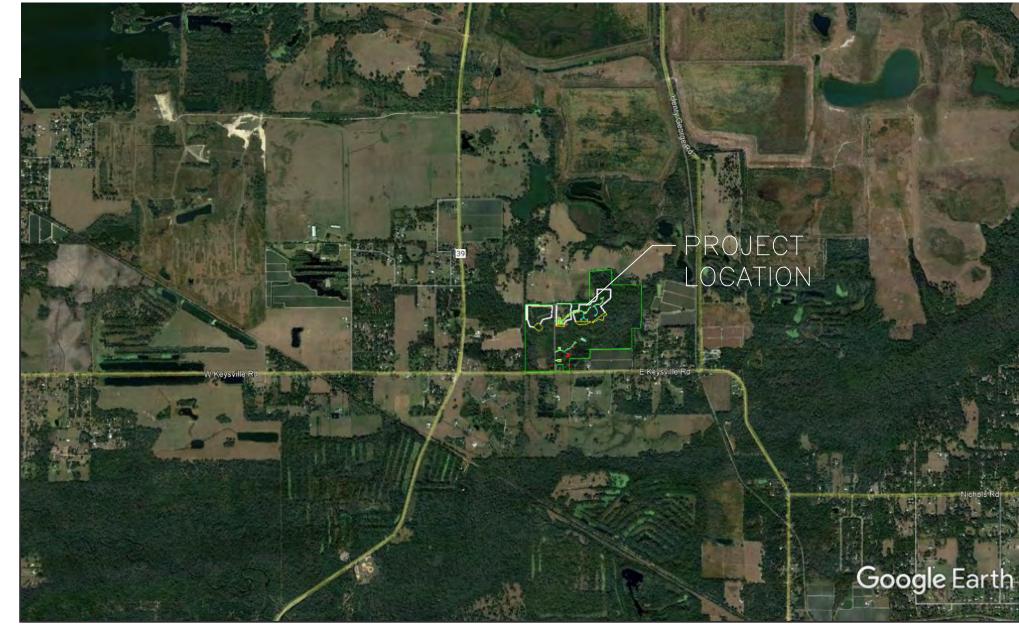
SITE CONSTRUCTION PLANS FOR HUTTOPIA PLANT CITY 8418 LUPTON PLACE PLANT CITY, FL 33567

PARCEL FOLIO NOS.: 093268-0400, 093268-0300, 093282-0400, 093282-02000, 91340-0600, 093142-0000



EXISTING CONDITIONS/DEMOLITION & EROSION CONTROL PLAN ROADWAY TYPICAL SECTION AND DETAILS OVERALL SITE PLAN SECTION SITE PLANS FLOODPLAIN AND WETLANDS MAP SECTION GRADING PLANS UTILITY PLAN SEPTIC PLANS

COVER SHEET

GENERAL NOTES

PREPARED FOR

HUTTOPIA CANADA-USA

911 Jean-Talon Street East Bureau 324 Montreal H2R 1V5 CANADA

PREPARED BY

JIM ZIMIER PETIC

JAMES YANCEY ZINNER, PE FLORIDA LICENSED ENGINEER NO. 44211 FBPE CERTIFICATION OF 32202 1103 NORTH WHEELER STREET, SUITE D PLANT CITY, FL 33563-6878 813-480-8708 jimzinner@gmail.com

JAMES Y. ZINNER, P.E.

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C-4 C-5 C-5A-5E C-7A-7D PAVING, GRADING AND DRAINAGE DETAILS C-8 C-9 C-10 FIRE DEPARTMENT ACCESS C-11 SECTION FIRE DEPARTMENT ACCESS C-11A-11B

STORMWATER CONSTRUCTION WATER SURFACE WATER MANAGEMENT PLAN

093268-0400: COM AT SW COR OF SW $\frac{1}{4}$ OF SECTION 4-30-22 S 89 ° 13 '56 "E 60 FT N 05 ° 30 '16 "E 1810.71 FT TO CENTERLINE OF AN ABANDONED MEANDERING PRIVATE RD N 85 ° 49 '26 "E 547.96 FT S 60 ° 51 '44 "E 715.09 FT S 02 ° 37 '04 "E 185.28 FT S 08 ° 00 '44 "E 160.56 FT N 72 ° 31 '05 "E 414.34 FT N 83 ° 33 '22 "E 236.84 FT S 01 ° 06 '24 "W905.68 FT TO POB N 86 ° 14 '26 "E 669.57 FT S 00 ° 33 '51 "E 472.46 FT S 89 ° 27 '26 "E 907.69 FT S 00 ° 44 '06 "W 751.51 FT S 00 ° 44 '06 "W 363.49 FT N 89 ° 53 MIN15 "W 29.55 FT S 00 ° 26 '29 'W 209.92 FT N 89 ° 41 '13 "W 877.43 FT N 89 ° 43 '14 "W 681.83 FT N 00 ° 43 '46 "E 768.16 FT N 00 ° 38 '41 "E 563.64 FT N 01 ° 06 '24 "E 422.16 FT TO POB

093268-0300: NE $\frac{1}{4}$ OF SE $\frac{1}{4}$ OF NW $\frac{1}{4}$ LESS S 30 FT --- W 597.8 FT OF NW $\frac{1}{4}$ OF SW $\frac{1}{4}$ LESS S 30 FT

093282-0400: BEG AT PT ON NORTH R/W LINE OF KEYSVILLE RD 1680 FT WEST OF SE COR OF WEST $\frac{1}{2}$ OF SE $\frac{1}{4}$ OF NW $\frac{1}{4}$ RUN NORTH 605 FT EAST 570 FT NORTH 1470 FT EAST 1110 FT SOUTH 1680 FT WEST 620 FT SOUTH 64.12 FT S 50 ° 08 '20 "W 123.68 FT S 58 ° 43 '37 "W 135.86 FT NORTH 33.88 FT WEST 210 FT SOUTH 210 FT WEST 630 FT MOL TO POB

093282-0200: TRACT BEG 630 FT W OF SE COR OF W $\frac{1}{2}$ OF SE $\frac{1}{4}$ OF NW /14 AND RUN N 355.88 FT S 50 ° 08 '20 "W 123.68 FT S 58 ° 43 '37 "W 135.86 FT S 206.12 FT AND E 210 FT TO POB

0931440-0600: AS PT OF REF COM AT NW COR OF "9-30-22 S 89 ° 13 '56 "E 60 FT S 00 ° 41 '40 "W 590.05 FT N 90 ° 00 '00 "E 436.35 FT FOR POB CONT N 90 ° 00 '00 "E 435 FT TO PT WHICH LIES 1110 FT W OF E BDRY OF W $\frac{3}{4}$ OF NW $\frac{1}{4}$ OF SD "9 S 00 ° 38 '41 "W 1470 FT S 90 ° 00 '00 "W 570 FT S 00 ° 38 '41 "W 605 FT S 90 ° 00 '00 "W 303.15 FT TO PT LYING 60 FT E OF W BDRY OF NW $\frac{1}{4}$ OF SD "9 N 00 ° 41 '40 "E 685 FT N 90 ° 00 '00 "E 437.56 FT N 00 ° 41 '40 "E 1390 FT TO POB

093142-0000: BEG AT NW COR OF "9 TWN 30 RGE 22 RUN S 89 ° 13 '56 "E 60 FT S 00 ° 41 '40 "W 590.05 FT FOR POB N 90 ° E 436.35 FT S 00 ° 38 '41 "W 1390 FT W 437.56 FT N 00 ° 41 '40 "E 1390 FT TO POB

NO. 44211

C-2

C-3

C-12

CONSTRUCTION NOTES

MISCELLANEOUS

- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMITS AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
- 2 ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- 5. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED PERMITS TO PERFORM WORK IN THE PUBLIC RIGHT—OF—WAY.
- 7. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES BEFORE ORDERING MATERIALS AND CASTING STRUCTURES.
- 8. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. THE LAYOUTS INDICATED IN THE PLANS ARE NOT EXACT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
- 9. ADJUSTMENTS OF INLETS, JUNCTION BOXES, MANHOLE TOPS, WATER VALVES, WATER METERS, ETC. SHALL BE INCLUDED IN THE CONTRACTOR'S BID AND NO CLAIM SHALL BE MADE AGAINST THE OWNER OR ENGINEER FOR THESE ADJUSTMENTS, IF REQUIRED.

SAFETY

- DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED AND APPROVED BY POLK COUNTY PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN THE POLK RIGHT—OF—WAY.
- 3. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- 4. CONTRACTOR SHALL PROVIDE AND MAINTAIN THEIR OWN SAFETY EQUIPMENT IN ACCORDANCE WITH THEIR HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING THEIR EMPLOYEES AND SUBCONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUBCONTRACTORS AND SUBCONTRACTORS' EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- 5. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
- 6. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- 7. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO
 THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC
 CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF

TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

- 8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
- 9. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA AT 811 TO ARRANGE FIELD LOCATIONS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
- 11. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.

SITE PLAN AND COORDINATE GEOMETRY

- 1. CURRENT ZONING: RL-4
- ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
- 3. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.
- 4. REFER TO SURVEYING AND MAPPING FOR HORIZONTAL AND VERTICAL SATUM REFERENCES.

- 5. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
- 6. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS—BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS—BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, LOCATION OF FITTINGS, LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS TOP OF BANK, TOE OF SLOPE AND GRADE BREAK LOCATIONS AND ELEVATIONS FOR POND AND DITCH CONSTRUCTION. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY PURPOSES WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE OWNER'S ENGINEER.

CLEARING/DEMOLITION

- 1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM POLK COUNTY OR THE OWNER.
- THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS
 OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS
 WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER
 APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING
 CONSTRUCTION.
- 3. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON—SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
- 4. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
- 5. CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL, PURSUANT TO ALL FEDERAL, STATE, COUNTY, CITY OR OTHER GOVERNMENT AGENCY REQUIREMENTS, OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITHIN THE NEW FACILITIES.

PAVING AND GRADING

- 1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS TO BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- 3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT
- 4. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- 6. CURBING WILL BE PLACED AT THE EDGE OF PAVEMENT SHOWN ON THE PLANS.
- 7. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURBING AND GUTTERS CALLED FOR IN THESE PLANS.
- 8. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.)
- 9. ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT
 THERMOPLASTIC AND SHALL CONFORM TO F.D.O.T STANDARD INDEX
 NO. 17346, SHEETS 1-7. PARKING STALL STRIPING TO BE 4" WIDE
 PAINTED STRIPES.
- 10. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF—SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
- 11. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
- 12. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. WITHIN THE FDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL STABILIZE THE RIGTH-OF-WAY BY SODDING ONLY.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE
 TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED
 PURSUANT WITH THE TESTING SCHEDULE PER THE POLK COUNTY LAND
 WITH THE TESTING SCHEDULE PER THE POLK COUNTY LAND DEVELOPMENT
 CODE. UPON COMPLETION OF THE WORK, SOILS ENGINEER WILL
 SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL
 REQUIREMENTS HAVE BEEN MET.
- A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COST OF SAID RETESTING.

DRAINAGE

- 1. STANDARD INDEXES REFER TO THE LATEST EDITION OF THE FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM.
- 2. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III
- (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS.
 PIPE LENGTHS SHOWN ARE APPROXIMATE AND MEASURED FROM CENTER TO CENTER OF THE PROPOSED DRAINAGE STRUCTURES OR TO THE CONNECTION OF END WALLS AND MITERED END SECTIONS.

- 4. ALL DRAINAGE STRUCTURE GRATES AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.
- 5. ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION. CONTRACTOR SHALL ONLY INSTALL FDOT APPROVED/STAMPED PIPE IN FDOT RIGHT-OF-WAY.
- 6. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE BY THE OWNER'S ENGINEER.

EXISTING TREE PROTECTION NOTES:

- 1. REQUIRED BARRICADES AND FLAGGING SHALL BE ERECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND POLK COUNTY PRIOR TO COMMENCEMENT OF LAND ALTERATION ACTIVITIES. COMMENCEMENT OF LAND ALTERATION ACTIVITIES. BARRICADES SHALL REMAIN IN PLACE UNTIL ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED.
- 2. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OF TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.

EROSION/TURBIDITY CONTROL NOTES

- 1. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS
 SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT
 EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE
 ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND
 WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
- 2. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
- CONSTRUCTION OPERATIONS IN OR ADJACENT TO WETLANDS SHALL BE RESTRICTED TO THOSE AREAS IDENTIFIED IN THE PLANS AND IN THE SPECIFICATIONS.
- 4. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN THE WETLANDS OR IN A POSITION CLOSE ENOUGH THERETO BE WASHED AWAY BY HIGH WATER OR RUNOFF.
- 5. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE AND ARE NOT LIMITED TO, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS, SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
- THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS SUCH. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.
- 7. THE CONTRACTOR AND/OR OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.
- 8. SILT FENCE SHALL BE LOCATED AT THE PERIMETER OF CONSTRUCTION LIMITS, AS DEFINED BY FIELD CONDITIONS.

SANITARY SEWER

- 1. ALL SANITARY SEWER MAINS, LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- 2. ALL ON SITE P.V.C. GRAVITY SANITARY SEWER PIPE SHALL BE MADE OF MATERIAL HAVING A CELL CLASSIFICATION OF 12454 B, 12454 C OR 13354 B AS DEFINED IN ASTM D-1784 AND CONFORM TO THE REQUIREMENTS OF SDR 26. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED.
- 3 ALL ON SITE DUCTILE IRON PIPE SHALL BE CLASS 52 AND SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8, OR A 21.51.
- 4. POINTS OF CONNECTION FOR THE SANITARY SEWER LINES ARE TO BE COORDINATED WITH THE BUILDING PLUMBING PLANS. SANITARY SERVICE CONNECTION LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE.
- 5. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE AGENCY STANDARDS AND SPECIFICATIONS.
- 6. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES NEAR THE POINT OF CONNECTION AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITH DESIGN INFORMATION SHOWN IN THESE PLANS. CONTRACTOR SHALL NOTIFY ENGINEER AND POLK COUNTYAT LEAST 48 HOURS IN ADVANCE OF SCHEDULED WORK.

WATER DISTRIBUTION

FLUSHING AND DISINFECTION.

- ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
 ALL WATER SYSTEM WORK SHALL CONFORM TO POLK COUNTY STANDARDS AND SPECIFICATIONS
- 3. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.
- 4. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS AT THE END OF WATER SERVICE LATERALS TO BUILDINGS TO ASSURE ADEQUATE
- 5. THRUST BLOCKING SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS AS SHOWN ON DETAILS. ALL JOINTS SHALL BE RESTRAINT JOINT FITTINGS.
- 6. POINTS OF CONNECTION OF THE EXTERNAL WATER LINES ARE TO COINCIDE WITH THE BUILDING PLUMBING AS SHOWN ON THE BUILDING PLUMBING PLANS. CONNECTION LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE.
- CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING AND OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.
- 8. WATER MAIN SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE BURIED ABOVE THE PIPE.

PREPARED FOR PERMITTING

JIM ZINNER PE LLC

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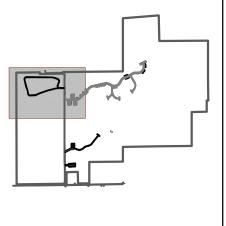
NOTES

PROJECT NAME:

HUTTOPIA
PLANT CITY
CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



Scale:				Designed		
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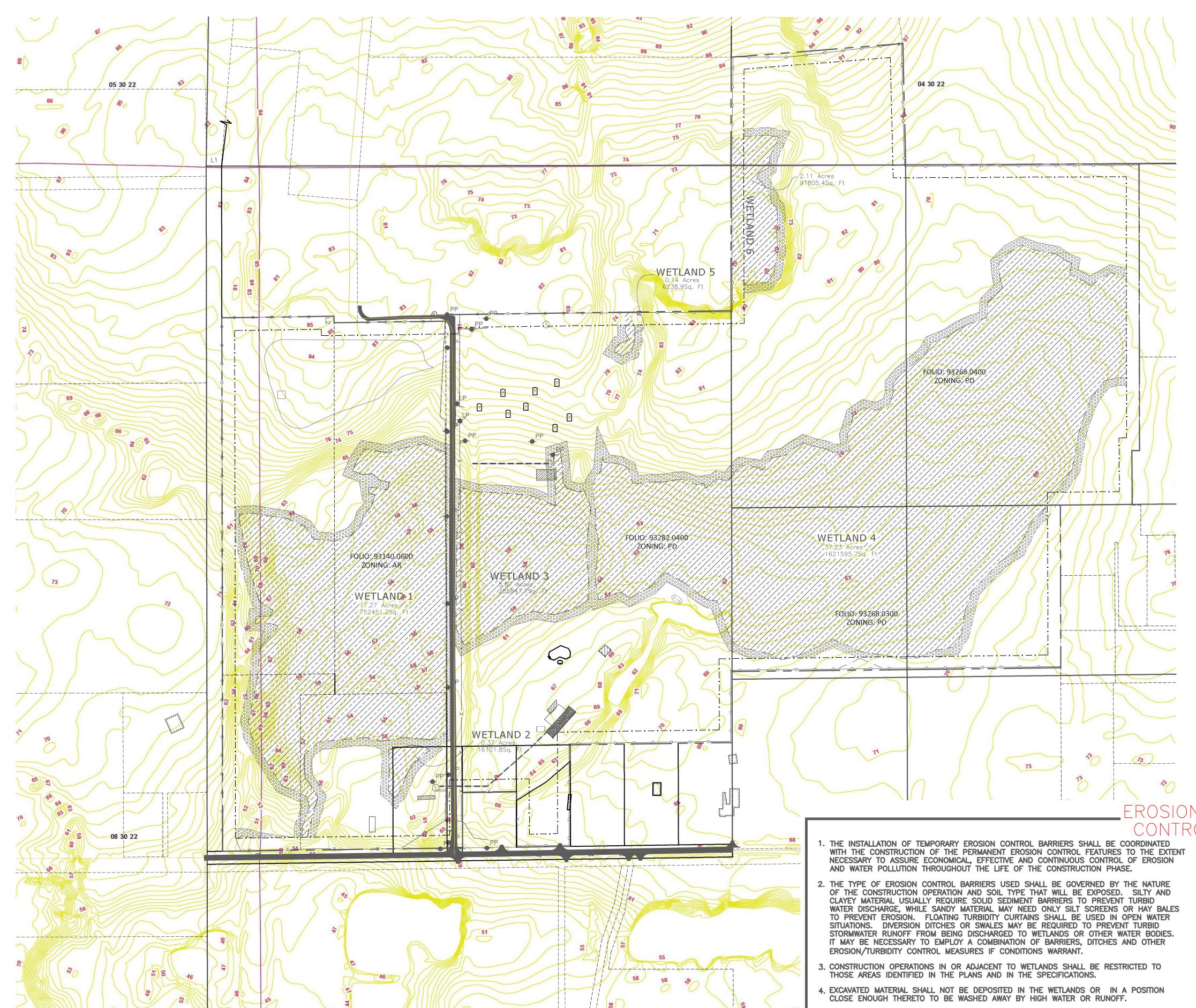


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FACILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO ANY DEMOLITION.

