANCE

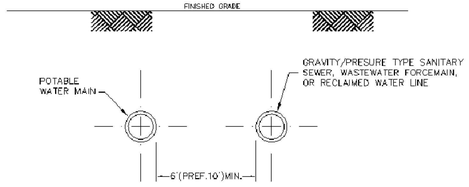


HORIZONTAL CLEARANCE

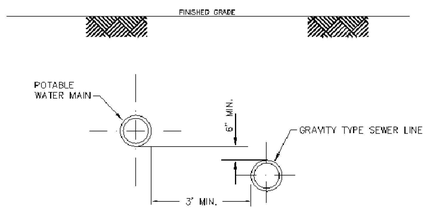
UTILITY HORIZONTAL SEPARATION
DETAIL No.III-22
REVISED SEPT. 2004

NOTE:
SEE DETAIL No. III-24 FOR EXCEPTIONS
REFRENCE FLORIDA ADMINISTRATION CODE (FAC)
62-555.314 (1)(a, b & d), 8/28/03

NOT TO SCALE



HORIZONTAL CLEARANCE

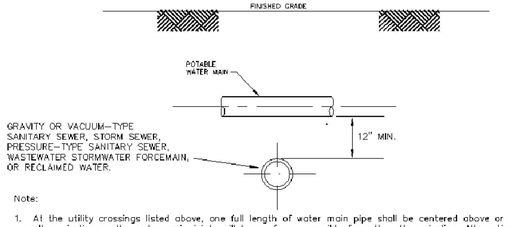


HORIZONTAL CLEARANCE

UTILITY HORIZONTAL SEPARATION
DETAIL No.III-23
REVISED SEPT. 2004

NOTE:
SEE DETAIL No. III-24 FOR EXCEPTIONS
REFRENCE FLORIDA ADMINISTRATION CODE (FAC)
62-555.314 (1) (c), 8/28/03

NOT TO SCALE



Note:
1. At the utility crossings listed above, one full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline. Alternatively, at such crossings, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, storm sewers, storm water force mains, or pipelines conveying reclaimed water and at least six feet from all joints in gravity or pressure-type sanitary sewers, wastewater force mains or pipeline conveying reclaimed water.
2. Prefer water main laid over the other pipelines.

Reference Florida Administration Code (FAC)
62-555.314 (2)(a,b,c,) 8/28/03

VERTICAL CLEARANCE

EXCEPTIONS FOR ALL VERTICAL AND HORIZONTAL CLEARANCE REQUIREMENTS:

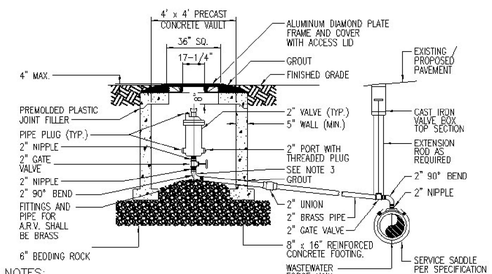
1. Where it is not technically feasible or economically sensible to comply with the vertical and horizontal spacing requirements, the following exceptions shall be allowed if technical or economic justification for each exception is provided to the County's Department of Public Works Utilities Division:
   a. Use pressure-rated pipe conforming to the AWWA standards for other pipeline if it is a gravity-or vacuum-type pipeline, or
   b. Use welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or
   c. Use watertight casing pipe for either the water main of the other pipeline.
2. Where an underground water main is being laid less than the three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline:
   a. Use pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25 inch-thick ductile iron pipe) for the water main; and
   b. Use pipe or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25 inch-thick ductile iron pipe) for the other pipeline if it is new and is conveying wastewater or reclaimed water.

Reference Florida Administration Code (FAC)
62-555.314 (5) (a & b), 8/28/03

UTILITY CROSSING VERTICAL SEPARATION
DETAIL No.III-24
REVISED SEPT. 2004

NOT TO SCALE

REFRENCE FLORIDA ADMINISTRATION CODE (FAC)
62-555.314 (1)(a,b,c), 8/28/03



NOTES:
1. ABOVE DETAIL IS BASED ON 2" COMBINATION AIR/VACUUM
2. RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES TO BE DETERMINED BY THE ENGINEER AND APPROVED BY THE COUNTY PRIOR TO INSTALLATION.
3. THE MINIMUM DIMENSION FROM ELBOW INVERT TO FINISHED GRADE SHALL BE 4.0 FEET.

