

WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES.)

2. REASONABLE CARE WILL BE TAKEN, INSOFAR AS IS PRACTICAL, TO RETAIN DESIRABLE SPECIES FOUND WITHIN TYPE II CLEARING ZONES. THE ENVIRONMENTAL MONITOR (EM) WILL MAKE A FIELD DETERMINATION AS TO WHETHER SUCH RETENTION WOULD IMPOSE AN UNREASONABLE BURDEN ON CLEARING OR CONSTRUCTION ACTIVITIES.

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Excelsior Energy Center

Town of Byron, New York

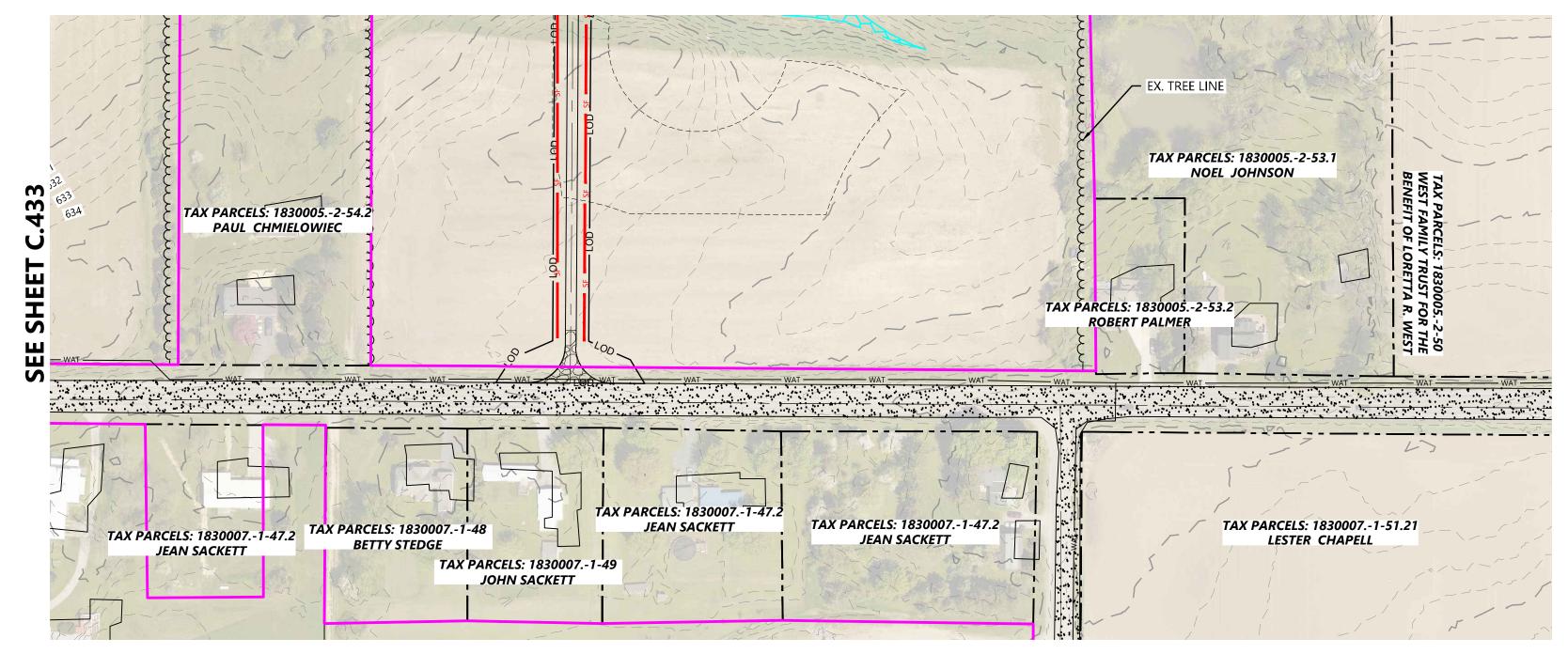
Tree Clearing Plan -35

NOT FOR CONSTRUCTION

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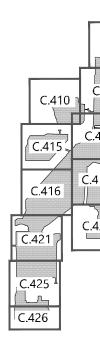
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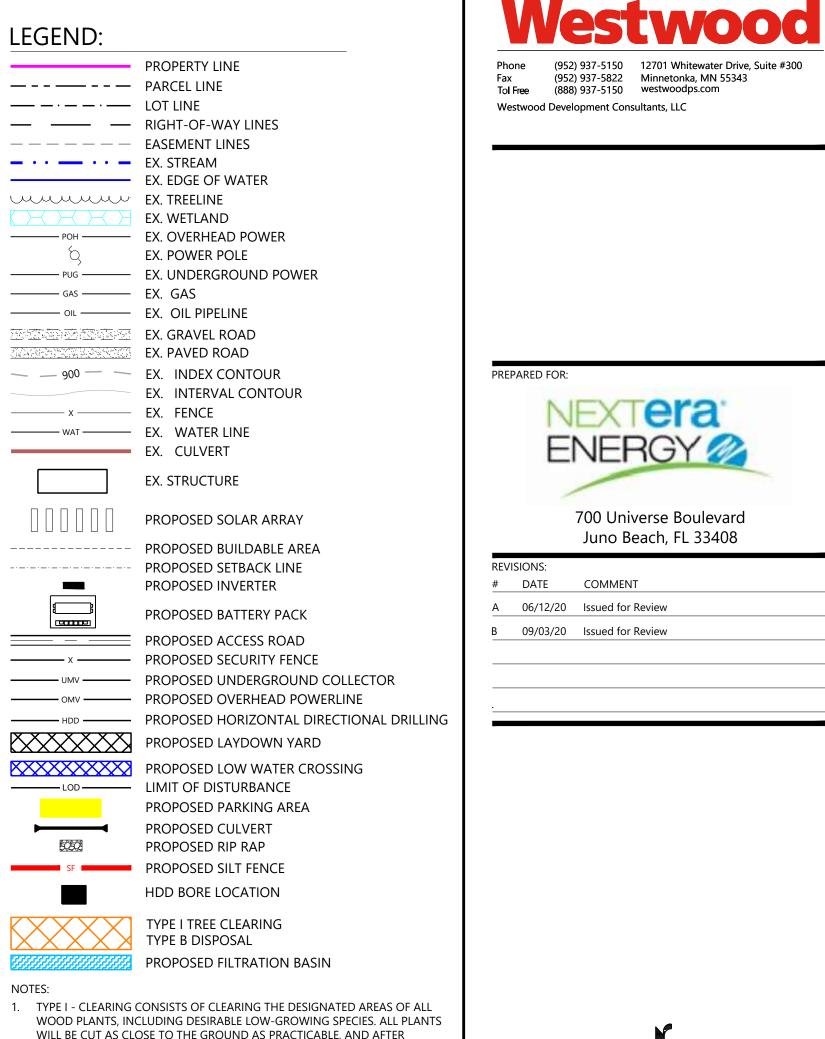
KEY MAP