- PRIOR TO THE INITIATION OF SITE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, COMMUNICATION, CABLE TV, SANITARY AND STORM SEWER BOTH ON AND ADJACENT TO THE
- 2. CONTRACTOR TO REMOVE ALL IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION EXCEPT AS NOTED.
- 3. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY OWNERS TO DISCONNECT/RELOCATE THEIR
- 4. SITE SPECIFIC EROSION AND SEDIMENT CONTROL: SILT FENCE TO BE PLACED AROUND THE
- PERIPHERY OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION/DEMOLITION. 5. FUGITIVE DUST EMISSIONS DURING DEMOLITION SHALL BE MAINTAINED TO AN ACCEPTABLE LEVEL BY CONTRACTOR, IN ACCORDANCE WITH THE CONSTRUCTION NOTES AND TESTING
- SCHEDULE, SHEET C-2 6. REMOVE OR CAP ALL UTILITIES TO EXISTING STRUCTURES WHICH ARE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS PRIOR TO MAKING ANY UTILITY
- 7. CONTRACTOR TO DEMOLISH, REMOVE AND DISPOSE OF ALL ASPHALT, CONCRETE, SIDEWALKS, CURBING, BUILDINGS AND BUILDING FOUNDATIONS WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF POLK COUNTY.
- 8. CONTRACTOR TO PROTECT PROPERTY CORNERS DURING DEMOLITION AND CONSTRUCTION
- 9. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS. DEBRIS. SOLVENTS. CONSTRUCTION MATERIAL. MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY POLK

6. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF

UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE

OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT

GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER. AND GRADING OPERATIONS

SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES

MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE

8. SILT FENCE SHALL BE LOCATED AT THE PERIMETER OF CONSTRUCTION LIMITS, AS DEFINED

9. CONTRACTOR SHALL PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM

SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR

AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY

NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID

10. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL

STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE

OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL

CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.

7. THE CONTRACTOR AND/OR OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE

PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.

EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.

BY FIELD CONDITIONS.

METHODS.

WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION

INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS, SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT

TREATMENT METHODS INCLUDE AND ARE NOT LIMITED TO, TURBID WATER BEING PUMPED

AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS.

CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.

MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION

JUNE ZUNUNER PE LLC

CIVIL ENGINEERING SERVICES James Y. Zinner, Professional 1103 North Wheeler Street, Suite D Plant City, Florida 33563 813-480-8708 jimzinner@gmail.com

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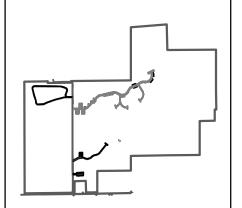
DEMOLITION / **EROSION CONTROL PLAN**

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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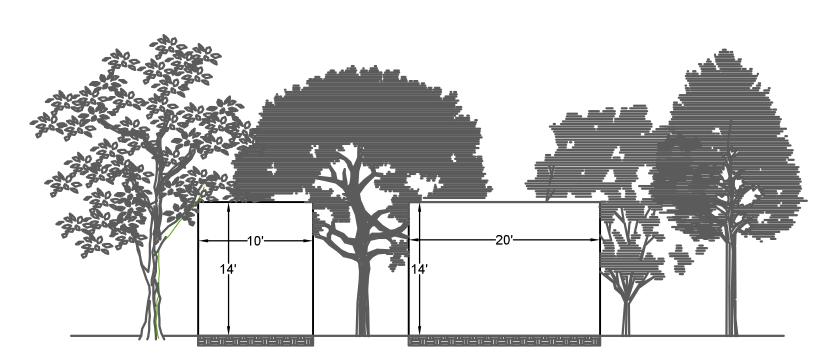
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30' WETLAND BUFFER STABILIZED ACCESS LANES **EXISTING ASPHALT PAVEMENT**

50' PERIMETER SETBACK

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100 YR FLOODPLAIN



TRUEGRID® ROOTTM ONEW PRODUCT

- Advanced Patented Design

- Protects Grass from Rutting - Fast, Easy Installation

SPECIFICATIONS:

Pre-Assembled:

- Strength:

- Material:

- Color:

MORE:

· Permeability:

- Usually Costs Less than Asphalt

24" x 24" x 1.0" (4 sf)

- Only Available Immediate Heavy Load Grass System

- Stabilized Grass Drains. No Runoff.

- 100% Recycled Plastic - Little or No Maintenance - 60-Year Lifespan

Holds up to 10,000 lbs GVW

16 sf per layer (4' x 4' sheet of 4 grids)

100% Post-Consumer Recycled HDPE

Black with UV Stabilizer (Other Colors Available)

THE GRASS PAVER

APPLICATIONS:

& Trucks

& Taxiways

- Event Centers

· Paths & Trails

& Access

- Grass Parking for Cars

Festival Site Protection

- Light Aircraft Runways

- Slope & Scour Protection

· Fairground Turf Support

- RV & Boat Storage

TRUEGRID "ROOT" PAVERS OVER 12" COMPACTED SUBGRADE 60' MINIMUM CENTERLINE RADIUS 8% MAXIMUM GRADE

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JIM ZINNER

1"= 40"

PE LIC

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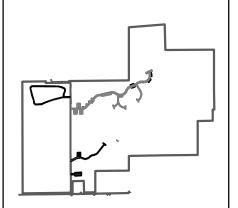
ROADWAY SECTIONS

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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Sheet No. C-4

Name	Number of accomodations			
Trappeur duo ADA tent	2			
Trappeur family Florida tent	55			
Subtotal Phase 1	57			
Canadienne Florida tent	10	PHASE 1 (2022)		
Liberty ADA cabin	6	57 TENTS, ALL ACCESS ROADS AND PARKING.	100° C	
Vista cabin	25	ALL SEWER, WATER AND POWER. ALL STORM		
Toronto cabin	22	WATER MANAGEMENT SYSTEMS. SWIMMING POOL, SEMINAR TENT AND STAFF HOUSING.		
Subtotal Phase 2	63	RENOVATION OF EXISTING PAVILLION.		
TOTAL	120	PHASE 2 (2023)		
	PH2	10 TENTS, 1 BATH HOUSE AND 53 CABINS.	PH2	
				NECT TO EXISTING POLK COUNTY WASTEWATER AND WATER SERVICES.
			2. THE PROPUSED ACTIVITY REGULATIONS (LATEST EDITI MANAGEMENT REGULATIONS	S SHALL COMPLY WITH THE POLK COUNTY DEVELOPMENT ON) INCLUDING THE TREE AND LANDSCAPE CODE, STORM WATER AND FIRE CODES AT THE TIME OF PERMITTING.
				IDED AND BUILT IN ACCORDANCE WITH THE POLK COUNTY LAND (LATEST EDITION). ALL PROPOSED SIDEWALKS SHALL MEET ADA
			DEVELOPMENT REGULATIONS REQUIREMENTS.	(LAIESI EDITION). ALL PROPOSED SIDEWALKS SHALL MEET ADA
			4. BUFFERING AND SCREEN CODE.	ING SHALL BE PROVIDED IN ACCORDANCE WITH THE LAND DEVELOPMENT
				HT SHALL BE AS SHOWN, EXCLUDING UNIQUE ARCHITECTURAL FEATURES.
			6. ALL SITE LIGHTING SHAL POLK COUNTY LAND DEVEL	L BE PLACED BELOW ROOF LEVEL UNLESS OTHERWISE REQUIRED BY THE
			7. TRAFFIC SIGNAGE SHALL	BE PER POLK COUNTY LAND DEVELOPMENT CODE AND FDOT
			CODE REQUIREMENTS.	
				ANCE OF THE STORMWATER AREAS PERFORMED BY THE PRIVATE OWNER.
D' PERIMETER SETBACK				DESIGNED FOR EMERGENCY AND PARATRANSIT VEHICLES. N SHALL BE VIA CURB SIDE PICK UP.

50' PERIMETER SETBACK

100 YR FLOODPLAIN

30' WETLAND BUFFER

STABILIZED ACCESS LANES

EXISTING ASPHALT PAVEMENT

Tue, 01 Mar 2022 - 8:58am C:\Users\pc1\Desktop\Energy Calcs\Huttopia\3-1.dwg pc1

SITE INFORMATION

1) PROPERTY LOCATION:

County Road 39

SECTION TOWNSHIP RANGE: SEC 09 – T30S – R22E

PROJECT AREA: 37 AC (AREA OF DISTURBED AREA)

PROPOSED LAND USE: CAMPGROUND (130 CAMPSITES)

ZONING JURISDICTION: HILLSBOROUGH COUNTY

93282.0200

EVENT RANCH)

ADJACENT ZONINGS: NORTH: AR, PD 82-0223 SOUTH: AS-1, PD 82-0223 EAST: AR, AS-1, PD 82-0223

3) OWNER/ APPLICANT:

OWNER: LUPTON REAL ESTATE ALAFIA LLC

HUTTOPIA NORTH AMERICA PROPERTIES, INC. 297 RUE MAPLE, SUTTON QC J0E2KO, CANADA

5) ARCHITECTURAL PROVIDED BY:

1103 N. WHEELER STREET, SUITE E

6) SITE ENGINEERING PROVIDED BY:

1103 N. WHEELER STREET, SUITE D

PLANT CITY, FLORIDA 33563

PLANT CITY, FLORIDA 33563

7) BUILDING SETBACKS:

50' FROM PD BOUNDARY

8) BUFFERING SCREENING:

COUNTY, FLORIDA

10) UTILITIES PROVIDED BY:

STORM WATER – ONSITE

13) PARKING SPACES:

TOTAL PROVIDED

14) BUILDING DATA:

EXISTING AREAS:

PROPOSED AREAS:

POND AREA

11. THERE ARE WETLANDS AREAS WITHIN THE PROJECT BOUNDARIES.

12. ALL SIGNAGE SHALL COMPLY WITH THE POLK COUNTY SIGNAGE CODES.

13. ALL BUILDING CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE, LATEST EDITION.

14. ALL EASEMENTS SHALL BE DEDICATED TO THE APPROPRIATE ENTITY AND ALL ROADS AND

15) AREA INFORMATION:

BLDG. HEIGHT 30' MAX. (2-STORY)

SITE = 159.96 AC = 6,967,684 SF

PROJECT AREA = 36.82 AC = 1,604,000 SF

TOTAL IMPERVIOUS AREA = 1.3 AC = 56,440 SF

TOTAL PERVIOUS AREA = 158.6 AC = 6,911,244 SF

TOTAL IMPERVIOUS AREA = 6.47 AC = 281,900 SF TOTAL PERVIOUS AREA = 153.5 AC = 6,685,784 SF

FLOOR AREA RATIO = 1.77 AC / 153.48 AC = 1.1%

CALLED OUT ON SITE PLAN

TELEPHONE – FRONTIER FLORIDA LLC

11) ALL MECHANICAL EQUIPMENT IS TO BE SCREENED

REGULAR SPACES (9'x18') 118 SPACES PROVIDED ADA SPACES (12'x18') 9 SPACES PROVIDED

WEST: AR, AS-1

4) APPLICANT:

PH: (438) 873-9793

ARCHITECHNICAL, INC.

PH: (813) 312-2455

JAMES ZINNER PE LLC

PH: (813) 480-8708

9) FLOODPLAIN:

ELECTRIC - TECO

COMBINED PARCEL SIZE: 159.96 AC

EXISTING ZONING: PD 21-0422

8418 Lupton Place, Plant City, North side of E. Keysville Road, ½ MILE east of

FOLIO NO. 093268.0400, 093282.040, 093268.0300, 093140.0600, 093142.0000,

EXISTING LAND USE: FORMER SPECIAL EVENT VENUE (LUBTON'S BOGGY BOTTOM

2) SPECIAL ZONE(S): WELLHEAD PROTECTION, PUBLIC POTABLE WATER SUPPLY

50' NATURAL BUFFER/CURRENT NATURAL SCREENING EXCEPT WHERE FENCING IS

ZONE X, A, FIRM MAP NUMBER 12057C0440H, AUGUST 28, 2008 HILLSBOROUGH

DOMESTIC WATER / FIRE – ONSITE WELL AND STORAGE TANK FOR FIRE IF

SANITARY SEWER - ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

12) TRANSFORMER LOCATIONS SHALL BE COORDINATED WITH TECO.

127 SPACES

DWELLING: 1 SPACES PER CAMPING LOCATON = 1 X 119 SPACES REQUIRED

= 2.9 AC = 126,000 SF

WELL, PROTECTION ZONE 2, SIGNIFICANT WILDLIFE HABITAT

NORTH JIM ZINNER 1"= 200'

Pe llc

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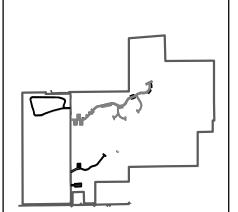
OVERALL SITE

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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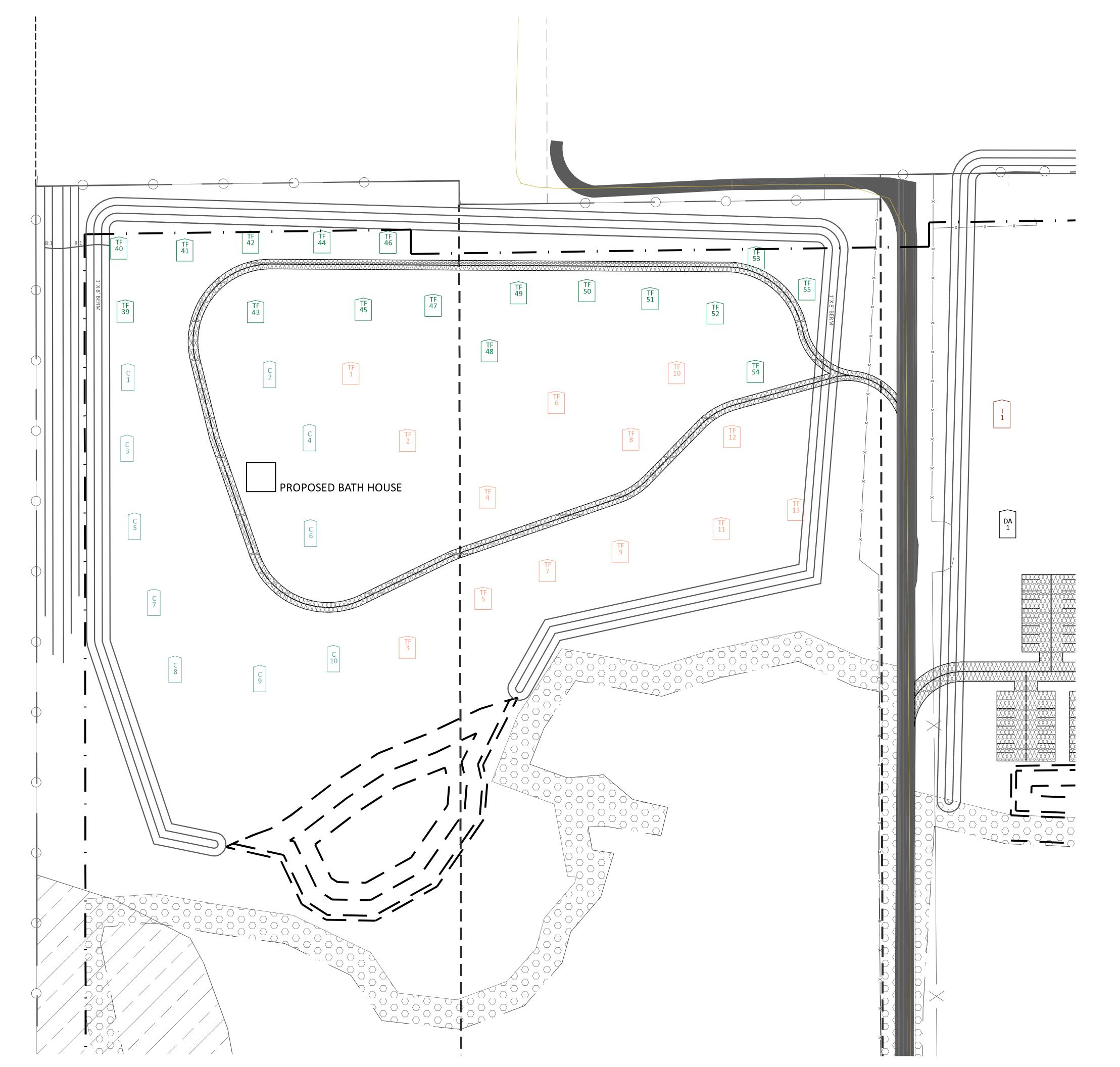