OFFSET WASTEWATER AIR RELEASE VALVE
DETAIL No.V-2

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com
MAI ENGINEERING SERVICES, INC.
LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

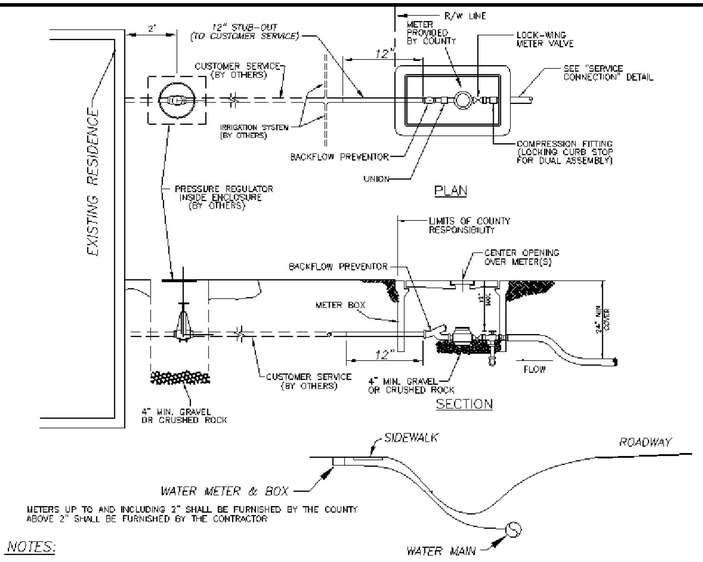
REVISION	1	2	3	4	5

UTILITY DETAILS

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA
PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

SHEET TITLE

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	14



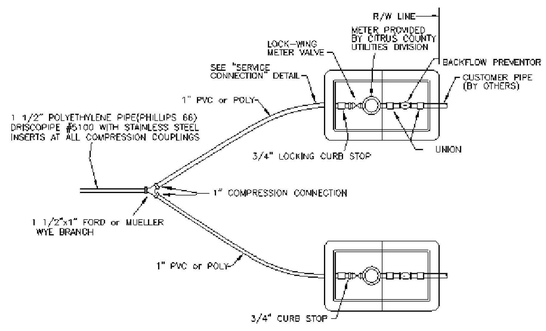
METERS UP TO AND INCLUDING 2" SHALL BE FURNISHED BY THE COUNTY
ABOVE 2" SHALL BE FURNISHED BY THE CONTRACTOR

NOTES:

1. METER BOXES WILL BE SET AT FINISHED GRADE (ALLOWING FOR SOD).
2. THE MINIMUM ELEVATION FROM THE BOTTOM OF THE SWALE TO THE LOW END OF THE METER BOX WILL BE 1 FT.
3. THERE IS TO BE NO STACKING OF METER BOXES. THE SERVICE WILL BE RAISED SO THAT IT FITS INSIDE A SINGLE METER BOX AND NOT BELOW IT.
4. THE BOTTOM OF METERS CANNOT BE SET LOWER THAN THE BOTTOM OF THE METER BOX.
5. MINIMUM 18" COVER OVER WATER LINE SERVICE.
6. IT IS THE RESPONSIBILITY OF THE HOME OWNER TO INSTALL A PRESSURE REGULATOR WITHIN A RECOMMENDED DISTANCE OF 2' OF THE RESIDENCE.
7. THE PRESSURE REGULATOR SHALL BE INSTALLED IN THE SERVICE LINE AFTER ANY CONNECTIONS TO AN IRRIGATION SYSTEM.
8. NO CONNECTIONS OF ANY KIND SHALL BE MADE WITHIN 12" OF THE BACKFLOW DEVICE ON THE CUSTOMER SIDE.
9. THE RPZ(REDUCED PRESSURE BACKFLOW PREVENTION DEVICE) SHOULD BE THE SAME SIZE AS THE METER
10. THE SERVICE LINE SHOULD BE RUN IN A STRAIGHT LINE AND BE PLACED PERPENDICULAR TO THE WATER MAIN LEADING FROM THE WATER MAIN CONNECTION TO THE SERVICE LOCATION ON THE OWNER'S PROPERTY.