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Excelsior Energy Center

Town of Byron, New York

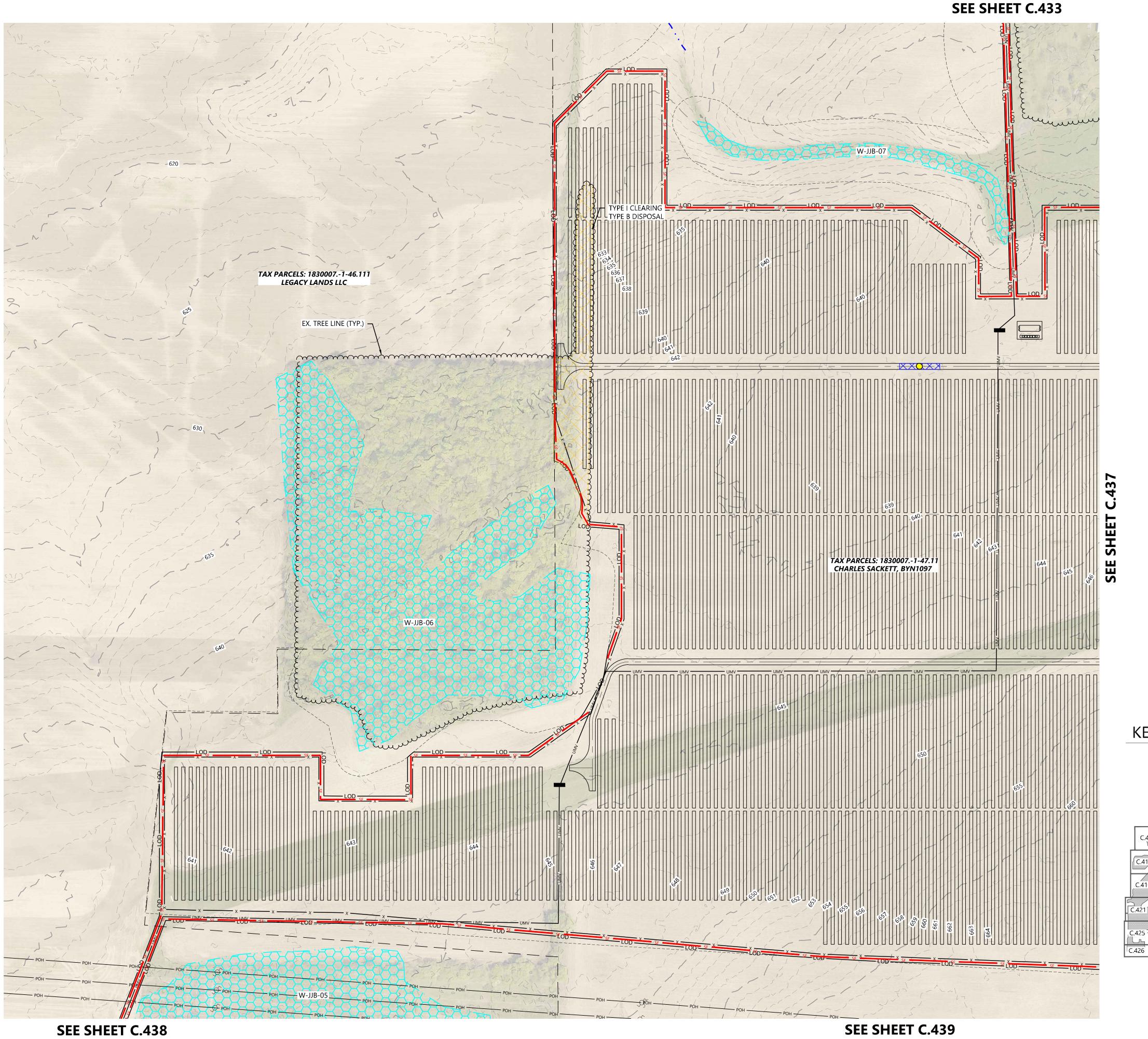
Tree Clearing Plan -36

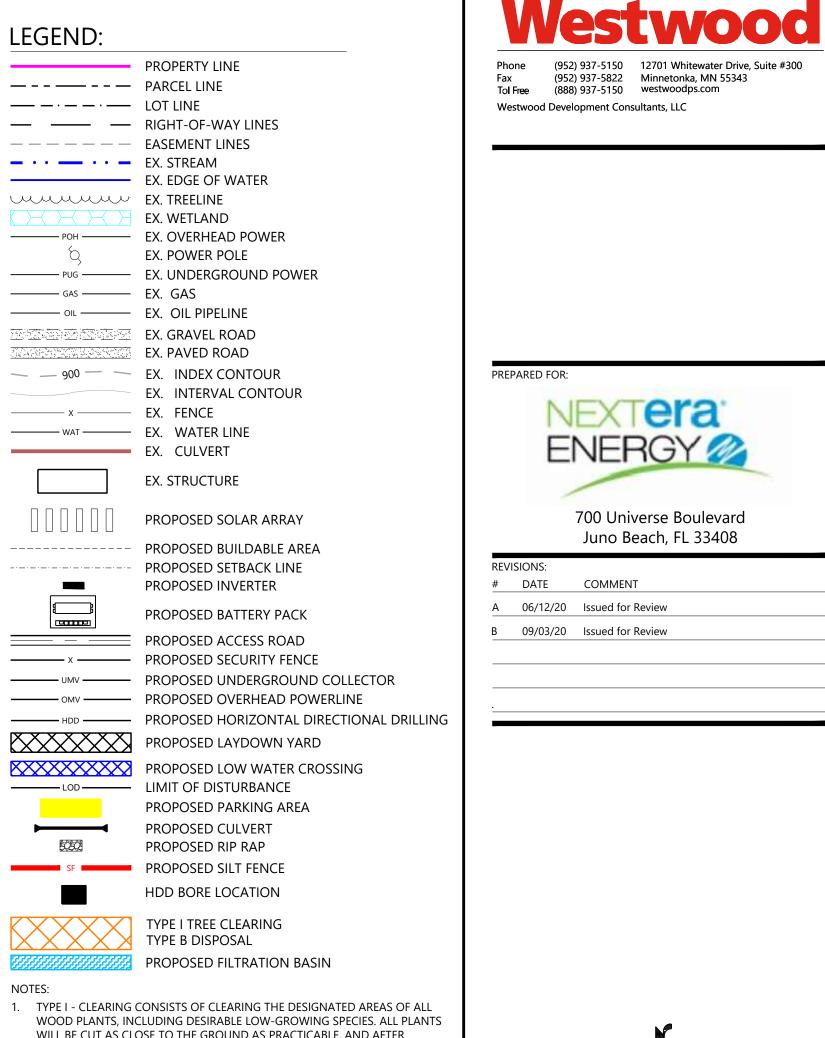
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Excelsior Energy Center

Town of Byron, New York

Tree Clearing Plan -37

NOT FOR CONSTRUCTION

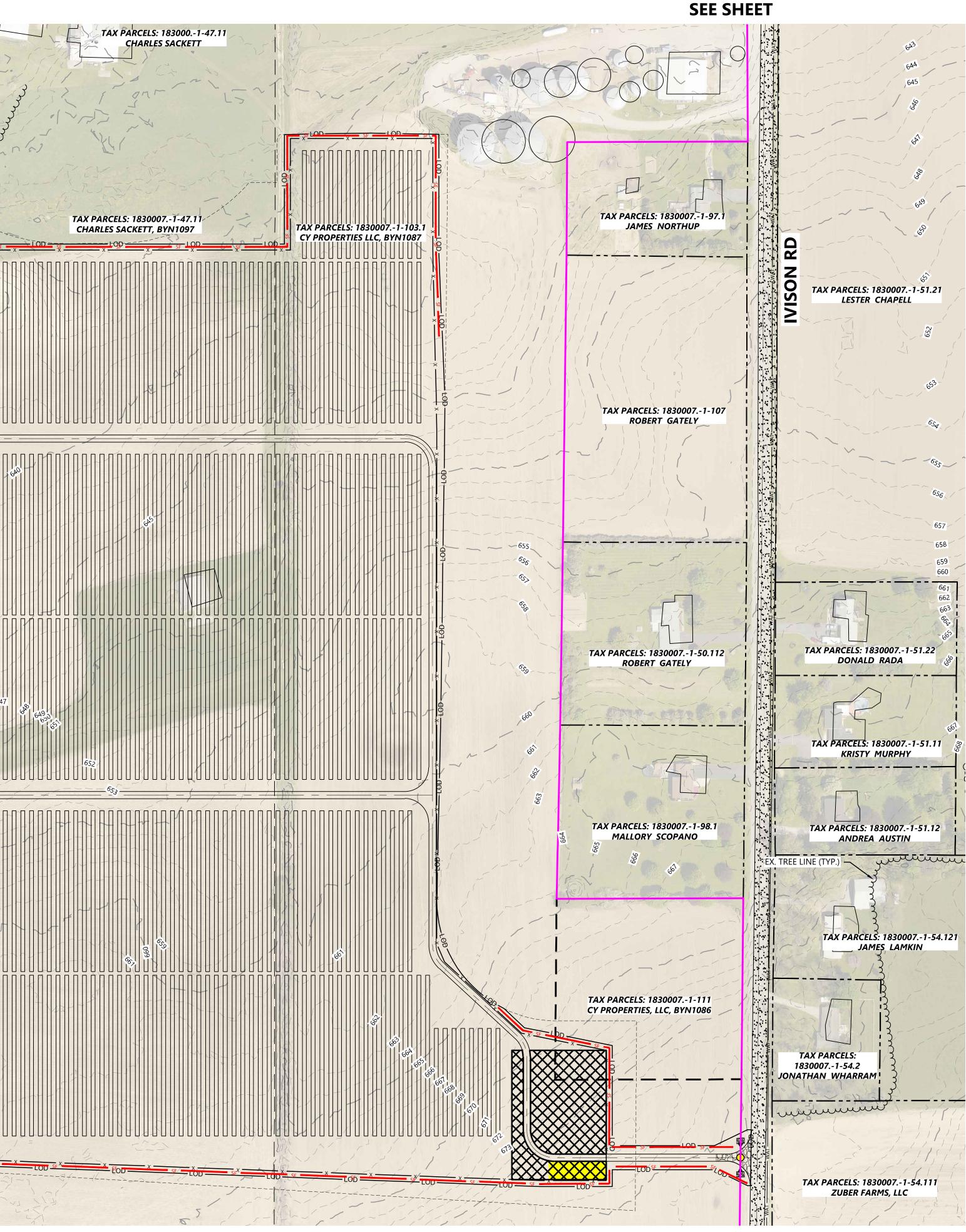
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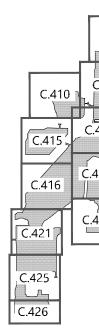
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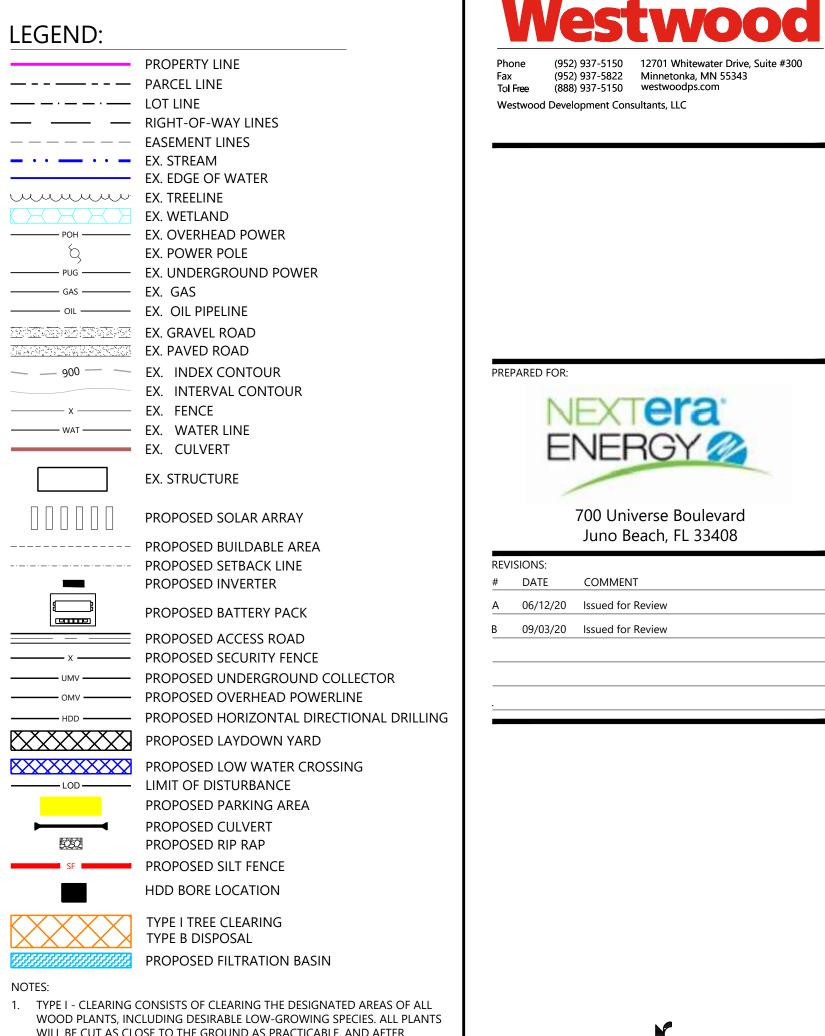
SEE SHEET C.436