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50' PERIMETER SETBACK 100 YR FLOODPLAIN 30' WETLAND BUFFER STABILIZED ACCESS LANES **EXISTING ASPHALT PAVEMENT**

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OPTH JIM ZINNER

1"= 50"

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813-480-8708
jimzinner@gmail.com

SHEET NAME:

SECTION A SITE PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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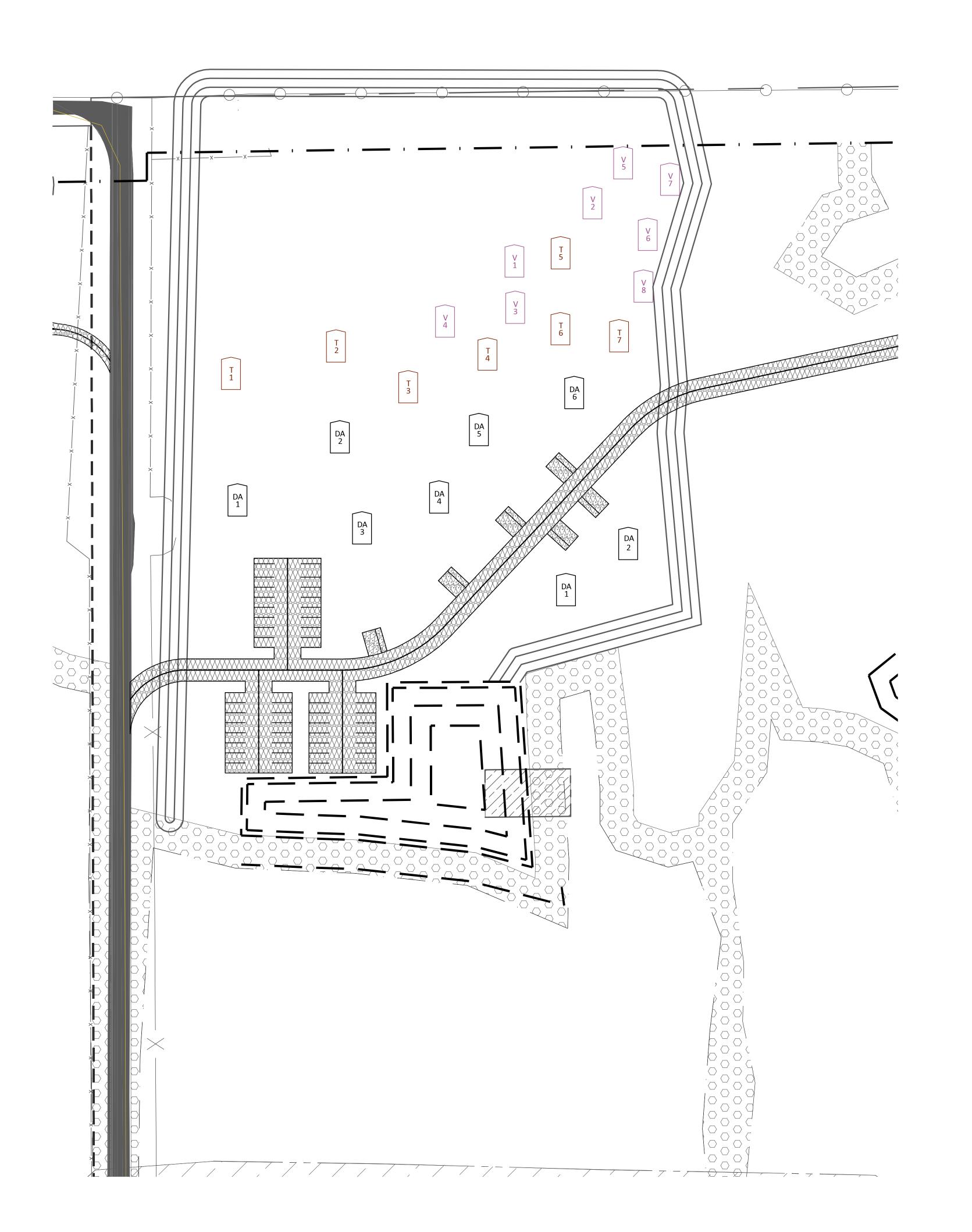


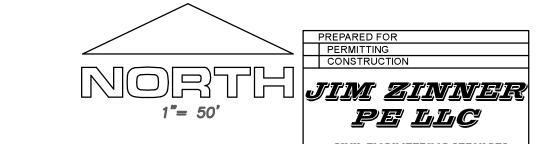
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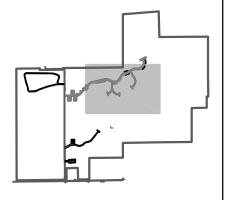
SECTION B SITE PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

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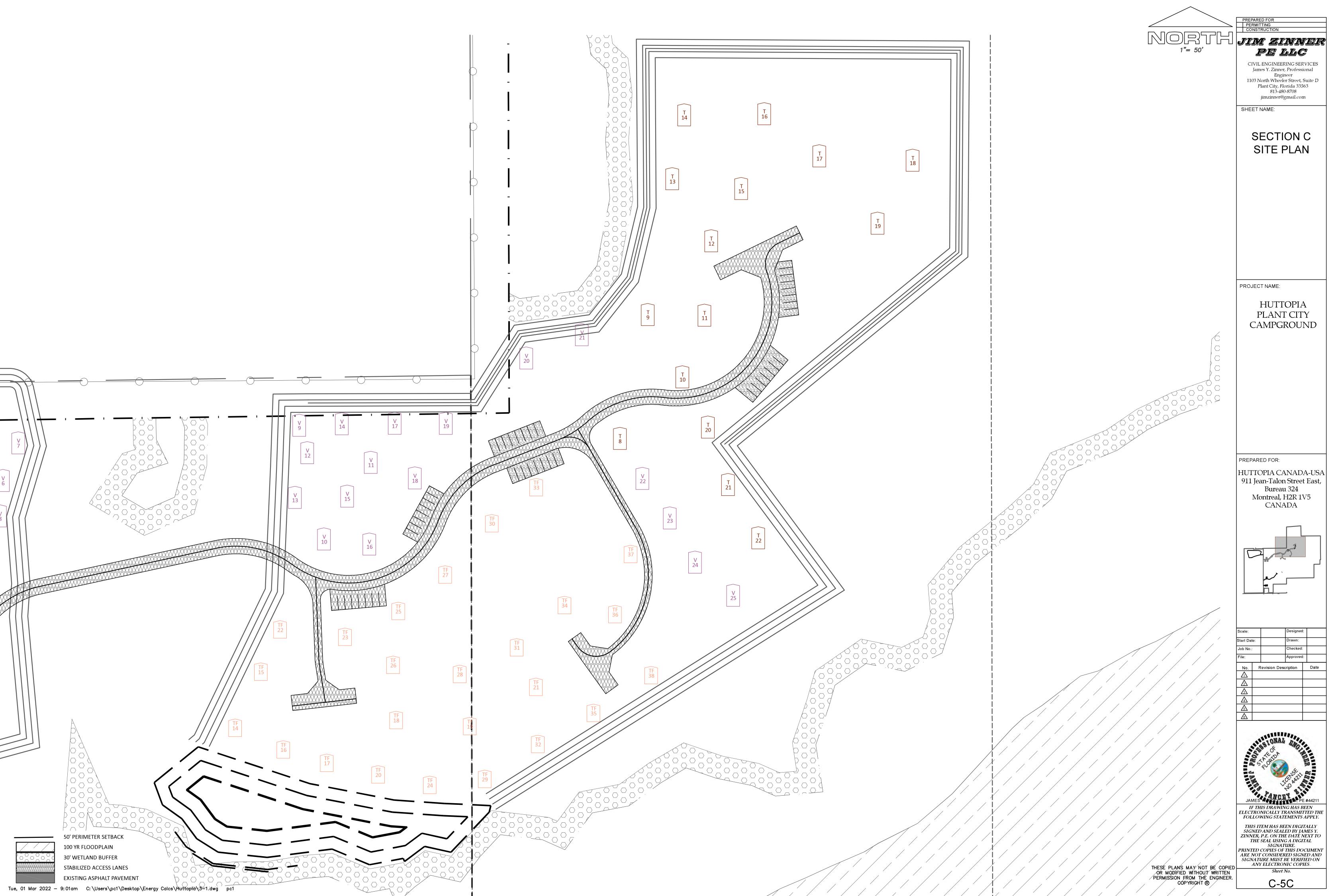
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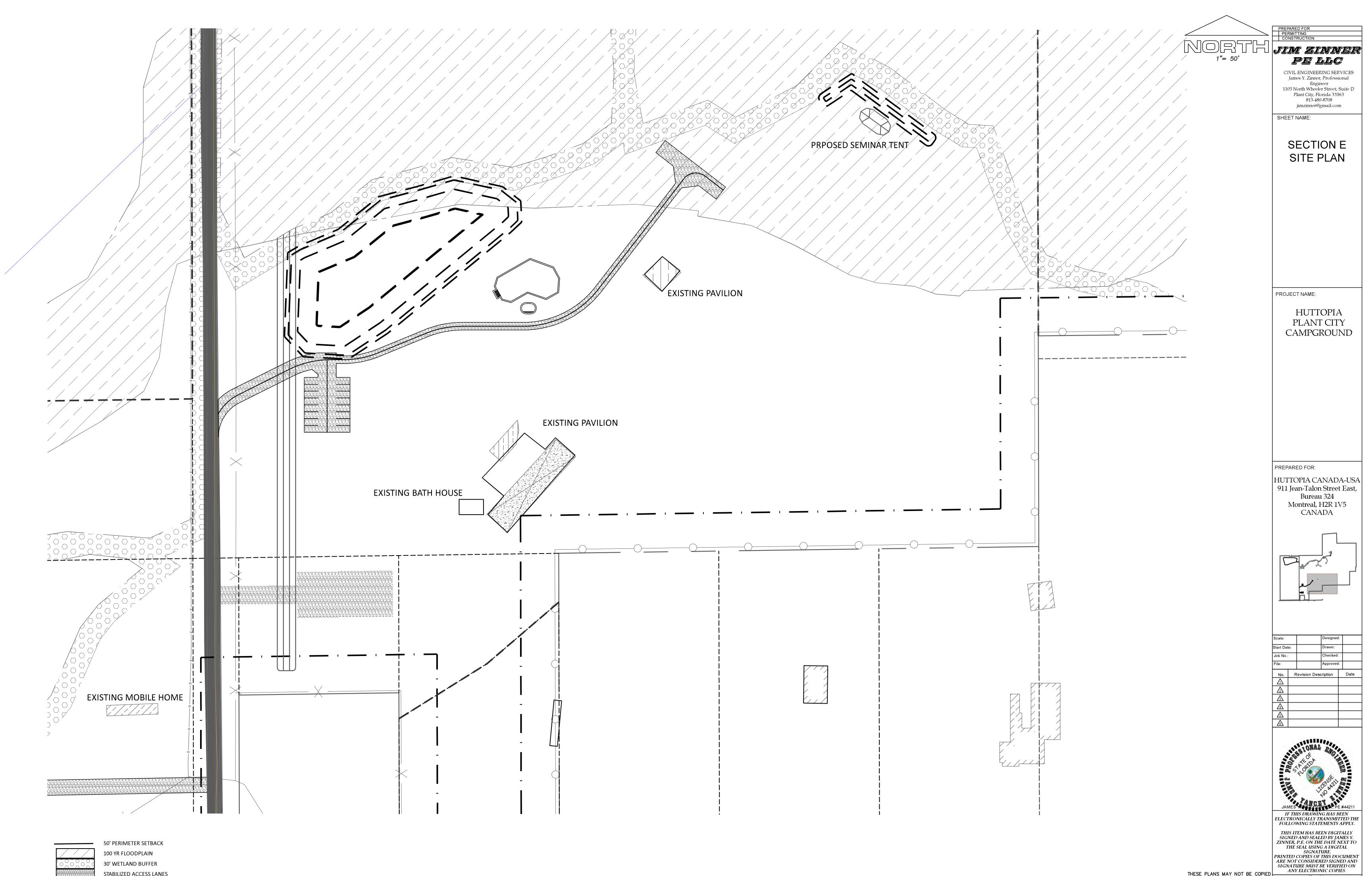
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50' PERIMETER SETBACK 100 YR FLOODPLAIN 30' WETLAND BUFFER STABILIZED ACCESS LANES EXISTING ASPHALT PAVEMENT

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STABILIZED ACCESS LANES

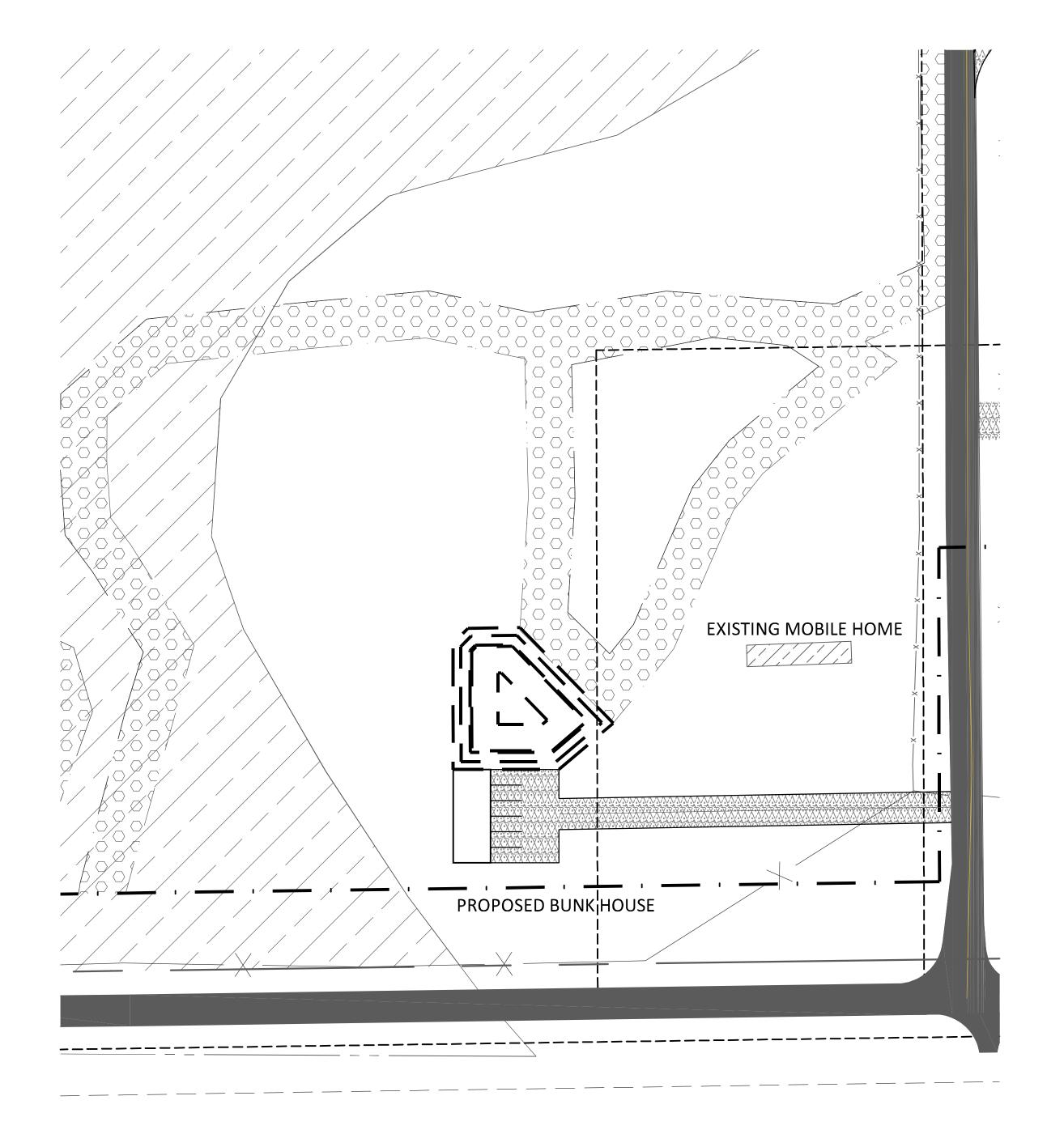
EXISTING ASPHALT PAVEMENT

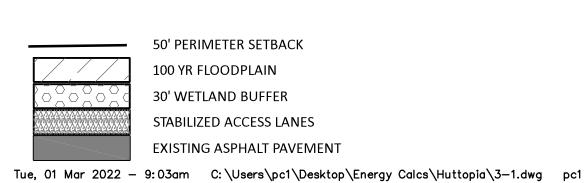
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NORTH JIM ZINNER