RESIDENTIAL SINGLE SERVICE WATER METER DETAIL

DETAIL No.IV-1
REVISED NOV. 2005



PLAN

MATERIAL LIST (DOUBLE SERVICE)

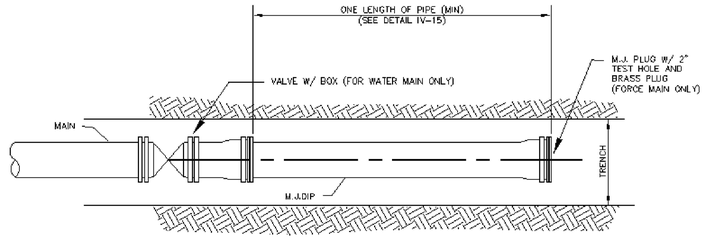
TAP TO BE	1 1/2"
CORPORATION STOP	1 1/2"
POLYETHYLENE PIPE	1 1/2"
WYE	1 1/2"x1"x1"
SERVICE LINE	1"
CURB STOP	1" x 3/4"

NOTES:

1. ALL METERS SHALL BE SUPPLIED BY THE COUNTY IN SIZES 3/4"x5/8" THRU AND INCLUDING 2", EXCEPT AS MAY BE OTHERWISE STIPULATED BY THE UTILITIES DIVISION.
2. SINGLE SERVICE LINES SHALL BE A MINIMUM OF 1' FROM THE TAPPING SADDLE TO THE CURB-STOP
3. DUAL SERVICE LINES SHALL BE A MINIMUM OF 1 1/2' FROM THE TAPPING SADDLE TO THE CURB-STOP
4. ALL COMMERCIAL/INDUSTRIAL SERVICE LINES SHALL BE A MINIMUM OF 2' FROM THE TAPPING SADDLE TO THE CURB-STOP.
5. METERS SHOWN ON DETAIL No.IV-1 (SINGLE SERVICES) ALSO APPLY TO DOUBLE SERVICES.
6. THE RPZ(REDUCED PRESSURE BACKFLOW PREVENTION DEVICE) SHOULD BE THE SAME SIZE AS THE METER
7. THE 1 1/2" SERVICE LINE SHOULD BE RUN IN A STRAIGHT LINE AND BE PLACED PERPENDICULAR TO THE WATER MAIN LEADING FROM THE WATER MAIN CONNECTION TO THE SERVICE LINE WYE BRANCH.

RESIDENTIAL DOUBLE SERVICE WATER METER DETAIL

DETAIL No.IV-2
REVISED NOV. 2005



PLAN

NOTES:

1. TERMINAL END SHALL BE MECHANICALLY RESTRAINED. THE NUMBER OF PIPE LENGTHS TO BE RESTRAINED SHALL BE BASED ON THE ENGINEERS DESIGN AND/OR CITRUS COUNTY U.D. REQUIREMENTS. SEE DETAIL IV-15 FOR LENGTHS OF PIPE TO BE RESTRAINED.
2. BLOW OFF CONNECTION IS REQUIRED ON ALL WATER MAIN TERMINAL ENDS. SEE TERMINAL END BLOWOFF DETAIL.

TERMINAL END DETAIL

DETAIL No.IV-8
REVISED DECEMBER 2004

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

	REVISION
1	
2	
3	
4	
5	

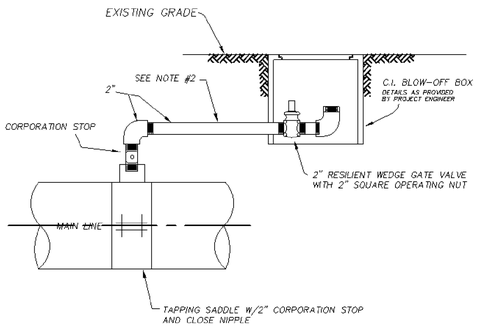
UTILITY DETAILS

SHEET TITLE

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA

PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	15



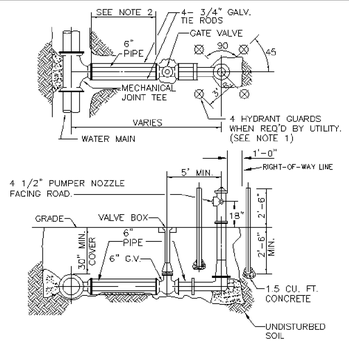
NOTE:

1. LOCATION OF TAP AND BLOW-OFF BOX SHALL BE PROVIDED BY THE PROJECT ENGINEER IN THE FIELD AND AS MAY OTHERWISE BE SHOWN ON THE PLANS.
2. ALL PIPE AND FITTINGS TO BE BRASS.

