Site Plans

Issued for	Local Approvals
Date Issued	July 8, 2021
Latest Issue	January 5, 2022

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutchess County, New York

Owner

Siland Commercial Property LLC
14605 N 73rd Street
Scottsdale, Arizona 85260

Applicant

Patrick O'Leary
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Suite 360
White Plains, New York 10606

Assessor's Map: 132000-7066-00-910219-0000

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Reference Drawings

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AC501	Ice Pavilion Elevations	June 4, 2021
AC502	Ice Pavilion Elevations	June 4, 2021
AF501	Field House Elevations	June 4, 2021
AF502	Field House Elevations	June 4, 2021
AH501	Warming Hut Elevations	June 4, 2021

vhb.com

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LICENSED PROFESSIONAL ENGINEER

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VHB Project : 29011.04
Issued for : Local Approvals 01/05/2022

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Legend

- AREA OF DISTURBANCE
- EASEMENT BETWEEN HARLEM VALLEY & SILO RIDGE VENTURES
- SILAND EASEMENT AREAS
- PROPERTY LINE
- SILO RIDGE INTERNAL LOT LINES
- ZONING LINE

Notes

1. THIRD PARTY AGREEMENT WITH SILO RIDGE VENTURES PROPERTY A, LLC, HARLEM VALLEY LANDFILL CORP., AND SILAND COMMERCIAL PROPERTY LLC MAY BE REQUIRED FOR PROPOSED EASEMENTS.
2. THIRD PARTY AGREEMENT WITH THE SEWER TRANSPORTATION DISTRICT, HARLEM VALLEY LANDFILL CORP., AND SILAND COMMERCIAL PROPERTY LLC MAY BE REQUIRED FOR PROPOSED EASEMENTS.
3. THIRD PARTY AGREEMENT WITH THE WATER TRANSPORTATION DISTRICT, HARLEM VALLEY LANDFILL CORP., AND SILAND COMMERCIAL PROPERTY LLC MAY BE REQUIRED FOR PROPOSED EASEMENTS.

0 70 140 280 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

Designed by | Checked by

Issued for: **Local Approvals**
Date: **October 14, 2021**

Not Approved for Construction

Drawing Title
Overall Site Plan

Drawing Number
C1.00

Sheet 1 of 37

Project Number
29011.04

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Saved Monday, January 3, 2022 1:02:27 PM EBREWER Plotted Tuesday, January 4, 2022 10:17:29 AM Emma Brewer

Legend

Exist. / Prop.

- PROPERTY LINE
- PROJECT LIMIT LINE
- RIGHT-OF-WAY/PROPERTY LINE
- EASEMENT
- BUILDING SETBACK
- PARKING SETBACK
- BASELINE
- CONSTRUCTION LAYOUT
- ZONING LINE
- TOWN LINE
- LIMIT OF DISTURBANCE
- WETLAND LINE WITH FLAG
- FLOODPLAIN
- BORDERING LAND SUBJECT TO FLOODING
- WETLAND BUFFER ZONE
- NO DISTURB ZONE
- 200' RIVERFRONT AREA
- GRAVEL ROAD
- EDGE OF PAVEMENT
- BITUMINOUS BERM
- BITUMINOUS CURB
- CONCRETE CURB
- CURB AND GUTTER
- EXTRUDED CONCRETE CURB
- MONOLITHIC CONCRETE CURB
- PRECAST CONC. CURB
- SLOPED GRAN. EDGING
- VERT. GRAN. CURB
- LIMIT OF CURB TYPE
- SAWCUT
- BUILDING
- BUILDING ENTRANCE
- LOADING DOCK
- BOLLARD
- DUMPSTER PAD
- SIGN
- DOUBLE SIGN
- STEEL GUARDRAIL
- WOOD GUARDRAIL
- PATH
- TREE LINE
- WIRE FENCE
- FENCE
- STOCKADE FENCE
- STONE WALL
- RETAINING WALL
- STREAM / POND / WATER COURSE
- DETENTION BASIN
- HAY BALES
- SILT FENCE
- SILT SOCK / STRAW WATTLE
- MINOR CONTOUR
- MAJOR CONTOUR
- PARKING COUNT
- COMPACT PARKING STALLS
- DOUBLE YELLOW LINE
- STOP LINE
- CROSSWALK
- ACCESSIBLE CURB RAMP
- ACCESSIBLE PARKING
- VAN-ACCESSIBLE PARKING

Exist. / Prop.

- CONCRETE
- HEAVY DUTY PAVEMENT
- BUILDINGS
- RIPRAP
- CONSTRUCTION EXIT
- TOP OF CURB ELEVATION (27.35 TC×)
- BOTTOM OF CURB ELEVATION (26.85 BC×)
- SPOT ELEVATION (132.75×)
- TOP & BOTTOM OF WALL ELEVATION (45.0 TW / 38.5 BW)
- BORING LOCATION
- TEST PIT LOCATION
- MONITORING WELL
- UNDERDRAIN
- DRAIN
- ROOF DRAIN
- SEWER
- FORCE MAIN
- OVERHEAD WIRE
- WATER
- FIRE PROTECTION
- DOMESTIC WATER
- GAS
- ELECTRIC
- STEAM
- TELEPHONE
- FIRE ALARM
- CABLE TV
- CATCH BASIN CONCENTRIC
- CATCH BASIN ECCENTRIC
- DOUBLE CATCH BASIN CONCENTRIC
- DOUBLE CATCH BASIN ECCENTRIC
- GUTTER INLET
- DRAIN MANHOLE CONCENTRIC
- DRAIN MANHOLE ECCENTRIC
- TRENCH DRAIN
- PLUG OR CAP
- CLEANOUT
- FLARED END SECTION
- HEADWALL
- SEWER MANHOLE CONCENTRIC
- SEWER MANHOLE ECCENTRIC
- CURB STOP & BOX
- WATER VALVE & BOX
- TAPPING SLEEVE, VALVE & BOX
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- WATER METER
- POST INDICATOR VALVE
- WATER WELL
- GAS GATE
- GAS METER
- ELECTRIC MANHOLE
- ELECTRIC METER
- LIGHT POLE
- TELEPHONE MANHOLE
- TRANSFORMER PAD
- UTILITY POLE
- GUY POLE
- GUY WIRE & ANCHOR
- HAND HOLE
- PULL BOX
- MATCHLINE

Abbreviations

General

ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EX	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL

Utility

CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
GI	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I=	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PIV	POST INDICATOR VALVE
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
RIM=	RIM ELEVATION
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UG	UNDERGROUND
UP	UTILITY POLE

Notes

General

1. CONTRACTOR SHALL NOTIFY "DIG SAFELY NEW YORK" (CALL 811 OR VISIT MY.DIGSAFELYNEWYORK.COM) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
4. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOAM AND SEED.
5. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
6. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
7. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
8. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
10. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
11. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
12. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
13. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
14. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS AS PER THE TOWN OF AMENIA CODE SECTION 105-28 AND 121-68.
15. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PROGRAM AND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) JURISDICTION. PRIOR TO THE START OF CONSTRUCTION, A NOTICE OF INTENT (NOI) SHALL BE FILED WITH THE NYSDEC AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED IN ACCORDANCE WITH THE SPDES REGULATIONS. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE SWPPP AND NYSDEC SPDES REGULATIONS.

Utilities

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
   A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
   B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
   C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
5. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
6. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
   A. WATER PIPES SHALL BE DUCTILE IRON PIPE (DIP) CLASS 52, UNLESS OTHERWISE NOTED.
   B. SANITARY SEWER PIPES SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE SDR-35, UNLESS OTHERWISE NOTED.
   C. STORM DRAINAGE PIPES SHALL BE HDPE SMOOTH INTERIOR, UNLESS OTHERWISE NOTED.
   D. PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO BEGINNING WORK.
8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
9. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
10. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

Layout and Materials

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURB RADII ARE 5 FEET UNLESS OTHERWISE NOTED.
3. CURBING SHALL BE VERTICAL GRANITE CURB (VGC) WITHIN THE SITE UNLESS OTHERWISE INDICATED ON THE PLANS.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LAND SURVEYOR.
6. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.

Demolition

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
4. THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.
5. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

Erosion Control

1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, OWNER AND THE TOWN OF AMENIA. AT THE MEETING, THE INDIVIDUAL RESPONSIBLE FOR MAINTAINING THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE DESIGNATED. EROSION CONTROL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REGULATIONS SET FORTH BY THE NYSDEC (REFER TO NYSDEC SPDES GENERAL PERMIT GP-0-20-001 PART IV.C.). A LOG OF ALL INSPECTIONS AND A COPY OF THE CURRENT DESIGN PLANS SHALL BE KEPT ON SITE AND BE AVAILABLE FOR VIEWING AT ALL TIMES.
3. THE EROSION AND SEDIMENT CONTROLS SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND/OR THE DESIGNATED TOWN REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS DURING CONSTRUCTION.
4. ALL DEWATERING WASTE WATERS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISCOLORATION OF THE RECEIVING WATERS. THE SITE SHOULD BE KEPT CLEAN OF DEBRIS, LITTER AND BUILDLING MATERIALS IN ORDER THAT NONE OF THE ABOVE ENTERS WETLANDS OR WATERCOURSES.
5. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
6. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
7. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
8. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
9. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYSDEC, NOVEMBER 2016).
10. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND SHALL BE IN ACCORDANCE WITH "DUTCHESS COUNTY BEST MANAGEMENT PRACTICES" AS WELL AS THE NYSDEC REQUIREMENTS AND AS AMENDED.
11. THE TOWN OF AMENIA, NYSDEC OR THE SITE ENGINEER MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE THE POTENTIAL FOR ONSITE OR OFFSITE EROSION PROBLEMS THAT MAY OCCUR DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THESE MEASURES.
12. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, SOIL STABILIZATION MEASURES MUST BE INITIALED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL. THE SEEDING WILL BE DONE IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. AREAS SUBJECT TO CONSTRUCTION TRAFFIC ARE TREATED USING WATER BARS AND BY DIRECTING THE SURFACE WATER FLOW TO TREATMENT AREAS. THESE AREAS ARE NOT SUBJECT TO THE TEMPORARY SEEDING REQUIREMENT DUE TO THE OTHER EROSION AND SEDIMENT CONTROL TREATMENTS AS DESCRIBED HEREIN.
13. ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL, WITHIN 10 DAYS OF FINAL GRADING, RECEIVE PERMANENT VEGETATIVE COVER IN COMBINATION WITH SUITABLE MULCH AS PER THE SPECIFICATIONS.
14. CUT OR FILL SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
15. UPON COMPLETION OF FINAL GRADING, ANY AREAS NOT COVERED BY PAVEMENT, OTHER FORMS OF STABILIZATION OR LANDSCAPING AND WHICH ARE ON SLOPES OF 4:1 AND GREATER WILL BE PROTECTED WITH EROSION CONTROL SLOPE BLANKETS AND SEEDED WITH AN EROSION CONTROL SEED MIX. THE BLANKET WILL BE INSTALLED FROM THE TOP OF THE SLOPE, WITH THE UPPER EDGE OF THE BLANKET SECURED IN A TRENCH. BLANKETS SHALL BE UNROLLED DOWN THE SLOPE OR SWALE IN THE DIRECTION OF THE WATER FLOW. EDGES OF BLANKET SHALL BE STAPLED WITH APPROXIMATELY FOUR INCHES OF OVERLAP WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. THE END OF AN UPPER BLANKET SHALL OVERLAP THE END OF A LOWER BLANKET BY AT LEAST SIX INCHES AND BOTH ENDS SHALL BE STAPLED IN PLACE. THE BLANKETS WILL BE STAKED AND/OR STAPLED INTO PLACE AS PER MANUFACTURER'S RECOMMENDATIONS.
16. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
17. ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
18. CONSTRUCTION FENCING SHALL BE USED TO PROTECT EXISTING TREES TO REMAIN, WETLANDS AND OTHER SENSITIVE AREAS.
19. IF FOR ANY REASON THE CONSTRUCTION IS HALTED FOR EXTENDED PERIODS, THE CONTRACTOR SHALL STABILIZE THE SELECT MATERIAL BY HYDRO-SEED OR OTHER MEANS, TO THE SATISFACTION OF THE ENGINEER FOR ALL AREAS DEVOID OF VEGETATION.
20. STORMWATER FROM DISTURBED AREAS MUST BE PASSED THROUGH AN APPROVED CONTROL DEVICE BEFORE BEING DISCHARGED BEYOND DISTURBED AREAS OR DISCHARGED INTO INLETS OR OTHER DRAINAGE SYSTEMS.
21. DUST CONTROL - WATER SHALL BE APPLIED BY SPRINKLER OR WATER TRUCK DURING GRADING OPERATIONS TO MINIMIZE SEDIMENT TRANSPORT AND MAINTAIN ACCEPTABLE AIR QUALITY CONDITIONS. REPETITIVE TREATMENTS SHALL BE DONE AS NEEDED UNTIL GRADES ARE STABILIZED.
22. THE TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND AFTER EACH RAINFALL IN EXCESS OF 1/2 INCH TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
23. THE CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED EROSION CONTROL DEVICES IMMEDIATELY, AND IN NO CASE, MORE THAN TWENTY FOUR (24) HOURS AFTER OBSERVING SUCH DEFICIENCIES.
24. THE CONTRACTOR SHALL BE PREPARED TO IMPLEMENT INTERIM DRAINAGE CONTROLS AND EROSION CONTROL MEASURES AS MAY BE NECESSARY DURING THE COURSE OF CONSTRUCTION.
25. THE CONTRACTOR SHALL MAKE AVAILABLE ONSITE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO PERFORM EMERGENCY EROSION CONTROL AND DRAINAGE IMPROVEMENTS WITHIN FOUR (4) HOURS OF ANY IMPENDING EMERGENCY SITUATION.
26. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE SITE WORK BY THE OWNER. UPON CERTIFICATION OF FINAL ACCEPTANCE, THE OWNER WILL ASSUME RESPONSIBILITY FOR THE CONTINUED MAINTENANCE OF PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES.
27. PHASES OF CONSTRUCTION INCLUDING CLEARING AND GRUBBING, PRELIMINARY SITE PREPARATION, UTILITY INSTALLATION, PRELIMINARY GRADING, ETC., REQUIRE TREE PROTECTION MEASURES TO BE IN PLACE.
28. NO CONSTRUCTION ACTIVITIES OF ANY KIND SHOULD OCCUR WITHIN THE LIMITS OF THE PROTECTED AREAS INCLUDING, BUT NOT LIMITED TO GRADING, EXCAVATION, STOCKPILING OF MATERIALS, STORAGE OF CONSTRUCTION EQUIPMENT, VEHICLE PARKING, MOVEMENT OF WORKERS OR MACHINERY, OR DUMPING OF CONSTRUCTION DEBRIS.
29. CONTRACTOR SHALL REFER TO SITE DETAILS FOR THE PROTECTION MEASURES PROPOSED.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
31. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS DESCRIBED IN THE CONSTRUCTION PHASING PLANS.
32. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 10 DAYS.
33. THE CONTRACTOR IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
34. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
35. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE SURROUNDING DRAINAGE AREA.
36. REFER TO LANDSCAPE PLANS FOR LANDSCAPE, TREE PROTECTION, PLANT MAINTENANCE AND EDGE OF WOOD CLEARING NOTES.
37. CONTRACTOR SHALL COORDINATE MODIFICATIONS TO ACCESS ROUTE(S) WITH OWNER AND/OR ENGINEER.
38. COPIES OF WEEKLY EROSION AND SEDIMENT CONTROL INSPECTION REPORTS ARE TO BE PROVIDED TO THE TOWN OF AMENIA BUILDING AND PLANNING DEPARTMENTS.
39. AT A MINIMUM, THE OWNER OR OPERATOR MUST COMPLY WITH THE FOLLOWING REQUIREMENTS IN ORDER TO BE AUTHORIZED TO DISTURB GREATER THAN FIVE (5) ACRES OF SOIL AT ANY ONE TIME:
    THE OWNER OR OPERATOR SHALL HAVE A QUALIFIED INSPECTOR CONDUCT AT LEAST TWO (2) SITE INSPECTIONS IN ACCORDANCE WITH PART IV.C. OF THIS PERMIT EVERY SEVEN (7) CALENDAR DAYS, FOR AS LONG AS GREATER THAN FIVE (5) ACRES OF SOIL REMAIN DISTURBED. THE TWO (2) INSPECTIONS SHALL BE SEPARATED BY A MINIMUM OF TWO (2) FULL CALENDAR DAYS.
    IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. THE SOIL STABILIZATION MEASURES SELECTED SHALL BE IN CONFORMANCE WITH THE TECHNICAL STANDARD, NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, DATED NOVEMBER 2016.
    THE OWNER OR OPERATOR SHALL PREPARE A PHASING PLAN THAT DEFINES MAXIMUM DISTURBED AREA PER PHASE AND SHOWS REQUIRED CUTS AND FILLS.
    THE OWNER OR OPERATOR SHALL INSTALL ANY ADDITIONAL SITE SPECIFIC PRACTICES NEEDED TO PROTECT WATER QUALITY.
    THE OWNER OR OPERATOR SHALL INCLUDE THE REQUIREMENTS ABOVE IN THEIR SWPPP.
40. CONTRACTOR SHALL MINIMIZE DISTURBANCE WHILE WORKING WITHIN THE LIMITS OF ALL STREAMS AND REMOVING EXISTING CULVERTS AND BRIDGES. ADDITIONAL EROSION AND CONTROL MEASURES SHOULD BE IMPLEMENTED AS NECESSARY. ALL STREAM WORK SHALL BE PERFORMED DURING LOW FLOW CONDITIONS.

Existing Conditions Information

1. REFER TO EXISTING CONDITIONS PLANS.

Document Use

1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

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Drawing Title
Legend & General Notes

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C1.01

Project Number
29011.04

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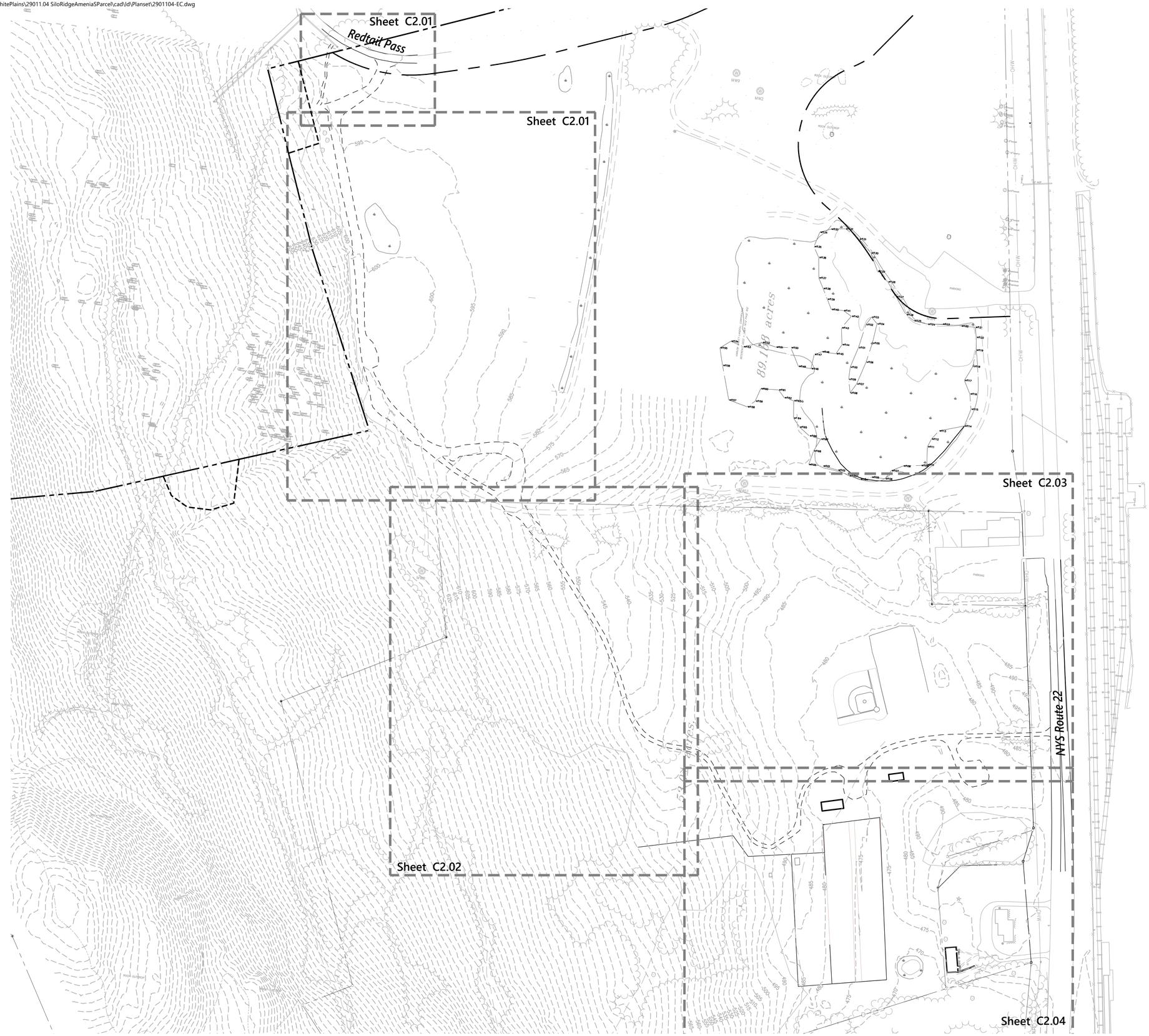

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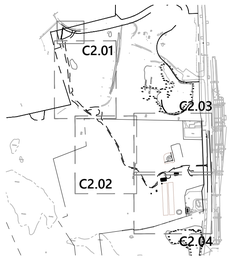

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
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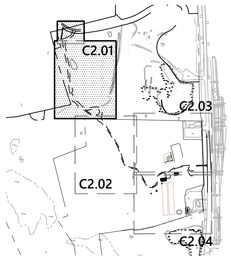

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4651 Route 22, Town of Amenia
Dutches County, New York

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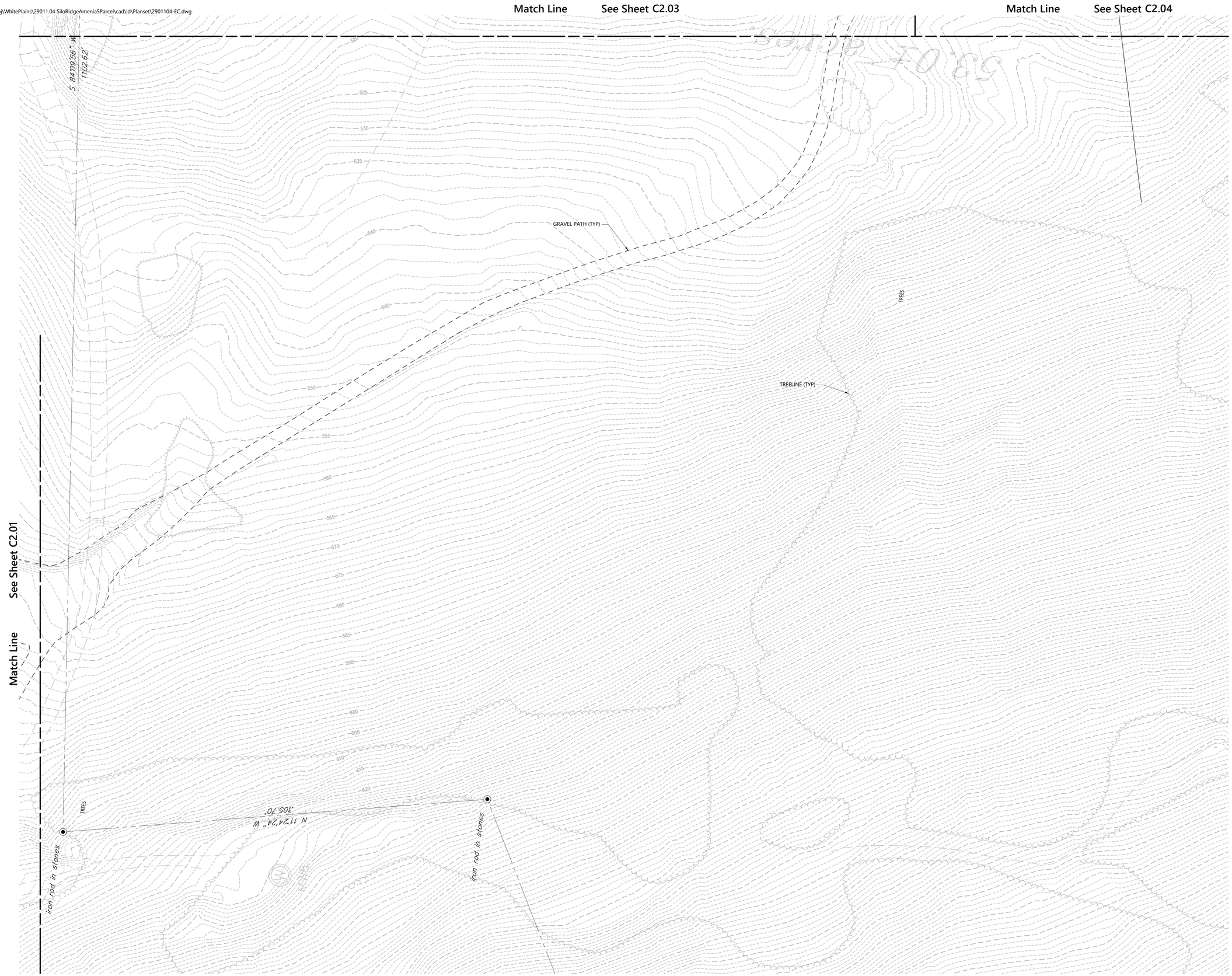