SEE SHEET C.439

KEY MAP





TYPE I - CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ALL WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES.)

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Town of Byron, New York

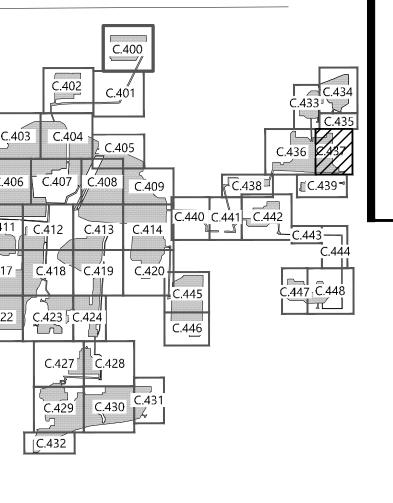
Tree Clearing Plan -38

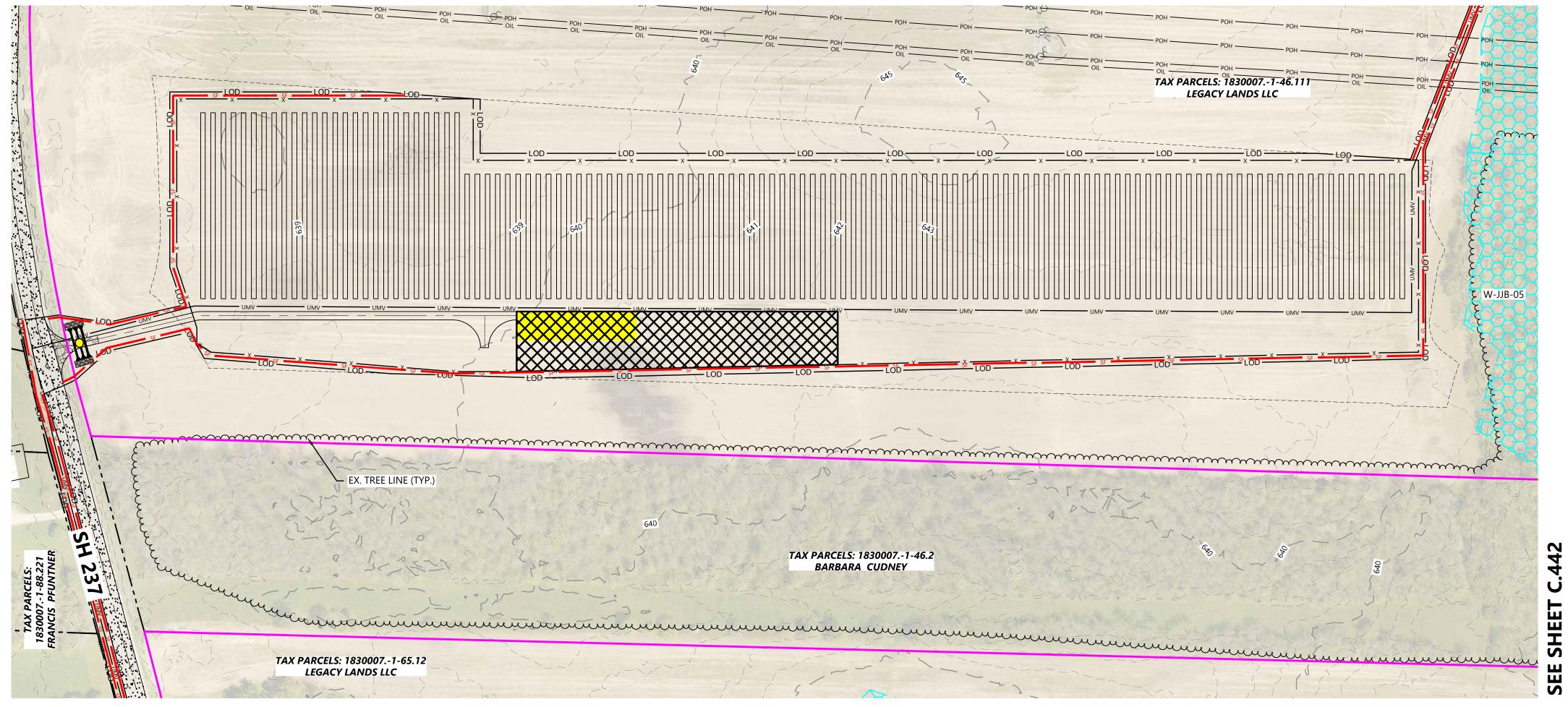
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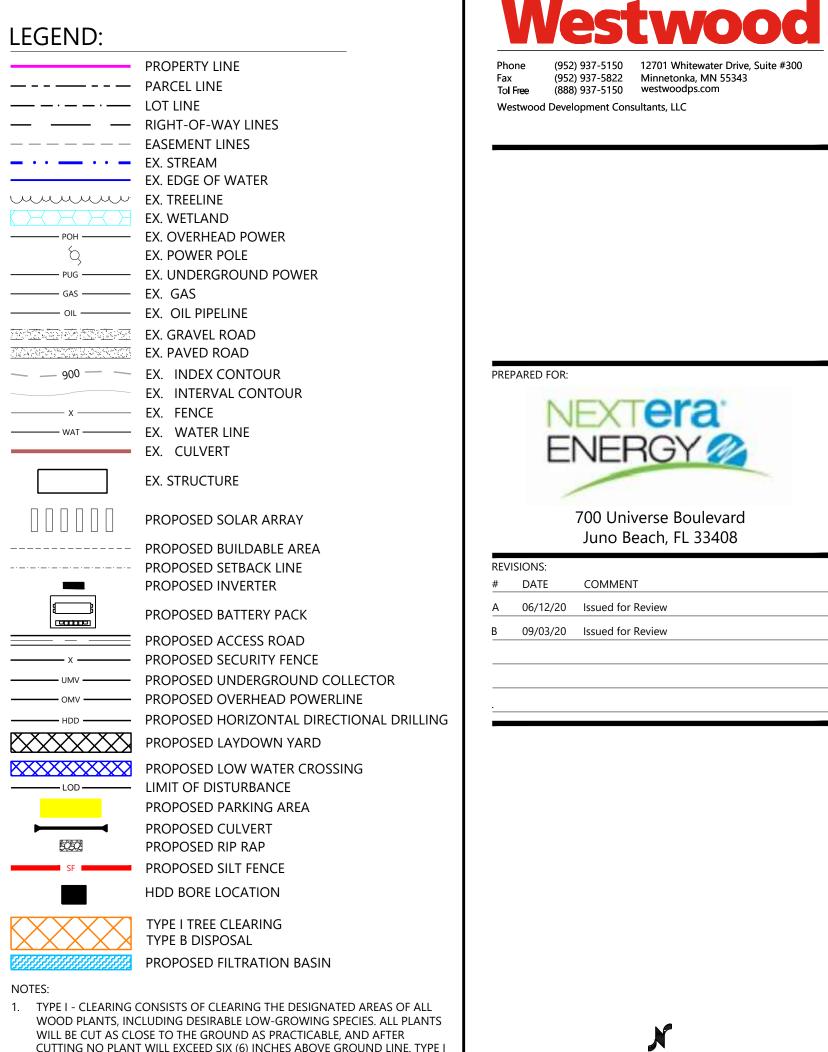




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C.410 C.415 C.415 C.416 C.421 C.425 C.426

KEY MAP



WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES.)