MANUAL AIR RELEASE AND BLOW-OFF DETAIL

DETAIL No.IV-9 N.T.S.

REVISED NOV. 2004



*** HYDRANT ISOLATION VALVE SHALL BE SECURED TO HYDRANT TEE WITH TIE-RODS.**

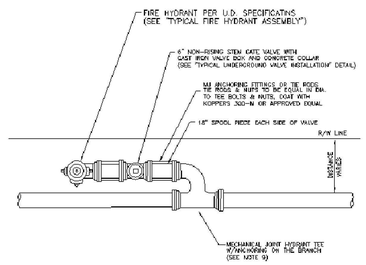
NOTE:

1. HYDRANT GUARDS MAY BE 4" DIA. GALV. STEEL PIPE FILLED W/ CONCRETE. PAINT GUARDS TRAFFIC YELLOW. GUARDS MAY BE OMITTED WHEN HYDRANT IS INSTALLED BEHIND CURBS OR SIDEWALKS. (WHEN NOT ADJACENT TO DRIVEWAYS)
2. TIE RODS MAY BE OMITTED WHEN OTHER APPROVED METHODS OF RESTRAINING ARE UTILIZED
3. CENTER NUT OF THE PUMPER NOZZLE SHALL BE 18" ABOVE SURROUNDING GRADE.
4. COAT TIE RODS WITH COAL TAR ENAMEL AFTER ASSEMBLY (2 COATS MIN.)
5. ALL HYDRANTS SHALL BE CLOW MEDALLION, W/5 1/4" MAIN BODY VALVE.
6. FIRE HYDRANTS SHALL BE FACTORY PAINTED FEDERAL SAFETY YELLOW.
7. BLUE REFLECTIVE PAVEMENT MARKER SHALL BE PLACED ON THE NEAREST ADJACENT LANE OF PAVEMENT TO INDICATE HYDRANT LOCATION.
8. HYDRANTS SHALL NOT BE LOCATED IN SIDEWALKS.
9. ALL HYDRANTS SHALL BE FURNISHED WITH A 4 1/2" PUMPER NOZZLE AND 2 - 2 1/2" HOSE NOZZLES.
10. HYDRANT VALVES ARE RESILIENT WEDGE.
11. VALVE BOXES ARE 3-PIECE.

FIRE HYDRANT DETAIL

DETAIL No.IV-11

REVISED NOV. 2004

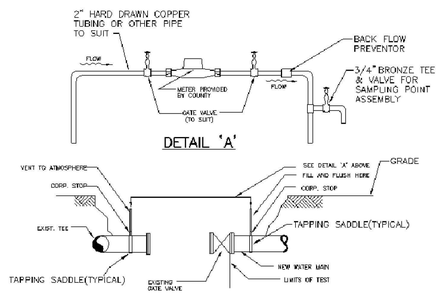


NOTES

1. HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
2. THE MODEL AND COLOR HYDRANT SHALL BE PER U.D. REQUIREMENTS.
3. VALVE SHALL BE PLACED ADJACENT TO MAIN, TIED TO TEE.
4. MECHANICAL JOINT ANCHORING FITTINGS ARE ALLOWED.
5. ALL HYDRANTS SHALL BE TEE'D OFF OF MAINS.
6. HYDRANTS SHALL NOT BE PLACED IN SIDEWALKS, ROADWAYS OR BIKEPATHS.
7. ALL JOINTS TO BE MECHANICALLY RESTRAINED.
8. A MECHANICAL JOINT (MJ) ANCHORING TEE AND ELBOW CAN BE USED IN PLACE OF A MJ HYDRANT TEE.

FIRE HYDRANT INSTALLATION WITH HYDRANT TEE

DETAIL No.IV-13



NOTES:

1. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN COMPLETED.
2. CONTRACTORS MUST CALL COUNTY UTILITY DIVISION 352-527-7650 BEFORE FLUSHING WATER LINES OR FIRE HYDRANTS.
3. ALL WATER USED FOR FILLING, FLUSHING AND TESTING SHALL BE METERED AND PAID FOR IN ACCORDANCE WITH PUBLISHED WATER USAGE CHARGES
4. WATER LINES TO BE CLEANED WITH A SOFT PIG. CONTRACTOR TO REIMBURSE THE COUNTY FOR RETAKING AND REPROCESSING WATER SAMPLES FOR FAILED TESTS.
5. REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW MAIN.
6. WHERE A TAPPING SADDLE & VALVE(WET TAP) IS PROPOSED OFF AN EXISTING WATER MAIN, USE A BLIND FLANGE TAPPED 2" FOR EXTENDING THE FILLING and FLUSHING ASSEMBLY.