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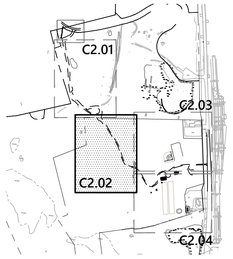

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Sheet 5 of 37

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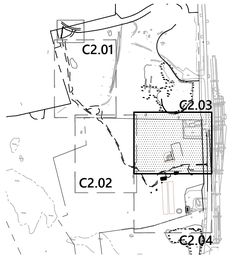

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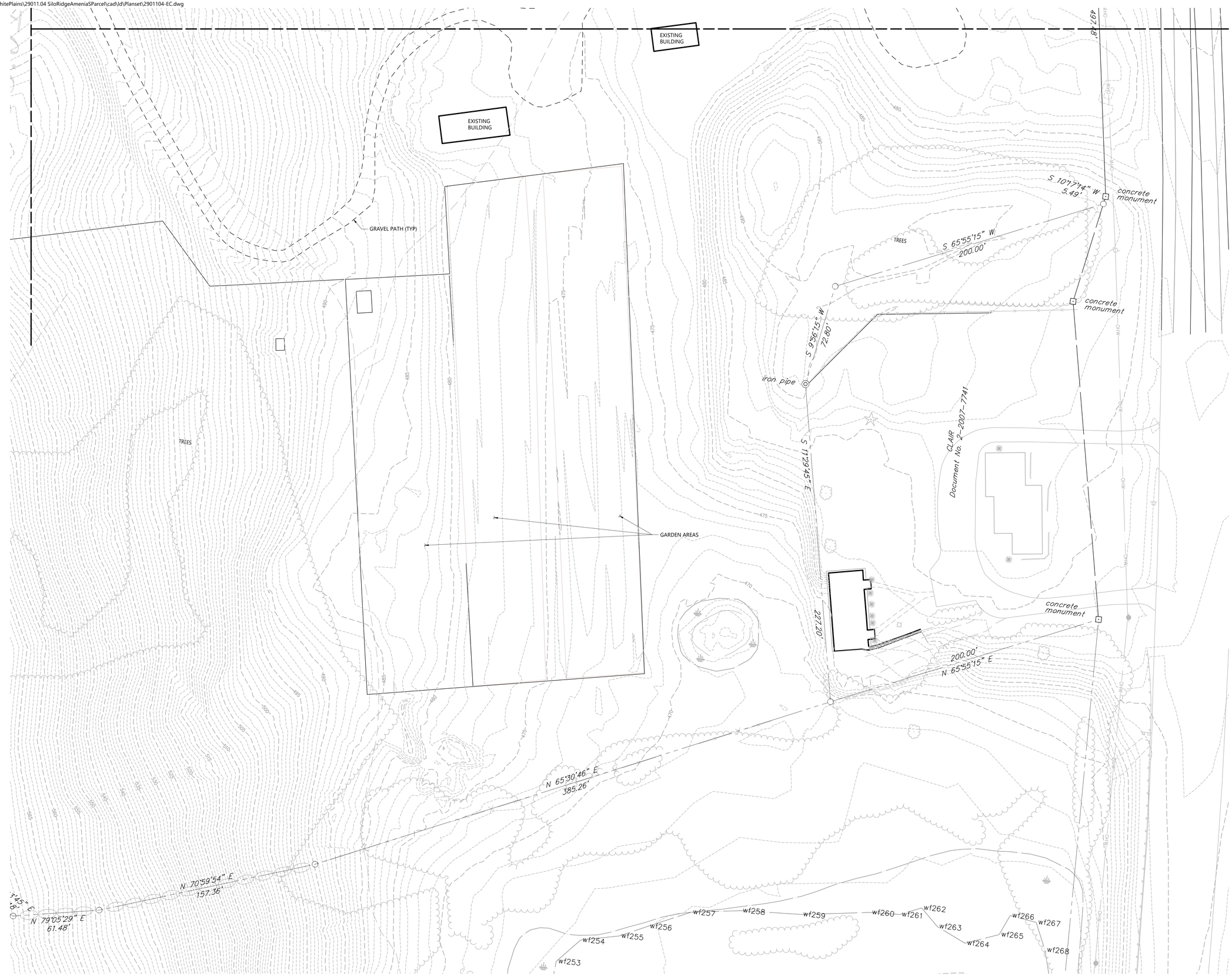

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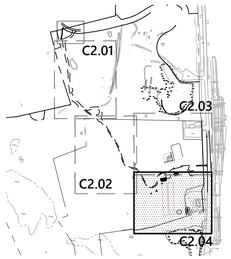

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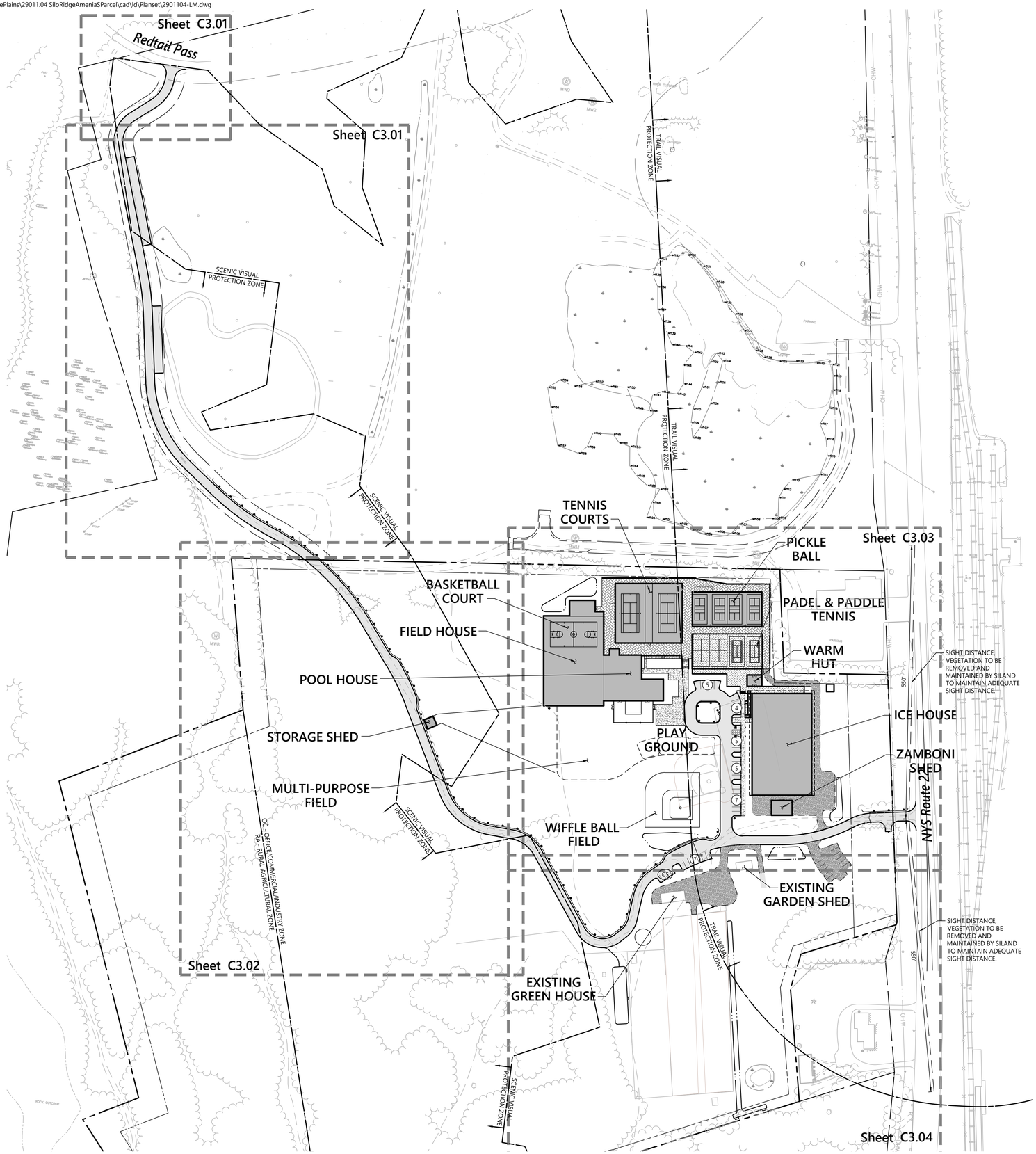

Alignment Line and Curve Data

No.	Delta	Radius	Length	Bearing	Ch. Dist.	Start Northing	Start Easting	End Northing	End Easting
L1			106.88'	S80°52'30"W		1088083.59	747535.51	1088066.63	747429.98
C1	023°52'30"	100.00'	41.67'	S68°56'15"W	41.37'	1088066.63	747429.98	1088051.77	747391.37
L2			11.33'	S57°00'00"W		1088051.77	747391.37	1088045.60	747381.87
C2	026°00'00"	300.00'	136.14'	S70°00'00"W	134.97'	1088045.60	747381.87	1087999.44	747255.04
L3			67.22'	S83°00'00"W		1087999.44	747255.04	1087991.24	747188.32
C3	035°00'00"	300.00'	183.26'	S65°30'00"W	180.42'	1087991.24	747188.32	1087916.42	747024.14
L4			27.51'	S48°00'00"W		1087916.42	747024.14	1087898.01	747003.70
C4	042°00'00"	70.00'	51.31'	S27°00'00"W	50.17'	1087898.01	747003.70	1087853.31	746980.92
L5			48.70'	S06°00'00"W		1087853.31	746980.92	1087804.88	746975.83
C5	039°00'00"	50.00'	34.03'	S25°30'00"W	33.38'	1087804.88	746975.83	1087774.75	746961.46
L6			14.72'	S45°00'00"W		1087774.75	746961.46	1087764.34	746951.05
C6	099°00'00"	50.00'	86.39'	N85°30'00"W	76.04'	1087764.34	746951.05	1087770.31	746875.25
L7			177.87'	N36°00'00"W		1087770.31	746875.25	1087914.20	746770.70
C7	051°00'00"	75.00'	66.76'	N61°30'00"W	64.58'	1087914.20	746770.70	1087945.02	746713.95
L8			45.59'	N87°00'00"W		1087945.02	746713.95	1087947.40	746668.42
C8	059°00'00"	120.00'	123.57'	N57°30'00"W	118.18'	1087947.40	746668.42	1088010.90	746568.75
L9			194.52'	N28°00'00"W		1088010.90	746568.75	1088182.66	746477.42
C9	010°00'00"	500.00'	87.27'	N33°00'00"W	87.16'	1088182.66	746477.42	1088255.75	746429.95
L10			95.10'	N38°00'00"W		1088255.75	746429.95	1088330.69	746371.41
C10	030°00'00"	500.00'	261.80'	N53°00'00"W	258.82'	1088330.69	746371.41	1088486.45	746164.71
L11			14.42'	N68°00'00"W		1088486.45	746164.71	1088491.85	746151.33
C11	015°00'00"	500.00'	130.90'	N60°30'00"W	130.53'	1088491.85	746151.33	1088556.13	746037.73
L12			74.77'	N53°00'00"W		1088556.13	746037.73	1088601.12	745978.02
C12	044°00'00"	250.00'	191.99'	N31°00'00"W	187.30'	1088601.12	745978.02	1088761.67	745881.55
L13			136.22'	N09°00'00"W		1088761.67	745881.55	1088896.22	745860.24
C13	009°00'00"	500.00'	78.54'	N13°30'00"W	78.46'	1088896.22	745860.24	1088972.51	745841.92
L14			258.06'	N18°00'00"W		1088972.51	745841.92	1089217.94	745762.18
C14	069°00'00"	60.00'	72.26'	N16°30'00"E	67.97'	1089217.94	745762.18	1089283.11	745781.48
L15			48.47'	N51°00'00"E		1089283.11	745781.48	1089313.62	745819.15
C15	046°00'00"	75.00'	60.21'	N28°00'00"E	58.61'	1089313.62	745819.15	1089365.37	745846.67
L16			35.04'	N05°00'00"E		1089365.37	745846.67	1089400.27	745849.72

Zoning Summary Chart

Zoning District(S):	OC - Office Commercial/Industrial
Overlay District(S):	Trail Visual Protection Zone & Scenic Visual Protection Zone

Zoning Regulation Requirements	Required	Provided
MINIMUM LOT AREA	2.0 Acres	37.0 Acres
FRONTAGE	200 Feet	±500 Feet
FRONT YARD SETBACK	150 Feet	±222.4 Feet (Ice House) ±176.5 Feet (Pump Station)
SIDE YARD SETBACK	20 Feet	±20.4 Feet
REAR YARD SETBACK	50 Feet	±363.9 Feet
MAXIMUM BUILDING HEIGHT	35 Feet	35 Feet
MAXIMUM NONRESIDENTIAL BUILDING FOOTPRINT	200,000 SF	±61,409 SF
MAXIMUM IMPERVIOUS	40.0 %	10.1 %

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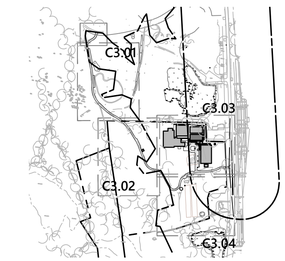

Key
Not To Scale

0 50 100 200Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

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Not Approved for Construction

Drawing Title
Overall Layout and Materials Plan

Drawing Number
C3.00

Sheet 8 of 37

Project Number
29011.04

STATE OF NEW YORK · PATRICK NEIL OLEAR · 089858 · LICENSED PROFESSIONAL ENGINEER

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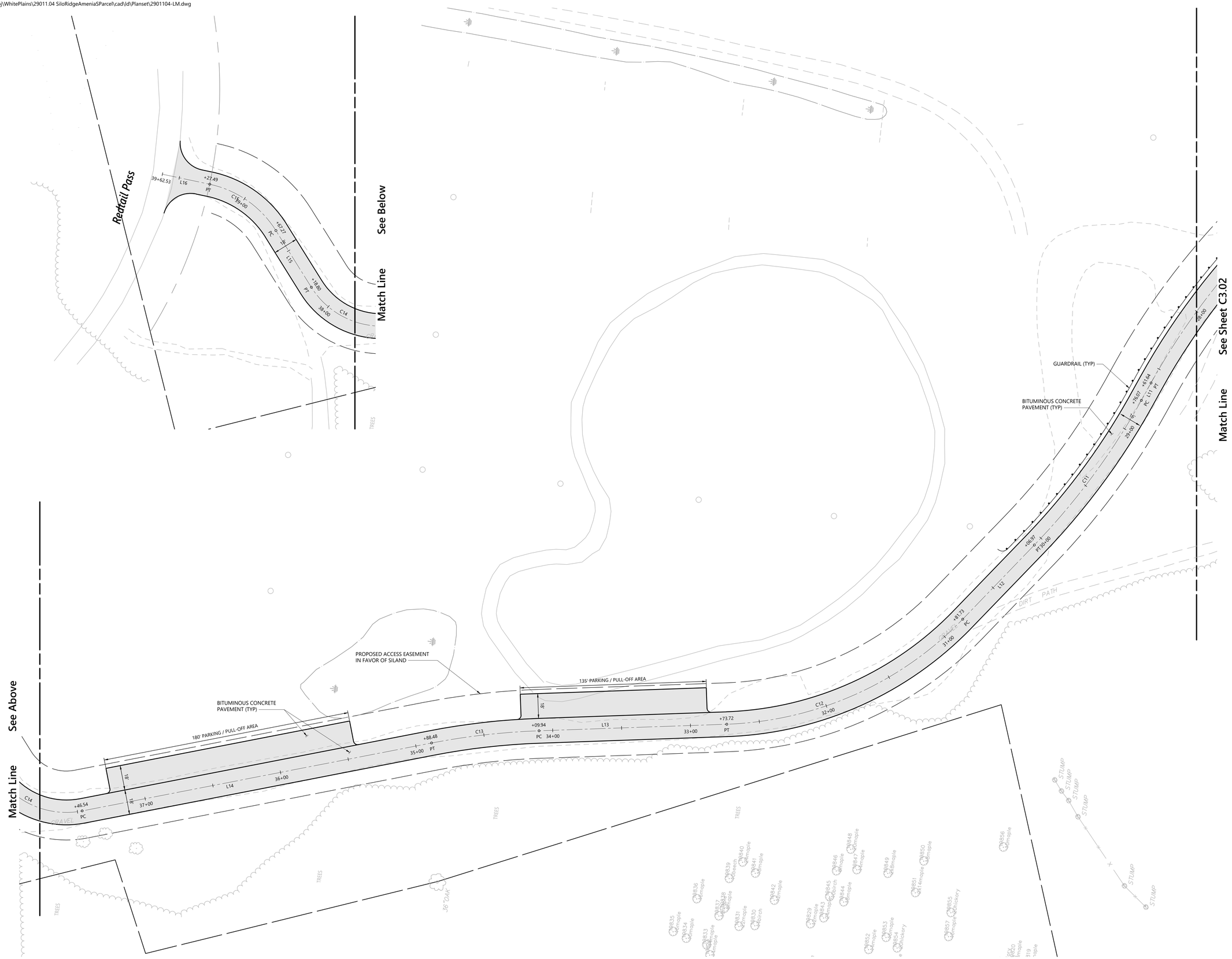

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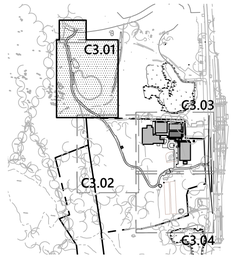

Key

Not To Scale

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
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Drawing Title

Layout and Materials Plan

Drawing Number

C3.01

Sheet 9 of 37

Project Number

29011.04

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PATRICK NEIL O'LEARY
089868
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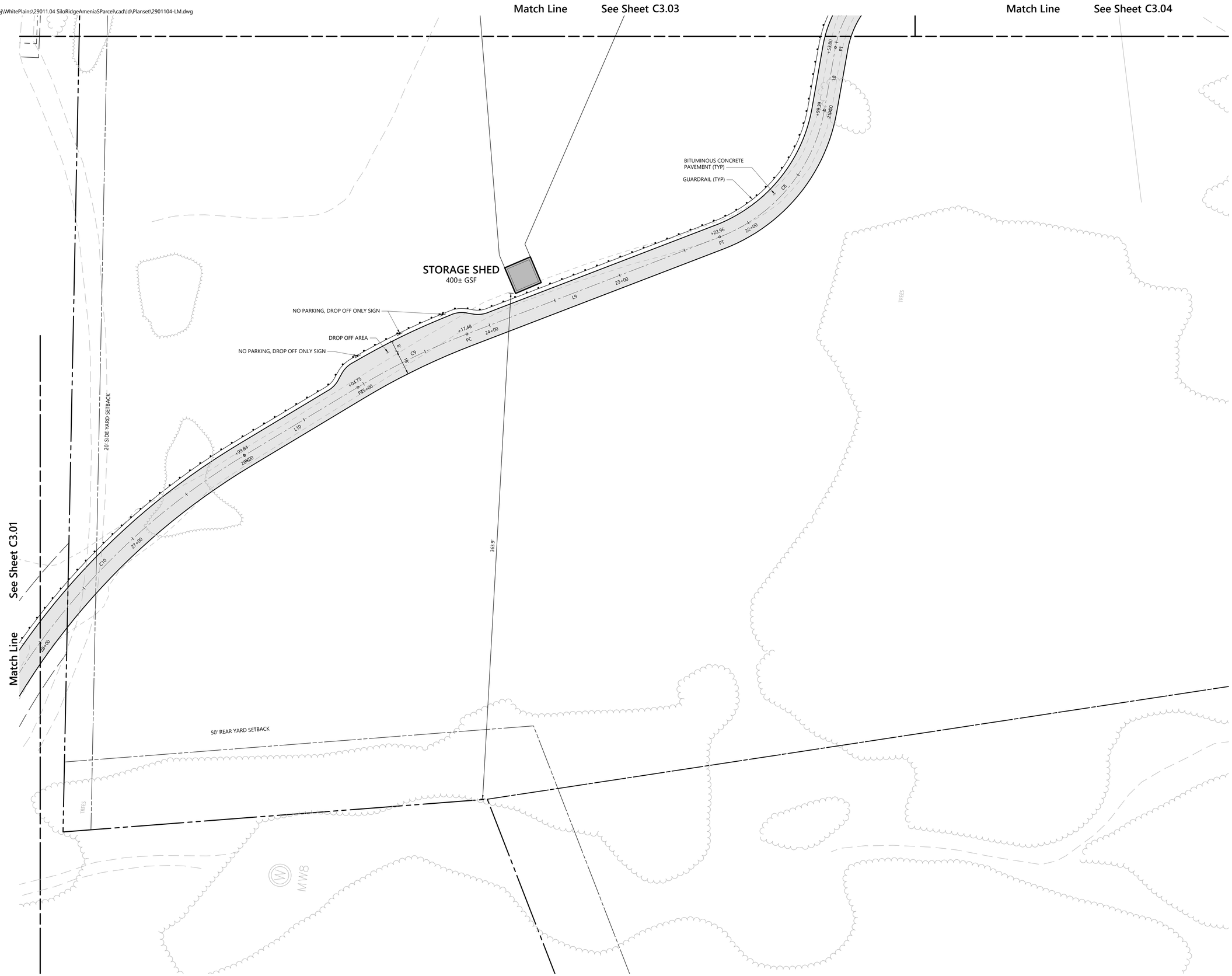

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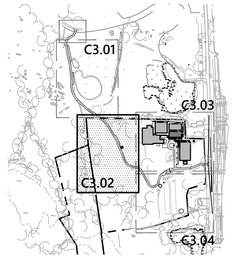

Key
Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
Layout and Materials Plan

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Drawing Number
C3.02

Sheet 10 of 37

Project Number
29011.04

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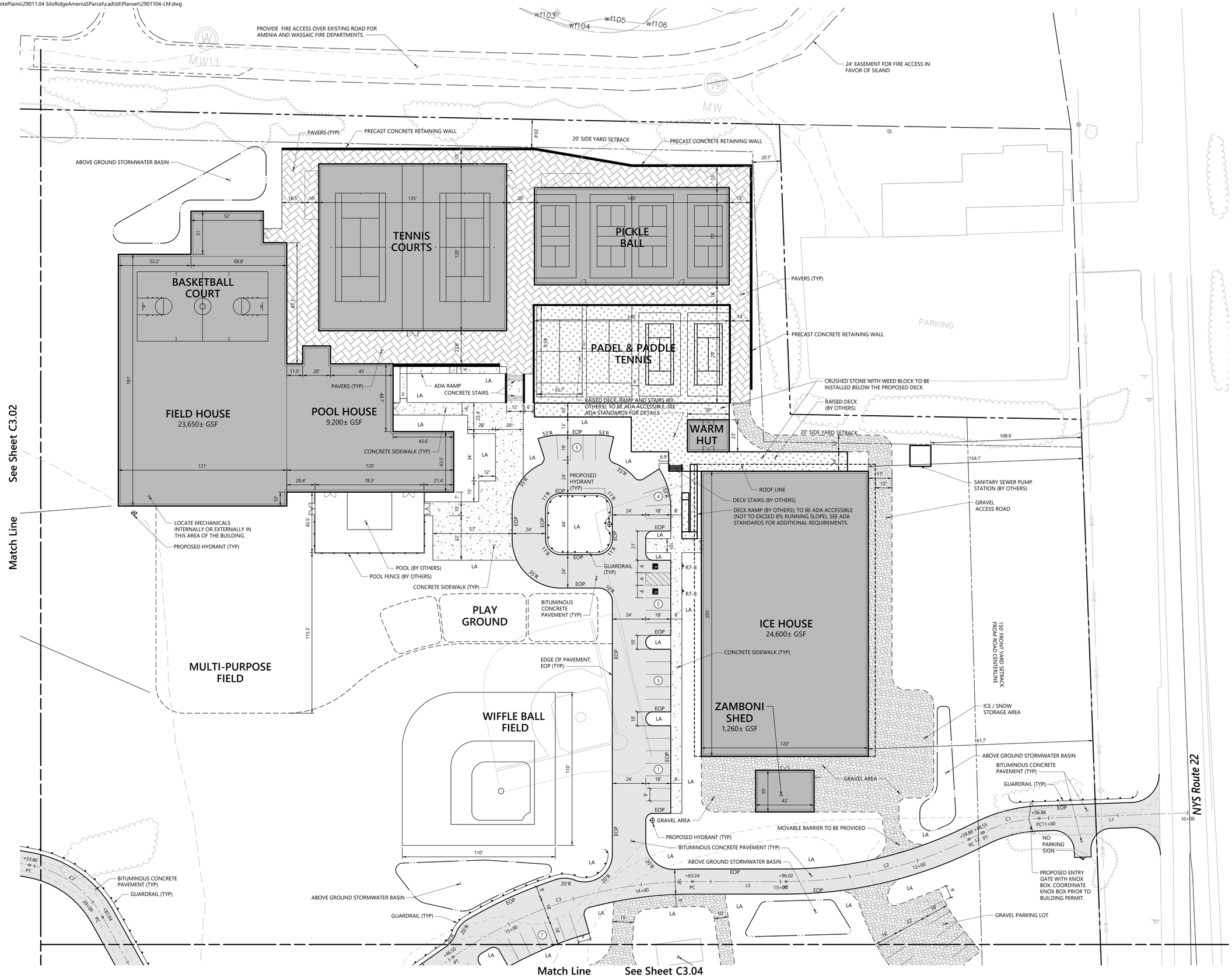