1"= 50"

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813-480-8708

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SECTION F SITE PLAN

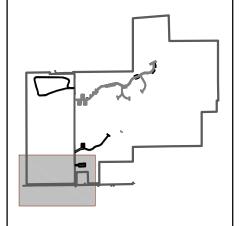
jimzinner@gmail.com

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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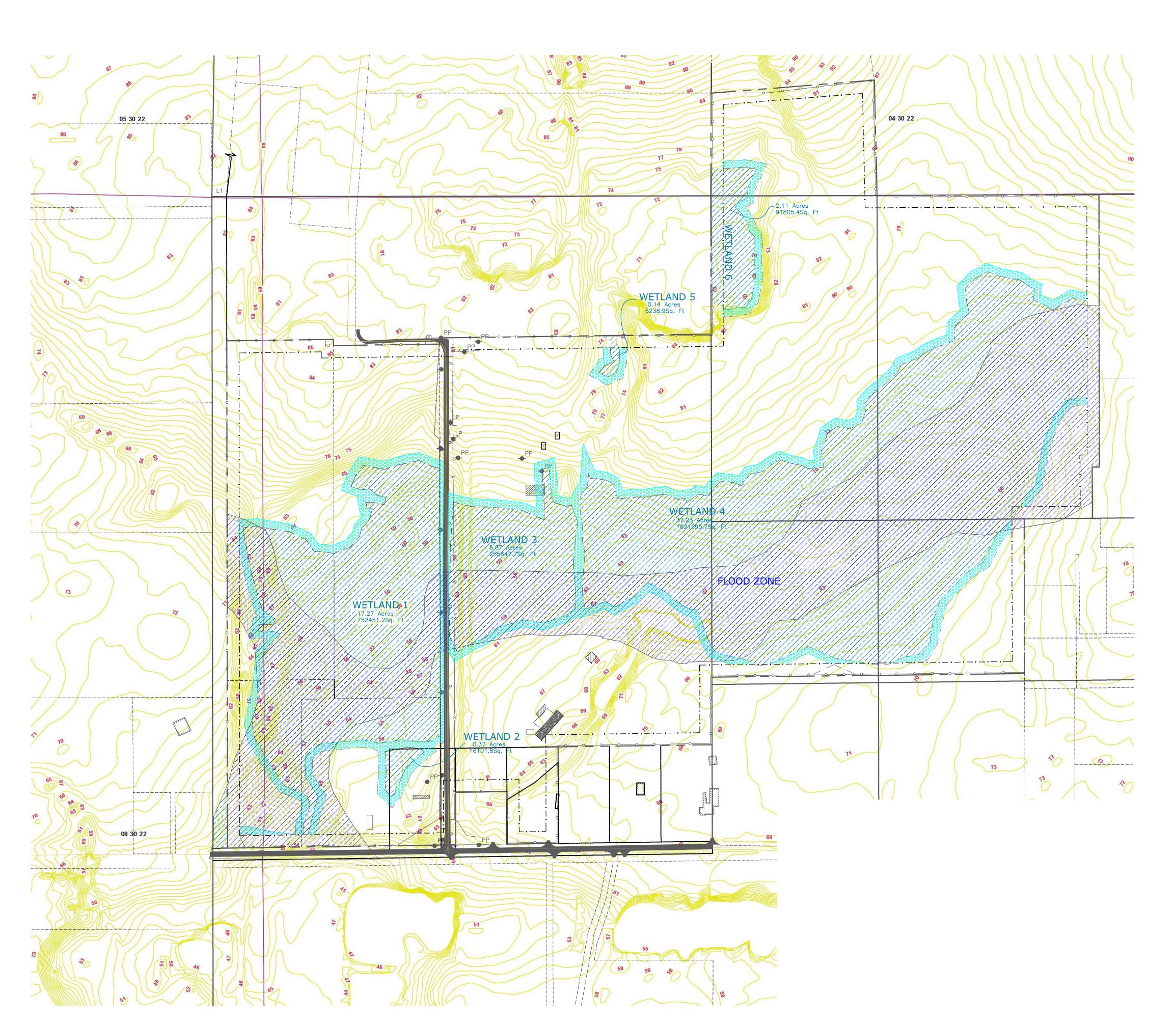


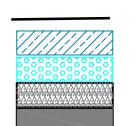
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ORTH JIM ZINNER

1*= 200'
PE LIC

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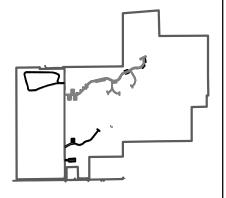
FLOODPLAIN AND WETLAND MAP

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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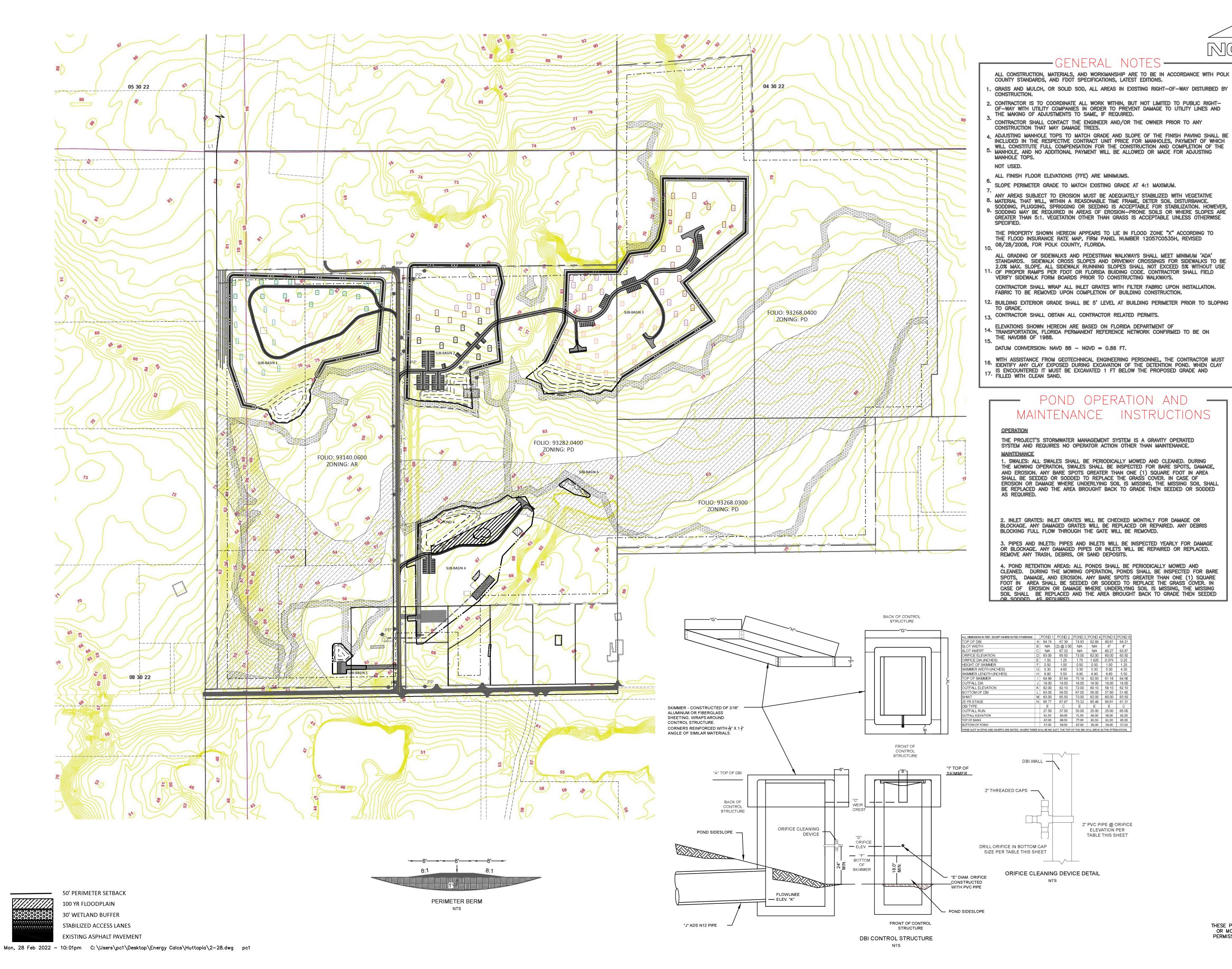


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Pe llc CIVIL ENGINEERING SERVICES James Y. Zinner, Professional 1103 North Wheeler Street, Suite D

Plant City, Florida 33563

813-480-8708 jimzinner@gmail.com

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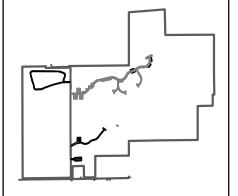
POST-**DEVELOPMENT** DRAINAGE MAP

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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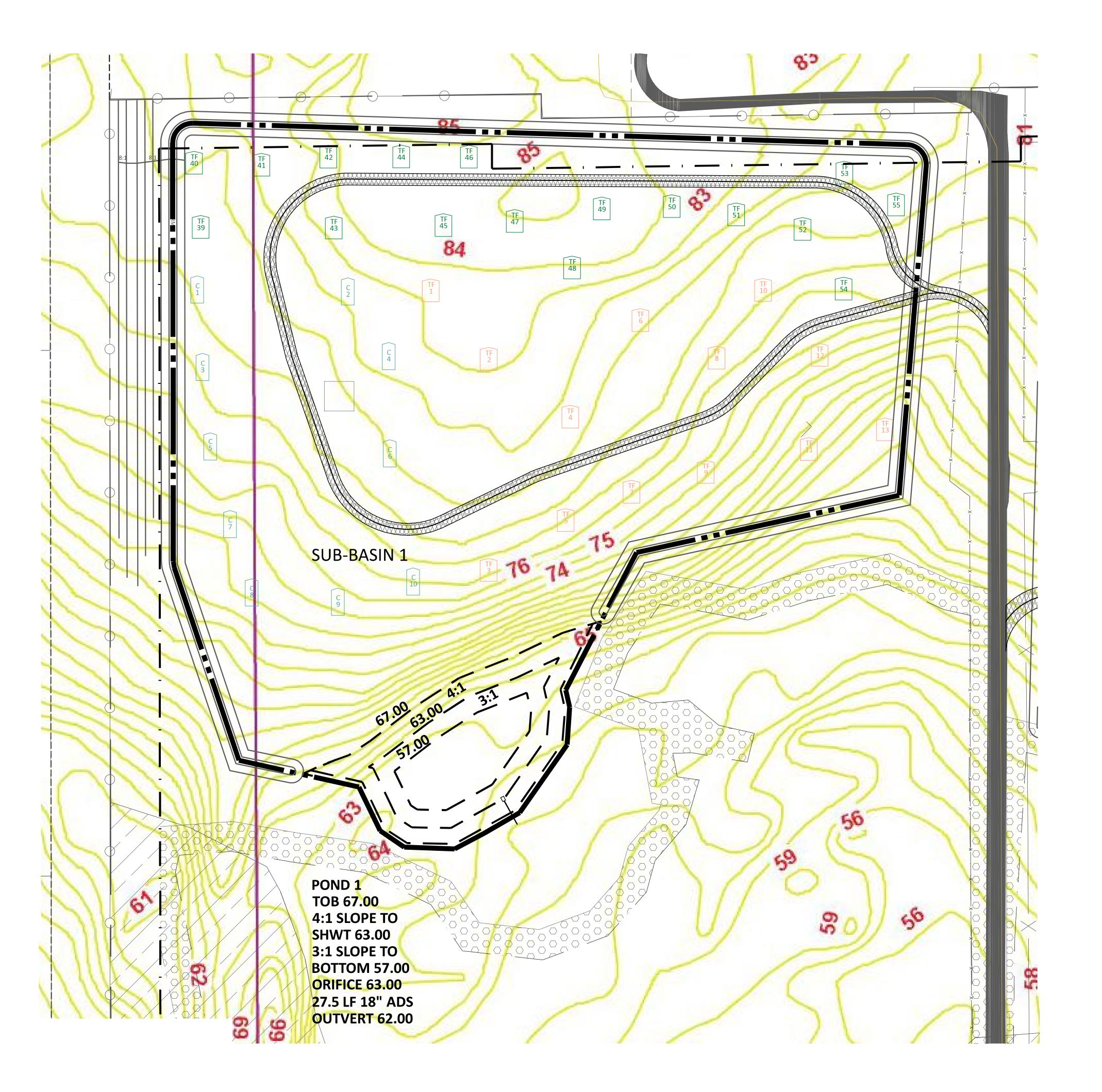


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813-480-8708
jimzinner@gmail.com SHEET NAME:

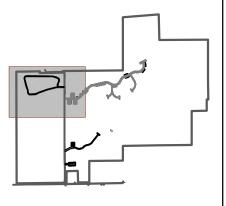
> SECTION A GRADING PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



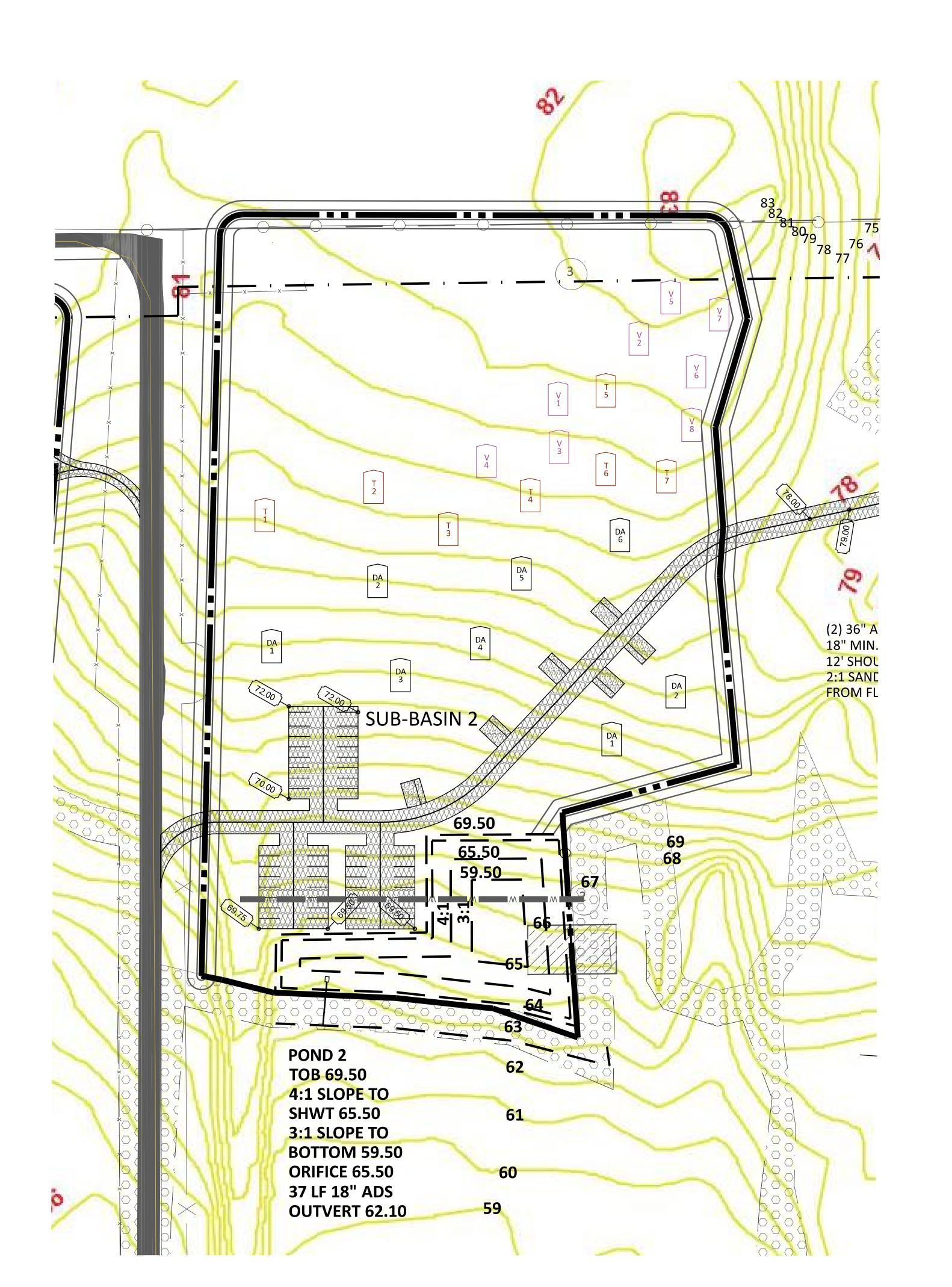
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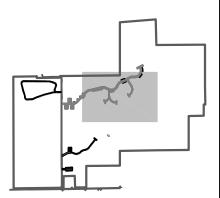
SECTION ABGRADING PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