FILLING & FLUSHING CONNECTION

DETAIL No.IV-14

TABLE SHOWING MINIMUM LENGTH OF PIPE EACH WAY FROM FITTING OR DEAD-END FOR WHICH RESTRAINT IS REQUIRED.

FITTING:	DEAD-END	TEE	90°BEND	45°BEND	22-1/2°BEND	11-1/4°BEND
PIPE SIZE:						
6	18'	18'	18'	18'	18'	18'
8	18'	18'	18'	18'	18'	18
10	21.5'	21.5'	21.5'	18'	18'	'18'
12	25.2'	25.2'	25.2'	18'	18'	18'
14	28.8'	28.8'	28.8'	18'	18'	18'
16	32.4'	32.4'	32.4'	18.75'	18'	18'
18	35.85'	35.85'	35.85'	20.55'	18'	18'
20	39.3'	39.3'	39.3'	22.5'	18'	18'
24	45.9'	45.9'	45.9'	25.95'	18'	18'
30	55.05'	55.05'	55.05'	30.75'	18'	18'
36	63.75'	63.75'	63.75'	35.25'	19.35'	18'
42	71.7'	71.7'	71.7'	39.3'	21.45'	18'
48	79.35'	79.35'	79.35'	43.05'	23.25'	18'
54	86.55'	86.55'	86.55'	46.5'	25.05'	18'

TABLE APPLIES TO DUCTILE IRON PIPE @ 150 P.S.I.G. TEST PRESSURE IN SAND WITH THREE FEET OF COVER OVER PIPE.
LENGTHS TO RIGHT OF HEAVY LINE INDICATE 1 FULL LENGTH (18' MIN.) OF PIPE TO BE RESTRAINED.

NOTE: RESTRAINT JOINT SCHEDULE FOR PVC PIPE IS SHOWN IN VII SUB-SECTION 350, PAGE 13.

SCHEDULE OF LENGTHS OF RESTRAINED PIPE

DETAIL No.IV-15

2510 US 1 SOUTH SUITE D
ST. AUGUSTINE, FL 32086
PHONE (904)794-1760
FAX (904)794-1768
quoc@maiengineer.com

MAI ENGINEERING SERVICES, INC.

LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#28162

REVISIONS

	1	2	3	4	5
REVISION					

UTILITY DETAILS

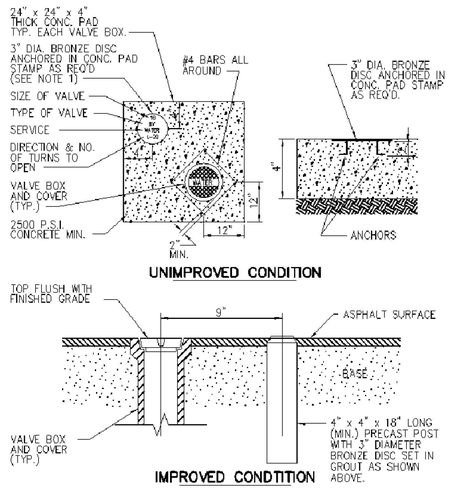
SHEET TITLE

LUCKY RANCH TRAIL

CITRUS COUNTY, FLORIDA

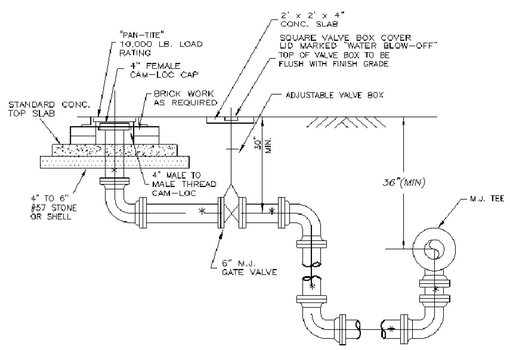
PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	16



NOTES:
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES 4" AND LARGER, OR AS REQUIRED BY THE U.D. FOR CRITICAL OFFSITE VALVES.
2. VALVE COLLAR DIMENSIONS MAY BE REDUCED TO 18"X 18" X 4" WHEN THE BRONZE IDENTIFICATION DISC IS NOT REQUIRED (AS DETERMINED BY THE COUNTY).