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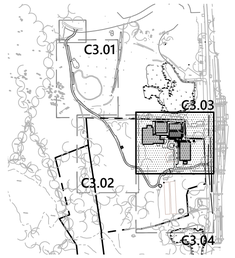

Key
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0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
Layout and Materials Plan

Drawing Number
C3.03

Sheet 11 of 37

Project Number
29011.04

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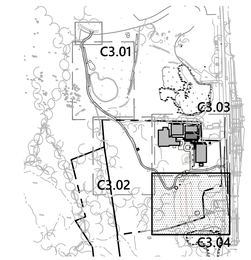

Key
Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
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Layout and Materials Plan

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Drawing Number
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Sheet 12 of 37

Project Number
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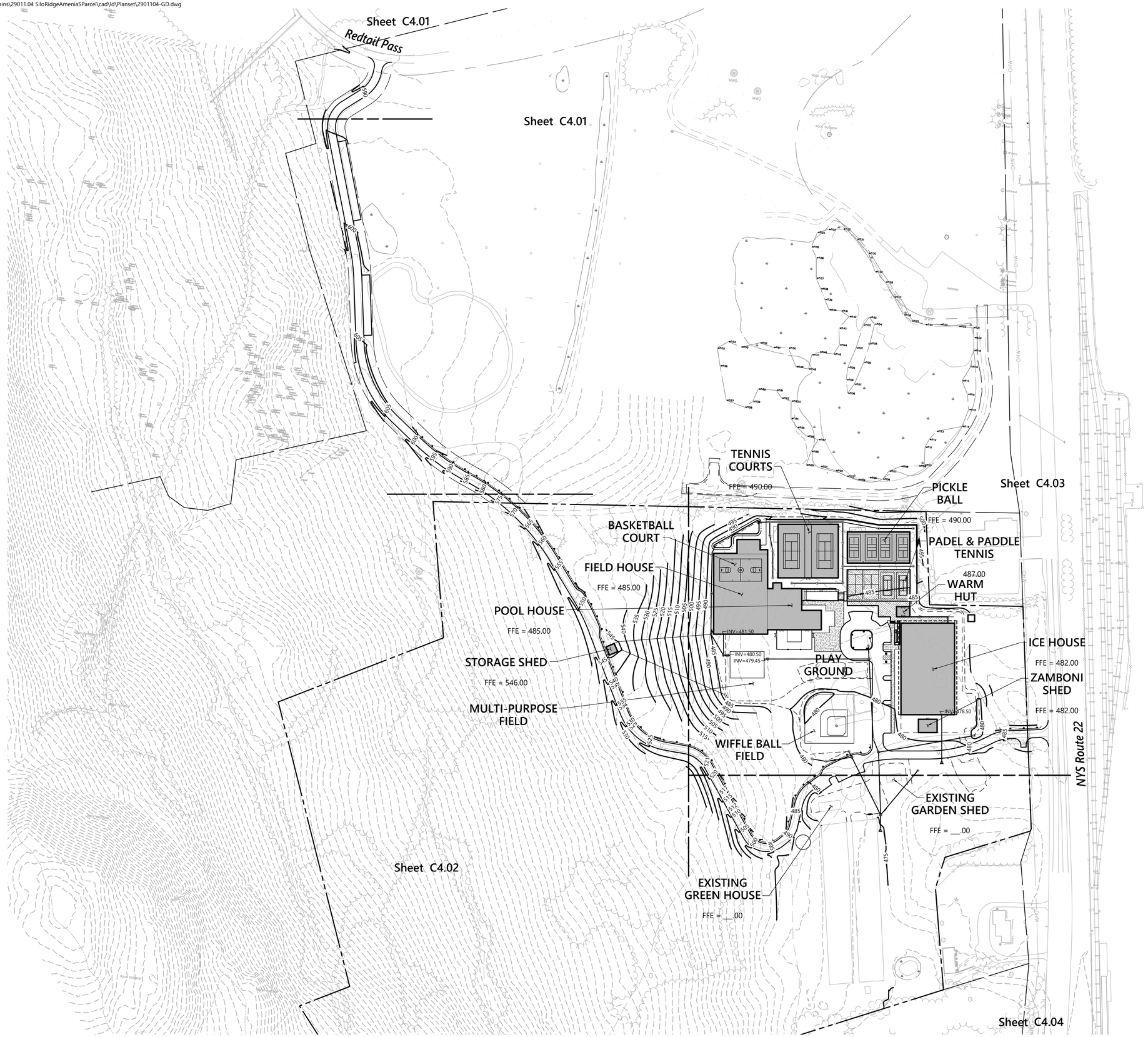

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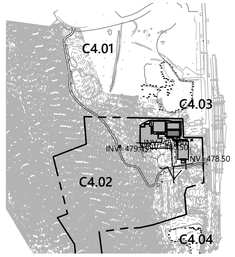

Key

Not To Scale

Notes

1. ADA ROUTE CROSS SLOPES SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%, EXCLUDING RAMPS. ADA ROUTE RAMPS SHALL NOT EXCEED 1:12 SLOPE.
2. ADA PARKING SPACE AND STRIPING SHALL NOT EXCEED 2% IN ALL DIRECTIONS.

0 50 100 200Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
Overall Grading and Drainage Plan

STATE OF NEW YORK · PATRICK NEIL OLEN · 089888 · LICENSED PROFESSIONAL ENGINEER

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Drawing Number
C4.00

Sheet 13 of 37

Project Number
29011.04

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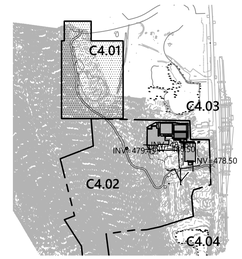

Key
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0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
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Drawing Title
Grading and Drainage Plan

STATE OF NEW YORK
PATRICK NEIL O'LEARY
089858
LICENSED PROFESSIONAL ENGINEER

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Drawing Number
C4.01

Sheet 14 of 37

Project Number
29011.04

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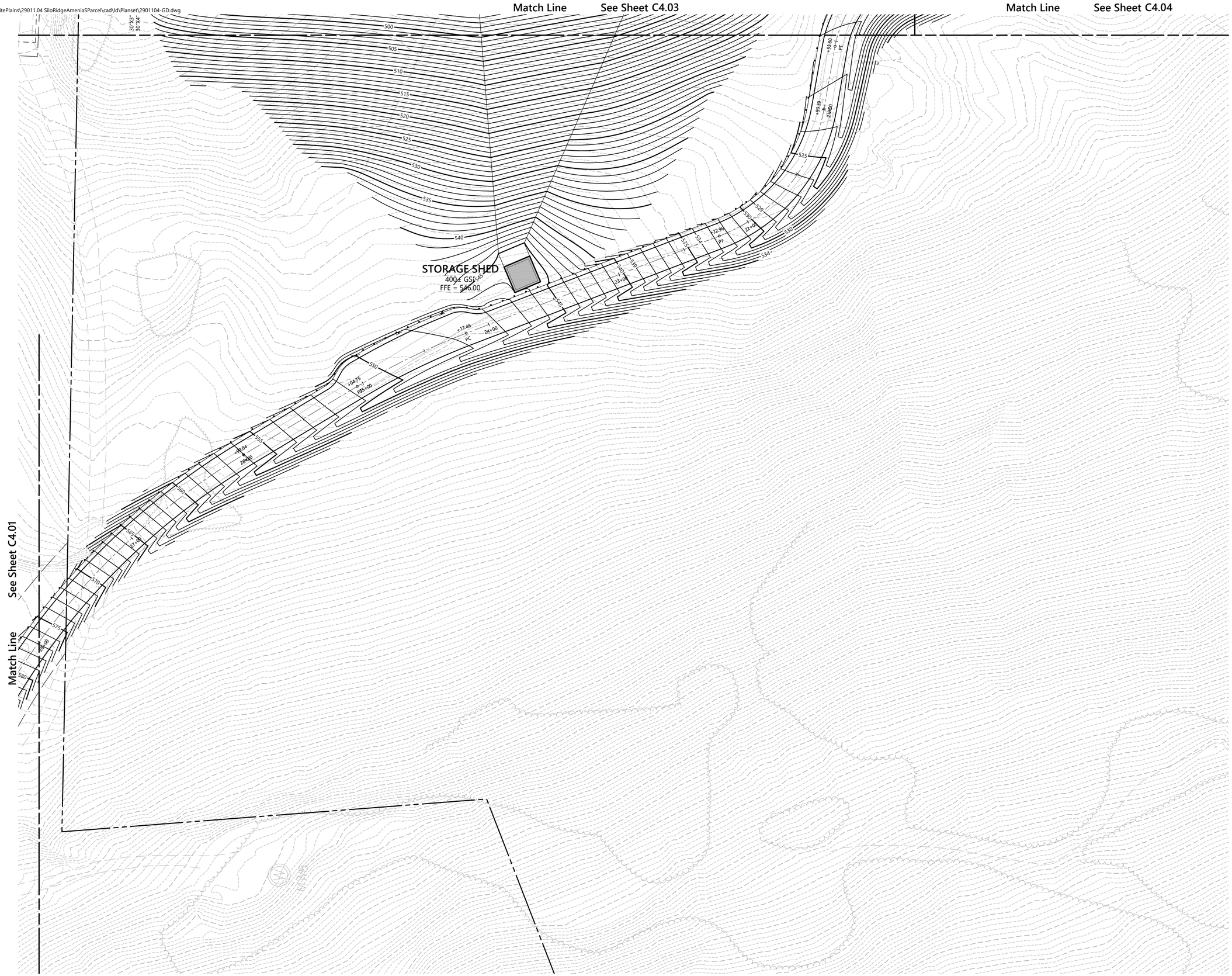

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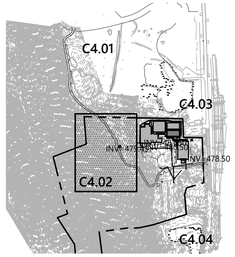

Key

Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
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Drawing Title
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Drawing Number
C4.02

Sheet 15 of 37

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Project Number
29011.04

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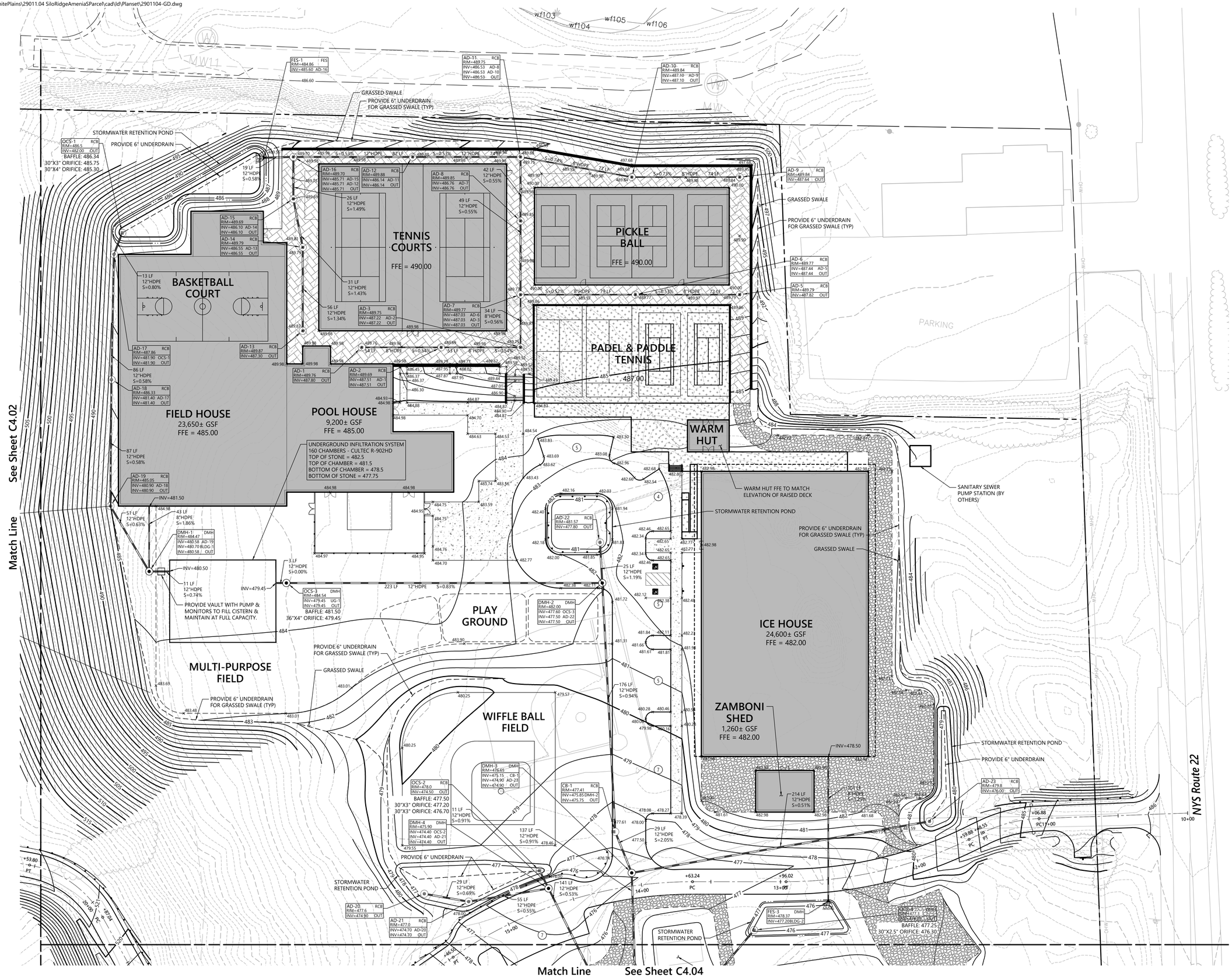

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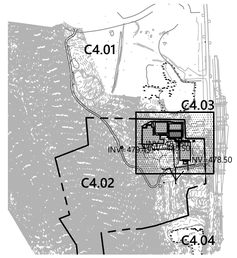

Key
Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
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Drawing Title
Grading and Drainage Plan

Drawing Number
C4.03

Sheet 16 of 37

Project Number
29011.04

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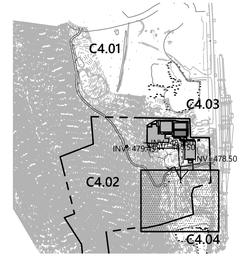

Key
Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
Grading and Drainage Plan

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Drawing Number
C4.04

Sheet 17 of 37

Project Number
29011.04

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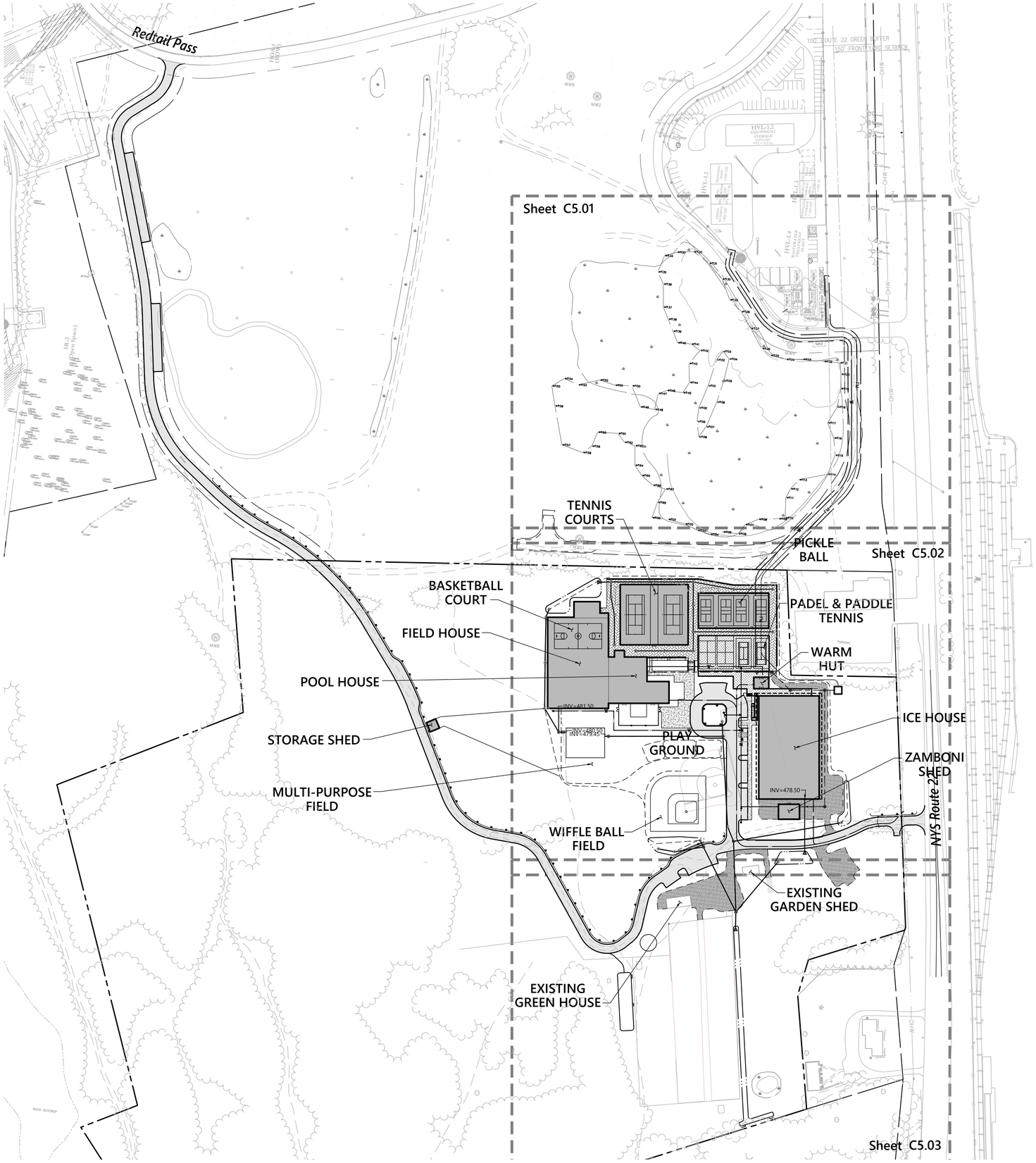

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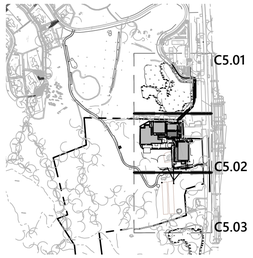

Key

Not To Scale

0 50 100 200Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
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Drawing Title

Overall Utility Plan

STATE OF NEW YORK
PATRICK NEIL O'LEARY
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LICENSED PROFESSIONAL ENGINEER

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Drawing Number

C5.00

Sheet 18 of 37

Project Number

29011.04

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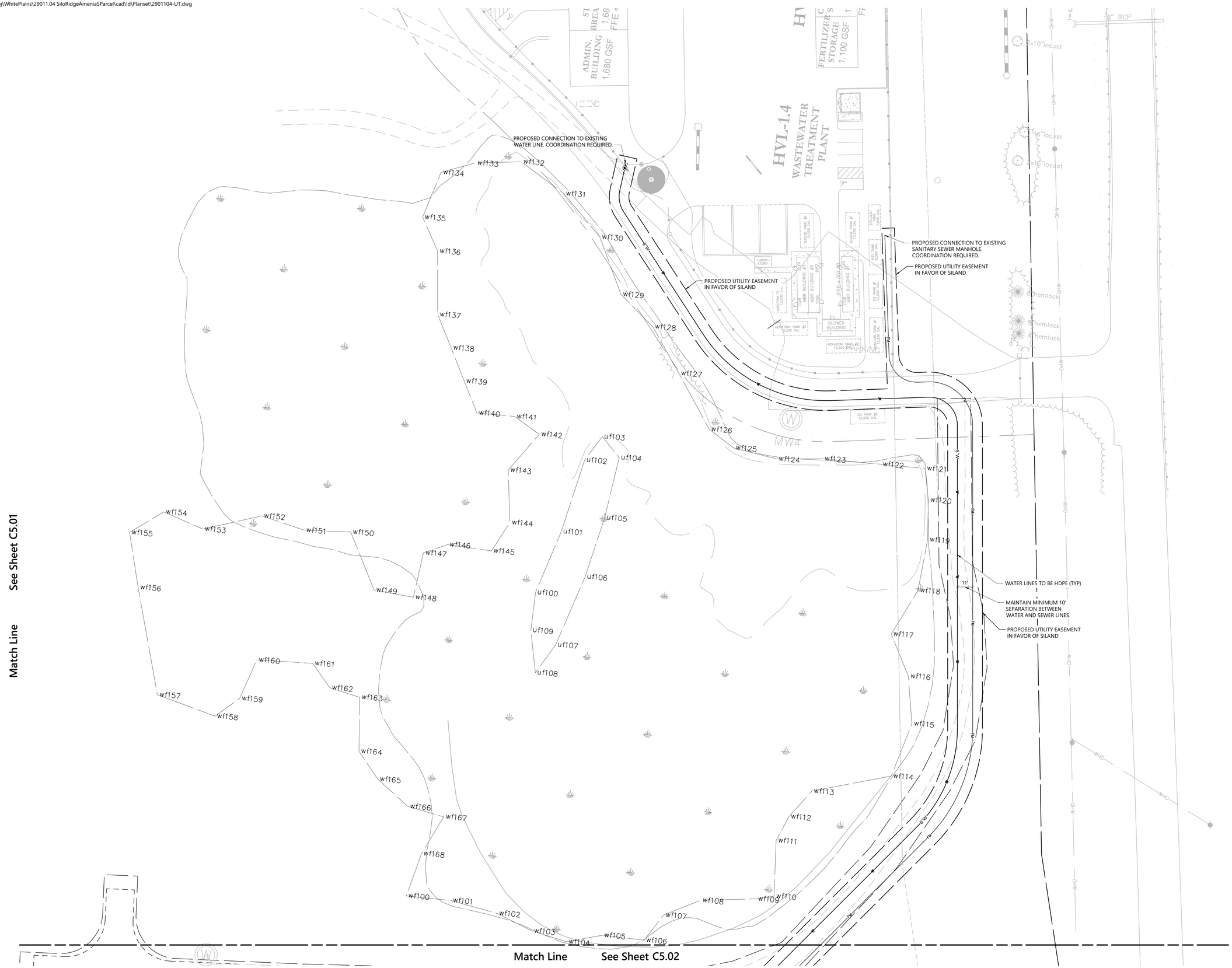

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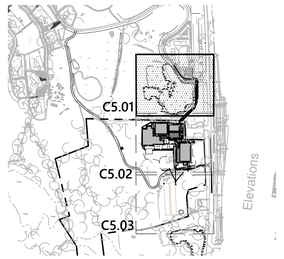

Key
Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
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No.	Revision	Date	Appvd.
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Drawing Title
Utility Plan

STATE OF NEW YORK
PATRICK NEIL O'LEARY
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Drawing Number
C5.01

Sheet 19 of 37

Project Number
29011.04

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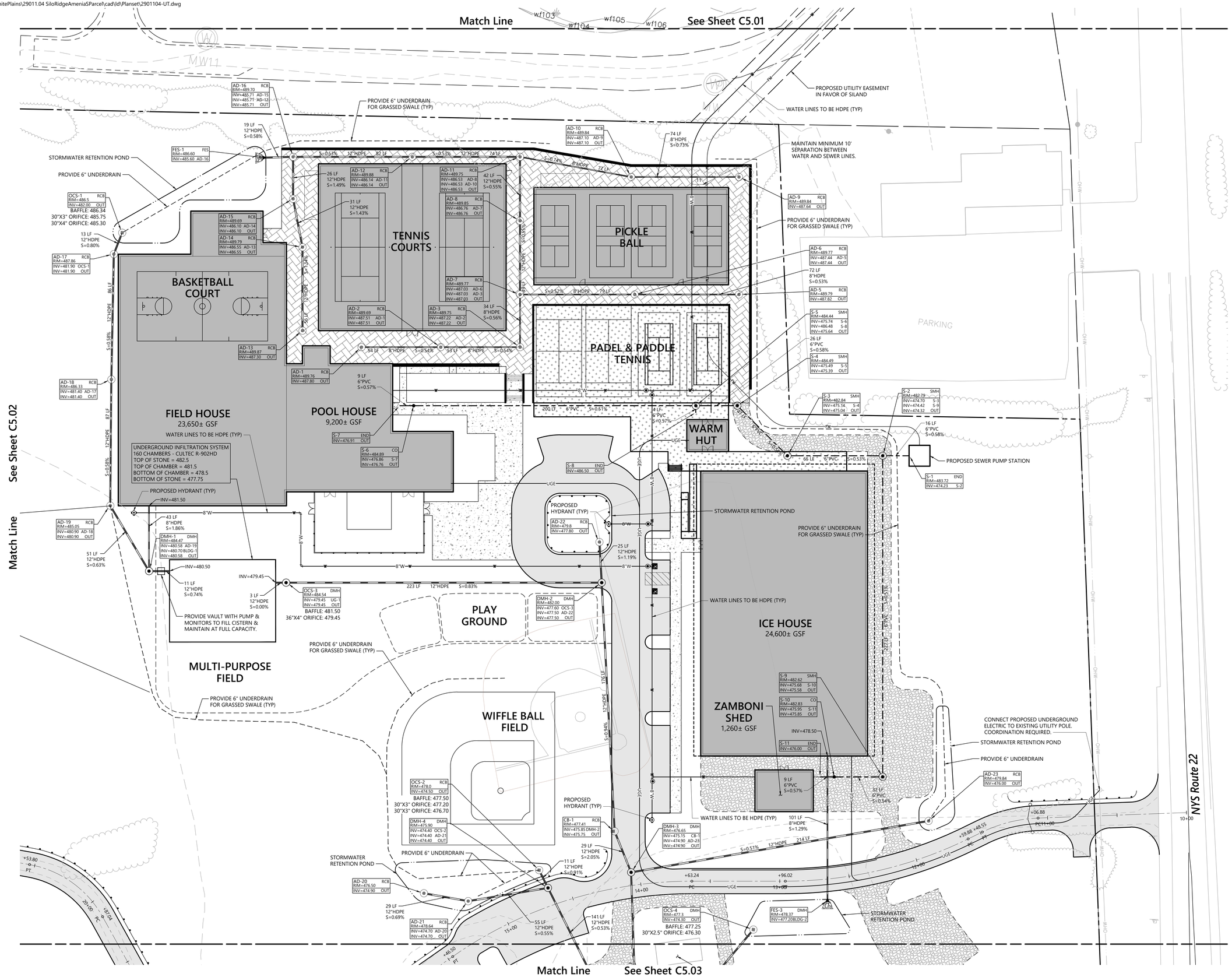