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Excelsior Energy Center

Town of Byron, New York

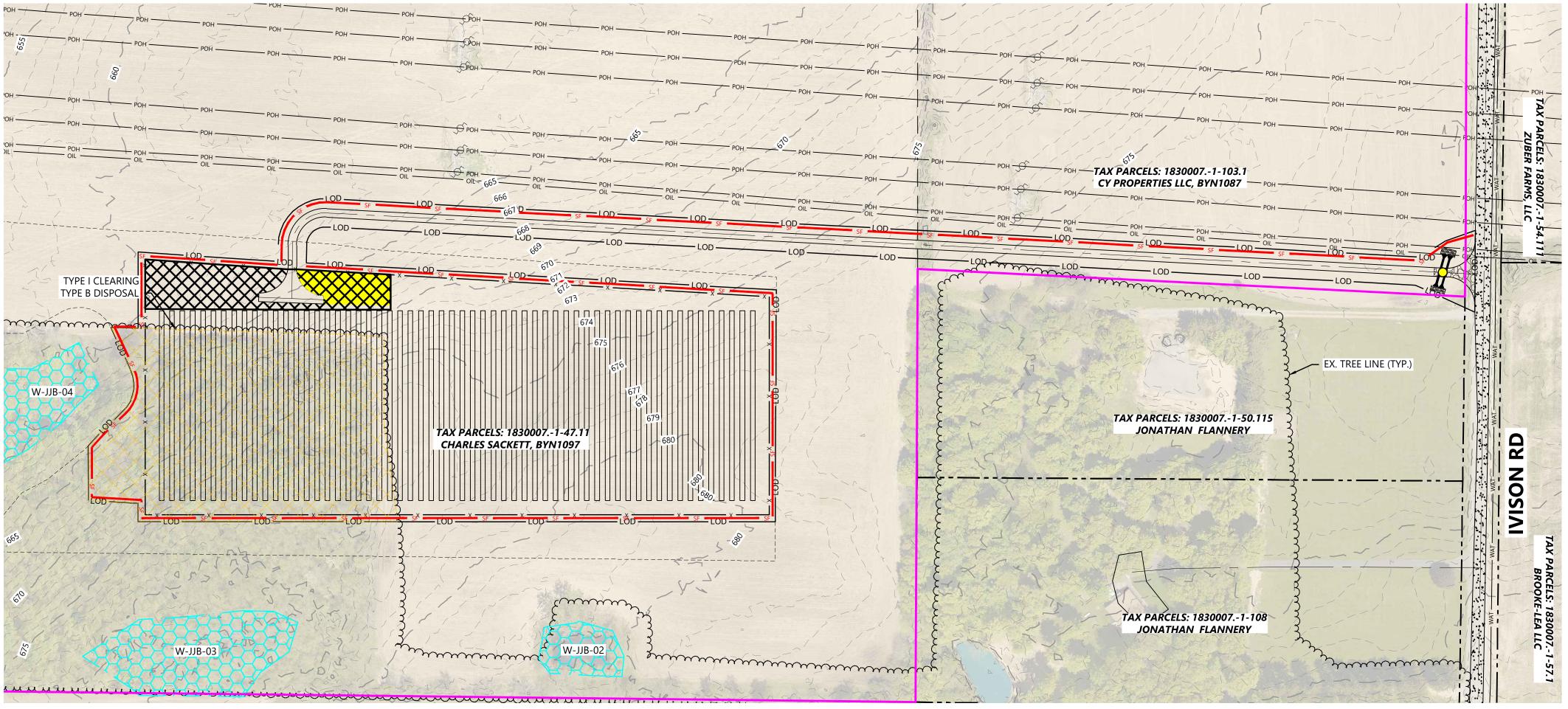
Tree Clearing Plan -39

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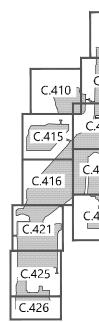
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SEE SHEET C.437

KEY MAP





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Excelsior Energy Center

Town of Byron, New York

Tree Clearing Plan -40

NOT FOR CONSTRUCTION

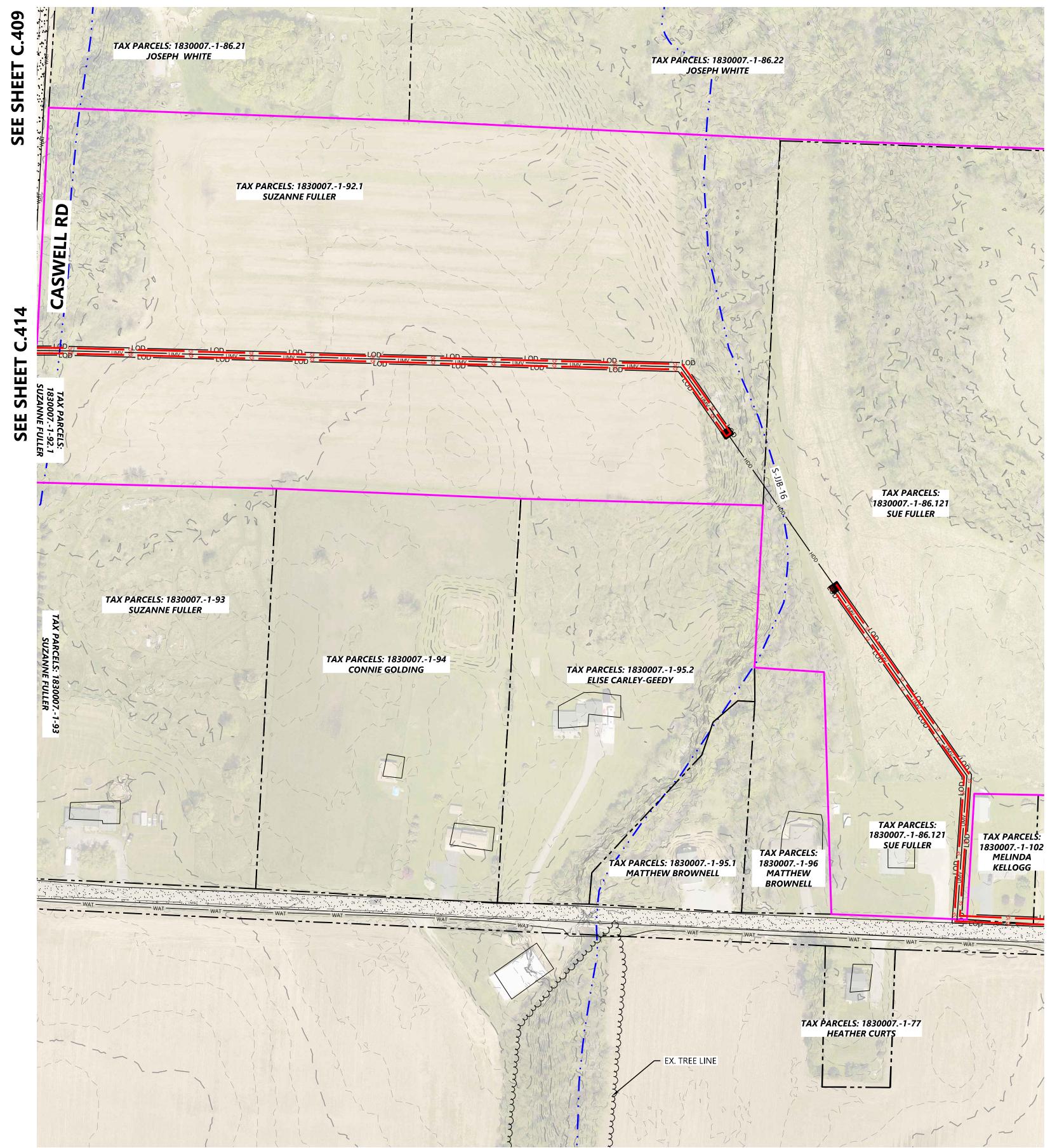
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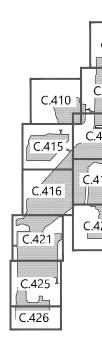
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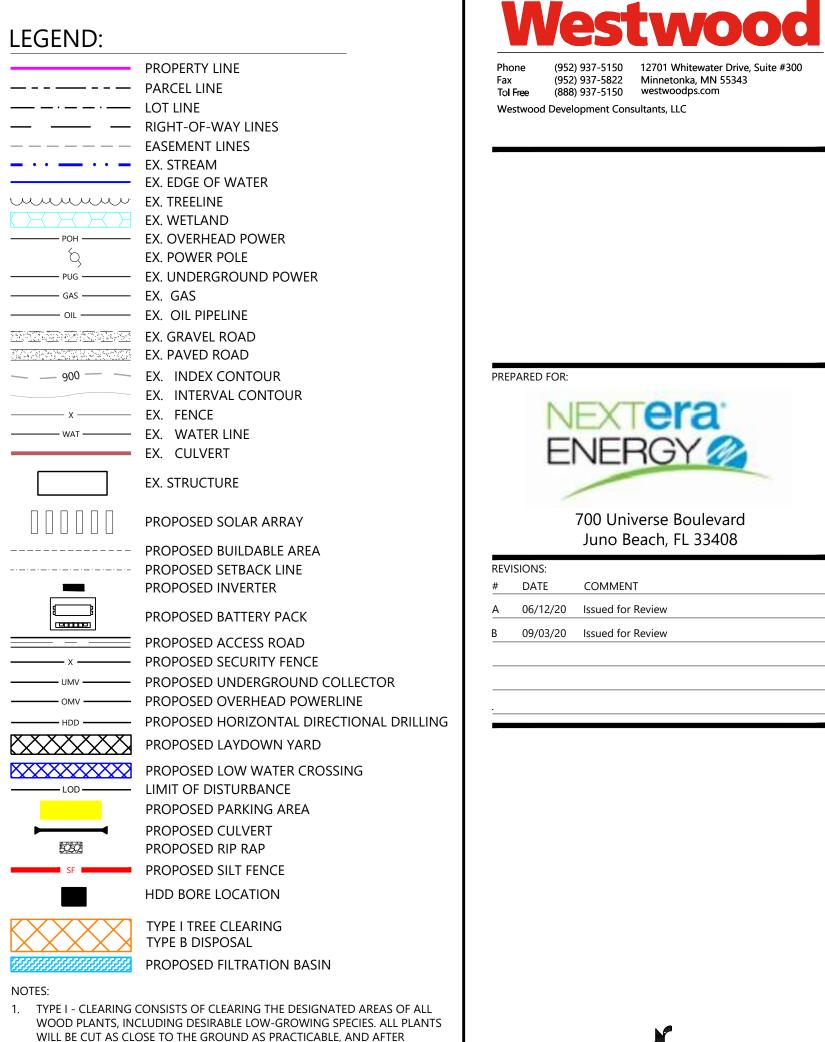
C.43 .433 <u>C.43</u> C.436 C.437 C.438 C.440 C.441 C.442 C.443 C.444 C.444 C.444 C.414 C.413 C.447 C.448 C.446 C.427



KEY MAP



C 427



WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES.)