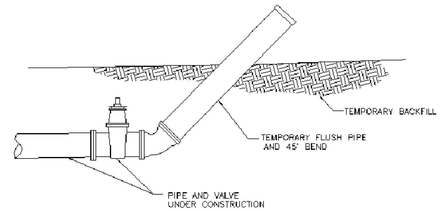
VALVE AND COLLAR DETAIL
DETAIL No.IV–17



NOTE: RESTRAINED JOINTS FOR ALL 6" PIPES

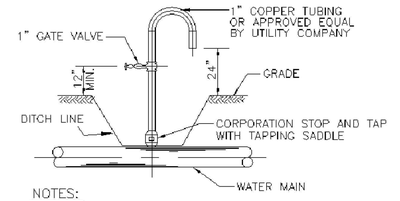
* 6" DIA. CONNECTING PIECE WITH INTEGRALLY CAST M.J. GLAND ON ONE END – P.I. ROTATABLE M.J. GLAND ON OTHER END.

IN LINE BLOW–OFF DETAIL
DETAIL No.IV–19



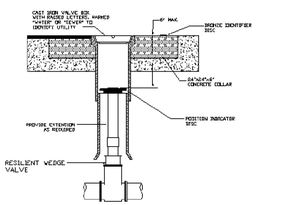
NOTES:
1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE. MAINS MAY BE EITHER TEMPORARILY LAID ABOVE GROUND OR TEMPORARY FITTINGS, PIPE, ETC. MAY BE USED TO FACILITATE CANNON FLUSHING.
2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE CARE SO AS NOT TO ENSURE THAT THE WATER USED IN FLUSHING DOES CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE U.D. INSPECTOR OF SUCH INTENDED WATER USE.
5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED U.D. PERSONNEL.
6. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE U.D. INSPECTOR.
7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
8. ALL PIPING SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH U.D. STANDARDS. THE NUMBER OF PIPE LENGTHS TO BE RESTRAINED SHALL BE PER MANUFACTURES RECOMMENDATION.
9. SEE SPECIFICATIONS, SECTION VII, SUB–SECTION 350, ARTICLE 3.6.1.2.

CANNON FLUSHING DETAIL
DETAIL No.IV–20

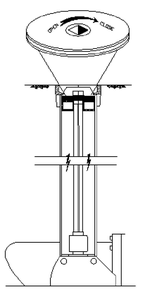


NOTES:
1. SAMPLE POINTS SHALL BE LOCATED AND LATER REMOVED AND BACKFILLED AS REQUIRED BY HEALTH DEPARTMENT
2. A CORPORATION STOP SHALL BE INSTALLED WITH A LENGTH OF 1" COPPER TUBING EXTENDED ABOVE THE GROUND. THE TUBING SHALL BE INSTALLED WITH A 180° BEND.
3. A REPRESENTATIVE OF THE UTILITIES DEPT. MUST BE AT THE CHLORINATION AND 24 HOURS LATER TO CHECK RESIDUAL CHLORINE IN THE LINE.

BACTERIOLOGICAL SAMPLING POINT
DETAIL No. IV–21

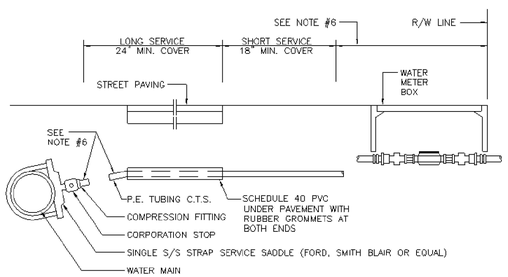


NOTES:
1. CONCRETE COLLAR TO BE PLACED AT GRADE EXCEPT IN PAVED AREAS.
2. WHITE REFLECTIVE PAVEMENT MARKER SHALL BE PLACED ON THE NEAREST ADJACENT LANE OF PAVEMENT TO INDICATE VALVE LOCATION.
3. VALVE TO HAVE POSITION INDICATOR TO SHOW NUMBER AND DIRECTION OF TURN. (SEE DETAIL THIS SHEET).
4. VALVES LOCATED AT END OF LINES ARE TO BE RESTRAINED.
5. COVER TO BE PAINTED BLUE FOR WATER AND GREEN FOR SEWER.
6. VALVE BOX SHALL BE 3 PIECE TYPE AS MANUFACTURED BY TYLER UNION