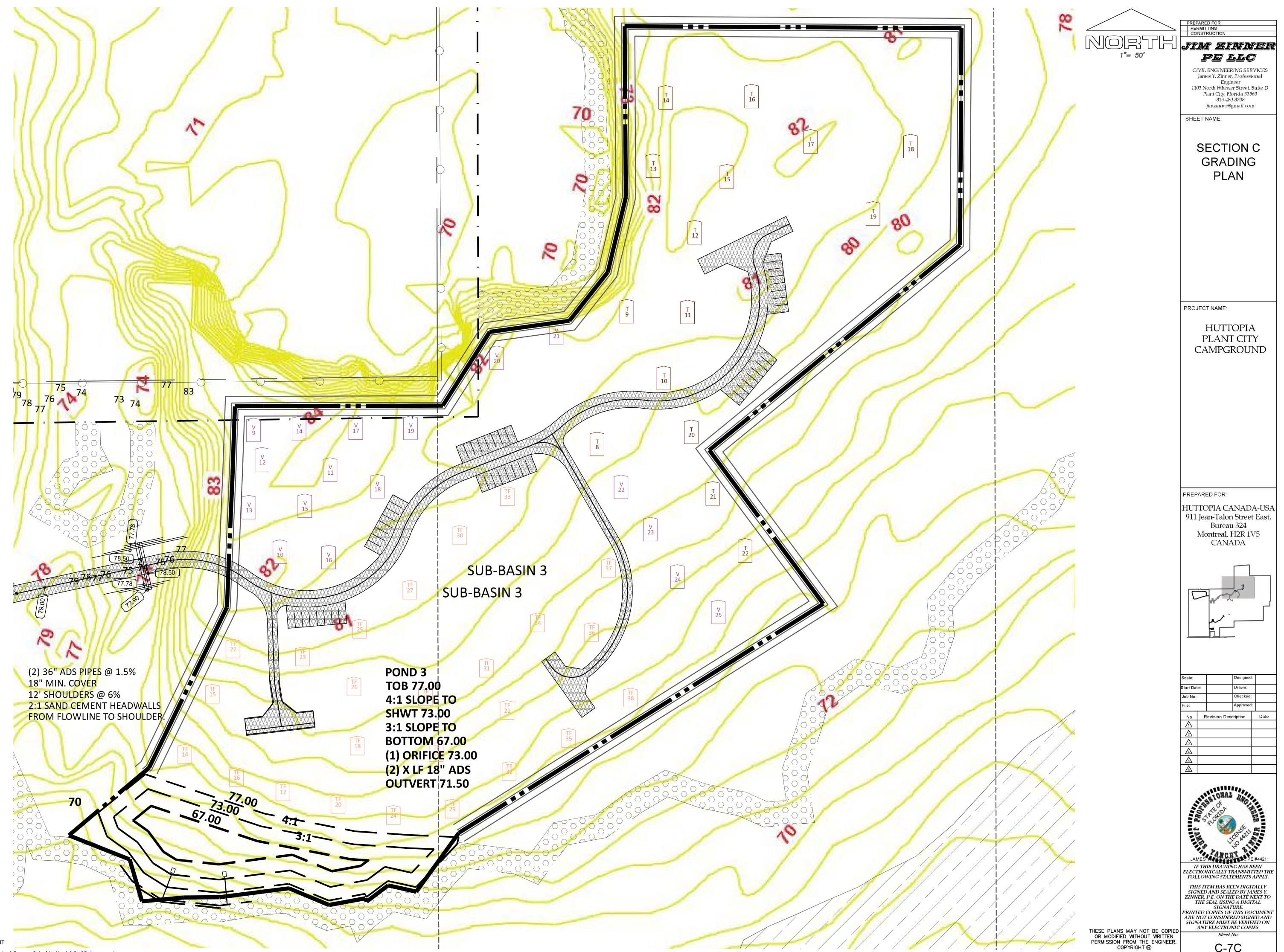
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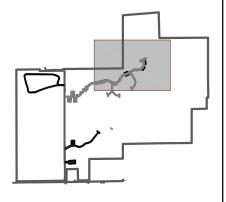
SECTION C GRADING PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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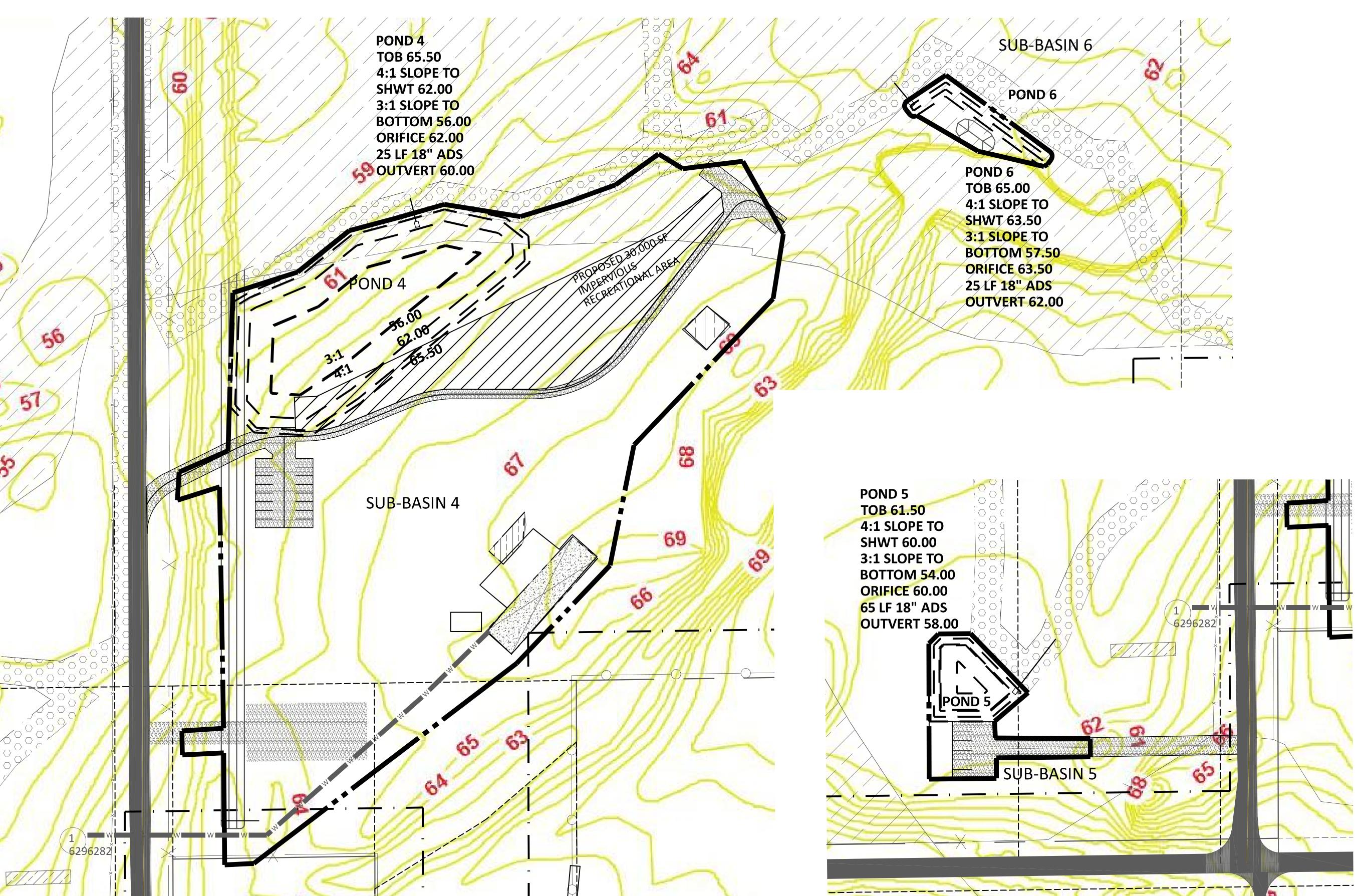
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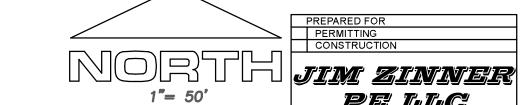
C-7C

50' PERIMETER SETBACK

100 YR FLOODPLAIN 30' WETLAND BUFFER

STABILIZED ACCESS LANES





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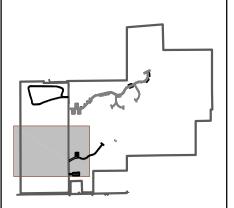
SECTION D GRADING PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



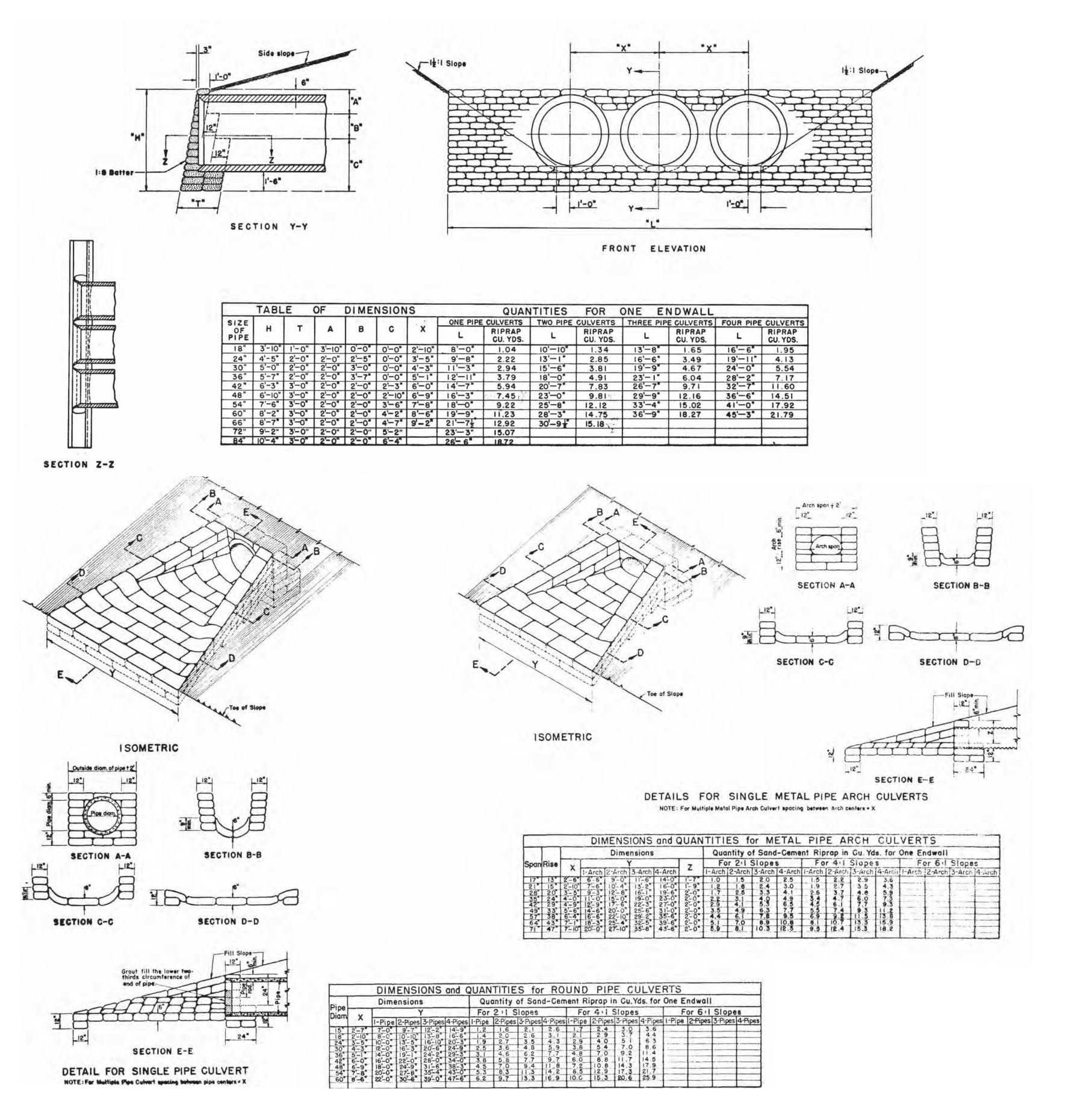
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C-7D

50' PERIMETER SETBACK 100 YR FLOODPLAIN 30' WETLAND BUFFER STABILIZED ACCESS LANES **EXISTING ASPHALT PAVEMENT**



SAND CEMENT HEADWALL DETAIL



JIM ZINNER

Pe llc

CIVIL ENGINEERING SERVICES James Y. Zinner, Professional 1103 North Wheeler Street, Suite D Plant City, Florida 33563 813-480-8708 jimzinner@gmail.com

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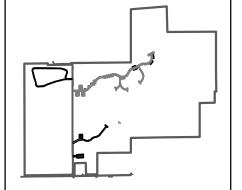
DETAILS

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



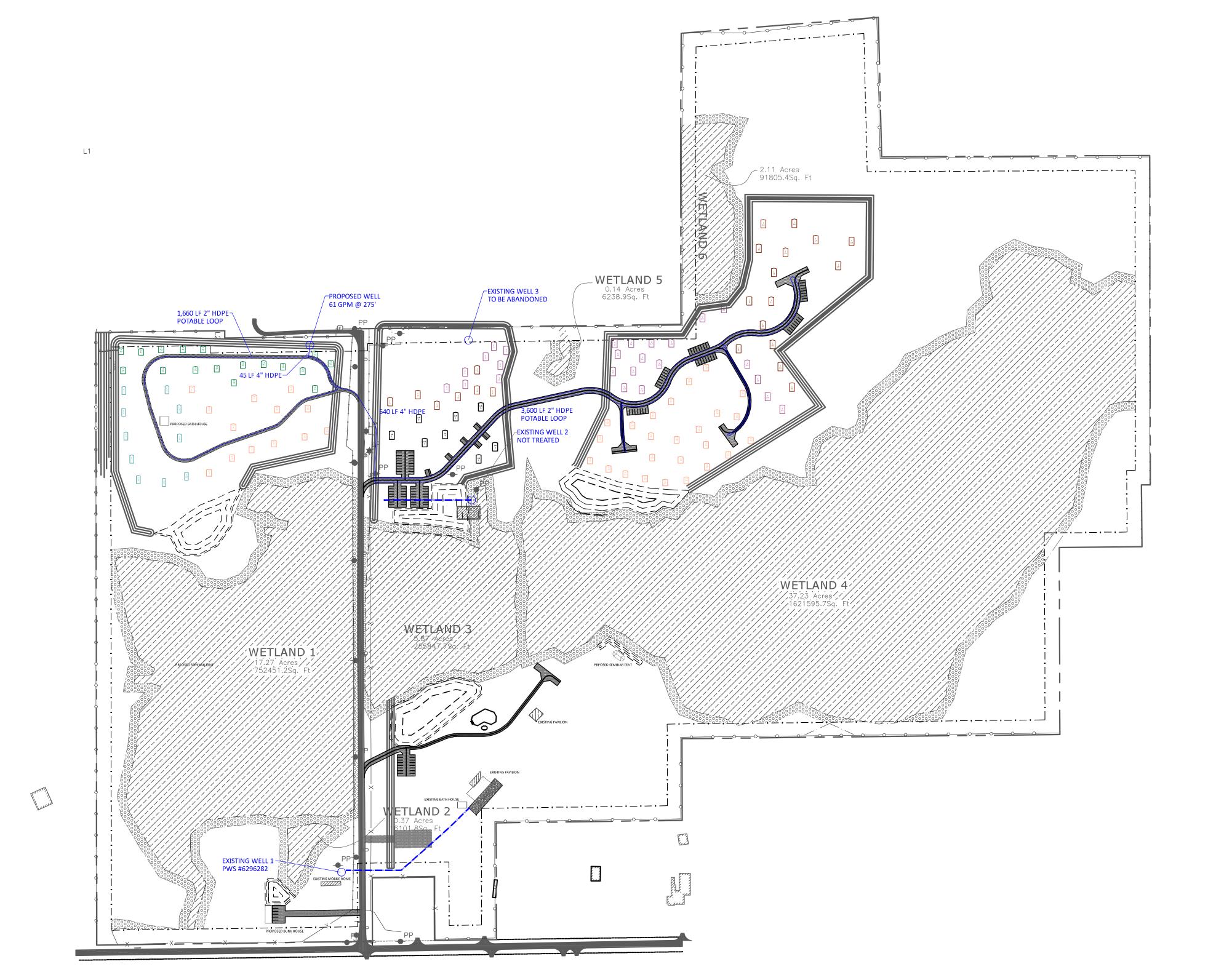
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ORTH JIM ZINNER

1"= 200"

PE LLC

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SHEET NAME:

UTILITY PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



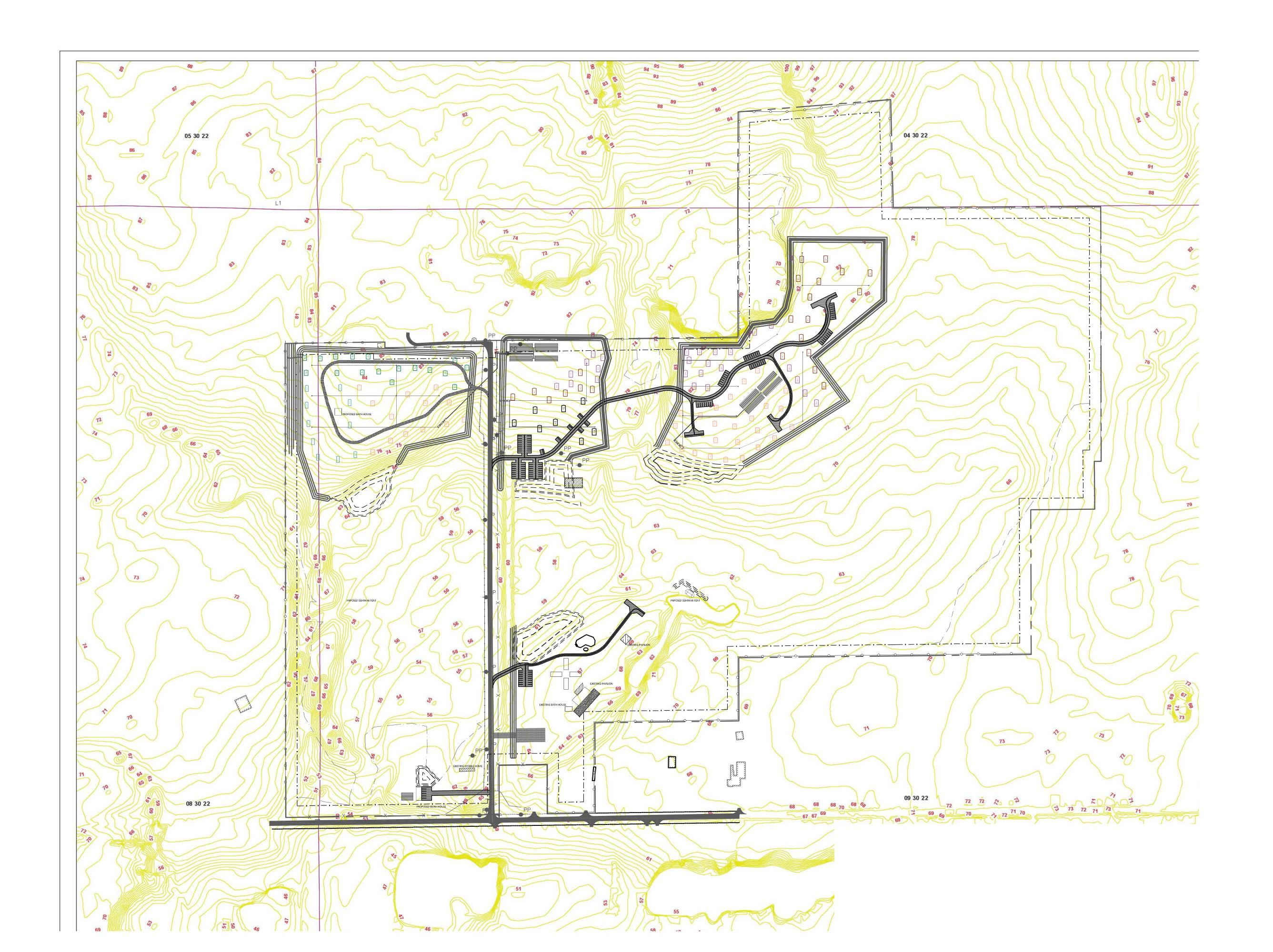
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JIM ZINNER

1"= 100"

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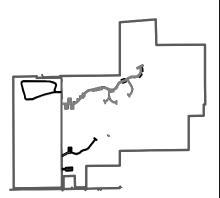
SEPTIC PLAN

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



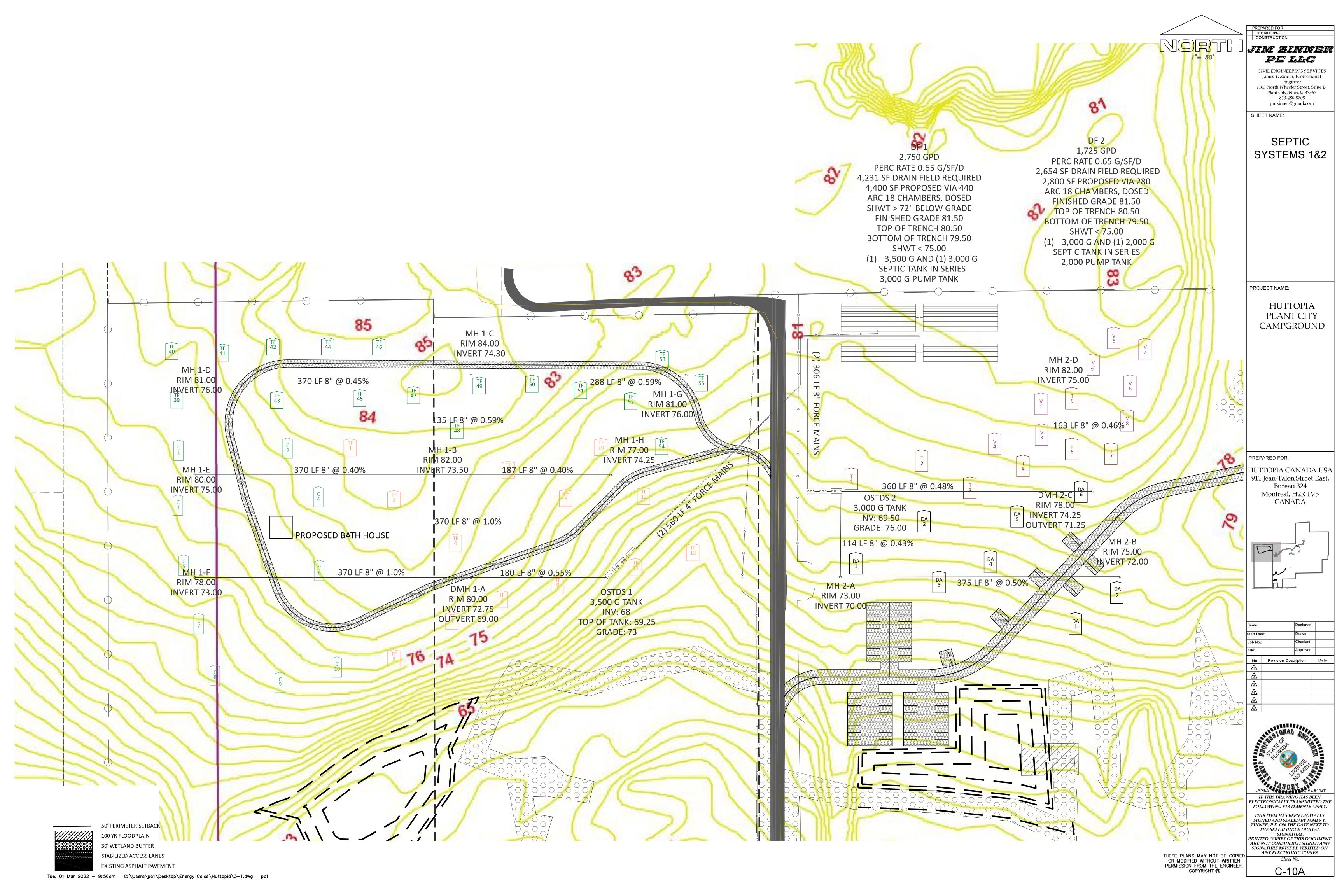
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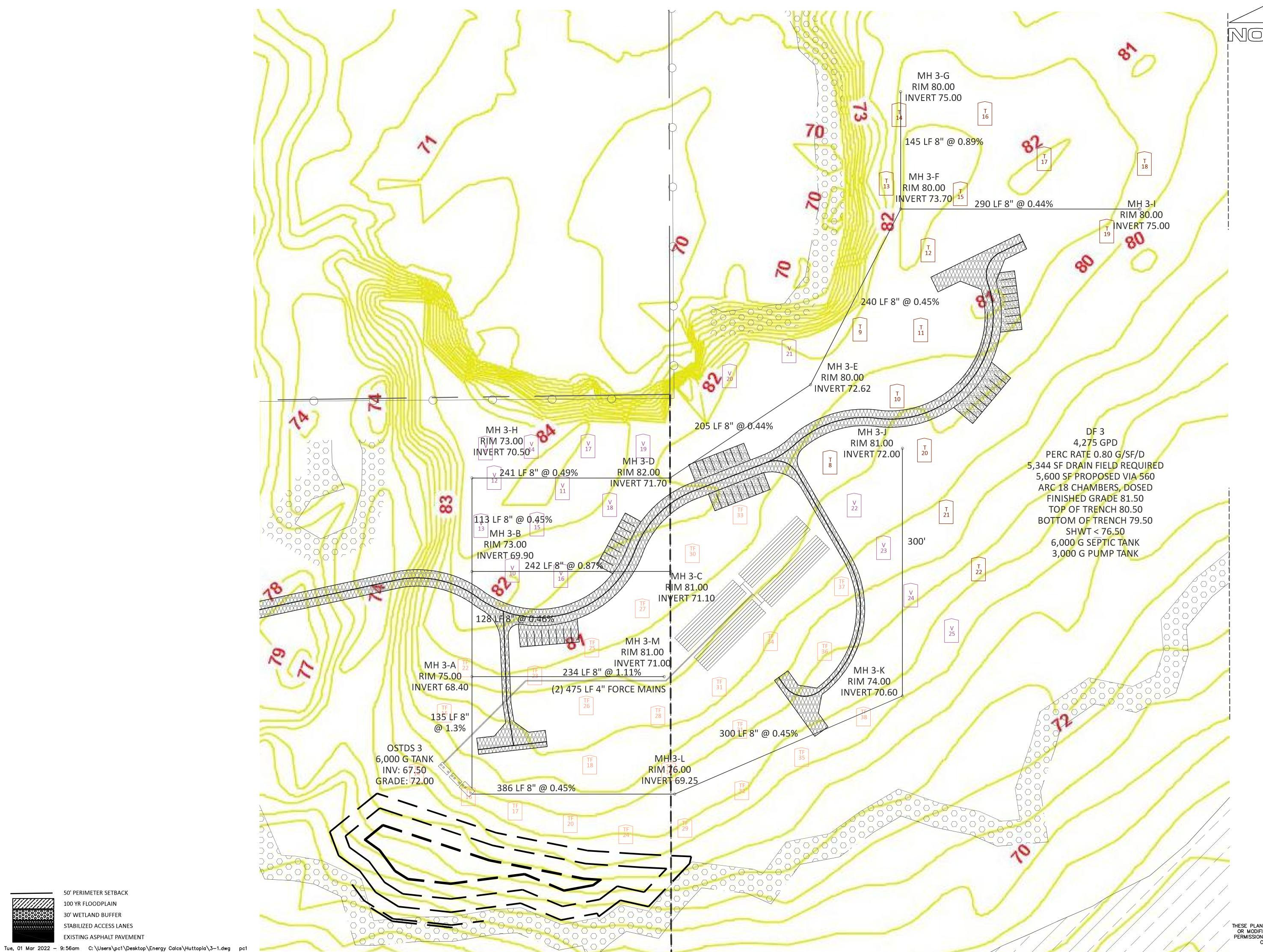