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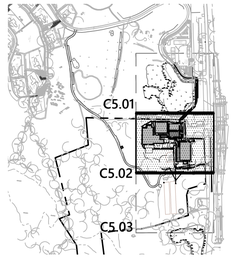

Key

Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

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Drawing Title

Utility Plan

STATE OF NEW YORK
PATRICK NEIL O'LEARY
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LICENSED PROFESSIONAL ENGINEER

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Drawing Number

C5.02

Sheet 20 of 37

Project Number

29011.04

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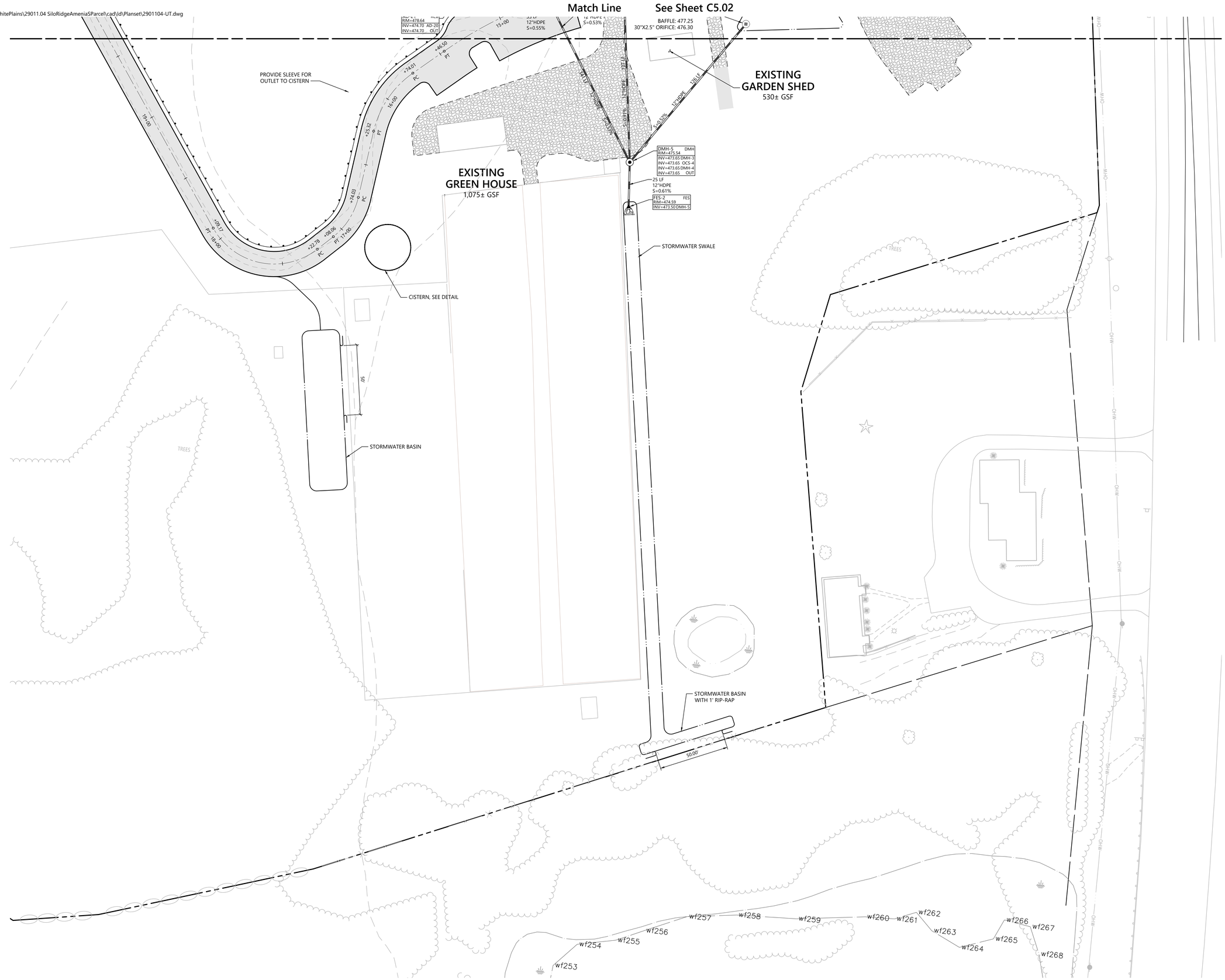

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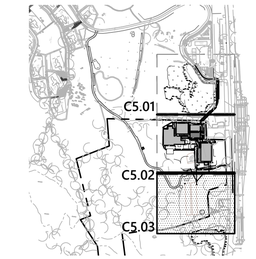

Key
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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

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Date: **October 14, 2021**

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Drawing Title
Utility Plan

STATE OF NEW YORK
PATRICK NEIL O'LEARY
089888
LICENSED PROFESSIONAL ENGINEER

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Sheet 21 of 37

Project Number
29011.04

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Site Sediment and Erosion Narrative:

THE PROPOSED PROJECT CONSISTS OF CONSTRUCTING A RESIDENTIAL BUILDING WITH 179 UNITS AND 11 FLOORS, 5-STORY PARKING GARAGE, 2-STORY BOYS & GIRLS CLUB (WITH BASEMENT), AND UNDERGROUND UTILITIES.
THE APPROXIMATELY ±2.20 ACRE SITE WILL BE DEVELOPED IN A SINGLE PHASE PROJECT. APPROXIMATELY ±2.20 ACRES WILL BE DISTURBED DURING CONSTRUCTION.
TO CONTROL SEDIMENT EROSION DURING EARTH FILLING OPERATIONS, THE CONTRACTOR SHALL EMPLOY TECHNIQUES OUTLINED IN THE CONSTRUCTION SEQUENCE AND EROSION CONTROL NOTES TO ENSURE THAT EROSION DOES NOT OCCUR AND THAT SEDIMENT IS NOT TRANSPORTED OFF.
THE EARTHWORK IS PLANNED TO START JANUARY 2021 AND BE COMPLETED JANUARY 2023.
THE EROSION AND SEDIMENTATION CONTROLS SHALL BE EMPLOYED BY THE CONTRACTOR DURING THE EARTHWORK AND CONSTRUCTION PHASES OF THE PROJECT IN ACCORDANCE WITH THE NYS DEC EROSION GUIDELINES
REFER TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND DRAINAGE/STORMWATER MANAGEMENT REPORT FOR MORE INFORMATION.

Temporary Erosion and Sedimentation Control Maintenance (throughout construction):

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING EACH CONTROL SHOWN ON THE SEDIMENTATION AND EROSION CONTROL PLAN.

PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

THE SITE CONTRACTOR WILL INSPECT ALL SEDIMENT AND EROSION CONTROL STRUCTURES PERIODICALLY AND AFTER EACH RAINFALL EVENT IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). RECORDS OF THE INSPECTIONS WILL BE PREPARED AND MAINTAINED ON-SITE BY THE CONTRACTOR. THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN 24 HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

SILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED.

DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.

THE UNDERSIDE OF STRAW BALES SHOULD BE KEPT IN CLOSE CONTACT WITH THE EARTH AND RESET AS NECESSARY.

SEDIMENT THAT IS COLLECTED IN STRUCTURES SHALL BE DISPOSED OF PROPERLY AND COVERED IF STORED ON-SITE.

EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. AFTER REMOVAL OF STRUCTURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS SOON AS PRACTICAL.

MAINTAIN THE CONSTRUCTION ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.

CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

Construction Sequence:

1. THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT ROADS/HIGHWAYS AND THEIR DRAINAGE SYSTEM, NEIGHBORING PROPERTIES, AND REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. PRIOR TO CONSTRUCTION, THE APPLICANT SHALL PROVIDE THE TOWN OF AMENIA WITH THE NAME FOR THE 24 HOUR CONTACT.
2. CONTRACTOR SHALL ADHERE TO NEW YORK STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
3. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
4. HOLD PRE-CONSTRUCTION MEETING. (REMEMBER TO CALL "DIG SAFELY NEW YORK' 1-800-962-7962 OR 811).
5. NOTIFY THE TOWN OF AMENIA ZONING ENFORCEMENT OFFICER AND ENGINEERING DEPARTMENT, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
6. INSTALL STABILIZED VEHICLE CONSTRUCTION EXIT.
7. INSTALL EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH THE E&S PLAN FOR THE SITE INCLUDING SILT FENCE BARRIERS AND SILT SACKS.
8. COMPLETE DEMOLITION.
9. ESTABLISH ROUGH GRADE ON THE SITE.
10. CONSTRUCT BUILDING AND UNDERGROUND UTILITIES. INSTALL SILT SACK SEDIMENT TRAPS IN ALL NEW CATCH BASINS.
11. INSTALL PAVEMENT BASE & FIRST COURSE OF BITUMINOUS CONCRETE.
12. INSTALL LANDSCAPING & LOAM AND SEED ALL DISTURBED AREAS.
13. AFTER SITE IS STABILIZED REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS.
14. LOAM AND SEED ALL DISTURBED AREAS.
15. WHEN ALL OTHER WORK HAS BEEN COMPLETED, REPAIR AND SWEEP ALL PAVED AREAS FOR THE FINAL COURSE OF PAVING. INSPECT THE DRAINAGE SYSTEM AND CLEAN AS NEEDED.
16. INSTALL FINAL COURSE OF PAVEMENT.
17. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

Erosion & Sediment Control Techniques:

THE FOLLOWING EROSION AND SEDIMENTATION CONTROLS SHALL BE EMPLOYED BY THE CONTRACTOR DURING THE EARTHWORK AND CONSTRUCTION PHASES OF THE PROJECT IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL NOVEMBER 2016.

SILT FENCING
IN AREAS WHERE HIGH RUNOFF VELOCITIES OR HIGH SEDIMENT LOADS ARE EXPECTED, STRAW BALE BARRIERS WILL BE BACKED UP WITH SILT FENCING. THIS SEMI-PERMEABLE BARRIER MADE OF A SYNTHETIC POROUS FABRIC WILL PROVIDE ADDITIONAL PROTECTION. THE SILT FENCES AND STRAW BALE BARRIER WILL BE REPLACED AS DETERMINED BY PERIODIC FIELD INSPECTIONS.

STRAW BALE BARRIERS
STRAW BALE BARRIERS WILL BE PLACED TO TRAP SEDIMENT TRANSPORTED BY RUNOFF BEFORE IT REACHES THE DRAINAGE SYSTEM OR LEAVES THE CONSTRUCTION SITE. BALES WILL BE SET AT LEAST FOUR INCHES INTO THE EXISTING GROUND TO MINIMIZE UNDERCUTTING BY RUNOFF.

CATCH BASIN PROTECTION
NEWLY CONSTRUCTED AND EXISTING CATCH BASINS WILL BE PROTECTED WITH SILT SACKS THROUGHOUT CONSTRUCTION.

GRAVEL AND CONSTRUCTION ENTRANCE/EXIT
A TEMPORARY CRUSHED-STONE CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. A CROSS SLOPE WILL BE PLACED IN THE ENTRANCE TO DIRECT RUNOFF TO THE SEDIMENT TRAP.

STOCKPILE MANAGEMENT
SIDESLOPES OF STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES NOT USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE. STRAW BALES AND SILT FENCE ARE TO BE PLACED AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE TOW OF SLOPE.

DUST CONTROL
PERIODICALLY MOISTEN EXPOSED SURFACES ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAY DAMP AND REDUCE DUST.

CONCRETE TRUCK WASHOUT
CONCRETE WASHOUT SHALL BE LOCATED A MINIMUM OF 50 FT FROM ANY DRAINAGE INLET OR CONCENTRATED ONCE CONCRETE WASTE HAS BEEN WASHED IN THE WASHOUT AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP AND REMOVED FROM THE SITE. THE CONTRACTOR SHALL REMOVE WASHED OUT CONCRETE ON A REGULAR BASIS. PLASTIC LINING SHALL BE A MINIMUM OF 10 MIL, POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES AND TEARS AND CLEANED OUT ONCE 75% CAPACITY IS REACHED. STRAW BALES MAY BE SUBSTITUTED WITH ALTERNATE SECURING MEASURES SUCH AS CONCRETE BLOCKS

Post Construction Stormwater Management:

THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ENSURING THAT STORMWATER MANAGEMENT SYSTEMS BE INSPECTED AND MAINTAINED. THE FOLLOWING PLAN COMPONENTS SHALL BE ADHERED TO:

SOURCE CONTROL
A COMPREHENSIVE SOURCE CONTROL PROGRAM WILL BE IMPLEMENTED AT THE SITE, WHICH INCLUDES REGULAR PAVEMENT SWEEPING AT A MINIMUM 2 TIMES PER YEAR, CATCH BASIN CLEANING, AND MAINTENANCE AND CLEARING OF LITTER FROM PARKING AREAS AND PERIMETER LANDSCAPED AREAS. CLEAN ALL CATCH BASINS AND STRUCTURES TWICE ANNUALLY TO REMOVE ACCUMULATED SAND, SEDIMENT, AND FLOATABLE PRODUCTS OR AS NEEDED BASED ON USE.

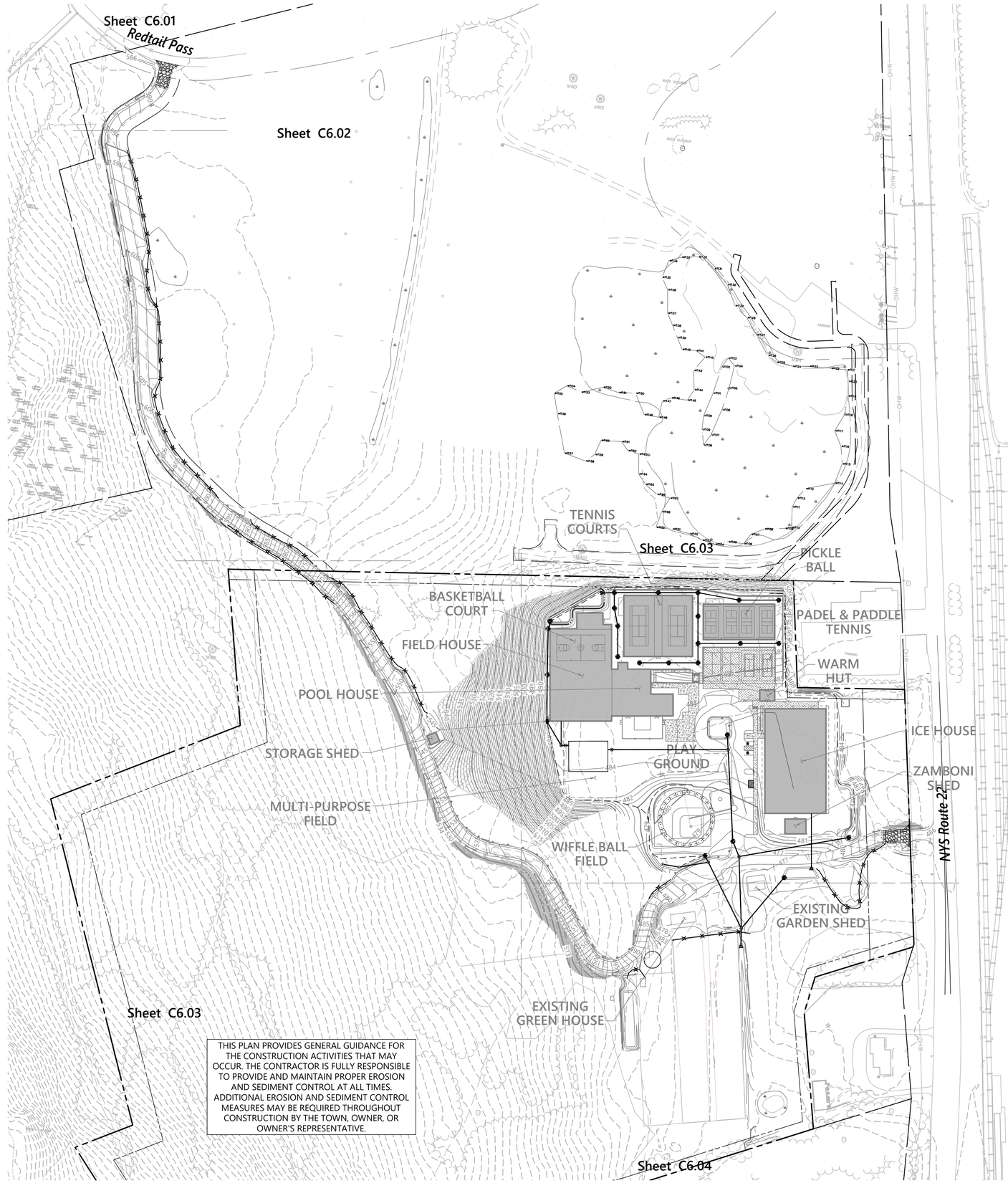
SUBSURFACE RETENTION SYSTEM
THE SUBSURFACE DETENTION SYSTEM IS AN UNDERGROUND DETENTION SYSTEM TO BE USED FOR SURFACE RUNOFF. INSPECT THE UNDERGROUND DETENTION SYSTEM ANNUALLY, IN THE SPRING. NECESSARY REPAIRS WILL BE PERFORMED IMMEDIATELY UPON IDENTIFICATION.

STORMWATER RETENTION BASIN
WHEN THE FILTERING CAPACITY DIMINISHES SUBSTANTIALLY (I.E., WHEN THE WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 48 HOURS), THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REMOVED AND REPLACED WITH FRESH MATERIAL. AREAS DEVOID OF MULCH SHALL BE RE-MULCHED ON AN ANNUAL BASIS. DEAD OR DISEASED PLANT MATERIAL SHALL BE REPLACED AS NECESSARY.

CISTERN
QUARTERLY INSPECTIONS ARE RECOMMENDED DURING THE FIRST YEAR OF OPERATION TO ESTABLISH SEASONAL TRENDS FOR A SPECIFIC LOCATION. AFTER ONE YEAR, ANNUAL INSPECTIONS WILL INSURE THAT SYSTEMS ARE CLEANED OUT AT THE APPROPRIATE TIME. CLEANING SHOULD BE DONE DURING THE DRY SEASON WHEN THERE IS LITTLE OR NO WATER IN THE CISTERN. ALL DEBRIS SHOULD BE REMOVED AND SEDIMENT SHOULD BE VACUUMED AND CLEANED FROM THE CISTERN SUMP AREA, CALMING INLET, AND PUMP SUMP.

DEEP SUMP CATCH BASINS
CATCH BASINS AT THE SITE ARE TO BE CONSTRUCTED WITH SUMPS (MINIMUM 4-FEET) TO TRAP DEBRIS AND SEDIMENTS. CATCH BASINS WILL BE CLEANED TWICE PER YEAR.

ALL E&S CONTROL MEASURES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL OF 0.5 INCHES IN 24 HOURS.



THIS PLAN PROVIDES GENERAL GUIDANCE FOR THE CONSTRUCTION ACTIVITIES THAT MAY OCCUR. THE CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED THROUGHOUT CONSTRUCTION BY THE TOWN, OWNER, OR OWNER'S REPRESENTATIVE.

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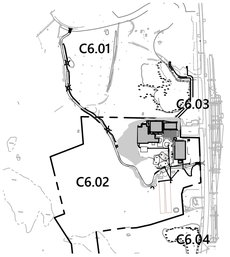

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

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Issued for: Local Approvals
Date: October 14, 2021

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Drawing Title
Overall Erosion Control Plan

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Drawing Number
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Sheet 22 of 37

Project Number
29011.04

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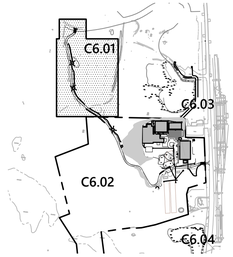

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Apprvd.
1	TOWN COMMENTS	10/14/21	PNO
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October 14, 2021

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Drawing Title
Erosion Control Plan

STATE OF NEW YORK
PATRICK NEIL OLEAR
089868
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Drawing Number
C6.01

Sheet 23 of 37

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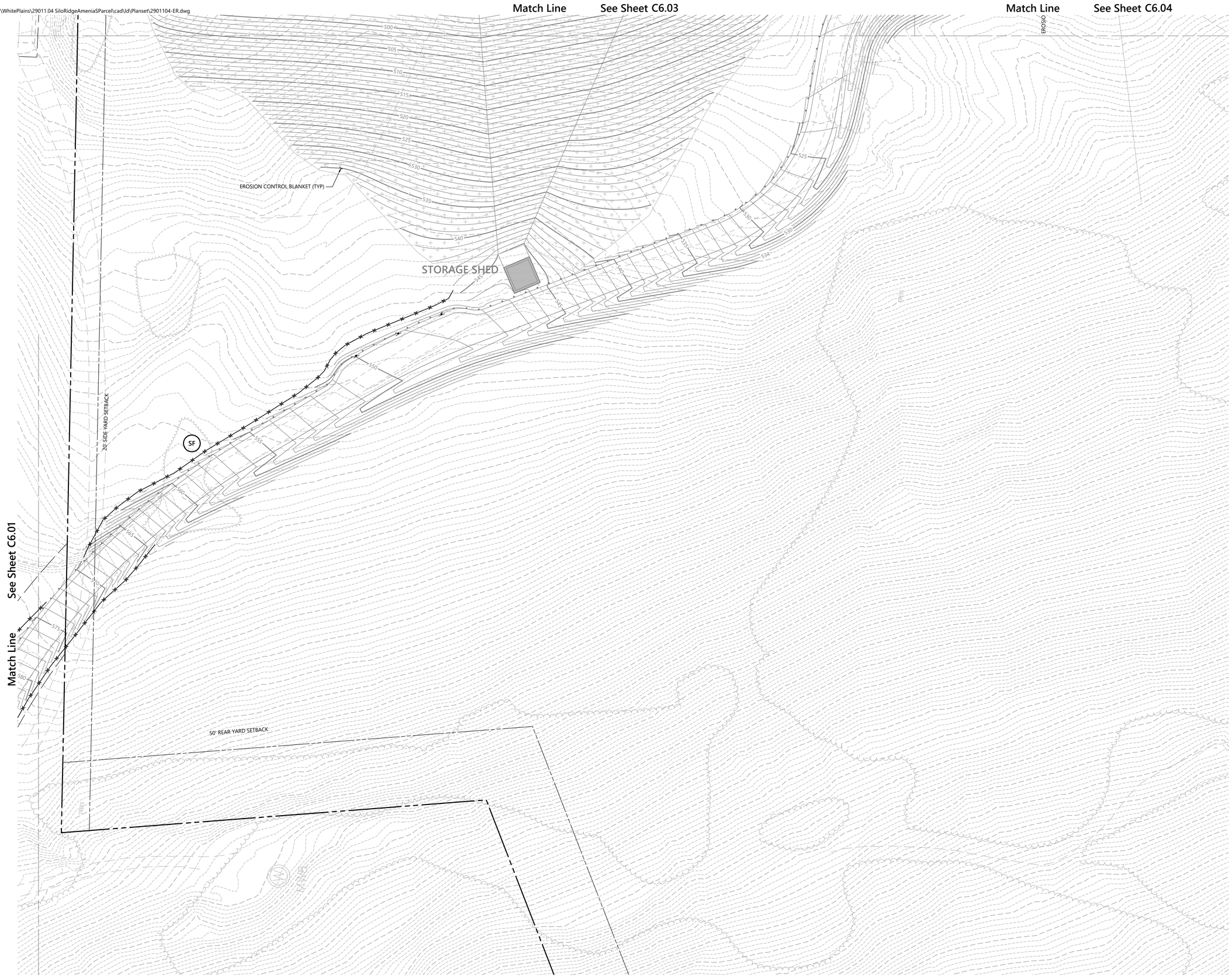

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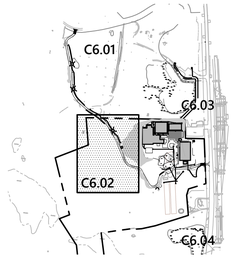

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
Erosion Control Plan

STATE OF NEW YORK
PATRICK NEIL O'LEARY
089858
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Project Number
29011.04