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Excelsior Energy Center

Town of Byron, New York

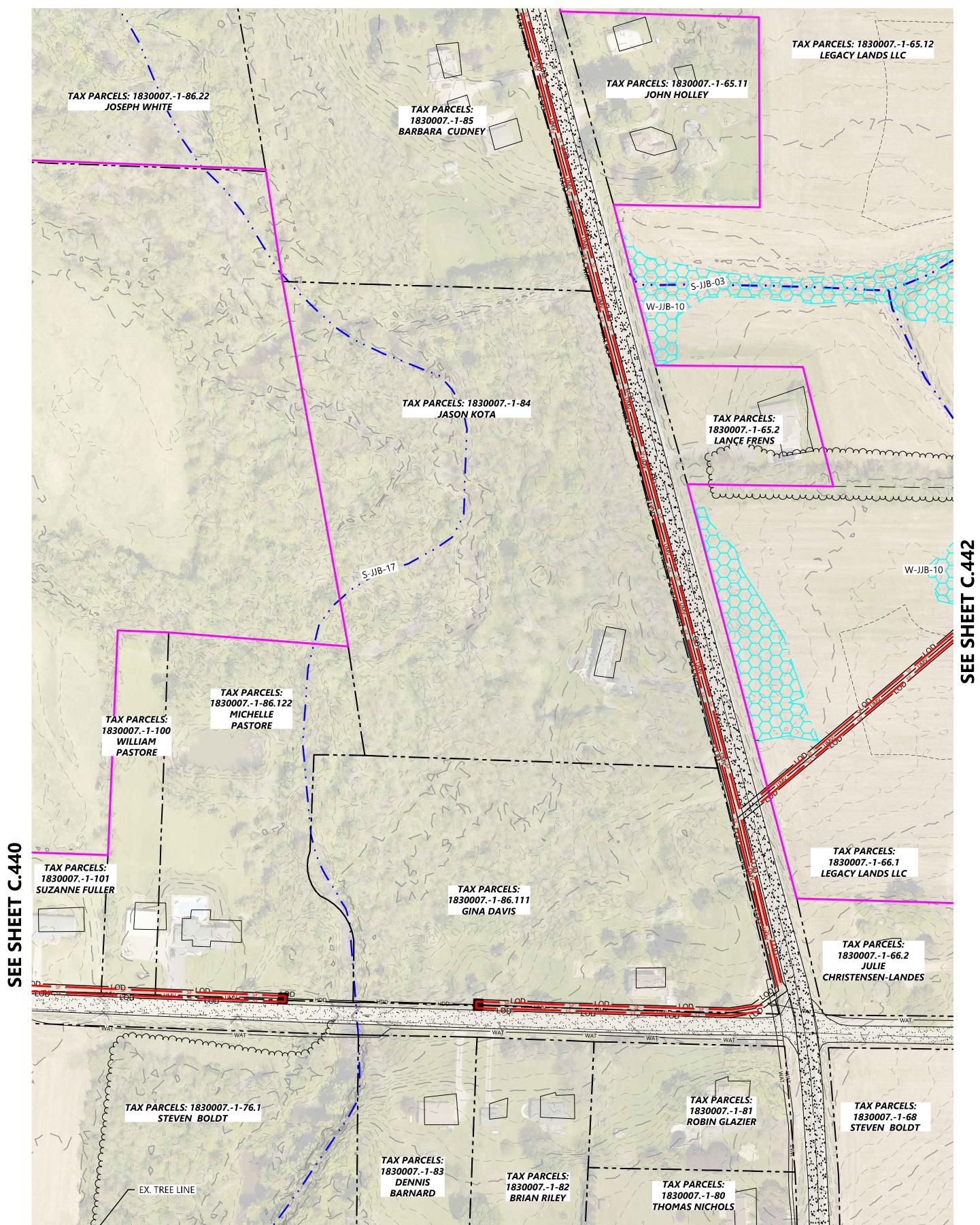
Tree Clearing Plan -41

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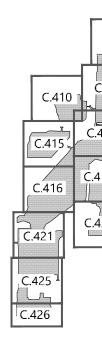
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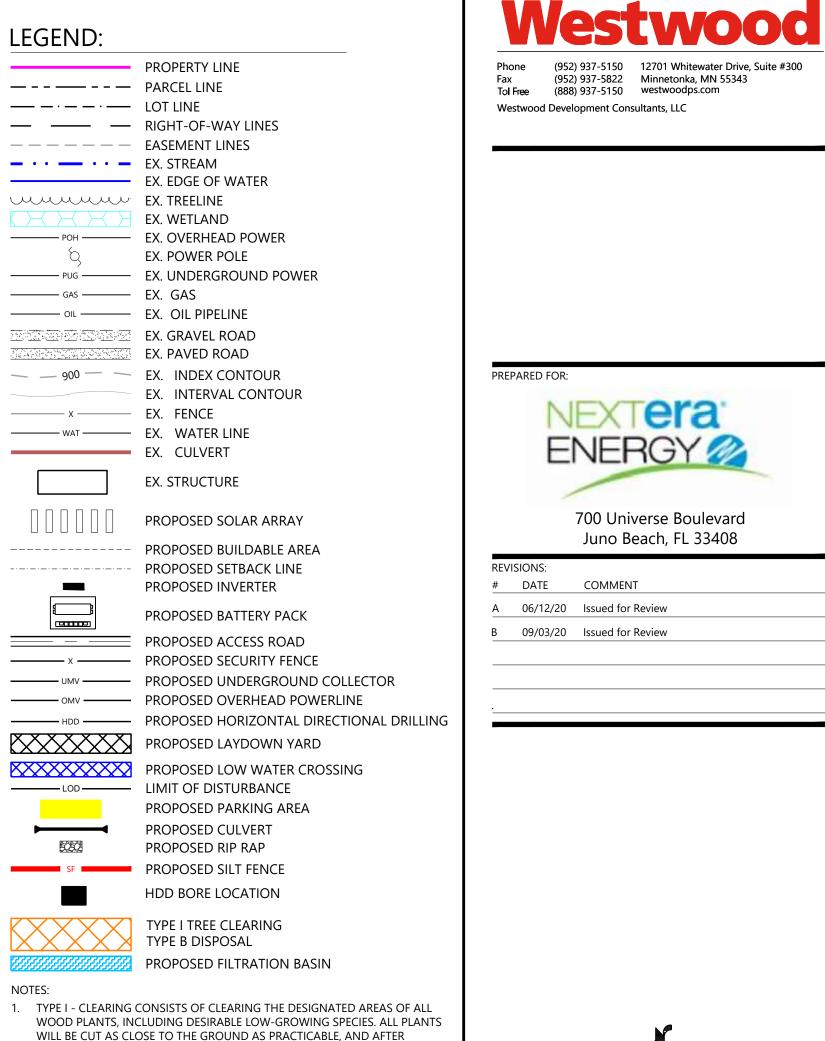
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Town of Byron, New York