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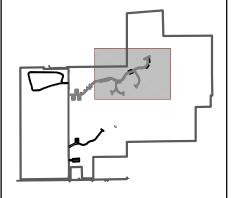
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PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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JIM ZINNER ENGINEER, LLC DESIGN FLOW (in gallons/day)? Elevation of the PUMP OFF SWITCH, in feet? Elevation of the upper LATERAL, in feet? Tank Volume 3000 DELIVERY PIPE distance, from pump to manifold, in feet? DELMERY PIPE diameter, in inches (if not 2"--use 2" min)? Overall Width 72.0 Inches Design DISTAL PRESSURE, in feet (if not 2.5)? (hd) IS MANIFOLD CENTER-FED & SYMETRICAL (yes or no)? Overall Depth 60.0 Inches How many orifices in the MANIFOLD? MANIFOLD ORIFICE diameter, in inches (if not 5/16") Overall Length 168.0 Inches MANIFOLD DIAMETER (if not 2"--use 2" min)? TOTAL LENGTH OF MANIFOLD Lid Thickness 6.0 Inches Does MANIFOLD drain to FIELD after dose (yes or no)? Invert From Outside Bottom 69.0 Inches How many LATERALS? USE 0 IF FORCE MAIN DOES NOT DRAIN Pumping chamber weep hole size (usually .25 Outvert From Outside Bottom 69.0 Inches (first orifice from lateral 1/2 of orifice spacing) 🔚 Tank Wall Thickness 6.0 Inches Length of each LATERAL, in feet? Diameter of each LATERAL, in inches Tank Cover 0.8 Feet Elevation of each LATERAL, in feet? Number of ORIFICES per lateral Finished Grade 75.00 Feet Distance from Manifold to closest Orifice, in feet Daily Flow 2750.00 Gallons / Day ORIFICE SPACING, in feet Diameter of ORIFICES, in inches? Infiltration Rate 0.65 Gallons / SF / Day Square feet of leachfield per laterals Drainfield Required Maximum number of orifices in any one latera 4230.77 Square Feet Minimum lateral diamete RESULTS Drainfield rating 2.00 Gallons / LF FRICTION CALCULATIONS (using Hazen Williams friction ft= Ld((3.55Qm/Ch(Dd^2.63)))^1.85) Lineal Feet of Drainfield Required 2115.38 Lineal Feet PRESSURE CALCULATIONS (using orifice dischage equation Q=11,79 D^2 hd^.5 Lateral 1: Lateral 2: Lateral 3: Lateral 4: Lateral 5: Lateral 6: Lateral 7: Lateral 8: Lateral 9: Lateral 11: 10.30 Lineal Feet of Drainfield Proposed 2200.00 Lineal Feet 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 MANIFOLD ORIFICE DISCHARGE Size of Dosing Line 1.25 Inches TOTAL SYSTEM DISCHAGE (first approximation Volume of Dosing Lines 140.18 Gallons TOTAL DISCHARGE PER LATERAL 10.33 10.33 10.33 10.33 10.33 10.33 10.33 DISCHARGE PER SQUARE FOOT OF LEACHFIELD 0.05165986 0.0516599 0.051659000 0.051659000 0.051659000 6.00 Each
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 <td ORIFICE MAXIMUM DISCHARGE BY LATERAL 0.42 0.41 ORIFICE MINIMUM DISCHARGE BY LATERAL Minimum Volume Dose 560.71 Gallons ORIFICE % DIFFERENCE DISCHARGE within LATERAL 0.9% Minimum Quantity Dose 458.33 Gallons MAXIMUM DISCHARGE LATERAL MINIMUM DISCHARGE LATERAL Design Dose Volume 355.00 Gallons MAXIMUM DISCHARGE PER SQUARE FOOT MINIMUM DISCHARGE PER SQUARE FOOT Pump Down Height 8.76 Inches VELOCITY AT FIRST ORIFICE MANIFOLD VEL WEEP HOLE DISCHARGE (usually a 1/4" weep hole) weep hole= Top of Tank Wall Elevation 74.44 Feet VOID VOLUME IN DELIVERY PIPE VOID VOLUME IN MANIFOLD Invert Elevation 68.00 Feet VOID VOLUME IN EACH LATERAL Outvert Elevation 67.50 Feet OTAL LATERAL VOID VOLUME 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 Internal Tank Bottom Invert 62.75 Feet Models 6292 thru 6295. Vortex Impeller, 2 or 3 in Vertical NPT Discharge. Refer to tech data sheet for verification of voltage MINIMUM DOSE VOLUME (four times the pipe volume) 280.36 Tank Bottom Elevation 62.25 Feet TOTAL HEAD LOSS IN EACH LATERAL Liquid Depth at Pump Off 12 Inches MAXIMUM TOTAL LATERAL HEADLOSS IN SYSTEM MANIFOLD HEADLOSS (center-fed unless manifold design) Zoeller Engineereed Products 1/2 - 2 HP, NPT DC, VTX Company: DELIVERY PIPE HEADLOSS 4 inch diamete Name: PUMP 1 Catalog: Zoeller Sump and Sewage Pumps.60, Vers 1.2 3450 rpm Pump Off Elevation 63.75 Feet Speed: FITTING LOSS (headloss *.15 0.75 add extra head if fittings are more than absolute minimum 02/15/2022 6290 Series - 3600 rpm 6294 CD DISTAL PRESSURE HEAD Line: ENGINEERED PRODUCTS Pump On 64.48 Feet STATIC HEAD (OFF-SWITCH TO HIGH LATERAL/MANIFOLD) Design Point: 114 US gpm, 30 ft Solids Capacity: HEADLOSS PUMP TO WEEPHOLE (assume 3' run) Alarm 67.00 Feet Static Head: 0 ft Motor Type: STD PUMP REQUIREMENTS 113.65 G.P.M 29.50 FEET OF HEAD OSTDS 2 DRAINFIELD JIM ZINNER ENGINEER, LLC DESIGN FLOW (in gallons/day)? Elevation of the PUMP OFF SWITCH, in feet? Elevation of the upper LATERAL, in feet? DELIVERY PIPE distance, from pump to manifold, in feet? DELIVERY PIPE diameter, in inches (if not 2"--use 2" min)? Design DISTAL PRESSURE, in feet (if not 2.5)? (hd) IS MANIFOLD CENTER-FED & SYMETRICAL (yes or no)? How many orifices in the MANIFOLD? Tank Volume 2000 MANIFOLD ORIFICE diameter, in inches (if not 5/16") Overall Width 72.0 Inches MANIFOLD DIAMETER (if not 2"-use 2" min)? TOTAL LENGTH OF MANIFOLD Overall Depth 88.0 Inches Does MANIFOLD drain to FIELD after dose (yes or no)? 132.0 Inches Overall Length USE 0 IF FORCE MAIN DOES NOT DRAIN Pumping chamber weep hole size (usually .25") 6.0 Inches Lid Thickness (first orifice from lateral 1/2 of orifice spacing) Length of each LATERAL, in feet? Invert From Outside Bottom 69.0 Inches Diameter of each LATERAL, in inches 69.0 Inches Outvert From Outside Bottom Elevation of each LATERAL, in feet? Number of ORIFICES per lateral Tank Wall Thickness 6.0 Inches Distance from Manifold to closest Orifice, in feet ORIFICE SPACING, in feet Tank Cover 3.3 Feet Diameter of ORIFICES, in inches? Square feet of leachfield per laterals 77.00 Feet ^⁰ Finished Grade Maximum number of orifices in any one latera 1725.00 Gallons / Day Daily Flow Minimum lateral diamete 0.65 Gallons / SF / Day Infiltration Rate FRICTION CALCULATIONS (using Hazen Williams friction ft= Ld((3.55Qm/Ch(Dd^2.63)))^1.85) PRESSURE CALCULATIONS (using orifice dischage equation Q=11.79 D^2 hd^.5 Lateral 1: Lateral 2: Lateral 3: Lateral 4: Lateral 5: Lateral 6: Lateral 7: Drainfield Required 2653.85 Square Feet 10.30 10.30 10.30 10.30 10.30 Drainfield rating LATERAL DISCHAGE (first approximation) 2.00 Gallons / LF MANIFOLD ORIFICE DISCHARGE TOTAL SYSTEM DISCHAGE (first approximation) 1326.92 Lineal Feet Lineal Feet of Drainfield Required 10.33 Lineal Feet of Drainfield Proposed 1400.00 Lineal Feet TOTAL DISCHARGE PER LATERAL DISCHARGE PER SQUARE FOOT OF LEACHFIELD 0.05165986 0.05165986 0.0516599 0.0516599 0.0516599 0.0516599 0.0516599 0.42 Size of Dosing Line 1.25 Inches ORIFICE MAXIMUM DISCHARGE BY LATERAL 0.42 0.41 ORIFICE MINIMUM DISCHARGE BY LATERAL Volume of Dosing Lines 89.20 Gallons ORIFICE % DIFFERENCE DISCHARGE within LATERAL 0.9% 0.9% 0.9% 6.00 Each Dosings Per Day MINIMUM DISCHARGE LATERAL MAXIMUM DISCHARGE PER SQUARE FOO 356.82 Gallons Minimum Volume Dose MINIMUM DISCHARGE PER SQUARE FOOT VELOCITY AT FIRST ORIFICE MANIFOLD VEL. 3.69 FPS 287.50 Gallons Minimum Quantity Dose 355.00 Gallons WEEP HOLE DISCHARGE (usually a 1/4" weep hole) 0.00 Design Dose Volume weep hole= () inch 11.39 Inches Pump Down Height VOID VOLUME IN DELIVERY PIPE VOID VOLUME IN MANIFOLD 6.37 6.37 6.37 6.37 6.37 VOID VOLUME IN EACH LATERA TOTAL LATERAL VOID VOLUME 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 76.23 Feet Top of Tank Wall Elevation Models 6292 thru 6295. Vortex Impeller, 2 or 3 in Vertical NPT Discharge. Refer to tech data sheet for verification of voltage MINIMUM DOSE VOLUME (four times the pipe volume) 178.41 67.50 Feet Invert Elevation 67.50 Feet Outvert Elevation TOTAL HEAD LOSS IN EACH LATERAL 0.95 0.95 0.95 62.75 Feet Internal Tank Bottom Invert MAXIMUM TOTAL LATERAL HEADLOSS IN SYSTEM MANIFOLD HEADLOSS (center-fed unless manifold design) Zoeller Engineereed Products 1/2 - 2 HP, NPT DC, VTX Company: 62.25 Feet Tank Bottom Elevation DELIVERY PIPE HEADLOSS 3 inch diameter 4.19 w/ delivery Name: PUMP 2 3450 rpm Catalog: Zoeller Sump and Sewage Pumps.60, Vers 1.2 Speed: FITTING LOSS (headloss *.1 0.75 add extra head if fittings are more than absolute minimum Liquid Depth at Pump Off 12 Inches Date: 02/15/2022 6290 Series - 3600 rpm Line: 6293 CD DISTAL PRESSURE HEAD ENGINEERED PRODUCTS STATIC HEAD (OFF-SWITCH TO HIGH LATERAL/MANIFOLD) Design Point: 72 US gpm, 27 ft Solids Capacity: IEADLOSS PUMP TO WEEPHOLE (assume 3' run) STD Static Head: 0 ft Motor Type: 27.03 FEET OF HEAD PUMP REQUIREMENTS 72.32 G.P.M Pump Off Elevation 63.75 Feet HUTTOPIA SEPTIC SYSTEM 3 OSTDS 3 DRAINFIEL 64.70 Feet Pump On DESIGN FLOW (in gallons/day)? 67.00 Feet Alarm Elevation of the PUMP OFF SWITCH, in feet? Elevation of the upper LATERAL, in feet? 3000 Tank Volume DELIVERY PIPE distance, from pump to manifold, in feet? DELIVERY PIPE diameter, in inches (if not 2"--use 2" min)? 72.0 Inches Overall Width IS MANIFOLD CENTER-FED & SYMETRICAL (yes or no)? Overall Depth 60.0 Inches How many orifices in the MANIFOLD? MANIFOLD ORIFICE diameter, in inches (if not 5/16") 168.0 Inches Overall Length MANIFOLD DIAMETER (if not 2"--use 2" min)? 6.0 Inches Lid Thickness TOTAL LENGTH OF MANIFOLD Does MANIFOLD drain to FIELD after dose (yes or no)? 69.0 Inches Invert From Outside Bottom How many LATERALS? USE 0 IF FORCE MAIN DOES NOT DRAIN Pumping chamber weep hole size (usually .25") Outvert From Outside Bottom 69.0 Inches (first orifice from lateral 1/2 of orifice spacing) 7: Tank Wall Thickness 6.0 Inches Length of each LATERAL, in feet? 0.8 Feet 25 Tank Cover Diameter of each LATERAL, in inches Elevation of each LATERAL, in feet? ទី Finished Grade 75.00 Feet Number of ORIFICES per lateral Distance from Manifold to closest Orifice, in feet Daily Flow 4275.00 Gallons / Day ORIFICE SPACING, in feet Diameter of ORIFICES, in inches? ្នា Infiltration Rate 0.65 Gallons / SF / Day Square feet of leachfield per laterals 6576.92 Square Feet Maximum number of orifices in any one lateral Drainfield Required Minimum lateral diameter 2.00 Gallons / LF Drainfield rating RICTION CALCULATIONS (using Hazen Williams friction ft= Ld((3.55Qm/Ch(Dd^2.63)))^1.85) 3288.46 Lineal Feet Lineal Feet of Drainfield Required PRESSURE CALCULATIONS (using orifice dischage equation Q=11.79 D^2 hd^.5 Lateral 1: Lateral 2: Lateral 3: Lateral 4: Lateral 5: Lateral 6: Lateral 7: Lineal Feet of Drainfield Proposed 2200.00 Lineal Feet LATERAL DISCHAGE (first approximation) 10.30 10.30 10.30 10.30 10.30 MANIFOLD ORIFICE DISCHARGE 1.25 Inches Size of Dosing Line TOTAL SYSTEM DISCHAGE (first approximation) 140.18 Gallons Volume of Dosing Lines 10.33 10.33 10.33 10.33 6.00 Each 599 Dosings Per Day DISCHARGE PER SQUARE FOOT OF LEACHFIELD 0.42 0.42 0.42 0.41 0.41 0.41 ORIFICE MAXIMUM DISCHARGE BY LATERAL 0.42 Minimum Volume Dose 560.71 Gallons ORIFICE MINIMUM DISCHARGE BY LATERAL 0.9% 0.9% 0.9% ORIFICE % DIFFERENCE DISCHARGE within LATERAL 0.9% 712.50 Gallons Minimum Quantity Dose MINIMUM DISCHARGE LATERAL 355.00 Gallons Design Dose Volume MAXIMUM DISCHARGE PER SQUARE FOOT MINIMUM DISCHARGE PER SQUARE FOOT Pump Down Height 8.76 Inches VELOCITY AT FIRST ORIFICE MANIFOLD VEL. WEEP HOLE DISCHARGE (usually a 1/4" weep hole) 0.00 weep hole= 0 inch Top of Tank Wall Elevation 74.44 Feet VOID VOLUME IN DELIVERY PIPE 68.00 Feet Invert Elevation VOID VOLUME IN MANIFOLD VOID VOLUME IN EACH LATERA 6.37 6.37 6.37 6.37 6.37 67.50 Feet Outvert Elevation TOTAL LATERAL VOID VOLUME 62.75 Feet Internal Tank Bottom Invert Models 6292 thru 6295. Vortex Impeller, 2 or 3 in Vertical NPT Discharge. Refer to tech data sheet for verification of voltage MINIMUM DOSE VOLUME (four times the pipe volume) 62.25 Feet Tank Bottom Elevation Liquid Depth at Pump Off TOTAL HEAD LOSS IN EACH LATERAL 0.95 0.95 0.95 0.95 12 Inches MAXIMUM TOTAL LATERAL HEADLOSS IN SYSTEM Zoeller Engineereed Products 1/2 - 2 HP, NPT DC, VTX Company: MANIFOLD HEADLOSS (center-fed unless manifold design) DELIVERY PIPE HEADLOSS 4 inch diameter 1.51 w/ delivery Name: PUMP3 Catalog: Zoeller Sump and Sewage Pumps.60, Vers 1.2 Speed: 3450 rpm 63.75 Feet Pump Off Elevation 0.75 add extra head if fittings are more than absolute minimum TITTING LOSS (headloss *.15) Date: 02/15/2022 6290 Series - 3600 rpm 6293 CD Line: ENGINEERED PRODUCTS DISTAL PRESSURE HEAD 64.48 Feet Pump On Design Point: 72 US gpm, 25 ft Solids Capacity: STATIC HEAD (OFF-SWITCH TO HIGH LATERAL/MANIFOLD)

67.00 Feet

STD

Motor Type:

Static Head: 0 ft

JUNI ZUNUTER PE LLC

CIVIL ENGINEERING SERVICES James Y. Zinner, Professional 1103 North Wheeler Street, Suite D Plant City, Florida 33563 813-480-8708 jimzinner@gmail.com

SHEET NAME:

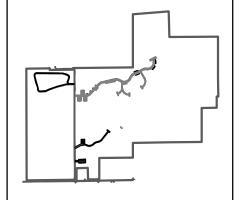
SEPTIC SYSTEM **DETAILS**

PROJECT NAME:

HUTTOPIA PLANT CITY CAMPGROUND

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East, Bureau 324 Montreal, H2R 1V5 CANADA



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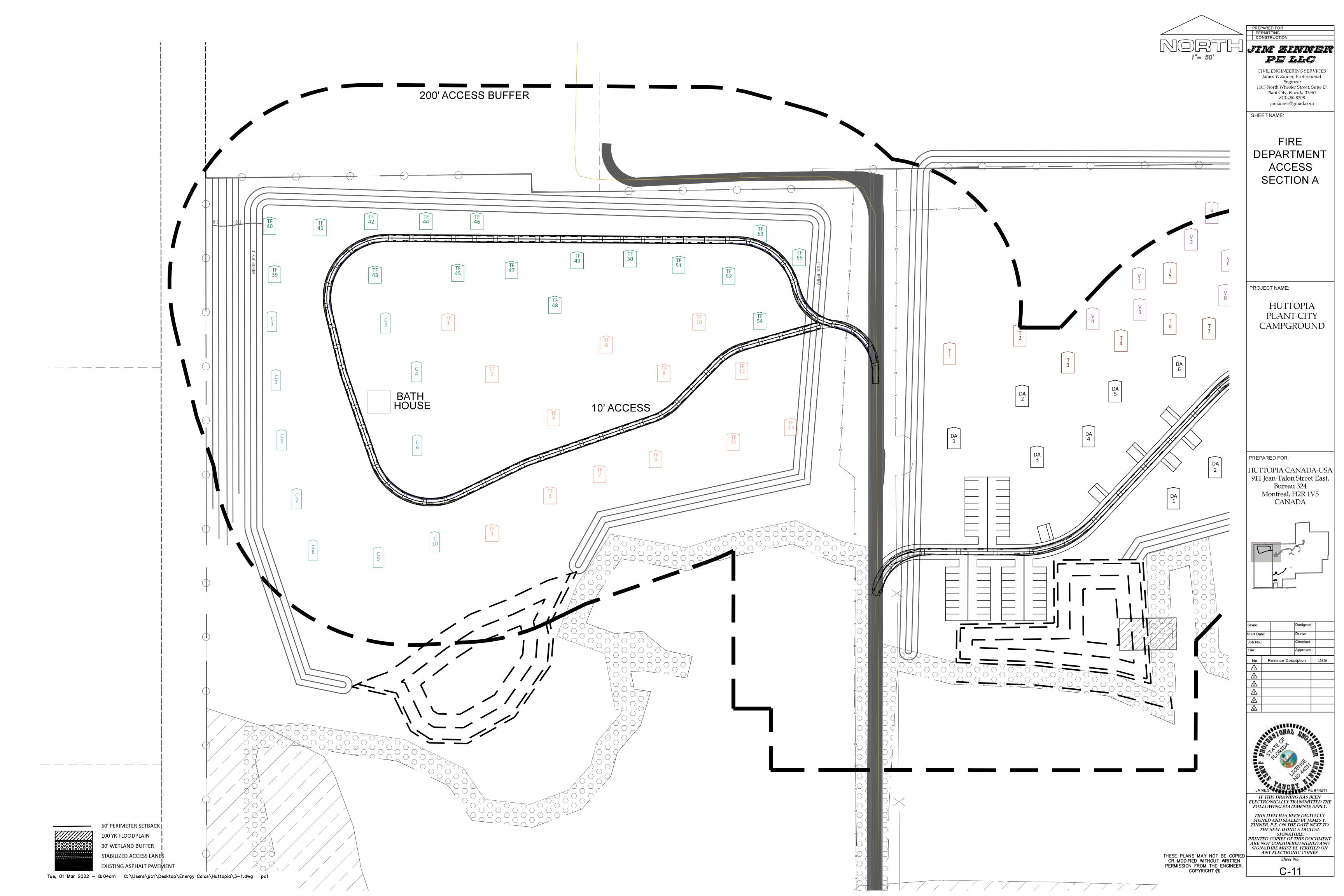