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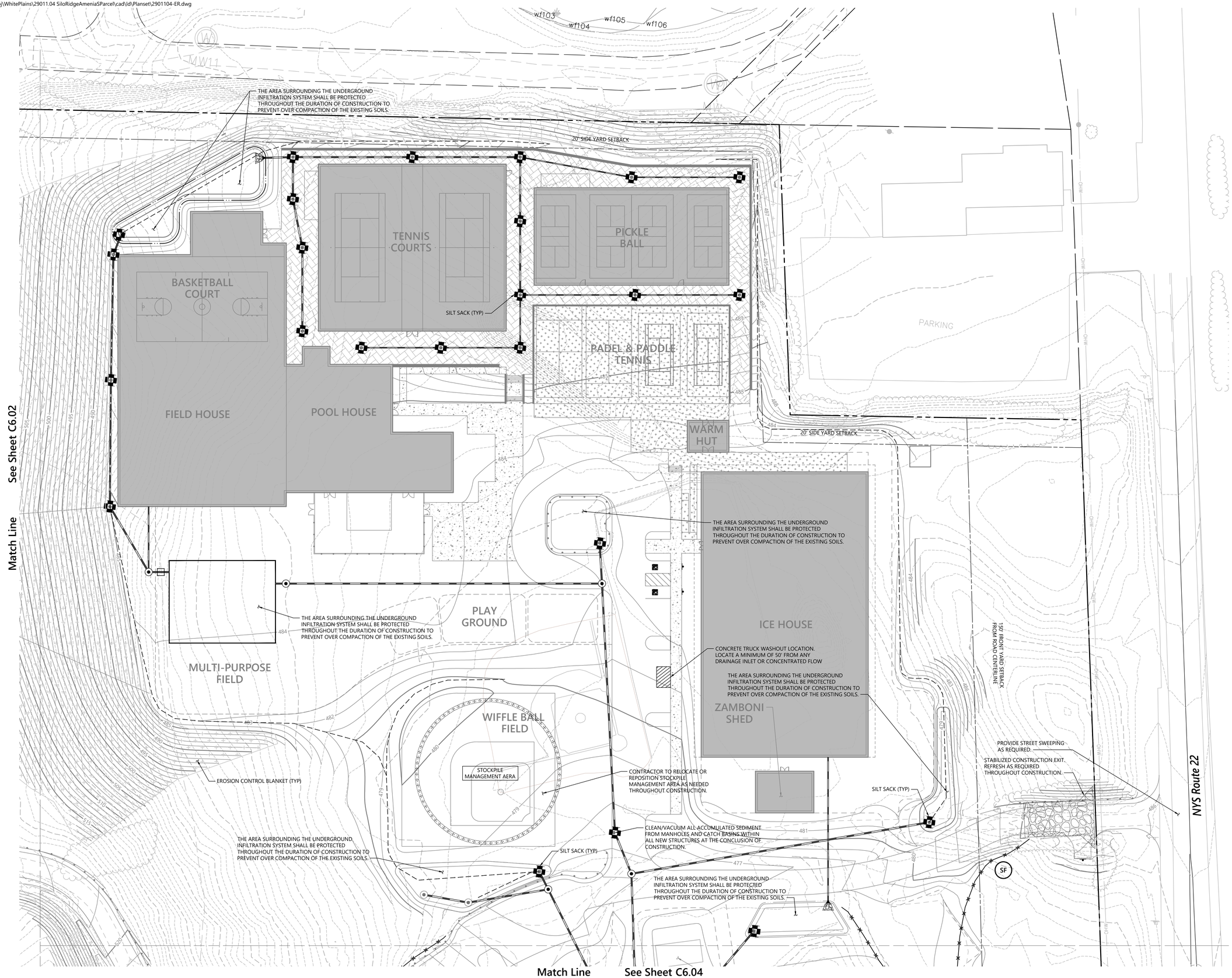

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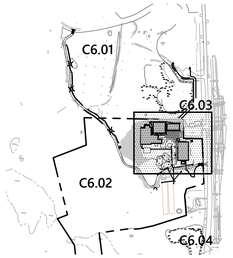

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
Erosion Control Plan

Drawing Number
C6.03

Sheet 25 of 37

Project Number
29011.04

STATE OF NEW YORK
PATRICK NEIL OTLEA
089868
LICENSED PROFESSIONAL ENGINEER

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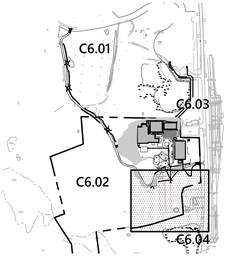

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Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

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Drawing Title
Erosion Control Plan

STATE OF NEW YORK
PATRICK NEIL O'LEARY
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Sheet 26 of 37

Project Number
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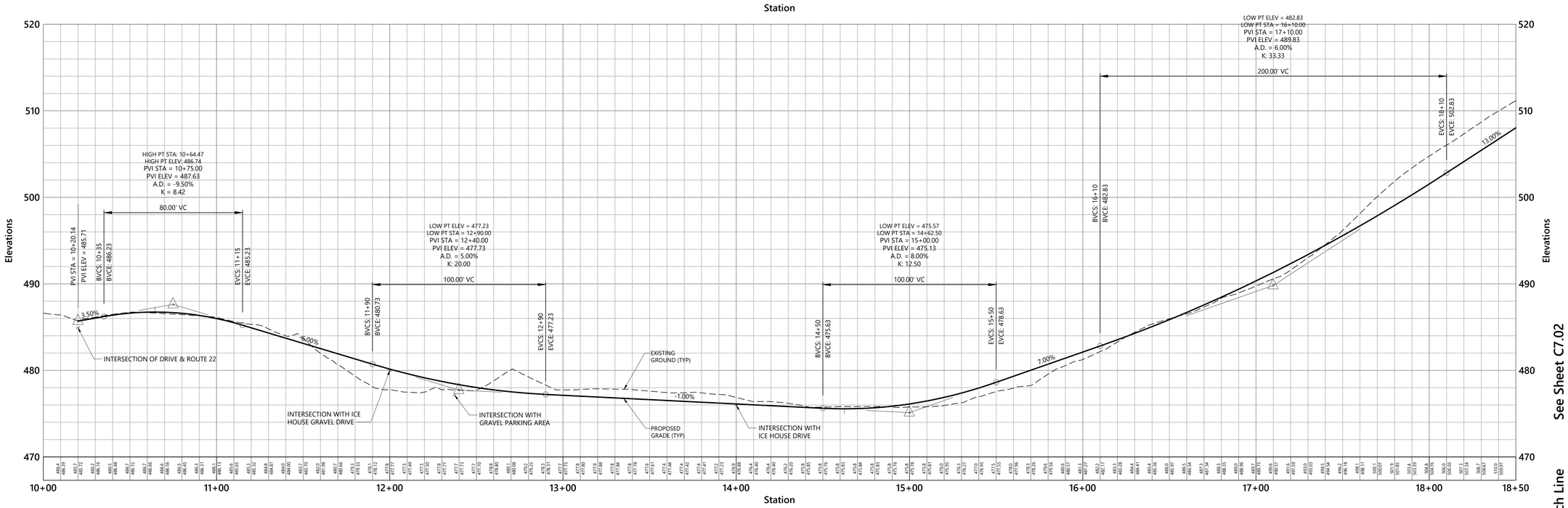
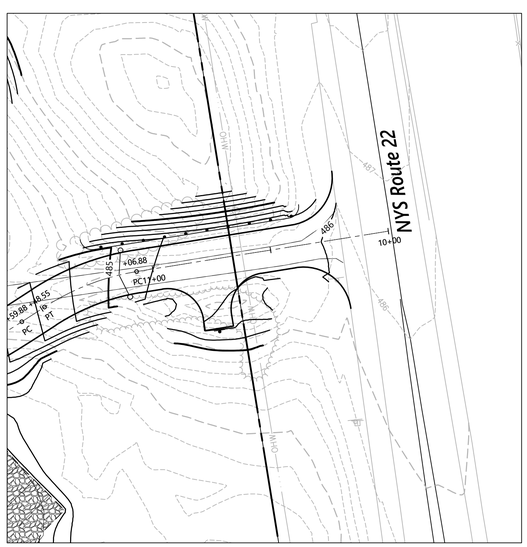


Match Line

See Sheet C7.02



Route 22 Intersection - Plan View

1" = 30'

0 15 30 60 Feet

Vert. 0 3 6 12 Feet
Horiz. 0 15 30 60 Feet

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Drawing Title
Road Profile

Drawing Number
C7.01

Sheet 27 of 37

Project Number
29011.04

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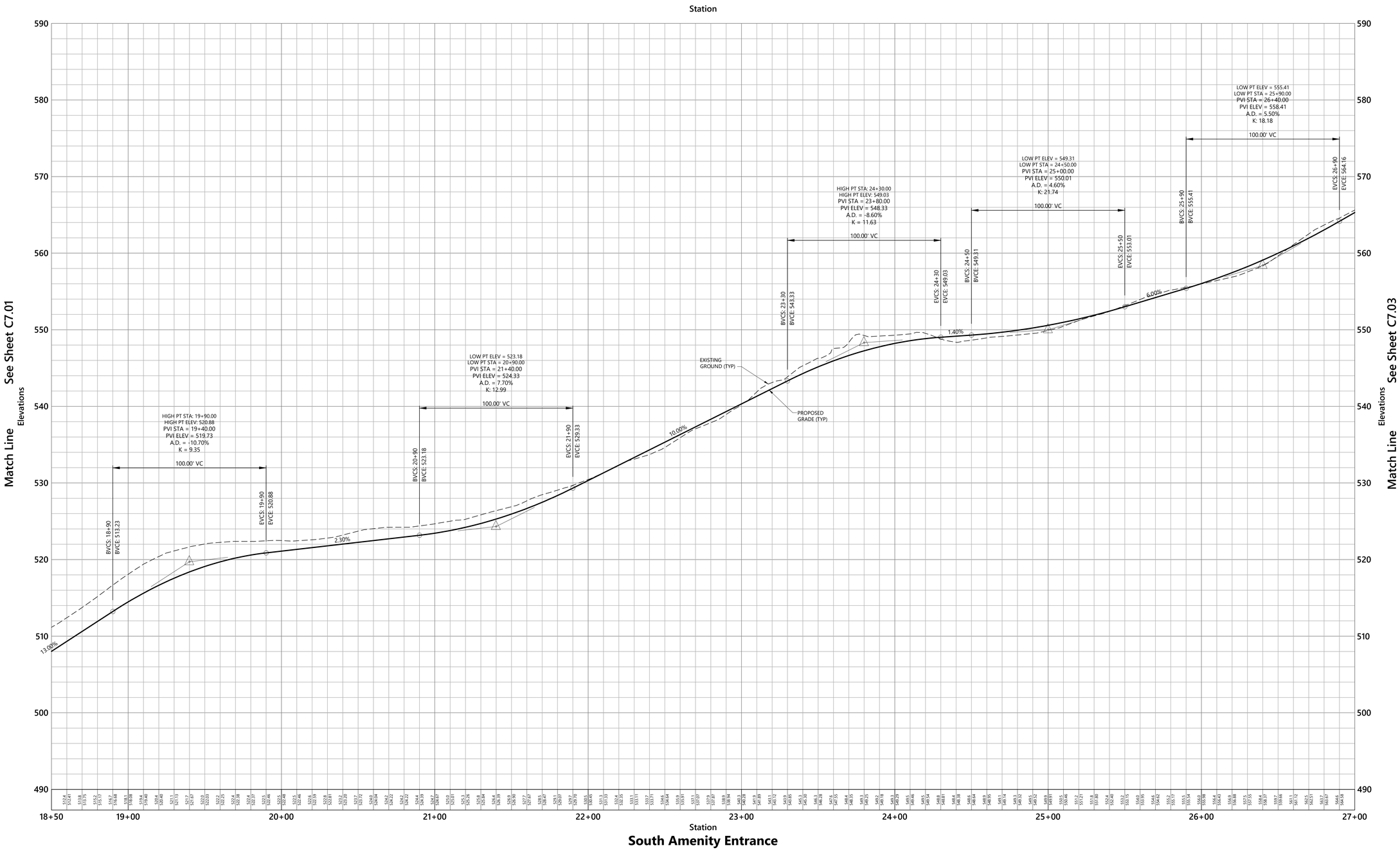

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Sheet 28 of 37

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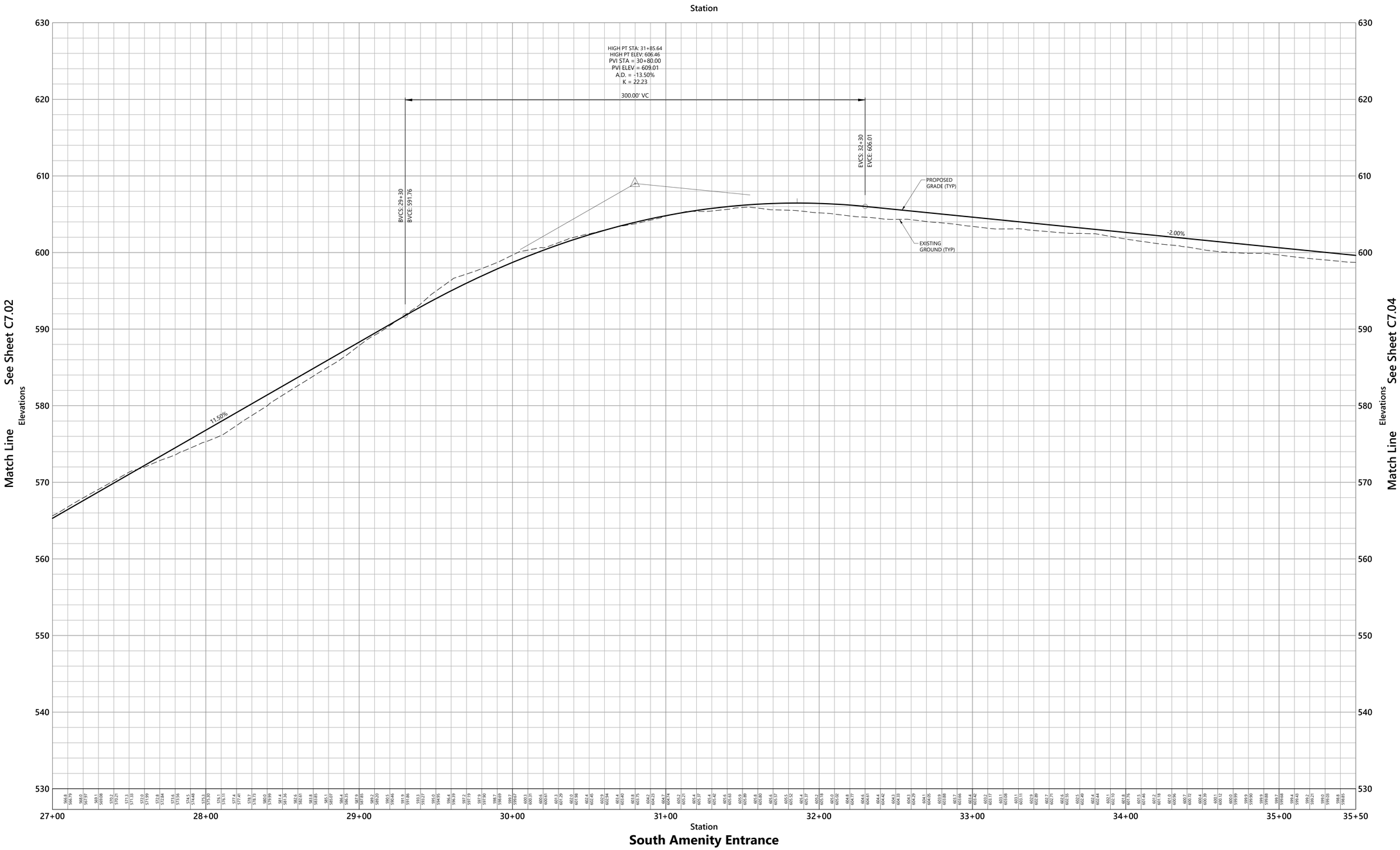

Vert. 0 3 6 12 Feet
Horiz. 0 15 30 60 Feet

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Drawing Title
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C7.03

Sheet 29 of 37

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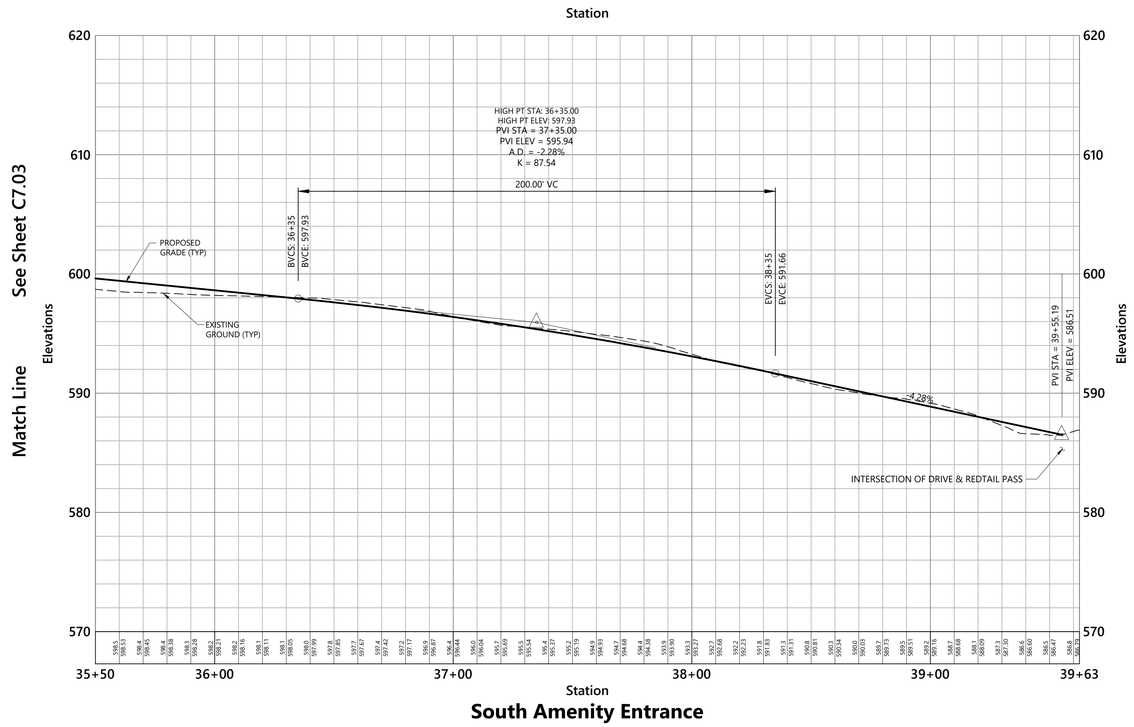
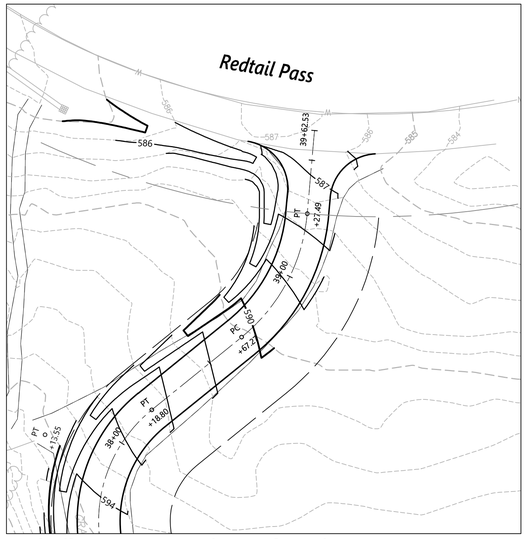
914.467.6600



South Amenity Entrance



Redtail Pass Intersection - Plan View

1" = 30'

0 15 30 60 Feet

Vert. 0 3 6 12 Feet
Horiz. 0 15 30.0001 60.0001 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

Designed by
Checked by

Issued for: Local Approvals
Date: October 14, 2021

Not Approved for Construction

Drawing Title
Road Profile

Drawing Number
C7.04

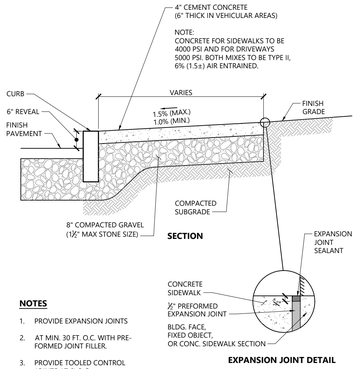
Sheet 30 of 37

Project Number
29011.04

STATE OF NEW YORK · PATRICK NEIL O'LEARY · 089859 · LICENSED PROFESSIONAL ENGINEER

IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER ANY DOCUMENT THAT BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER

Saved Monday, January 3, 2022 10:56:58 AM EBREWER Plotted Tuesday, January 4, 2022 11:10:35 AM Emma Brewer

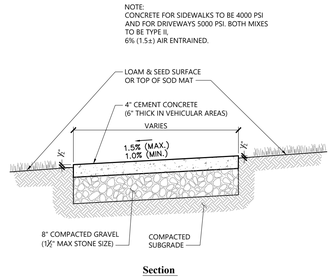


NOTES

1. PROVIDE EXPANSION JOINTS
2. AT MIN. 30 FT. O.C. WITH PRE-FORMED JOINT FILLER.
3. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
4. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.

Concrete Sidewalk 1/16

N.T.S. Source: VHB LD_420

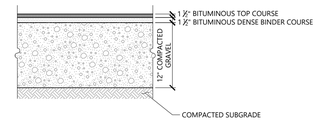


NOTES

1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE- FORMED JOINT FILLER.
2. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO SIDEWALK DIRECTION.

Concrete Sidewalk in Landscape Area 1/16

N.T.S. Source: VHB LD_426

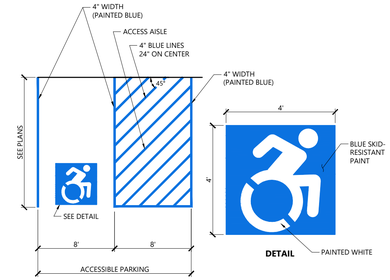


NOTES

PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

Bituminous Concrete Pavement Sections 1/16

N.T.S. Source: VHB LD_430

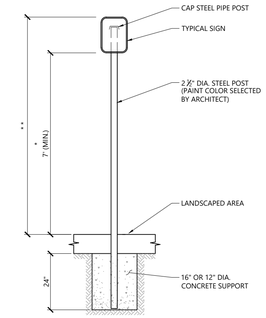


NOTES

1. ALL DIMENSIONS TO CENTER OF PAVEMENT STRIPING.
2. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 1.5%.
3. THE ACCESSIBLE SYMBOL DEPICTED ABOVE DOES NOT COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND IS SHOWN FOR COMPLIANCE WITH STATE AND LOCAL REGULATIONS ONLY.

Accessible Parking Space 1/16

N.T.S. Source: VHB LD_552c

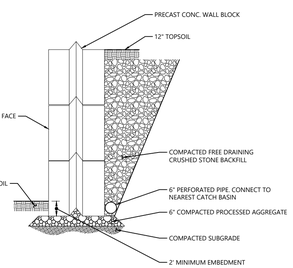


* THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE SIGNAGE.

* * THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR ACCESSIBLE SIGNAGE.

Sign Post - Type 'A' 1/16

N.T.S. Source: VHB LD_701

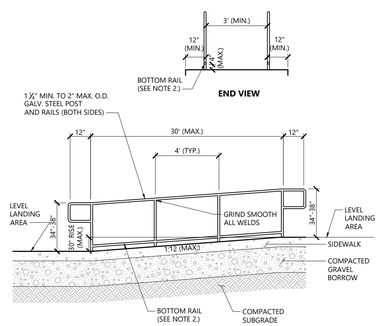


NOTES

1. PRECAST CONCRETE BLOCKS FOR WALL SHALL BE 6'X3'X3' INTERLOCKING BLOCK MANUFACTURED BY AUDI & SONS CONCRETE OR APPROVED EQUAL.
2. THIS DETAIL IS PROVIDED FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS STAMPED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF NEW YORK PRIOR TO CONSTRUCTING WALLS

Precast Concrete Wall Block

N.T.S. Source: VHB

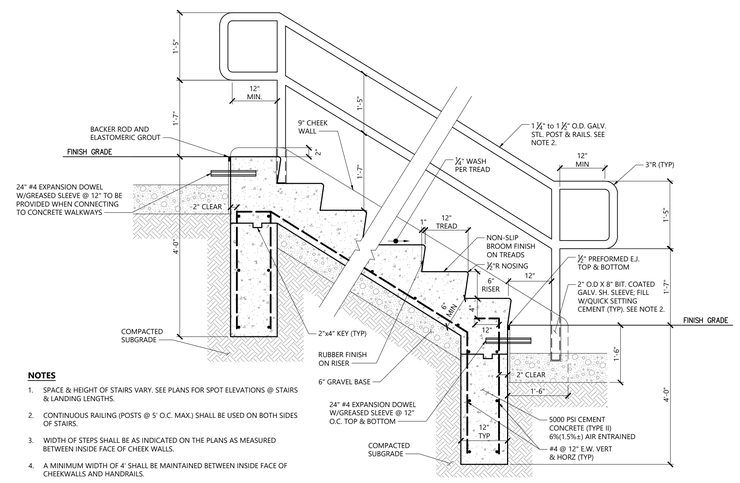


NOTES

1. FOR ADDITIONAL INFORMATION ON RAMPS SEE SECTION 405 RAMPS OF THE DEPARTMENT OF JUSTICE 2010 STANDARDS.
2. EDGE PROTECTION TO BE PROVIDED BY EXTENDING THE RAMP SURFACE 12 INCHES BEYOND THE INSIDE FACE OF THE HANDRAIL OR PROVIDING A BOTTOM RAIL WITH THE BOTTOM OF THE RAIL TO BE NO HIGHER THAN 4 INCHES ABOVE THE RAMP SURFACE.
3. REFER TO SIDEWALK DETAIL FOR SIDEWALK CONSTRUCTION.