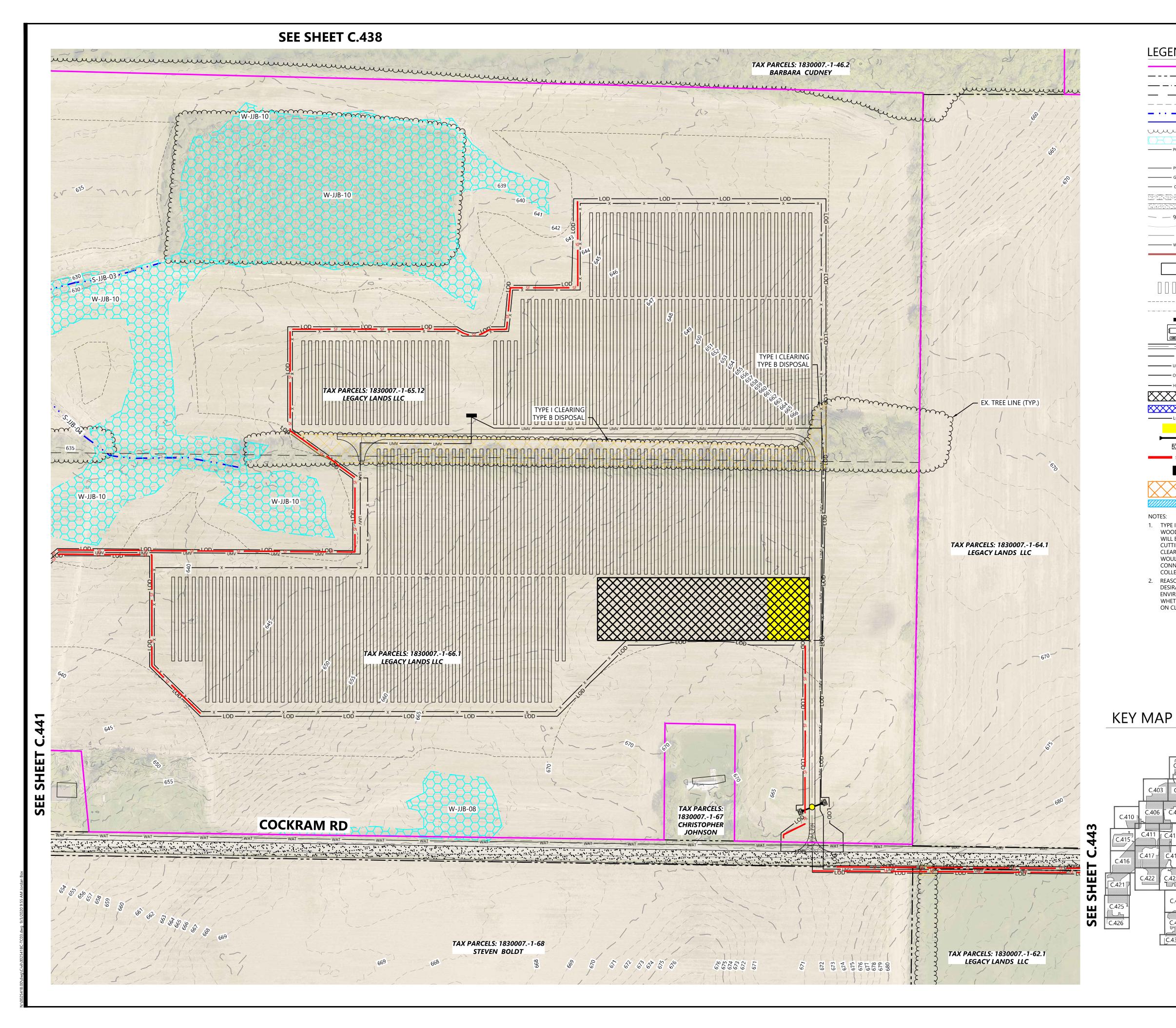
Tree Clearing Plan -42

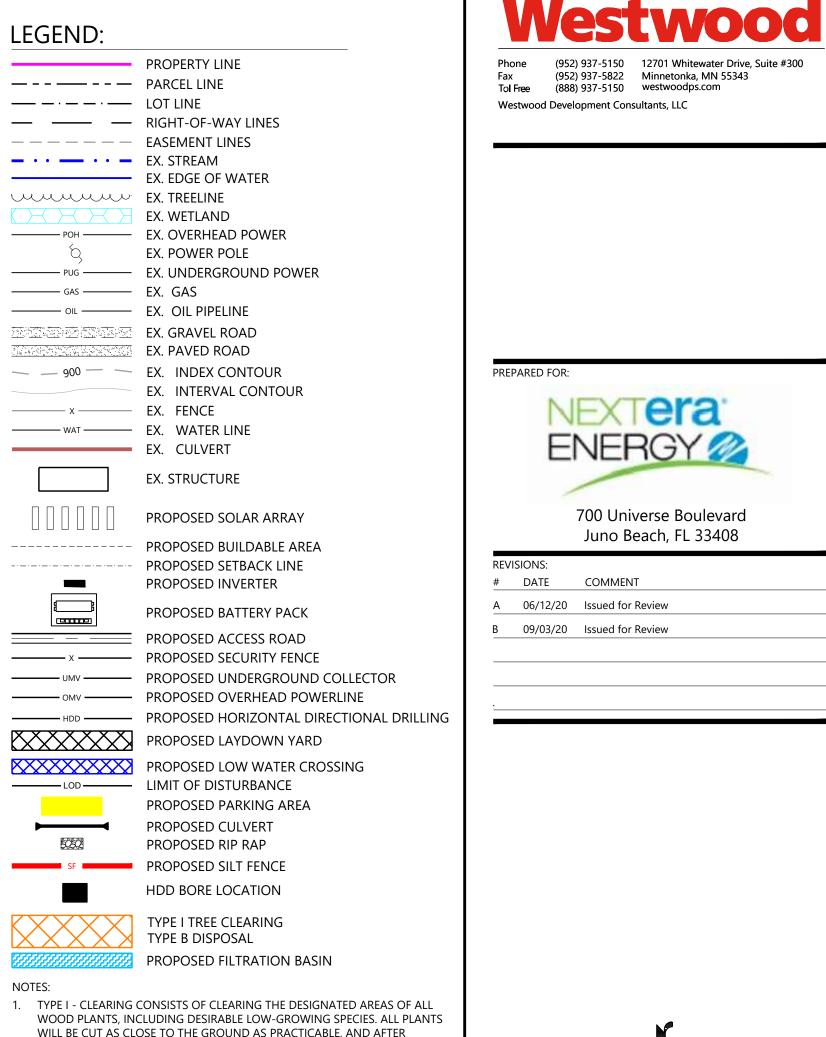
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WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES.)

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Excelsior Energy Center

Town of Byron, New York

Tree Clearing Plan -43

NOT FOR CONSTRUCTION

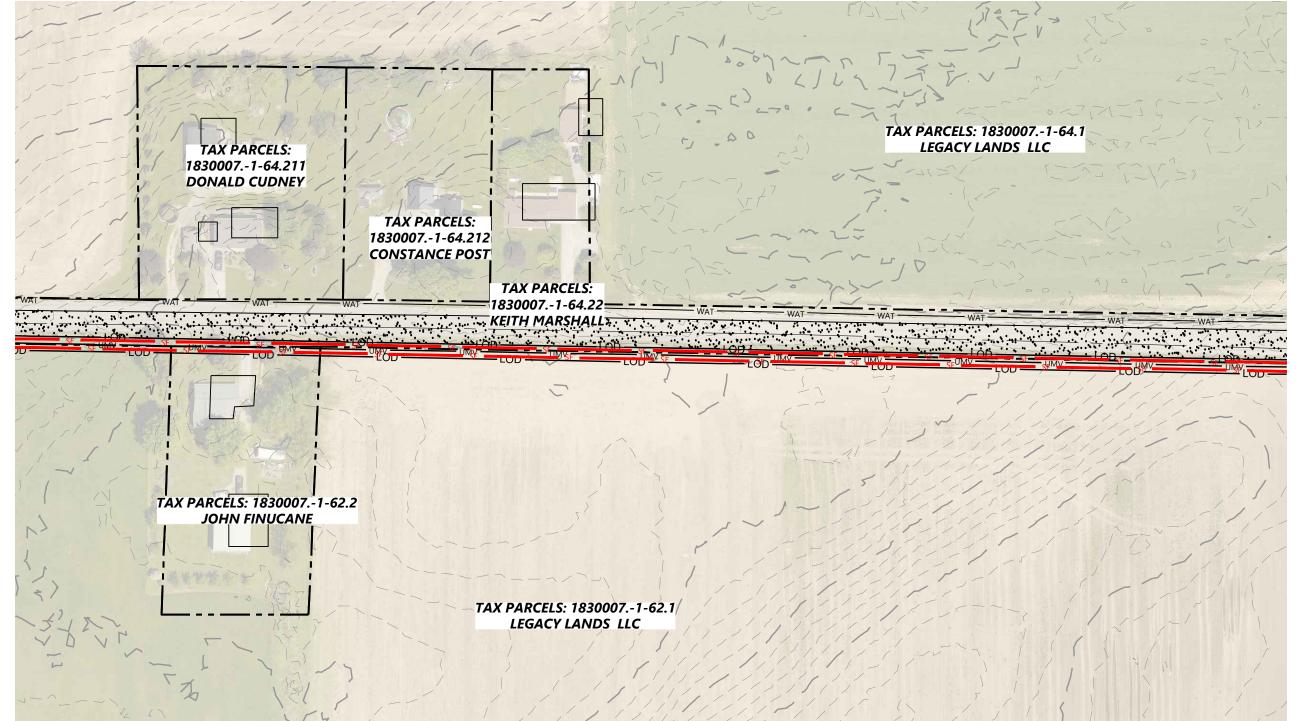
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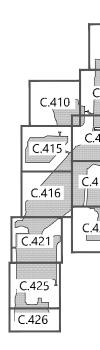
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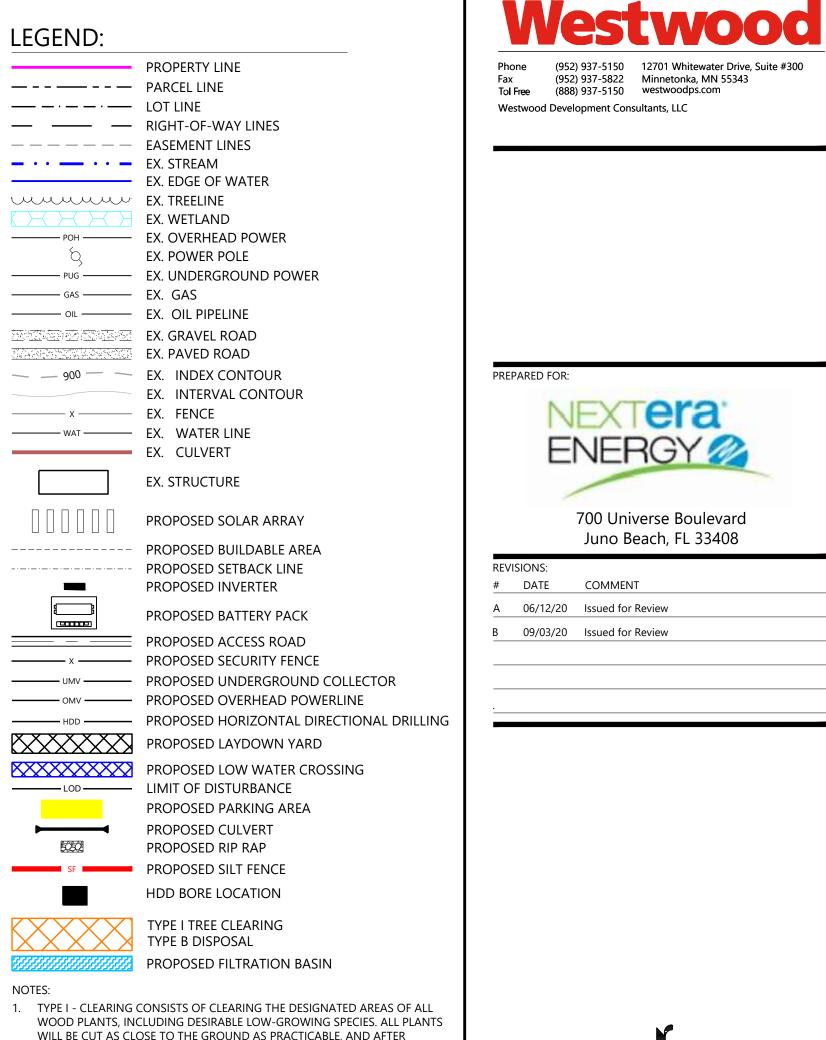
SEE SHEET C.442