GROUND LEVEL POSITION INDICATOR

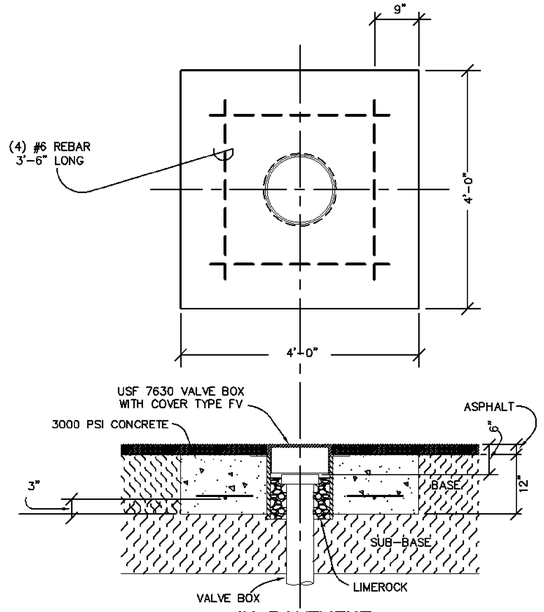
VALVE & BOX DETAIL
DETAIL No.IV–16



NOTES:
1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" APART ON CENTER AND MINIMUM OF 18" FROM JOINTS AND FITTINGS.
2. SERVICE PIPE SHALL BE THE SAME SIZE AS THE WATER METER USED EXCEPT THAT NO SERVICE PIPE SHALL BE SMALLER THAN 1".
3. CASING PIPE SHALL HAVE A DIAMETER AT LEAST 1" GREATER THAN SERVICE LINE DIAMETER.
4. ALL CASING PIPE SHALL EXTEND A MIN. OF 2' BEYOND THE EDGE OF PAVED STREETS.
5. WATER SERVICE TO BE P.E. CONFORMING TO A.S.T.M. 3408, ENDOT INDUSTRIES, INC. "ENDOPURE", OR EQUAL.
6. FOR 1" SERVICE LINES, THE MINIMUM RADIUS SHALL BE 14', FOR ALL OTHER SERVICE LINES, THE MINIMUM RADIUS SHALL BE 21'.

WATER MAIN SERVICE CONNECTION DETAIL
DETAIL No. IV–22 N.T.S.

REVISED NOV. 2005



IN PAVEMENT VALVE BOX DETAIL
DETAIL No. IV–23 N.T.S.

FEBRUARY 05, 2007

SHT NO.
DT–8

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REVISIONS

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UTILITY DETAILS

SHEET TITLE

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA
PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	17

STORM WATER POLLUTION PREVENTION PLAN

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:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCES, SYNTHETIC BALES AND OTHER EROSION/SEDIMENTATION CONTROLS AS REQUIRED.
3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN IF REQUIRED.
4. CONSTRUCT SEDIMENTATION BASIN IF REQUIRED.
5. CONTINUE CLEARING AND GRUBBING.
6. STOCK PILE TOP SOIL IF REQUIRED.
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.
8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.
9. INSTALL STORM SEWER, WATER, SEWER AND IRRIGATION.
10. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
11. REMOVE ACCUMULATED SEDIMENT FROM BASIN.
12. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.

TIMING OF CONTROLS / MEASURES

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 ANY 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 WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE CLEARING AND EROSION CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE PLANS. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE PLANS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWNG BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE PLANS AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

STABILIZED CONSTRUCTION ENTRANCE:

1. 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:

1. 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.
   - 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 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.
2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   - F. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   - G. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
   - H. REFER TO THE DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.
3. 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.
4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT–FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO THE DETAILS.
5. 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.
6. 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 DEPOSIT OF SEDIMENTS.
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF–SITE SHALL BE PROTECTED FROM SEDIMENT–LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE–EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 7 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDRO MULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX AND AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.
11. TEMPORARY REGRASSING: IF AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG–TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES:

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT–TRAPPING FACILITY AND IT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
   - 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.
3. 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.
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL:

WASTE MATERIALS:
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 EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY–TO–DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE:
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY–TO–DAY OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE:
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING:
A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

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.