ADA Ramp 1/16

N.T.S. Source: VHB LD_764A

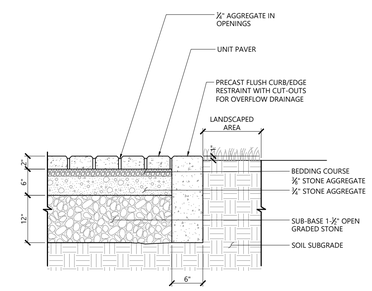


NOTES

1. SPACE & HEIGHT OF STAIRS VARY. SEE PLANS FOR SPOT ELEVATIONS @ STAIRS & LANDING LENGTHS.
2. CONTINUOUS RAILING (POSTS @ 5' O.C. MAX.) SHALL BE USED ON BOTH SIDES OF STAIRS.
3. WIDTH OF STEPS SHALL BE AS INDICATED ON THE PLANS AS MEASURED BETWEEN INSIDE FACE OF CHEEK WALLS.
4. A MINIMUM WIDTH OF 4' SHALL BE MAINTAINED BETWEEN INSIDE FACE OF CHEEKWALLS AND HANDRAILS.

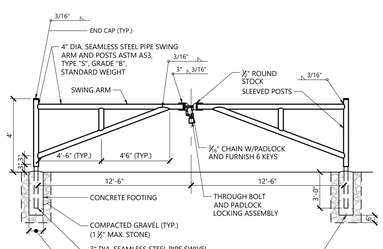
Concrete Steps with Handrail 11/15

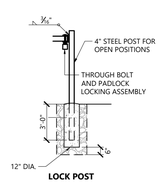
N.T.S. Source: VHB LD_765

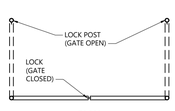


Unit Paver on Permeable Base 1/16

N.T.S. Source: VHB LD_803





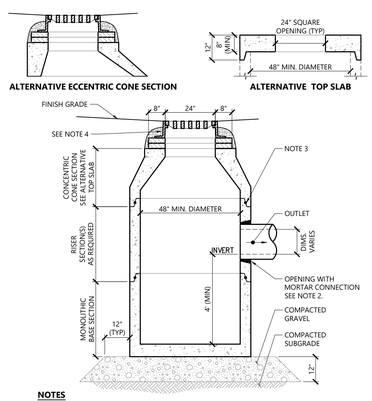


NOTES

1. SHOP PRIME PAINT EXPOSED SURFACES FIELD PAINT EPOXY ENAMEL-YELLOW.
2. PROVIDE "MASTER" PADLOCK WITH 6 WORKING KEYS.
3. 3,000 PSI CONCRETE FOOTING
4. GATE TO HAVE KNOX BOX. COORDINATE KNOX BOX PRIOR TO BUILDING PERMIT.

Emergency Gate (Double) - Proposed Entry Gate 2/20

N.T.S. Source: VHB LD_486

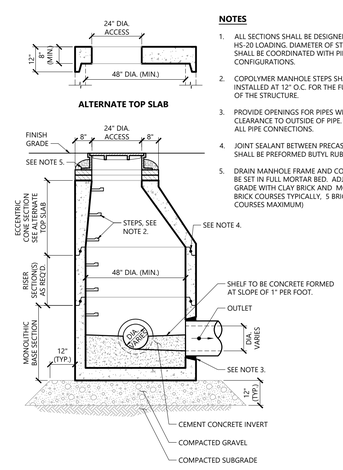


NOTES

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

Catch Basin (CB) 1/16

N.T.S. Source: VHB LD_100

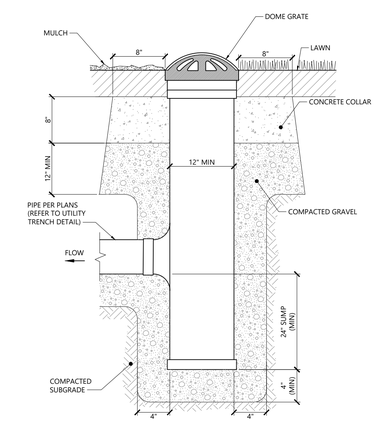


NOTES

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

Drain Manhole (DMH) 1/16

N.T.S. Source: VHB LD_115



NOTES:

1. LANDSCAPE DRAINS SHALL BE NYLOPLAST 12" DRAIN BASIN, OR APPROVED EQUAL.
2. GRATES SHALL BE NYLOPLAST, 12" DOME GRATE MODEL 1299CGD, OR APPROVED EQUAL AS SHOWN ON PLANS.

Area Drain (AD) 9/17

N.T.S. Source: VHB LD_197

vhb.com

Engineering, Surveying, Landscape Architecture and Geology, PC
50 Main Street
Suite 360
White Plains, NY 10606
914.467.6600

Siland Recreation Facility

4651 Route 22, Town of Amenia Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

Designed by | Checked by

Issued for: Local Approvals — Date: October 14, 2021

Not Approved for Construction

Drawing Title: Site Details 1

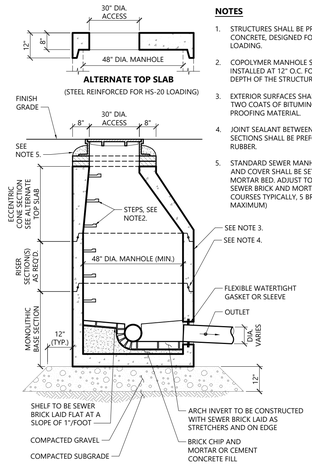
STATE OF NEW YORK · PATRICK NEIL OTLEY · 088868 · LICENSED PROFESSIONAL ENGINEER

Drawing Number: C08.01

Sheet 30 of 37

Project Number: 29011.04

IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER ANY DOCUMENT THAT BEARS THE SEAL OF A PROFESSIONAL ENGINEER UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER

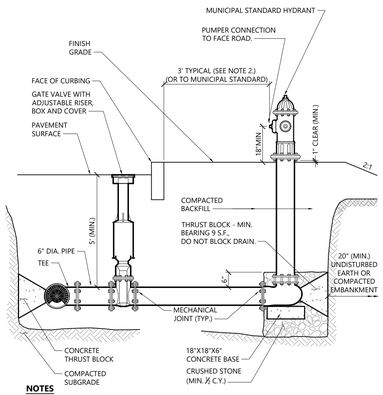


NOTES

1. STRUCTURES SHALL BE PRECAST CONCRETE, DESIGNED FOR HS-20 LOADING.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. STANDARD SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH SEWER BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

Sanitary Sewer Manhole (SMH) 1/16

N.T.S. Source: VHB LD_200

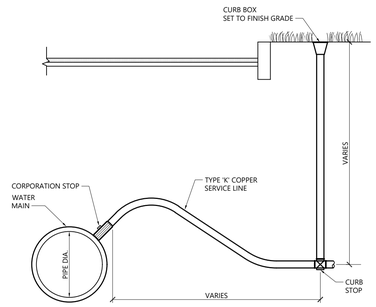


NOTES

1. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
2. HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 3 FEET AT HYDRANT.
3. A 36-INCH CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION.

Hydrant Construction 12/18

N.T.S. Source: VHB LD_250

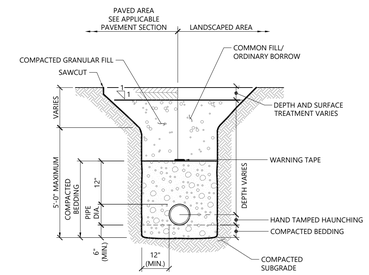


NOTES

1. INSTALLATIONS SHALL CONFORM WITH MUNICIPAL WATER WORKS SPECIFICATIONS AND STANDARDS.

Corporation/Curb Stop with Box 1/16

N.T.S. Source: VHB LD_256

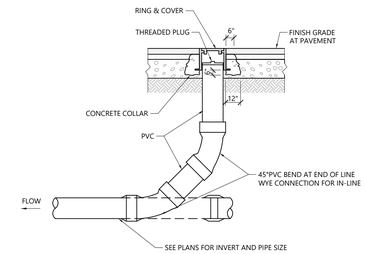


NOTES

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

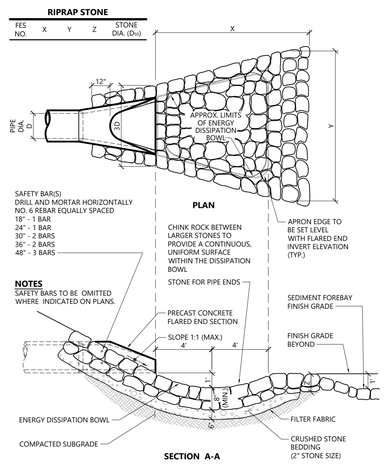
Utility Trench 1/16

N.T.S. Source: VHB LD_300



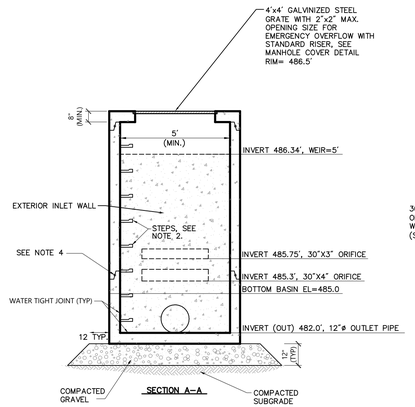
Cleanout - Paved Area 1/16

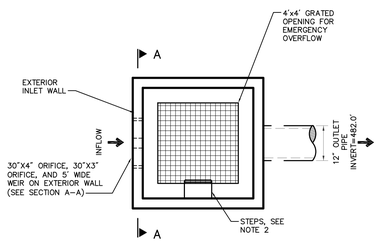
N.T.S. Source: VHB LD_303



Flared End Section (FES) at Bioretention Basin 3/19

N.T.S. Source: VHB LD_134B



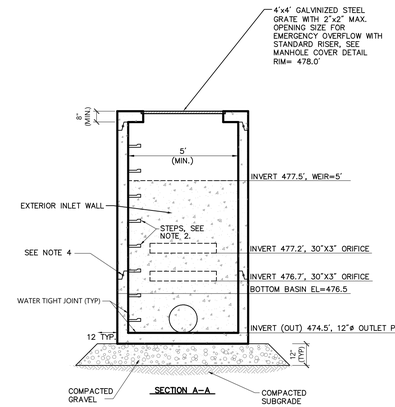


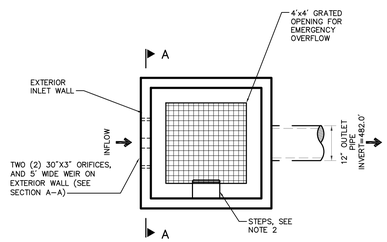
Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS–20 LOADING.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM.)
6. ALL INLET OPENINGS SHALL HAVE A TRASH RACK INSTALLED WITH OPENINGS NO GREATER THAN 2"x2" IN SIZE
7. CONTRACTOR TO PROVIDE ENGINEER WITH FINAL SHOP DRAWING FROM MANUFACTURER PRIOR TO INSTALLATION.

Outlet Control Structure 1 (OCS-1) 10/21

N.T.S. Source: VHB LD_





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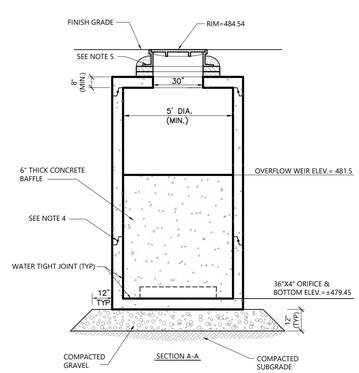
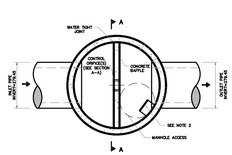
Outlet Control Structure 2 (OCS-2) 10/21

N.T.S. Source: VHB LD_





NOTES:

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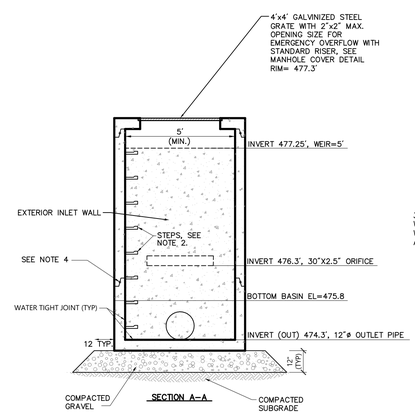
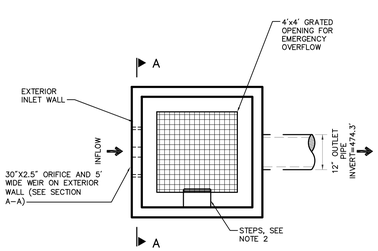
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).
6. WEIR PLATE TO BE 6" THICK CAST IN PLACE CONCRETE WITH ORIFICES AS NOTED.

Outlet Control Structure 3 (OCS-3) 10/21

N.T.S. Source: VHB LD_





Notes:

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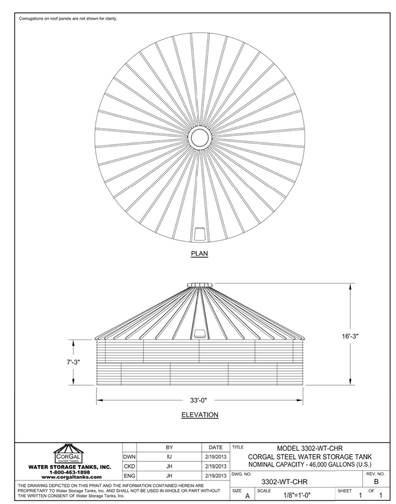
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM.)
6. ALL INLET OPENINGS SHALL HAVE A TRASH RACK INSTALLED WITH OPENINGS NO GREATER THAN 2"x2" IN SIZE
7. CONTRACTOR TO PROVIDE ENGINEER WITH FINAL SHOP DRAWING FROM MANUFACTURER PRIOR TO INSTALLATION.

Outlet Control Structure 3 (OCS-3) 10/21

N.T.S. Source: VHB LD_



Cistern - 46,000 Gallon

N.T.S. Source: Cor Gal Water Tanks

vhb.com
vhb
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Siland Recreation Facility

4651 Route 22, Town of Amenia Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

Designed by | Checked by

Issued for: **Local Approvals**

Date: **October 14, 2021**

Not Approved for Construction

Drawing Title: **Site Details 2**

Drawing Number: **C08.02**

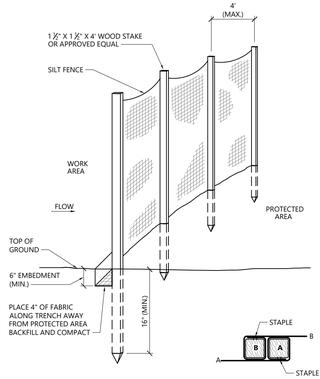
STATE OF NEW YORK · PATRICK NEIL O'LEARY · 089858 · LICENSED PROFESSIONAL ENGINEER

Sheet 31 of 37

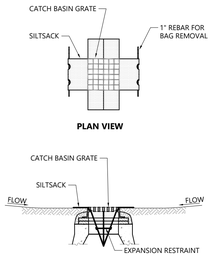
Project Number: **29011.04**

IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER ANY DOCUMENT THAT BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER

Saved Monday, January 3, 2022 3:06:49 PM EBREWER Plotted Tuesday, January 4, 2022 11:11:36 AM Emma Brewer



WOOD STAKE JOINT DETAIL



SECTION VIEW

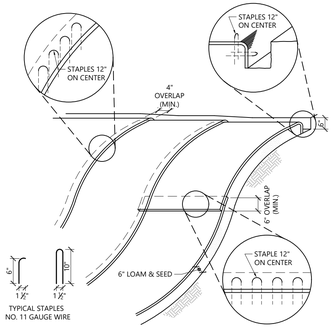
NOTES

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

Silt Fence Barrier

1/16

N.T.S. Source: VHB LD_650



NOTES

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

Siltsack Sediment Trap

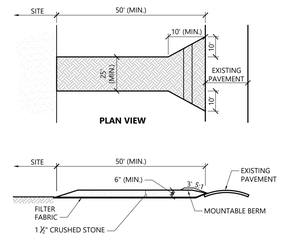
1/16

N.T.S. Source: VHB LD_674

Erosion Control Blanket Slope Installation

1/16

N.T.S. Source: VHB LD_680



CROSS-SECTION

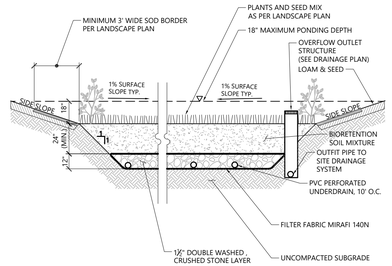
NOTES

1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit

1/16

N.T.S. Source: VHB LD_682



NOTES

1. INSTALL UNDERDRAINS AT 10 FEET ON CENTER. CONNECT TO DRAINS PER PLAN.
2. SIDE SLOPES SHALL BE 3:1 MAX. 2% MIN.

Bioretention Basin

1/16

N.T.S. Source: VHB LD_353

vhb.com

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CULTEC RECHARGER 902HD® SPECIFICATIONS

GENERAL

CULTEC RECHARGER® 902HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).
2. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
   A. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
   B. MAXIMUM PERMANENT (50-YEAR) COVER LOAD
   C. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
3. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
   A. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
   B. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
   C. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95
5. THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT (IMHCT-MODIFIED) POLYPROPYLENE.
6. THE CHAMBER SHALL BE ARCHED IN SHAPE.
7. THE CHAMBER SHALL BE OPEN-BOTTOMED.
8. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER®902HD SHALL BE 48 INCHES (1219 MM) TALL, 78 INCHES (1981 MM) WIDE AND 4.25 FEET (1.30 M) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 902HD SHALL BE 3.67 FEET (1.12 M).
10. MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER® 902HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (750 MM) HDPE OR 36 INCHES (900 MM) PVC.
11. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (250 MM) HDPE AND 12 INCHES (300 MM) PVC.
12. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 49 INCHES (1245 MM) LONG.
13. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 902HD CHAMBER SHALL BE 17.31 FT^3/ FT (1.61 M^3 / M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 902HD SHALL BE 63.47 FT^3 / UNIT (1.80 M^3 / UNIT) - WITHOUT STONE.
14. THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT^3 / FT (0.085 M^3 / M) - WITHOUT STONE.
15. THE RECHARGER 902HD CHAMBER SHALL HAVE 5 CORRUGATIONS.
16. THE CHAMBER SHALL BE CAPABLE OF ACCEPTING A 6 INCH (150 MM) INSPECTION PORT OPENING AT THE TOP CENTER OF EACH CHAMBER, CENTERED ON THE CORRUGATION CREST.
17. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.
18. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 8.3 FEET (2.53 M).

END CAP PARAMETERS

1. THE CULTEC RECHARGER® 902HD END CAP (REFERRED TO AS 'END CAP') SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).
2. THE END CAP SHALL BE TWIN-SHEET THERMOFORMED OF VIRGIN HIGH MOLECULAR WEIGHT POLYETHYLENE.
3. THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
4. THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 48.5 INCHES (1231 MM) TALL, 78 INCHES (1982 MM) WIDE AND 9.7 INCHES (246 MM) LONG. WHEN JOINED WITH A RECHARGER 902HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 6.2 INCHES (157 MM).
5. THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.34 FT^3 / FT (0.50 M^3 / M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 2.76 FT^3 / UNIT (0.08 M^3 / UNIT) - WITHOUT STONE.
6. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (750 MM) HDPE OR 36 INCHES (900 MM) PVC.
7. THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

CULTEC HVLV FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL

THE CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 902HD STORMWATER CHAMBERS.

FEED CONNECTOR PARAMETERS

1. THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMHDPE).
3. THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.
4. THE FEED CONNECTOR SHALL BE OPEN-BOTTOMED.
5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT^3 / FT (0.085 m^3 / m) - WITHOUT STONE.
7. THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.
8. THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN ENDS AND A SEALED CENTER SECTION. THE CENTER SECTION OF THE UNIT MUST NOT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND AASHTO HS-25 DEFINED LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
4. THE GEOTEXTILE SHALL HAVE A TYPICAL STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

CULTEC NO. 4800™ WOVEN GEOTEXTILE

CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER FLOW ENTERING INTO THE CULTEC CHAMBERS AND FEED CONNECTORS. IT MAY ALSO BE USED WITH THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,096 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2, 740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.
14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.

ROZHA 1.0

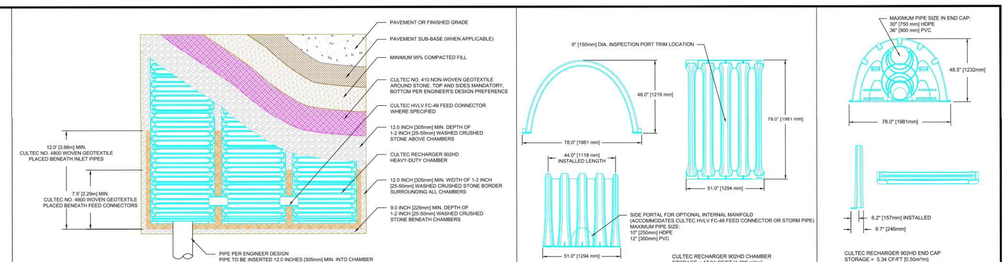
GENERAL NOTES

PIPE	A	B
6" [150 mm]	N/A	N/A
8" [200 mm]	N/A	N/A
10" [250 mm]	N/A	N/A
12" [300 mm]	29.50" [749 mm]	2.20" [57 mm]
15" [375 mm]	26.50" [673 mm]	2.20" [57 mm]
18" [450 mm]	23.50" [597 mm]	2.50" [64 mm]
24" [600 mm]	16.50" [420 mm]	3.00" [76 mm]

*THE TYPICAL INVERT TABLE ABOVE IS BASED ON THE INSIDE DIAMETER OF STANDARD CORRUGATED PLASTIC PIPE. THE HEAVY DUTY END CAP HAS PRE-MARKED TRIM LINES FOR PIPE DIAMETERS 12" (300mm), 18" (450mm) AND 24" (600mm). PIPES OF ANY SIZE AND MATERIAL UP TO 24" MAY BE PLACED AT CUSTOM LOCATIONS AND CUSTOM INVERTS. THE CROWN OF THE PIPE MUST REMAIN A MINIMUM OF 6" (150mm) FROM THE EDGE OF THE HEAVY DUTY END CAP.