SEE SHEET C.44²

KEY MAP





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Excelsior Energy Center

Town of Byron, New York

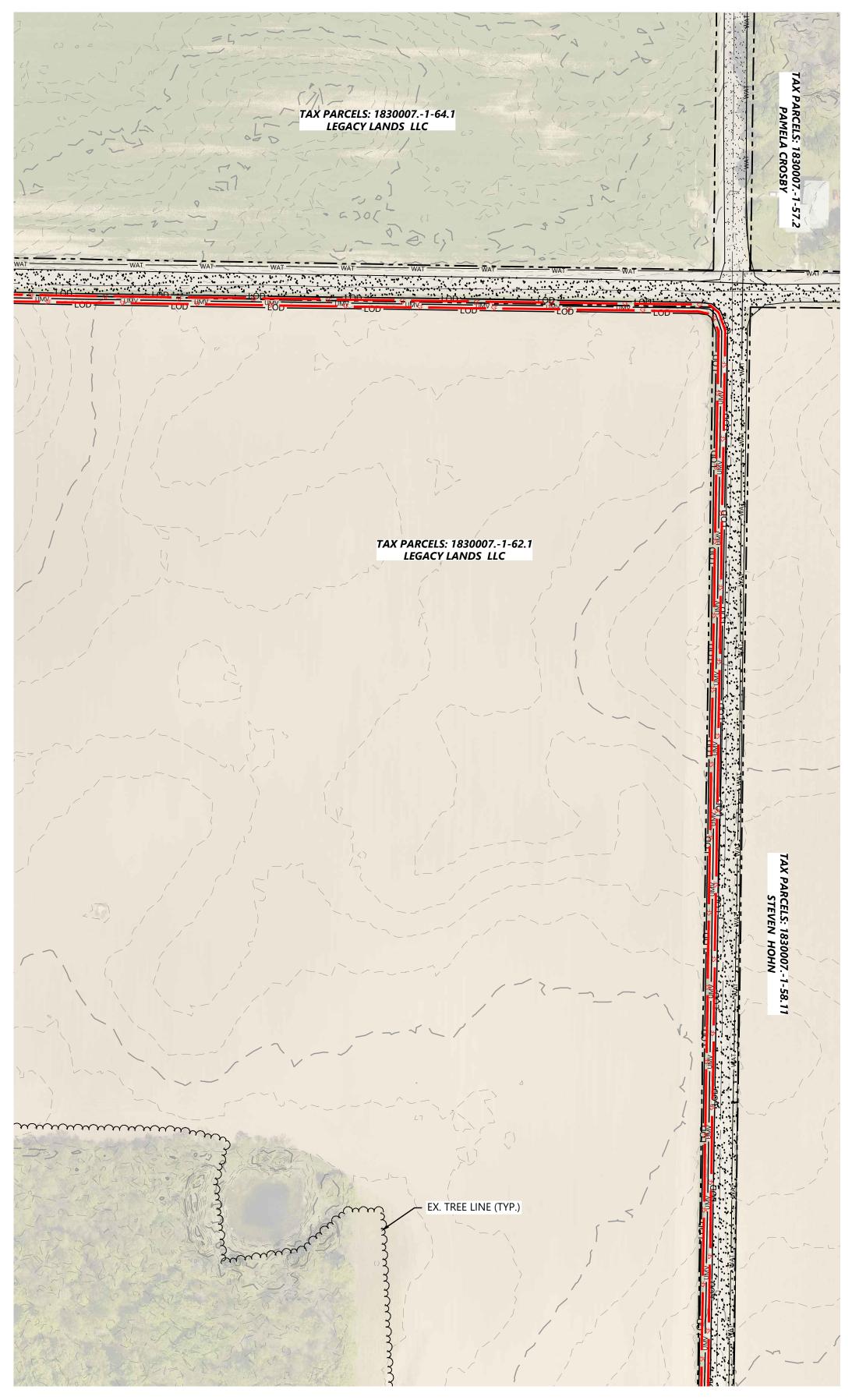
Tree Clearing Plan -44

NOT FOR CONSTRUCTION

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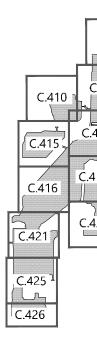
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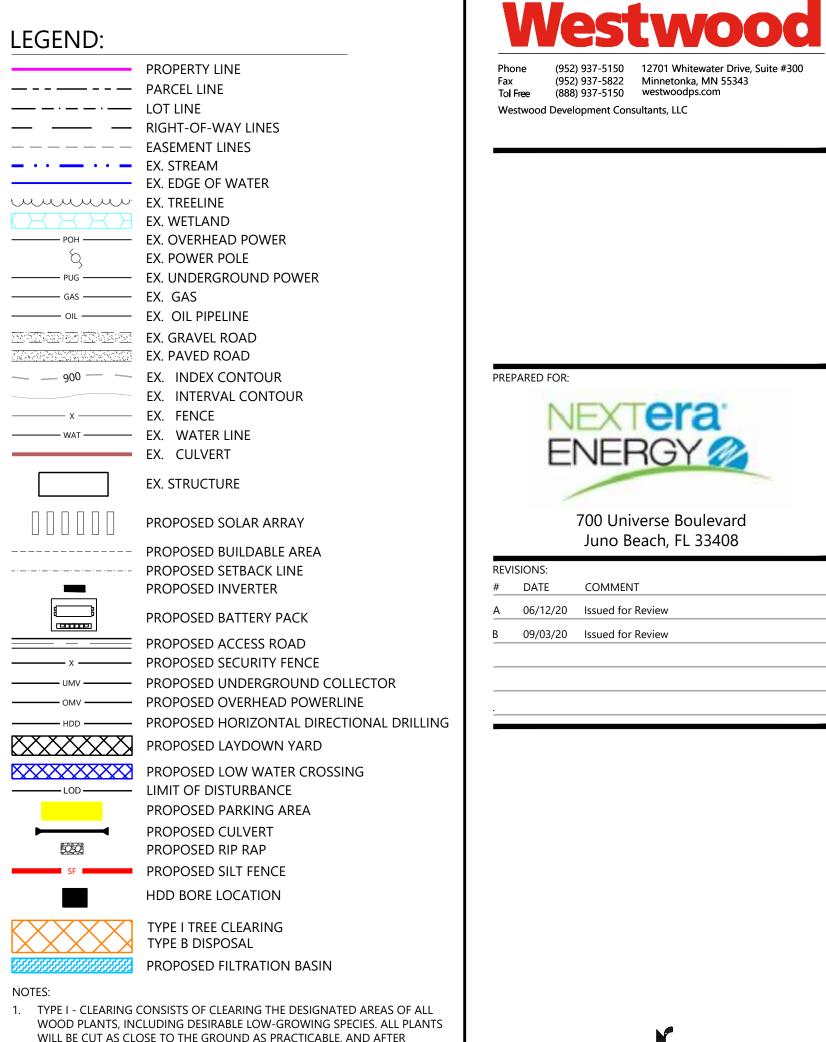