- 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.
- TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
- 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 RETAINED 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.
- THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- 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.

NON–STORM WATER DISCHARGES:

IT IS EXPECTED THAT THE FOLLOWING NON–STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- WATER FROM WATER LINE FLUSHING.
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
- UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

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.

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.

GENERAL:

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- 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.

HAZARDOUS PRODUCTS:

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.
- 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:

PETROLEUM PRODUCTS:
ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE 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 ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:
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 COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS:
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:
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, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

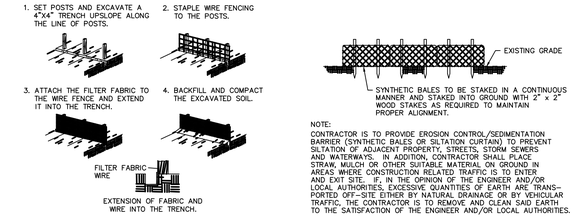
ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

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 SPILL 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.



SILT FENCE CONSTRUCTION
N.T.S.

SEDIMENT BARRIER
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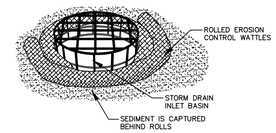
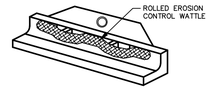
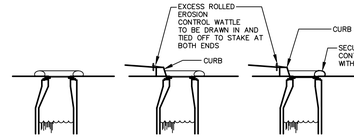


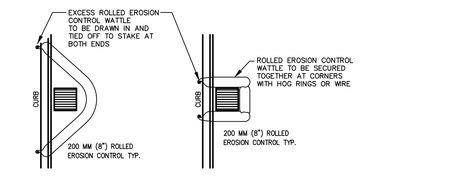
INLET PROTECTION FOR DROP INLETS OR MANHOLES



SEDIMENT BARRIER FOR CURB SIDE INLET



SECTION



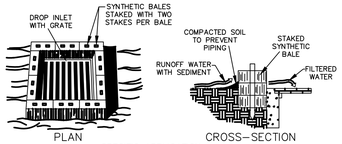
CATCHBASIN OPTION "A"
(TO BE USED UNLESS OPTION "B" IS NECESSARY DUE TO CONDITIONS)

CATCHBASIN OPTION "B"
(FOR USE IN TIGHTER AREAS, NARROW ROADS, ETC.)

PLAN

NOTES
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. SECURE ROLLED EROSION CONTROL PRODUCT TO GROUND AT EACH END.
3. ROLLS SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT STORM EVENT TO CLEAR AND DISPOSE OF SEDIMENT AND DEBRIS.
4. USE 12" DIAMETER, 20' LONG WATTLE ROLLS FOR STANDARD CIRCULAR DRAINAGE STRUCTURES. PLACE THE ROLL AROUND THE STRUCTURE AND JOIN THE ENDS TOGETHER WITH HOG RINGS OR WIRE. USE 2"x2"x24" WOODEN WEDGES TO HOLD DOWN WATTLE ROLLS.

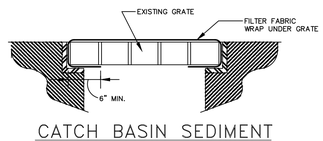
ROLLED EROSION AND SEDIMENTATION CONTROL PRODUCTS
N.T.S.



PLAN CROSS–SECTION

SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS ARE TYPICAL.

SYNTHETIC BALE DROP INLET SEDIMENT FILTER
N.T.S.



CATCH BASIN SEDIMENT PROTECTION DETAIL
N.T.S.

2510 US 1 SOUTH SUITE D
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MAI ENGINEERING SERVICES, INC.
LICENSED ENGINEER
QUOC H. MAI
FL.#64006 CA#26162

REVISIONS

	DESCRIPTION	DATE
1		
2		
3		
4		
5		

STORMWATER POLLUTION PREVENTION PLAN

LUCKY RANCH TRAIL
CITRUS COUNTY, FLORIDA
PREPARED FOR
FREEDOM CAPITAL ALLIANCE, LLC

SHEET TITLE

DSGN BY:	QHM
DWG BY:	AXA
CHK BY:	QHM
DATE:	12/23/2025
JOB No.:	2375
SHEET No.:	18