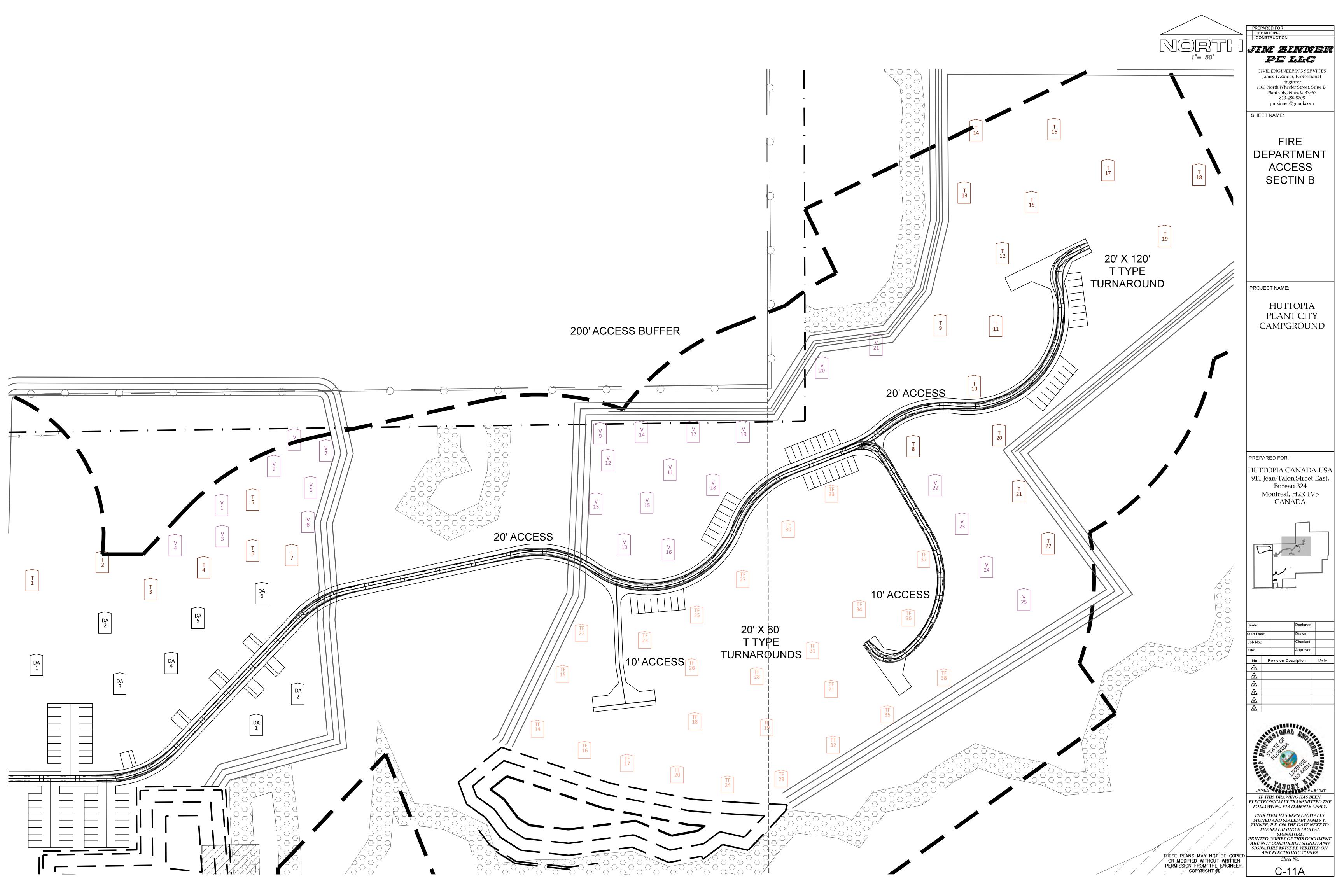
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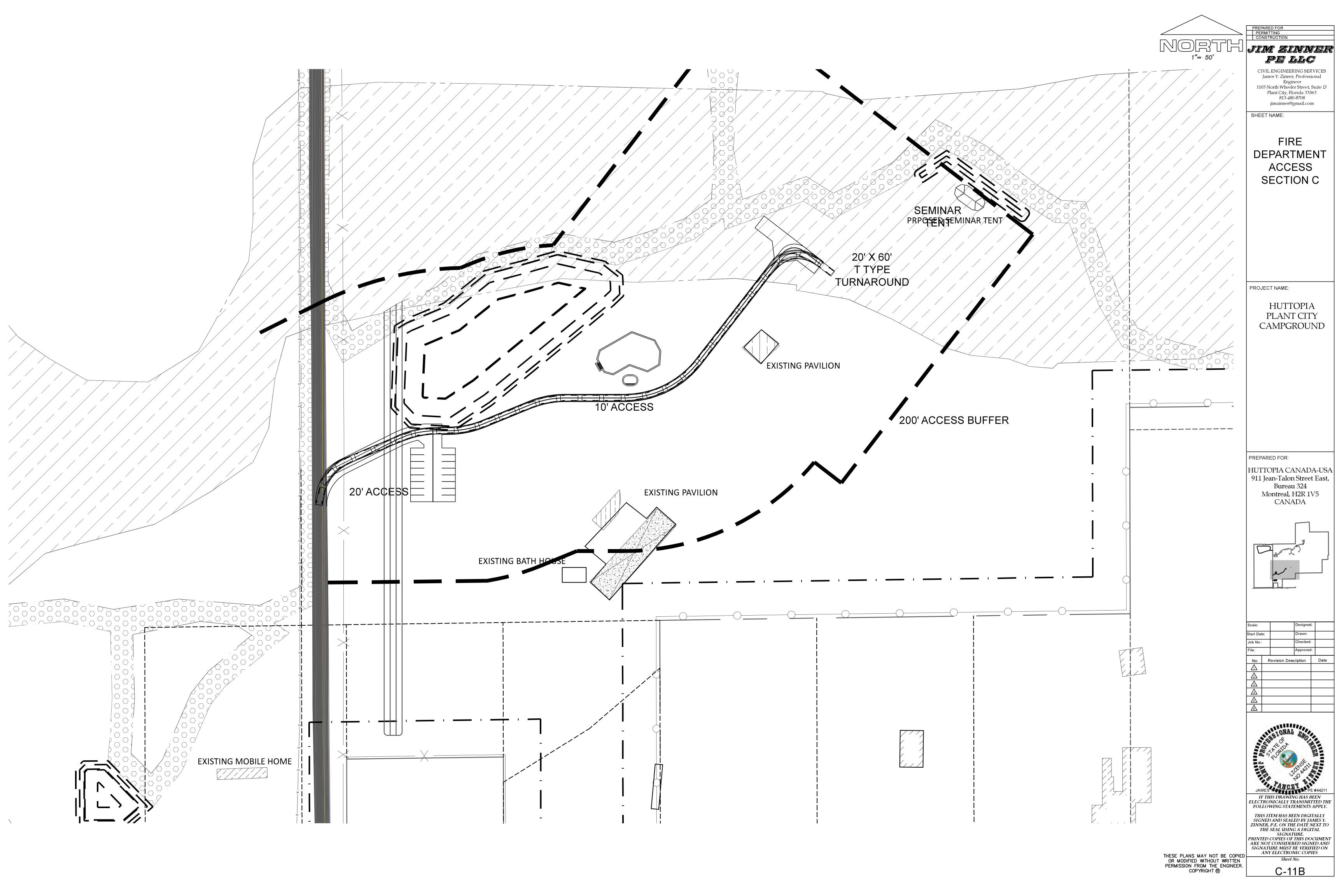
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Sheet No.

HEADLOSS PUMP TO WEEPHOLE (assume 3' run)







STORMWATER CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (C.S.W.M.P.)

This STORMWATER CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (C.S.W.M.P.) is for construction of the SWISS VALLEY ESTATES MHP. Construction activities to include clearing, grubbing, excavation, fill, This CSWMP construction of parking areas, buildings and utilities.

SITE DESCRIPTION

The project site is located at 1529 Ritter Rd., Lakeland FL 33810

in Section 23, Township 27 S, Range 11 E, POLK COUNTY, Florida

This CSWMP shall be used in conjunction with the required Notice of Intent (NOI) and the required Stormwater Pollution Prevention Plan (SWPPP) as required by the NOI. The NOI permit must from the Florida Department of Environmental Protection by the general contractor before civil construction begins.

Owner: JEFFREY SCALLON - VICE PRESIDENT SRS BUSINESS ENTERPRISES INC. PH. (386) 383-7821

Civil Engineer: JIM ZINNER PE LLC 1103 N. WHEELER ST,, SUITE D PLANT CITY, FL 35635 FBPE CERTIFICATION OF AUTHORIZATION NO. 32202

Construction Plans: PHASE 1 SITE CONSTRUCTION PLANS

SWISS VALLEY ESTATES 1529 RITTER ROAD LAKELAND, FL 33810

General Contractor: TBD

According to current Flood Insurance Maps Issued by the Federal Emergency Management Agency, the property shown appears to lie within zones "X & AE" PANEL NO. 12105C0163G

SEQUENCE OF CONSTRUCTION EVENTS:

- 1. Install staked silt fence and other erosion control features as indicated on construction plans.
- 2. Continue clearing & grubbing remainder of site.
- 3. Fill building site to grade & begin building construction.
- 4. Excavate ponds, stabilize pond banks with sod or, seed and mulch, per plans.
- 5. Fill remainder of site & install stormwater piping system and storm piping system silt controls. 6. Construct underground utility system and parking lot base, curbing & paving.
- 7. Final grading and landscaping/sod installation.
- 8. Clean stormwater system and remove sediments from pond as required.
- 9. Once all site areas stabilized, remove erosion protection devices.

NAME OF RECEIVING WATERS:

Site discharges to Fox Branch Tributary.

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES:

Denude only portions of the site expected to be graded or altered within 14 days. Do not denude more than one half the site area at a time.

Temporary Stabilization — Denuded areas, soil stockpiles and other areas of the site where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days after the last construction activity in that area. Hydromulch using locally recommended application for quick germinating ground cover. As an alternative, manually apply rye grain at the rate of 150 pounds per acre (or other quick germinating ground cover at recommended rate for area) along with 10-10-10 fertilizer at rate recommended by manufacturer and apply 3,000 pounds per acre of straw (or other fibrous mulch) secured by crimping. Reapply as required until vegetative cover established.

Wind Erosion Stabilization — Manage fugitive dust from bare areas and areas of active construction by applying water spray to saturate surface soils. Apply water spray on a daily basis or as needed to maintain minimal dust transport. Monitor fugitive dust on a continuous basis and use additional measures as required to control off—site transport of unacceptable levels of dust. Stabilize area to be paved by spreading base material.

Permanent Stabilization — Permanently stabilize all disturbed areas with pavement, landscaping & mulch, sod, seed & mulch, etc. per plans. Maintain as required.

STRUCTURAL PRACTICES

Prior to disturbing the site, install staked silt fence barriers and other erosion control measures per plans. Excavate portions of ponds to use as sediment basins and construct diversion swales to route site runoff into sediment basins. Inspect all aspects of the system per the inspection plan and maintain as required. Install additional erosion control measures such as staked hay or straw bales, double row of silt fence, etc. at locations of excessive erosion. Install sediment traps such as geotextile fabric with clean rock cover at sediment pond outfall locations if turbid discharge is

STORM WATER MANAGEMENT:

The permanent storm water system will include curbed and paved parking areas with storm inlets. An underground stormwater piping system will convey stormwater to the ponds. Sediments accumulated in the stormwater system and ponds during construction will be removed prior to completion of the project. All pervious areas of the site disturbed during construction will be revegetated with a permanent vegetative cover.

OTHER CONTROLS

WASTE MANAGEMENT:

Collect and contain all waste materials in a controlled area in accordance with applicable regulations. All trash and construction debris to be removed from site and properly disposed. No construction debris to be buried on-site. The General Contractor for the site is responsible for assuring that all personnel are instructed regarding the correct procedures for waste disposal and will be responsible for implementing these procedures.

HAZARDOUS WASTE:

Local and state environmental agencies will be notified if any hazardous materials or waste are encountered on the site. Hazardous waste/materials will be identified, removed from the site and properly disposed per applicable regulations. Hazardous materials/waste generated and/or stored on-site will be handled, stored, transported and disposed per applicable regulations. The General Contractor for the site is responsible for assuring that all personnel are instructed regarding the correct procedures for hazardous waste/materials and will be responsible for implementing these procedures.

SANITARY WASTE:

Portable toilet units will be utilized to collect sanitary waste. Waste from portable toilet units to be collected and disposed by licensed sanitary waste hauler in accordance with applicable regulations.

OFF-SITE VEHICLE TRACKING:

Stabilized construction entrances will be constructed to minimize off-site vehicle tracking. Paved streets used for haul routes will be cleaned as needed to remove excess mud, dirt and rock tracked from the site. Dump trucks hauling material from and to the site to be covered with a tarpaulin at all times.

TIMING OF CONTROLS/MEASURES:

The Sequence of Construction (see above) will be followed as practicable.

CERTIFICATION OF COMPLIANCE

This Storm Water CONSTRUCTION SURFACE WATER MANAGEMENT PLAN reflects applicable Federal. State and local regulations for stormwater management and erosion and sediment control.

MAINTENANCE/INSPECTION PROCEDURES

EROSION & SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

* Less than one half of the site will be denuded at one time.

- * All control measures will be inspected at least once each week and following any storm event of 0.5 inches or greater. * A maintenance inspection report will be made after each inspection. A copy of the report to be completed by the
- inspector. Reports to be kept in a bound notebook at the project site office. * All measures will be maintained in good working order and; if repair is necessary, will be initiated within 24 hours of the
- * Built up sediment will be removed from silt fences when it has reached one—third the height of the fence. * Silt fence will be inspected for depth of sediment, tears, secure attachment to posts and firm embedment of posts in
- * Sediment basin(s) will be inspected for depth of sediment and built up sediment will be removed when it reaches ten percent of the design capacity and at the end of the job.
- * Other erosion control devices installed and diversion swales will be inspected and any needed repairs made within 24 hours of the report. * Temporary and permanent seed & mulch/sod areas will be inspected for bare spots, washouts and healthy growth.
- Repairs and reseeding to be initiated within 24 hours of the report. * The General Contractor for the site will assign the Site Superintendent to be responsible for inspections, maintenance and repair activities. The Site Superintendent is authorized to assign responsibility for inspections and maintenance and repair activities to a designated representative(s). General Contractor to advise Owner and Engineer of the names of the Site Superintendent and designated representative(s) and provide 24 hour contact information for same. General Contractor to provide training for Site Superintendent and designated representative(s) to assure they are aware of the inspection and maintenance practices required by this CSWMP.

NON-STORM WATER DISCHARGES:

It is expected that the following non-stormwater discharges will occur from the site during the construction period and must be filtered or discharged in a settling sump before discharging offsite.

- * Water from water line flushing(s).
- * Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- * Uncontaminated groundwater from dewatering operations.

INVENTORY FOR CONSTRUCTION SURFACE WATER MANAGEMENT PLAN:

The following materials and substances may be present on the site during construction:

- * Concrete
- * Detergents * Paints (enamel & latex)
- * Metal Studs
- * Fertilizers
- * Petroleum Based Products and Fuels * Cleaning Solvents
- * Wood (including pressure treated)
- * Masonry Block
- * Roofing Shingles * Chlorine (for disinfection of water lines)
- * Asphalt
- * Glass * Stone
- GOOD HOUSEKEEPING

The following good housekeeping practices will be followed at the site during the construction of the project:

- * 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 appropriate containers and, if possible, under a roof or other enclosure.
- * Products will be kept in their original containers with the original manufacturer's labels retained on the container.
- * 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 recommendation for proper use and disposal will be followed
- * The Site Superintendent will inspect daily to ensure proper use and disposal of materials onsite.

These practices are used to reduce the risks associated with hazardous materials:

- * Products will be kept in their original containers unless they are not re-sealable.
- * Original labels and material safety data will be retained since they contain important product information. * If surplus product must be disposed of, manufacturer's as well as local, State and Federal recommended methods for
- proper handling, transport and disposal will be followed. * Prior to handling hazardous materials, personnel will receive all required training and wear appropriate personal protective equipment.

PRODUCT SPECIFIC PRACTICES:

Petroleum Products — All on—site vehicles and mobile equipment will be monitored for leaks and receive regular preventive maintenance to reduce the chance for leakage. Petroleum products will be stored in appropriately labeled approved containers. Any asphalt substances used on—site 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, the fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. 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 into the storm water system but will be properly disposed of according to manufacturer's specifications and local ordinances and codes.

Concrete Trucks — The Site Superintendent will designate an area for concrete trucks to wash out or discharge surplus concrete. A containment berm will be installed around this area to prevent runoff to the remainder of the site. Hard debris will be properly disposed off-site upon completion of the project.

SPILL CONTROL PRACTICES:

In addition to the 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 and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

* Material and equipment necessary for spill cleanup will be kept in the material storage area on—site. Equipment and materials will include at a minimum; brooms, dust pans, mops, rags, cloves, goggles, kitty litter, sand sawdust and plastic and metal trash containers specifically designated 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 & equipment to prevent injury from contact with hazardous substances.

* Spills of toxic or hazardous material will be reported to the appropriate local and State government agency, regardless of the size of the spill. * Should a spill occur, the spill prevention plan will be adjusted to include measures to prevent the same type of spill from

cleanup measures implemented will also be included * The Site Superintendent will be the spill prevention and cleanup coordinator. The Site Superintendent may designate other site personnel who will receive spill prevention and cleanup training. These individuals may be assigned responsibility for a specific phase of prevention and cleanup. The names and 24 hour contact information for the spill personnel will be

reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the

NOTICE OF TERMINATION:

posted in the material storage area and in the office trailer on—site.

A Notice of Termination will be submitted to the Florida Department of Environmental Protection after the construction has been completed and the site has undergone final stabilization.

JIIIVI ZAIINVINISIR

PE LLC CIVIL ENGINEERING SERVICES James Y. Zinner, Professional 1103 North Wheeler Street, Suite D

Plant City, Florida 33563

813-480-8708

jimzinner@gmail.com

SHEET NAME:

STORWMATER CONSTRUCTION SURFACE WATER **MANAGEMENT** PLAN

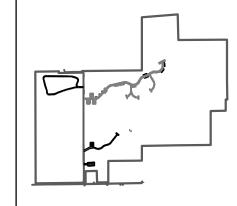
PROJECT NAME:

PLANT CITY CAMPGROUND

HUTTOPIA

PREPARED FOR:

HUTTOPIA CANADA-USA 911 Jean-Talon Street East Bureau 324 Montreal, H2R 1V5 CANADA



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