ROZHA 7.0

CULTEC RECHARGER 902HD TYPICAL PIPE INVERTS

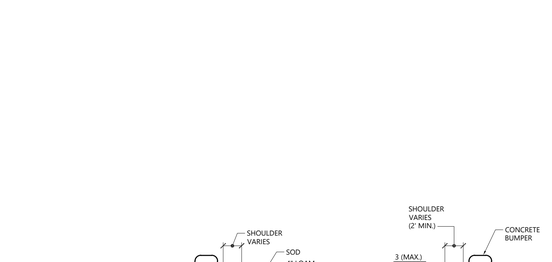


ROZHA 2.0

CULTEC RECHARGER 902HD HEAVY DUTY PLAN VIEW

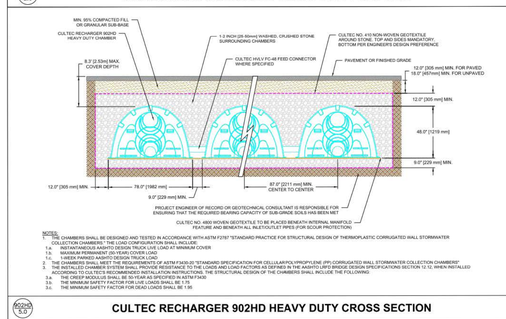
ROZHA 3.0

CULTEC RECHARGER 902HD HEAVY DUTY THREE VIEW



ROZHA 4.0

CULTEC RECHARGER 902HD HEAVY DUTY END CAP THREE VIEW



NOTES:
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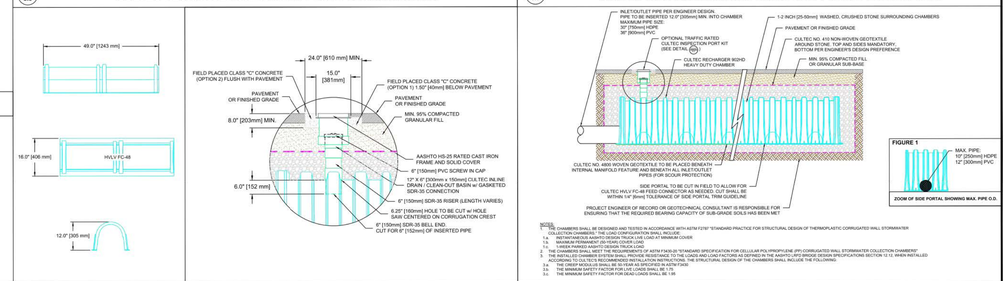
   1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
   1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD
   1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
3. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
   3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
   3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
   3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

ROZHA 5.0

CULTEC RECHARGER 902HD HEAVY DUTY CROSS SECTION



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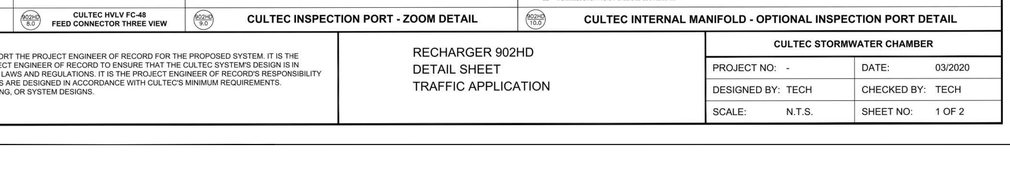
ROZHA 6.0

CULTEC RECHARGER 902HD HEAVY DUTY TYPICAL INTERLOCK



ROZHA 7.0

CULTEC HVLV FC-48 FEED CONNECTOR THREE VIEW

ROZHA 8.0

CULTEC INSPECTION PORT - ZOOM DETAIL

ROZHA 9.0

CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL

TM
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Subsurface Stormwater Management Systems
CULTEC
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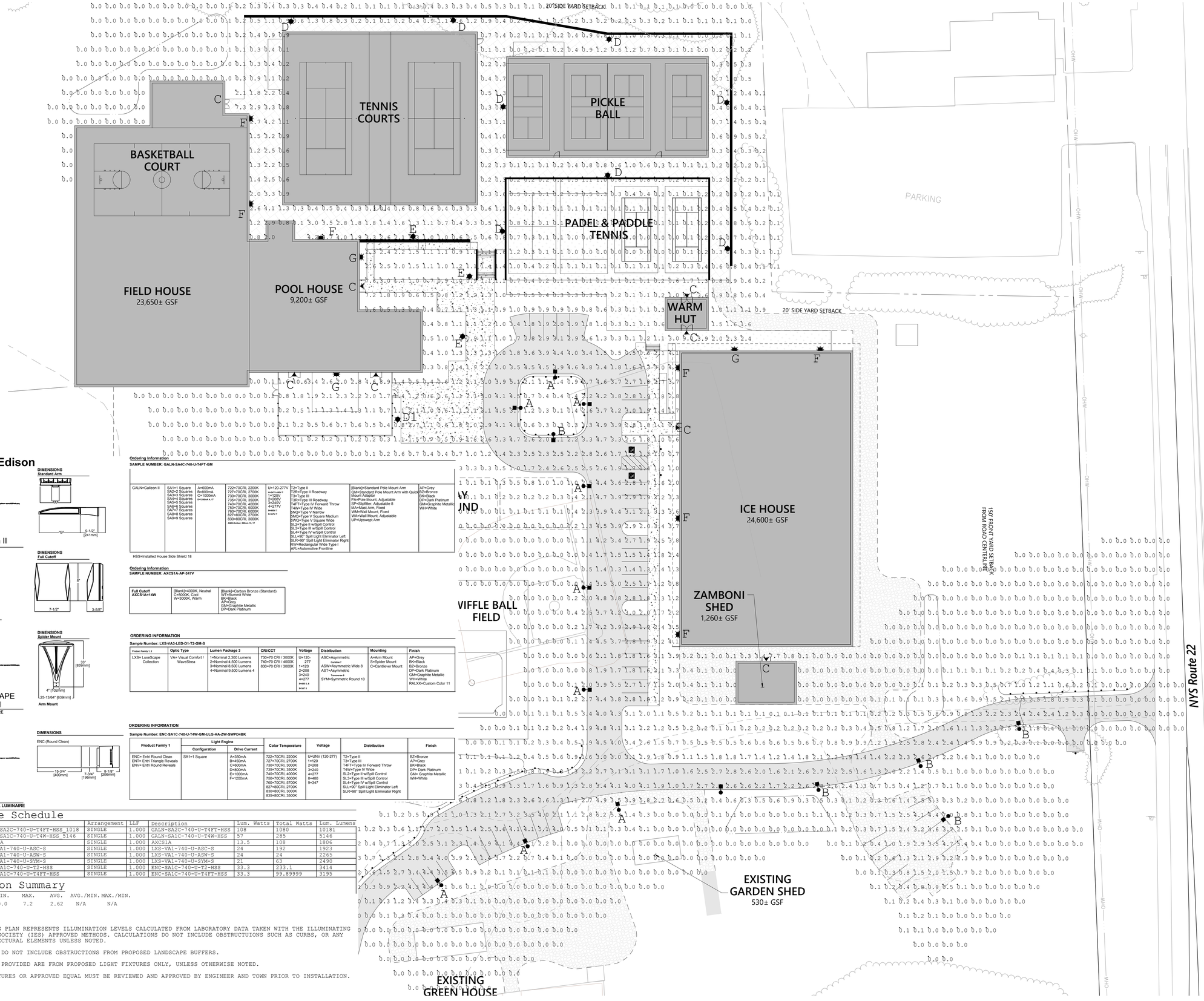
PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS.

RECHARGER 902HD
DETAIL SHEET
TRAFFIC APPLICATION

CULTEC STORMWATER CHAMBER

PROJECT NO:	-	DATE:	03/2020
DESIGNED BY:	TECH	CHECKED BY:	TECH
SCALE:	N.T.S.	SHEET NO:	1



McGraw-Edison

A
B

GALN Galleon II

Area / Site Luminaire

Lumark

C

Axcent

Wall Mount Luminaire

Invue

D
D1
E

LXS LUXESCAPE COLLECTION

DECORATIVE LUMINAIRE

Invue

F
G

DIMENSIONS
Standard Arm

DIMENSIONS
Full Cutoff

DIMENSIONS
Spider Mount

Arm Mount

DIMENSIONS

ENC (Round Clean)

ENC
ENTRI LED
ARCHITECTURAL WALL LUMINAIRE

Ordering Information
SAMPLE NUMBER: GALN-SAAC-740-U-T4FT-GM

GALN=Galleon II	SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares SA5=5 Squares SA6=6 Squares SA7=7 Squares SA8=8 Squares SA9=9 Squares	A=600mA B=800mA C=1000mA D=1200mA, F=1****	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K 835=80CRI, 3500K	U=120-277V 2=208V 1=120V 2=208V 3=240V 4=277V D=480V 1 9=347V 1	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide 5LZ=Type II w/Spill Control 5L3=Type III w/Spill Control 5L4=Type IV w/Spill Control 5LL=90° Spill Light Eliminator Left 5LR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	[Blank]=Standard Pole Mount Arm QM=Standard Pole Mount Arm with Quick Mount Adaptor PA=Pole Mount, Adjustable SP=Slipfitter, Adjustable 8 MA=Mast Arm, Fixed WM=Wall Mount, Fixed WA=Wall Mount, Adjustable UP=Upswept Arm	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White

HSS=Installed House Side Shield 18

Ordering Information
SAMPLE NUMBER: AXCS1A-AP-347V

Full Cutoff **AXCS1A=14W**	[Blank]=4000K, Neutral C=5000K, Cool W=3000K, Warm	[Blank]=Carbon Bronze (Standard) WH=Summit White BK=Black AP=Grey GM=Graphite Metallic DP=Dark Platinum

ORDERING INFORMATION
Sample Number: LXS-VA3-LED-D1-T2-GM-S

Product Family 1, 2	Optic Type	Lumen Package 3	CRI/CCT	Voltage	Distribution	Mounting	Finish
LXS= LuxeScape Collection	VA= Visual Comfort / WaveStrea	1=Nominal 2,300 Lumens 2=Nominal 4,600 Lumens 3=Nominal 8,500 Lumens 4=Nominal 9,500 Lumens 4	730=70 CRI / 3000K 740=70 CRI / 4000K 830=70 CRI / 3000K	U=120-277 1=120 2=208 3=240 4=277 D=480 5, 6 9=347 5	ASC=Asymmetric Scattered 1 ASW=Asymmetric Wide 8 AST=Asymmetric Transverse 8 SYM=Symmetric Round 10	A=Arm Mount S=Spider Mount C=Cantilever Mount	AP=Grey BK=Black BZ=Bronze DP=Dark Platinum GM= Graphite Metallic WH=White RAL/XX=Custom Color 11

ORDERING INFORMATION
Sample Number: ENC-SA1C-740-U-T4W-GM-ULG-HA-ZW-SWPD4BK

Product Family 1	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
ENC= Entri Round Clean ENT= Entri Triangle Reveals ENV= Entri Round Reveals	SA1= 1 Square	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 5700K 827=80CRI, 2700K 830=80CRI, 3000K 835=80CRI, 3500K	U=UNV (120-277) 1=120 2=208 3=240 4=277 8=480 9=347	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide 5LZ=Type II w/Spill Control 5L3=Type III w/Spill Control 5L4=Type IV w/Spill Control 5LL=90° Spill Light Eliminator Left 5LR=90° Spill Light Eliminator Right	BZ=Bronze AP=Grey BK=Black DP= Dark Platinum GM= Graphite Metallic WH=White

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Lum. Watts	Total Watts	Lum. Lumens
A	10	GALN-SA2C-740-U-T4FT-HSS 1018	SINGLE	1.000	GALN-SA2C-740-U-T4FT-HSS	108	1080	10181
B	5	GALN-SA1C-740-U-T4W-HSS 5146	SINGLE	1.000	GALN-SA1C-740-U-T4W-HSS	57	285	5146
C	8	AXCS1A	SINGLE	1.000	AXCS1A	13.5	108	1806
D	8	LXS-VA1-740-U-ASC-S	SINGLE	1.000	LXS-VA1-740-U-ASC-S	24	192	1923
D1	1	LXS-VA1-740-U-ASW-S	SINGLE	1.000	LXS-VA1-740-U-ASW-S	24	24	2265
E	3	LXS-VA1-740-U-SYM-S	SINGLE	1.000	LXS-VA1-740-U-SYM-S	21	63	2490
F	7	ENC-SA1C-740-U-T2-HSS	SINGLE	1.000	ENC-SA1C-740-U-T2-HSS	33.3	233.1	3414
G	3	ENC-SA1C-740-U-T4FT-HSS	SINGLE	1.000	ENC-SA1C-740-U-T4FT-HSS	33.3	99.89999	3195

Calculation Summary

LABEL	MIN.	MAX.	AVG.	AVG./MIN.	MAX./MIN.
PARKING AREAS	0.0	7.2	2.62	N/A	N/A

Notes:

1. THIS LIGHTING PLAN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN WITH THE ILLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS. CALCULATIONS DO NOT INCLUDE OBSTRUCTUIONS SUCH AS CURBS, OR ANY OTHER ARCHITECTURAL ELEMENTS UNLESS NOTED.
2. CALCULATIONS DO NOT INCLUDE OBSTRUCTIONS FROM PROPOSED LANDSCAPE BUFFERS.
3. LIGHT LEVELS PROVIDED ARE FROM PROPOSED LIGHT FIXTURES ONLY, UNLESS OTHERWISE NOTED.
4. LIGHTING FIXTURES OR APPROVED EQUAL MUST BE REVIEWED AND APPROVED BY ENGINEER AND TOWN PRIOR TO INSTALLATION.

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Suite 360
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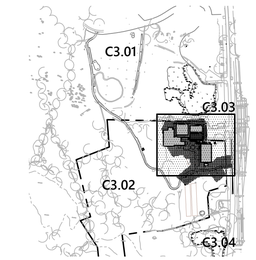
914.467.6600



Key
Not To Scale

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

Designed by
Checked by

Issued for
Local Approvals

Date
October 14, 2021

Not Approved for Construction

Drawing Title
Photometric Plan

Drawing Number
C9.01

Sheet 34 of 37

Project Number
29011.04

STATE OF NEW YORK · PATRICK NEIL OTEY · 089868 · LICENSED PROFESSIONAL ENGINEER

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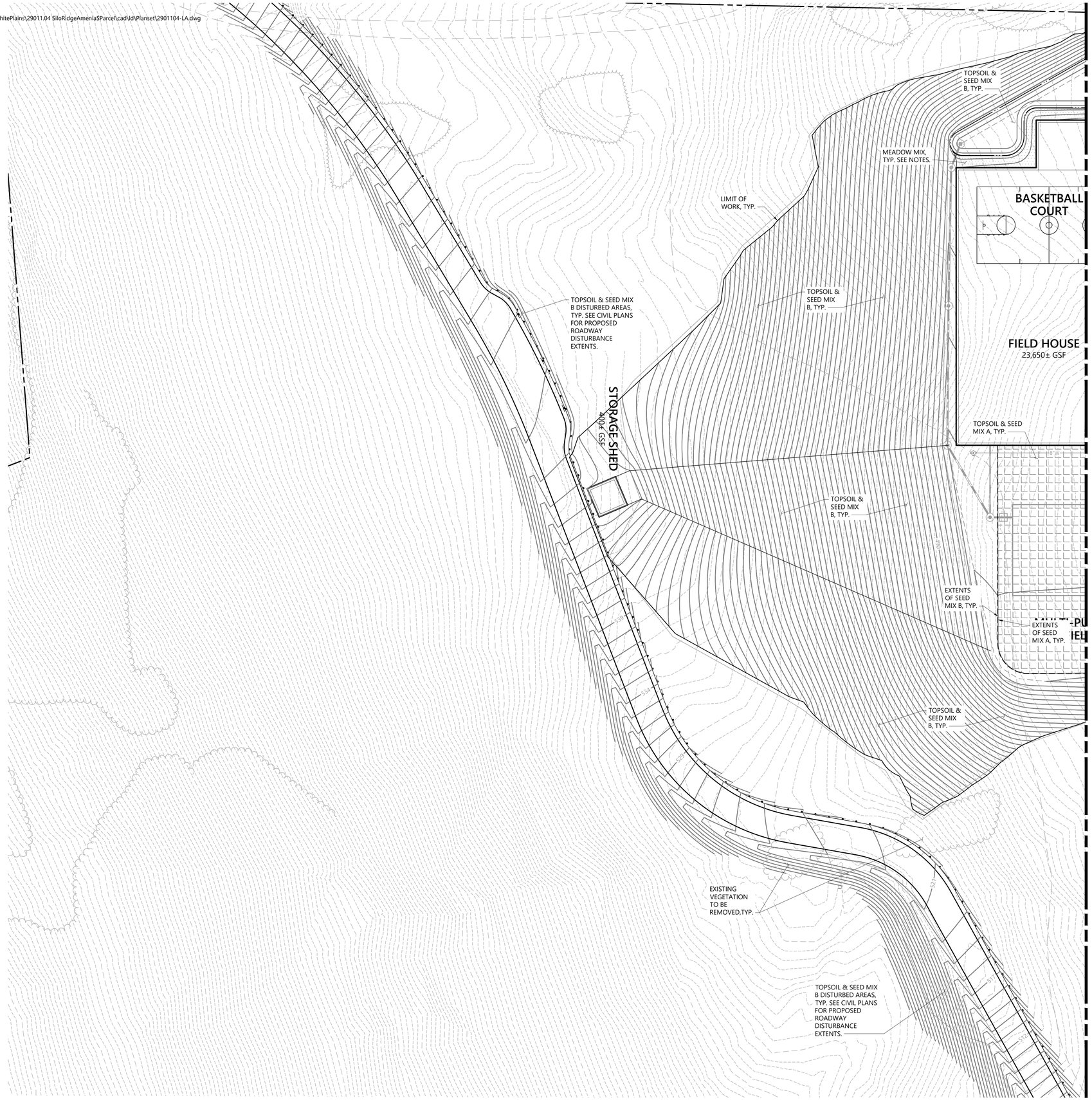

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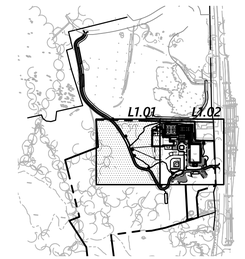

Key

Not To Scale

SEED_MIX_LEGEND

- TOPSOIL & SEED MIX A
- TOPSOIL & SEED MIX B
- MEADOW MIX
- FEED CORN & SWEET CORN

0 15 30 60 Feet

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Designed by MO
Checked by ATK
Issued for Local Approvals
Date October 14, 2021

Not Approved for Construction

Drawing Title
Planting Plan

Drawing Number
L1.01

Sheet 35 of 37

Project Number
29011.04

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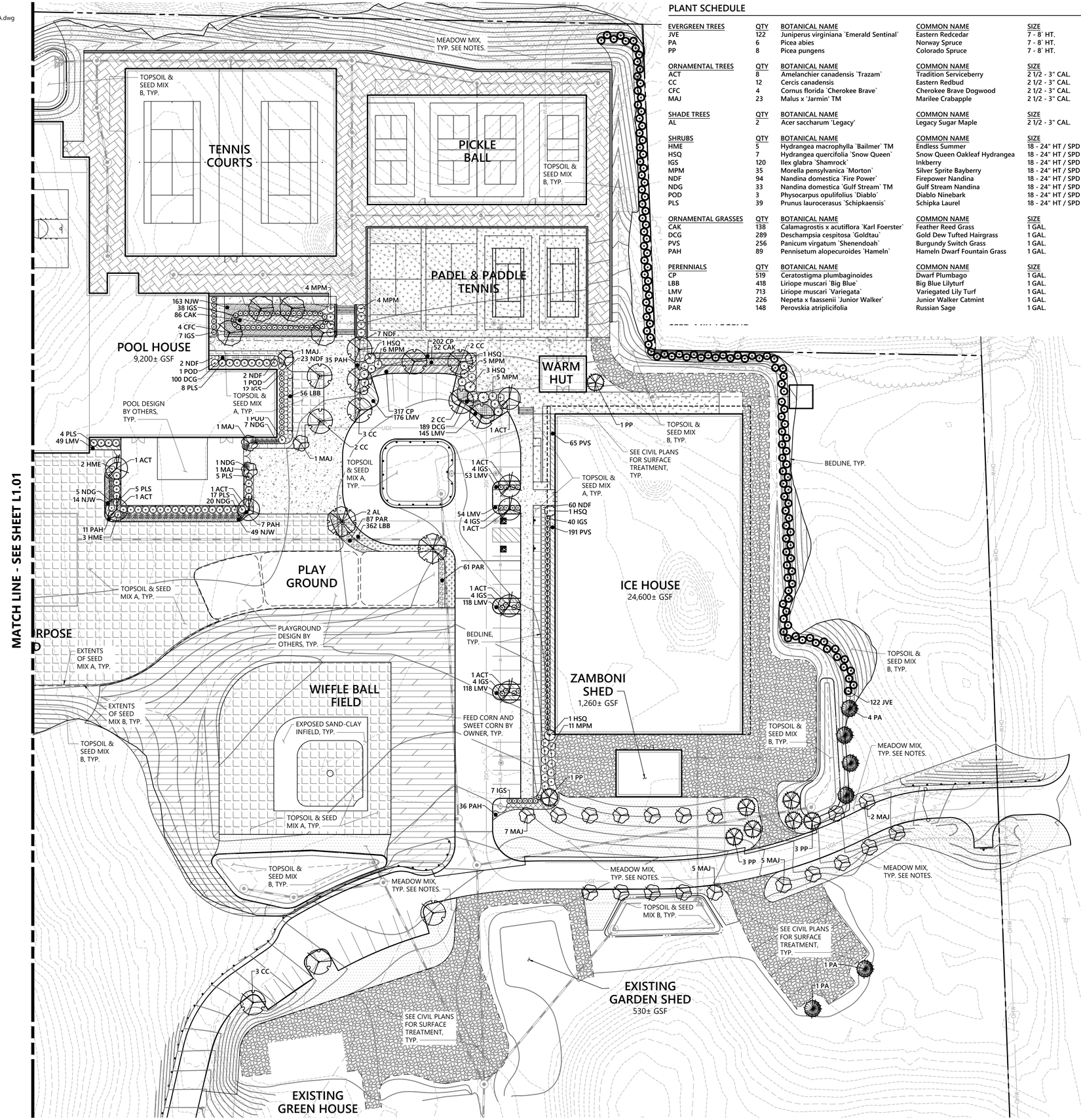

PLANT SCHEDULE

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
JVE	122	Juniperus virginiana `Emerald Sentinal`	Eastern Redcedar	7 - 8` HT.
PA	6	Picea abies	Norway Spruce	7 - 8` HT.
PP	8	Picea pungens	Colorado Spruce	7 - 8` HT.

ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
ACT	8	Amelanchier canadensis `Trazam`	Tradition Serviceberry	2 1/2 - 3" CAL.
CC	12	Cercis canadensis	Eastern Redbud	2 1/2 - 3" CAL.
CFC	4	Cornus florida `Cherokee Brave`	Cherokee Brave Dogwood	2 1/2 - 3" CAL.
MAJ	23	Malus x `Jarmin' TM	Marilee Crabapple	2 1/2 - 3" CAL.

SHADE TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AL	2	Acer saccharum 'Legacy'	Legacy Sugar Maple	2 1/2 - 3" CAL.

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
HME	5	Hydrangea macrophylla `Bailmer` TM	Endless Summer	18 - 24" HT / SPD
HSQ	7	Hydrangea quercifolia `Snow Queen`	Snow Queen Oakleaf Hydrangea	18 - 24" HT / SPD
IGS	120	Ilex glabra `Shamrock`	Inkberry	18 - 24" HT / SPD
MPM	35	Morella pensylvanica `Morton`	Silver Sprite Bayberry	18 - 24" HT / SPD
NDF	94	Nandina domestica `Fire Power`	Firepower Nandina	18 - 24" HT / SPD
NDG	33	Nandina domestica `Gulf Stream` TM	Gulf Stream Nandina	18 - 24" HT / SPD
POD	3	Physocarpus opulifolius `Diablo`	Diablo Ninebark	18 - 24" HT / SPD
PLS	39	Prunus laurocerasus `Schipkaensis`	Schipka Laurel	18 - 24" HT / SPD

ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CAK	138	Calamagrostis x acutiflora `Karl Foerster`	Feather Reed Grass	1 GAL.	24" o.c.
DCG	289	Deschampsia cespitosa `Goldtau`	Gold Dew Tufted Hairgrass	1 GAL.	12" o.c.
PVS	256	Panicum virgatum `Shenendoah`	Burgundy Switch Grass	1 GAL.	18" o.c.
PAH	89	Pennisetum alopecuroides `Hameln`	Hameln Dwarf Fountain Grass	1 GAL.	24" o.c.

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CP	519	Ceratostigma plumbaginoides	Dwarf Plumbago	1 GAL.	12"' o.c.
LBB	418	Liriope muscari `Big Blue`	Big Blue Lilyturf	1 GAL.	16" o.c.
LMV	713	Liriope muscari `Variegata`	Variegated Lily Turf	1 GAL.	12" o.c.
NJW	226	Nepeta x faassenii `Junior Walker`	Junior Walker Catmint	1 GAL.	24" o.c.
PAR	148	Perovskia atriplicifolia	Russian Sage	1 GAL.	18" o.c.

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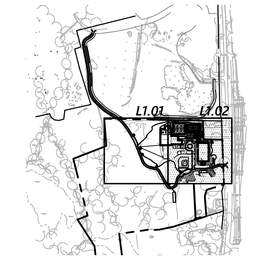

Key

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SEED_MIX_LEGEND

- TOPSOIL & SEED MIX A
- TOPSOIL & SEED MIX B
- MEADOW MIX
- FEED CORN & SWEET CORN

0 15 30 60 Feet

Siland Recreation Facility

4651 Route 22, Town of Amenia
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Designed by: MO
Checked by: ATK
Issued for: Local Approvals
Date: October 14, 2021

Not Approved for Construction

Drawing Title
Planting Plan

Drawing Number
L1.02

Sheet 36 of 37

Project Number
29011.04

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Saved Tuesday, January 4, 2022 2:03:22 PM MOLSEN Plotted Tuesday, January 4, 2022 2:11:42 PM Maria Olsen

Planting Notes

1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. ALL PLANTING BACKFILL SOILS SHALL RECEIVE CERTIFIED WEED-FREE FULLY COMPOSTED LEAF MOLD SOIL AMENDMENT AT A RATE OF 33% (1 PART COMPOST TO 2 PARTS PLANTING SOIL). SUBMIT COMPOST CERTIFICATION & PRODUCT DATA PRIOR TO ORDERING FOR APPROVAL.
6. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.
7. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.
8. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
9. ALL PLANT MATERIALS INSTALLED SHALL MEET THE LATEST SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" PUBLISHED BY AMERICAN HORT AND CONTRACT DOCUMENTS.
10. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR TWO YEARS FOLLOWING DATE OF FINAL ACCEPTANCE. DEAD PLANTS, AND PLANTS LESS THAN 75% ALIVE SHALL BE REPLACED.
11. AREAS DESIGNATED "TOPSOIL & SEED" SHALL RECEIVE MINIMUM 6" OF TOPSOIL AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC, SUBMIT PRODUCT DATA FOR APPROVAL.
12. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE TOPSOIL AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.
13. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.
14. ALL SPECIFIED PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT AT BOTH THE NURSERY AND JOBSITE PRIOR TO INSTALLATION
15. CAREFULLY DISRUPT CIRCLING ROOTS FROM ALL CONTAINER-GROWN PLANTS, EXCEPT PLUGS, VIA TOOL SCARIFICATION OR BY HAND.
16. ALL B&B MATERIALS (I.E. BURLAP, TWINE, ETC) SHALL BE ALL BIO-DEGRADABLE MATERIALS.
17. ALL PLANTINGS SHALL RECEIVE BIOSTIMULANT (MYCORRHIZAL FUNGI) AS PER MANUFACTURER'S RECOMMENDED RATES. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO ORDERING.
18. CONTRACTOR SHALL MAINTAIN (I.E. WEEDING, MULCHING, WATERING, CUT BEDS, REPLACEMENTS, ETC) ALL LANDSCAPE PLANTS AND AREAS WITHIN CONTRACT LIMITS DURING SPRING, SUMMER, AND FALL UNTIL EXPIRATION OF GUARANTEE PERIOD.
19. LANDSCAPE CONTRACTOR SHALL SUBMIT LETTER OF AGREEMENT TO THE PROPERTY OWNER ACKNOWLEDGING AND AGREEING TO FULFILLING THE SPECIFIED CONTRACTED GUARANTEE PERIOD AND MAINTENANCE AT NO-ADDITIONAL COST TO THE OWNER. SUBMIT LETTER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
20. CONTRACTOR SHALL REMOVE ALL TREE STAKING AND GUYING MATERIALS PRIOR TO THE EXPIRATION OF THE PLANT WARRANTY PERIOD, OR 1 YEAR FROM THE DATE OF INSTALLATION, WHICHEVER COMES FIRST.

Tree Protection

1. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY CONSTRUCTION FENCE. ERECT FENCE AT EDGE OF THE TREE DRIPLINE PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE PROTECTION AREA.
3. DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.
4. NO UNAUTHORIZED TREE REMOVALS, UNLESS AS SPECIFIED ON CONTRACT DOCUMENTS, APPROVED BY LOCAL MUNICIPALITIES, AND LANDSCAPE ARCHITECT.

Edge of Woods Clearing

1. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY EROSION CONTROL FENCE AND HAY BALE BARRIER. ERECT BARRIER AT EDGE OF THE EARTHWORK CUT LINE PRIOR TO TREE CLEARING. LAY OUT THIS LINE BY FIELD SURVEY.

Plant Maintenance Notes

1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE PLANT GUARANTEE PERIOD.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
5. CONTRACTOR SHALL REPLACE DEAD PLANTS AND LESS THAN 75%-ALIVE PLANTS AT THE END OF THE PLANT GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

Turf Seeding Notes:

1. **SEED MIX 'A':** UNLESS OTHERWISE NOTED, ALL DISTURBED LANDSCAPE AREAS NOT BEING PLANTED, SHALL BE SEEDED WITH THE LATEST VERSION OF THE FOLLOWING SEED MIX:

   SS1000 TURF-TYPE TALL FESCUE BLEND, AS PRODUCED BY:

SEED SUPER STORE	33.27% BULLSEYE TURF TYPE TALL FESCUE
PO BOX 812	33.15% COCHISE IV TURF TYPE TALL FESCUE
BUFFALO, NY 14225	33.08% LS1200 TURF TYPE TALL FESCUE
716-531-8788	00.50% INERT MATTER
www.seedsuperstore.com	00.00% WEED SEED

   OR, APPROVED EQUAL

   SEEDING RATE SHALL BE 8 LBS. PER 1,000.00 SQ. FT.

2. **SEED MIX 'A' - ALTERNATE BID** - UNLESS OTHERWISE NOTED, ALL DISTURBED LANDSCAPE AREAS NOT BEING PLANTED OR MULCHED, SHALL BE **SODDED** WITH A TURF-TYPE TALL FESCUE BLEND SOD PRODUCT.

3. **SEED MIX 'B':** AS INDICATED ON PLANTING PLAN(S), AREA(S) SHALL BE SEEDED WITH THE LATEST VERSION OF THE FOLLOWING SEED MIX:

   SS8000 'NO-MOW' HARD FESCUE BLEND, AS PRODUCED BY:

SEED SUPER STORE	33.24% SPARTAN II HARD FESCUE
PO BOX 812	33.00% BEACON HARD FESCUE
BUFFALO, NY 14225	32.78% NANOOK HARD FESCUE
716-531-8788	00.94% INERT MATTER
www.seedsuperstore.com	00.00% WEED SEED

   OR, APPROVED EQUAL

   SEEDING RATE SHALL BE 5 lbs. PER 1,000.00 SQ. FT.

4. ALL SEEDING SHALL BE HYDRO-SEEDED WITH THE FOLLOWING ENGINEERED WOOD FIBER HYDROMULCH AS PER MANUFACTURER'S SPECIFICATIONS. SUBMIT SAMPLE & PRODUCT DATA FOR APPROVAL PRIOR TO ORDERING.

   FLEXTERRA HP-FGM - AS MANUFACTURED BY:
   PROFILE PRODUCTS
   750 W. LAKE COOK RD
   SUITE 440
   BUFFALO GROVE, IL 60089
   1-800-207-6457

   OR, APPROVED EQUAL.

5. CONTRACTOR SHALL SUBMIT SEED: SOURCE, SAMPLE, AND CERTIFIED ANALYSIS; AND HYRDRO-MULCH SAMPLE & PRODUCT DATA FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO ORDERING.
6. LAWNS SHALL EXHIBIT A UNIFORM, THICK, WELL-DEVELOPED STAND OF GRASS AND SHALL NOT HAVE BARE SPOTS IN EXCESS OF FOUR INCHES IN DIAMETER. BARE SPOTS SHALL COMPRISE NO MORE THAN TWO-PERCENT (2%) OF THE TOTAL AREA OF THE LAWN.

Meadow Seeding Notes:

1. NATIVE UPLAND WILDLIFE FORAGE & COVER MEADOW SEED MIX, SEEDING 20lbs PER ACRE WITH 30LBS OF COVER CROP - ITEM # ERNMX-123.

ERNST CONSERVATION SEEDS INC.	34.9 %	ANDROPOGON GERARDII 'NIAGARA' - BIG BLUESTEM 'NIAGARA'
8884 MERCER PIKE	27.0 %	PANICUM VIRGATUM 'SHAWNEE' - SWITCHGRASS 'SHAWNEE'
MEADVILLE, PA 16335-9275	21.0 %	ELYMUS VIRGINICUS, MADISON-NY ECOTYPE - VIRGINIA WILDRYE, MADISON - NY ECOTYPE)
814-336-2404	9.0 %	SIRGHASTRUM NUTANS 'SOUTHLOW' MI ECOTYPE - INDIANGRASS 'SOUTHLOW'-MI ECOTYPE
www.ernstseed.com	3.0 %	RUDBECKIA HIRTA - BLACKEYED SUSAN
	2.0 %	CHAMAECRISTA FASCICULATA, PA ECOTYPE - PATRIDGE PEA, PA ECOTYPE
	1.5 %	HELIOPSIS HELIANTHOIDES, PA ECOTYPE - OXEYE SUNFLOWER, PA ECOTYPE
	1.0 %	COREOPSIS TINCTORIA - PLAINS COREOPSIS
	0.4 %	DESMODIUM CANADENSE, PA ECOTYPE - SHOWY TICKTREFOIL, PA ECOTYPE
	0.1 %	ASCLEPIAS SYRIACA - COMMON MILKWEED
	0.1 %	MONARDA FISTULOSA, FORT INDIANTOWN GAP PA ECOTYPE - WILD BERGAMOT, FORT INDIANTOWN GAP-PA ECOTYPE

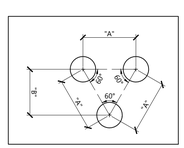
   OR, APPROVED EQUAL

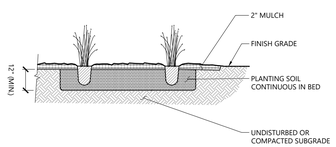
2. ACTUAL PERCENTAGES OF SPECIES SUBJECT TO CHANGE BASED ON AVAILABILITY AT THE TIME OF INSTALLATION.
3. ABOVE SEED MIX SHALL BE APPLIED BY MECHANICAL NO-TILL DRILL SEEDING AND HYDRO-MULCHED WITH ENGINEERED WOOD FIBER HYDRO-MULCH (I.E. FLEXTERA HP-FGM) WITHIN THE SAME DAY.
4. CONTRACTOR SHALL ESTABLISH AND MAINTAIN (DURING MAINTENANCE PERIOD & PRIOR TO ACCEPTANCE) NATIVE UPLAND WILDLIFE FORAGE & COVER MEADOW MIX SEED AREA.
5. SUBMITTALS FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO ORDERING:
   - 5.1. SOIL AMENDMENT SAMPLE
   - 5.2. SOIL AMENDMENT CERTIFIED INDEPENDENT LABORATORY ANALYSIS
   - 5.3. SEED SOURCE
   - 5.4. SEED PRODUCT DATA
   - 5.5. SEED SAMPLE
   - 5.6. SUPPLIER-CERTIFICATION OF SEED ANALYSIS
   - 5.7. DETAILED METHOD OF SEED INSTALLATION & ESTABLISHMENT INCLUDING SUPPLIES & EQUIPMENT TO BE USED
   - 5.8. HYDRO-MULCH PRODUCT DATA
6. 'NATIVE UPLAND WILDLIFE FORAGE & COVER MEADOW SEED MIX' SHALL BE USED IN AREAS OUTLINED ON LANDSCAPE PLAN ONLY
7. TEMPORARY IRRIGATION AS NEEDED FOR ESTABLISHMENT, OR UNTIL AREA IS FURTHER DEVELOPED.

vhb.com
vhb
Engineering, Surveying, Landscape Architecture and Geology, PC
50 Main Street
Suite 360
White Plains, NY 10606
914.467.6600

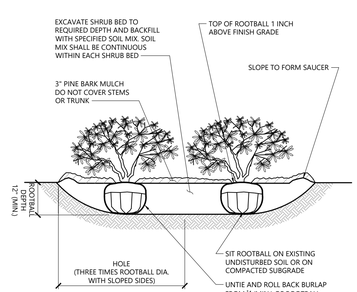
PLANT SPACING

PLANT SPACING("A")	ROW SPACING ("B")
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8 ½ IN. O.C.
12 IN. O.C.	10 ½ IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.
24 IN. O.C.	21 IN. O.C.
30 IN. O.C.	26 IN. O.C.
36 IN. O.C.	30 IN. O.C.
48 IN. O.C.	42 IN. O.C.
54 IN. O.C.	48 IN. O.C.
60 IN. O.C.	54 IN. O.C.





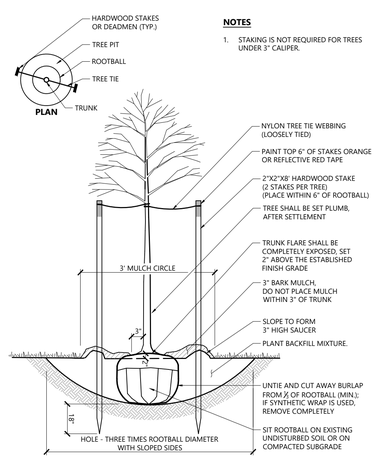
Perennial and Ornamental Grass Planting 1/16
N.T.S. Source: VHB REV LD_618



NOTES

1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

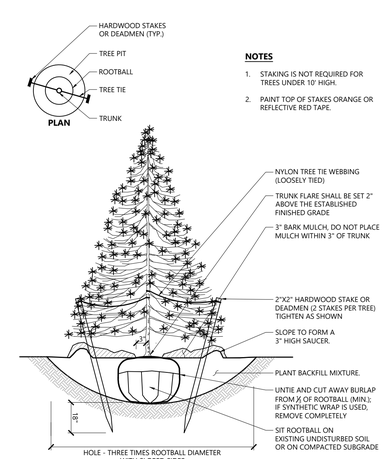
Shrub Bed Planting 1/16
N.T.S. Source: VHB REV LD_601



NOTES

1. STAKING IS NOT REQUIRED FOR TREES UNDER 3" CALIPER.

Tree Planting (For Trees Under 4" Caliper) 9/18
N.T.S. Source: VHB REV LD_602



NOTES

1. STAKING IS NOT REQUIRED FOR TREES UNDER 10' HIGH.
2. PAINT TOP OF STAKES ORANGE OR REFLECTIVE RED TAPE.

Evergreen Tree Planting 1/16
N.T.S. Source: VHB REV LD_604

Siland Recreation Facility

4651 Route 22, Town of Amenia
Dutches County, New York

No.	Revision	Date	Appvd.
1	TOWN COMMENTS	10/14/21	PNO
2	TOWN COMMENTS	01/05/22	PNO

Designed by MO | Checked by ATK

Issued for: **Local Approvals** | Date: **October 14, 2021**

Not Approved for Construction

Drawing Title
Planting Notes and Details

Drawing Number
L2.00

Sheet 37 of 37

Project Number
29011.04

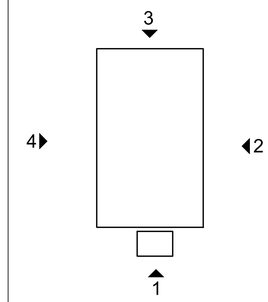
IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER ANY DOCUMENT THAT BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER

Saved Tuesday, January 4, 2022 2:03:22 PM MOLSEN Plotted Tuesday, January 4, 2022 2:11:49 PM Maria Olsen

1 FRONT ELEVATION

2 SIDE ELEVATION

KEY PLAN



NOTES

1. STANDING SEAM METAL ROOFS
2. WEATHERED WOOD SIDING
3. ALUMINUM DOORS AND WINDOWS
4. WOOD DOORS
5. STONE FIREPLACE
6. GLASS RAILING
7. METAL GUTTERS
8. PRE-MANUFACTURED FRAMING

0 2' 4' 8' 16'
SCALE: 3/32" = 1'-0"

ICE PAVILION
ELEVATIONS

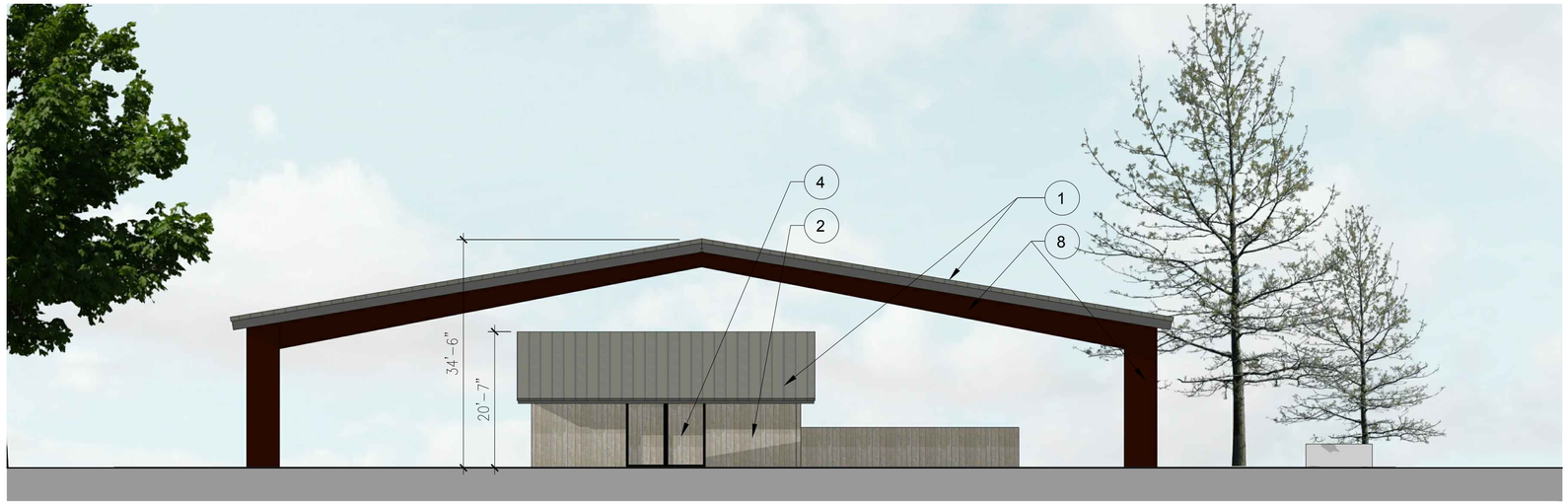
SILO RIDGE

AMENIA, NEW YORK

June 4, 2021

LE
ARCHITECTURE

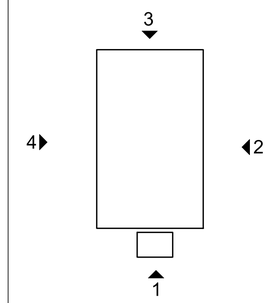
AC501



3 REAR ELEVATION

4 SIDE ELEVATION

KEY PLAN



NOTES

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4. WOOD DOORS
5. STONE FIREPLACE
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7. METAL GUTTERS
8. PRE-MANUFACTURED FRAMING

02'4' 8' 16'
SCALE: 3/32" = 1'-0"

ICE PAVILION
ELEVATIONS

SILO RIDGE
AMENIA, NEW YORK
June 4, 2021

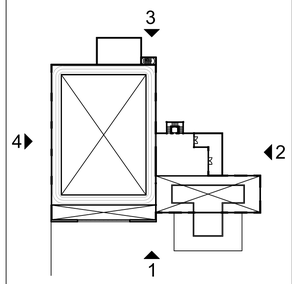
LE
ARCHITECTURE

AC502

1 FRONT ELEVATION

2 SIDE ELEVATION

KEY PLAN



NOTES

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3. ALUMINUM DOORS AND WINDOWS
4. WOOD DOORS
5. STONE FIREPLACE
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7. METAL GUTTERS
8. PRE-MANUFACTURED FRAMING

02'4' 8' 16'
SCALE: 3/32" = 1'-0"

FIELD HOUSE
ELEVATIONS

SILO RIDGE

AMENIA, NEW YORK

June 4, 2021

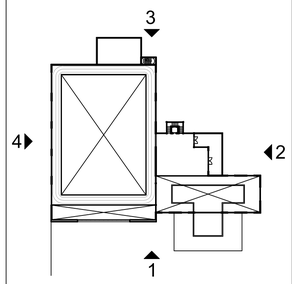
LE
ARCHITECTURE

AF501

3 REAR ELEVATION

4 SIDE ELEVATION

KEY PLAN



NOTES

1. STANDING SEAM METAL ROOFS
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3. ALUMINUM DOORS AND WINDOWS
4. WOOD DOORS
5. STONE FIREPLACE
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7. METAL GUTTERS
8. PRE-MANUFACTURED FRAMING

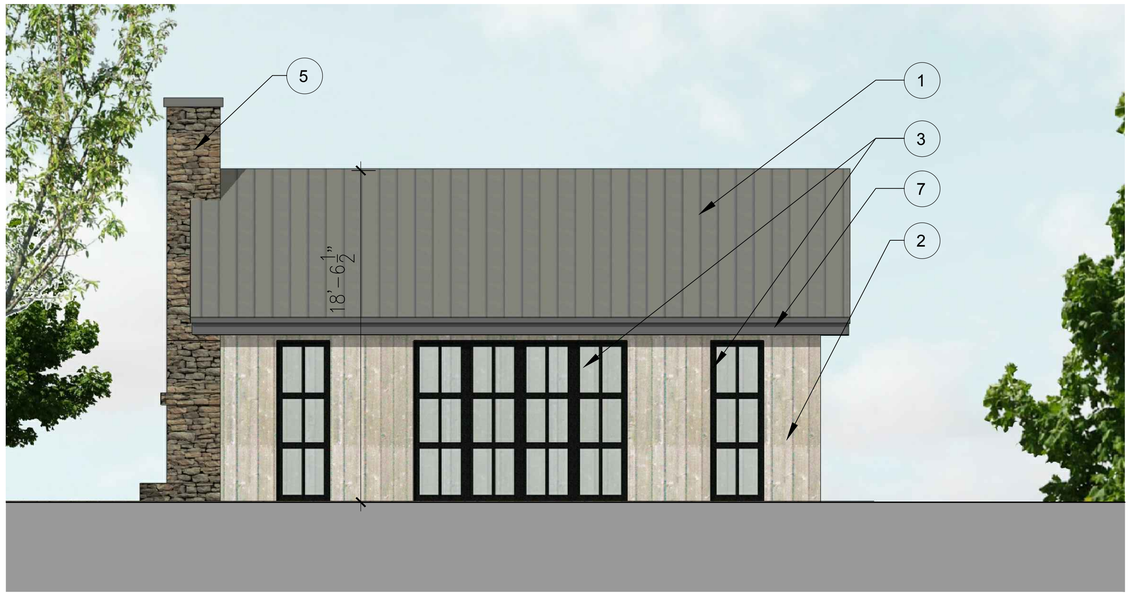
02'4' 8' 16'
SCALE: 3/32" = 1'-0"

FIELD HOUSE
ELEVATIONS

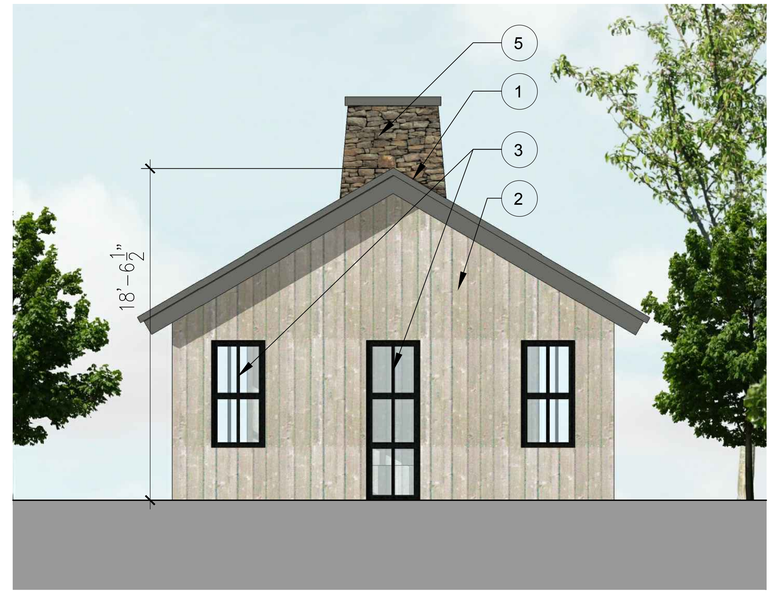
SILO RIDGE
AMENIA, NEW YORK
June 4, 2021

LE
ARCHITECTURE

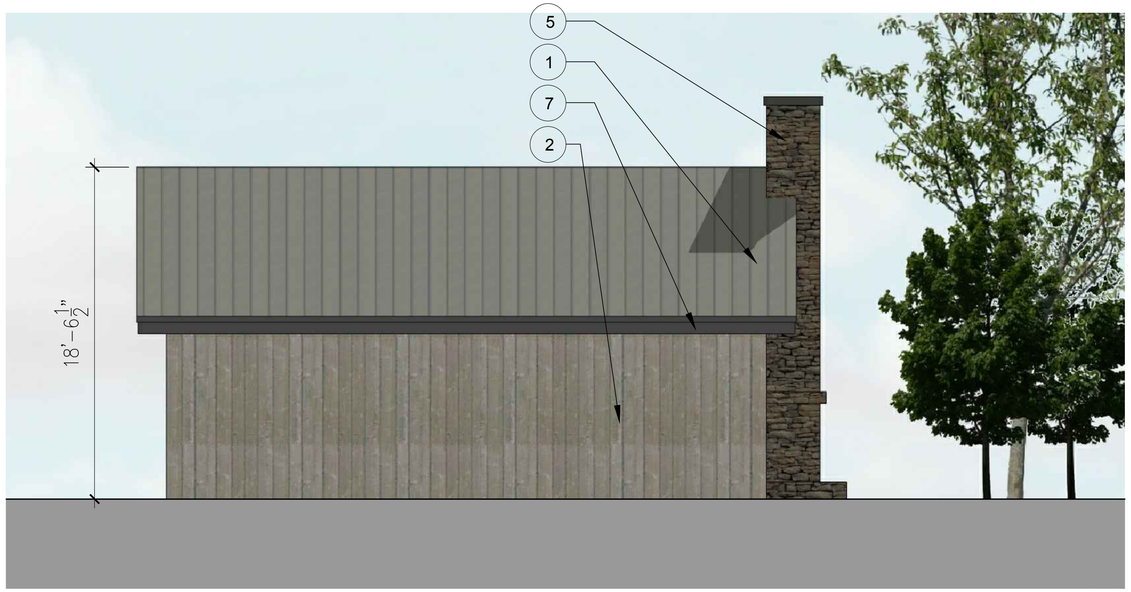
AF502



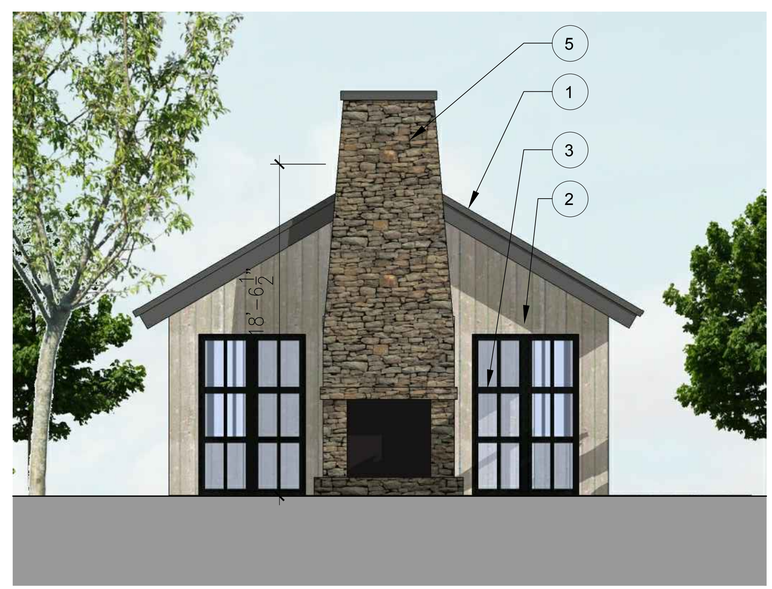
1 FRONT ELEVATION



2 SIDE ELEVATION

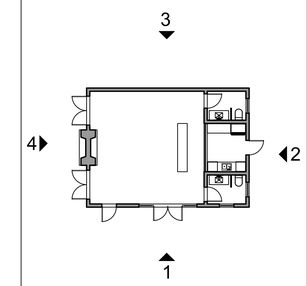


3 BACK ELEVATION



4 SIDE ELEVATION

KEY PLAN



NOTES

1. STANDING SEAM METAL ROOFS
2. WEATHERED WOOD SIDING
3. ALUMINUM DOORS AND WINDOWS
4. WOOD DOORS
5. STONE FIREPLACE
6. GLASS RAILING
7. METAL GUTTERS
8. PRE-MANUFACTURED FRAMING

0 1' 2' 4' 6' 10'
SCALE: 1/4"=1'-0"

WARMING HUT
ELEVATIONS

SILO RIDGE
AMENIA, NEW YORK
June 4, 2021

LE
ARCHITECTURE

AH501