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KEY MAP





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Excelsior Energy Center

Town of Byron, New York

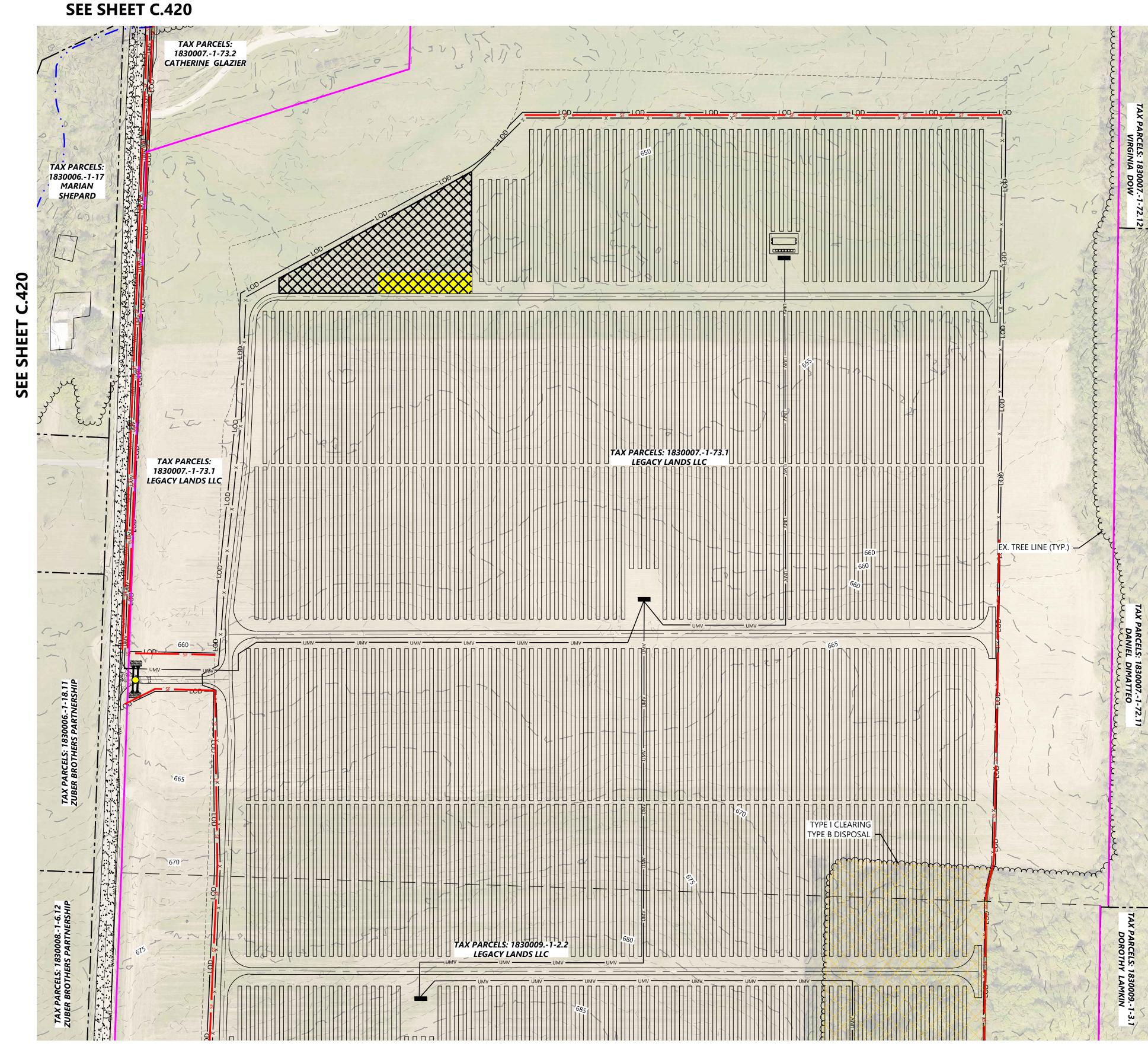
Tree Clearing Plan -45

NOT FOR CONSTRUCTION

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09/03/2020

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C.404

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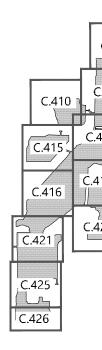
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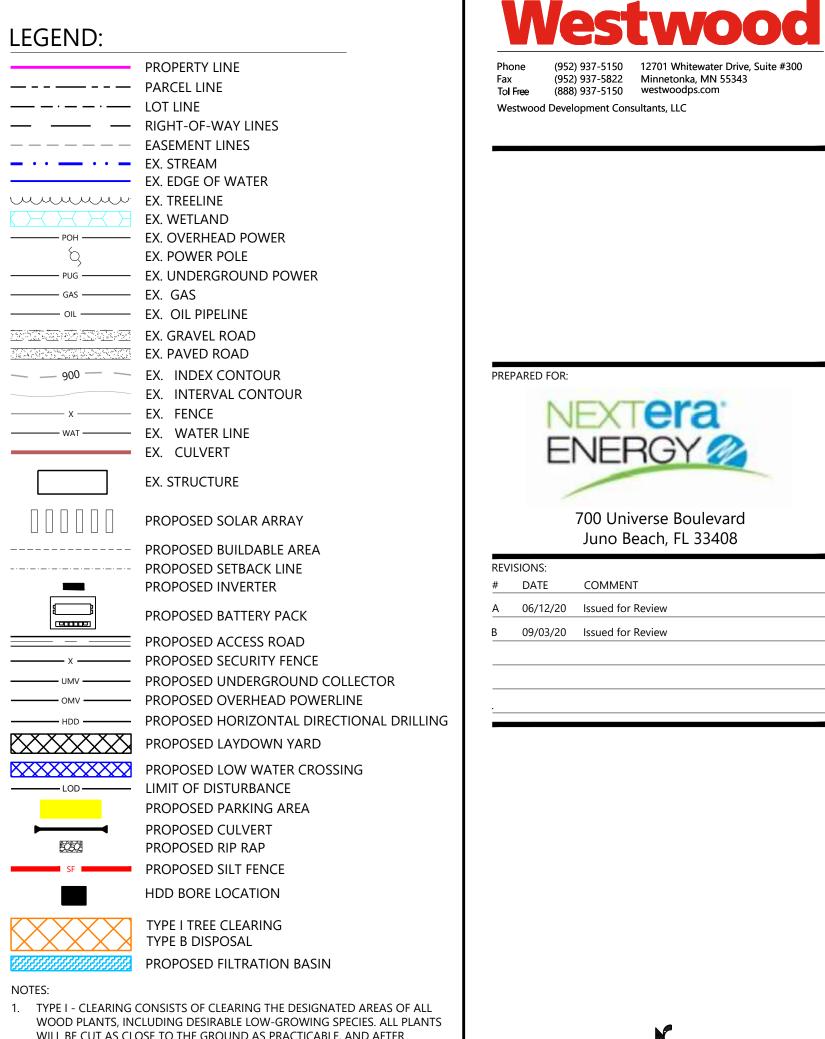
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SEE SHEET C.446



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Excelsior Energy Center

Town of Byron, New York

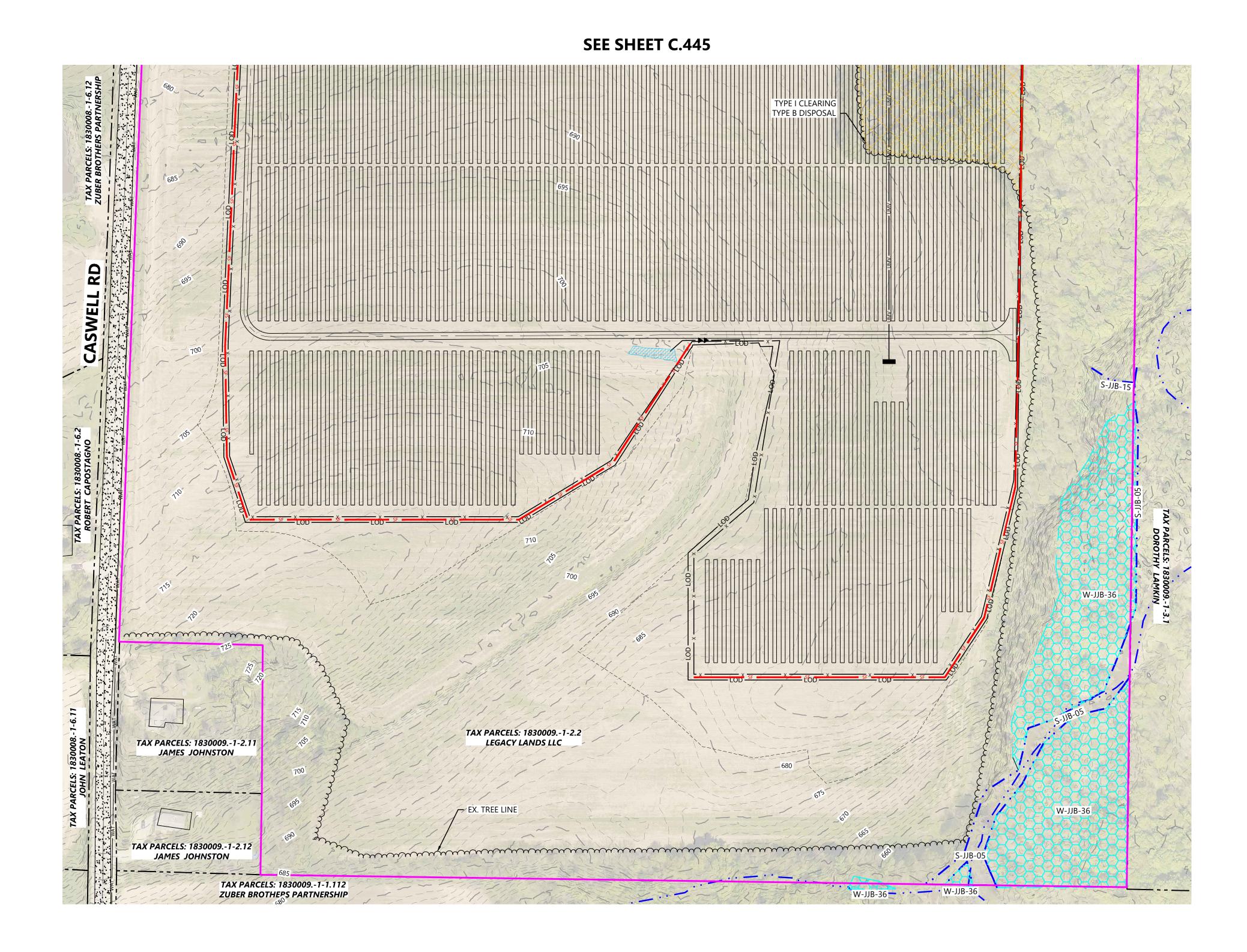
Tree Clearing Plan -46

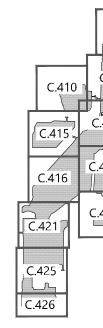
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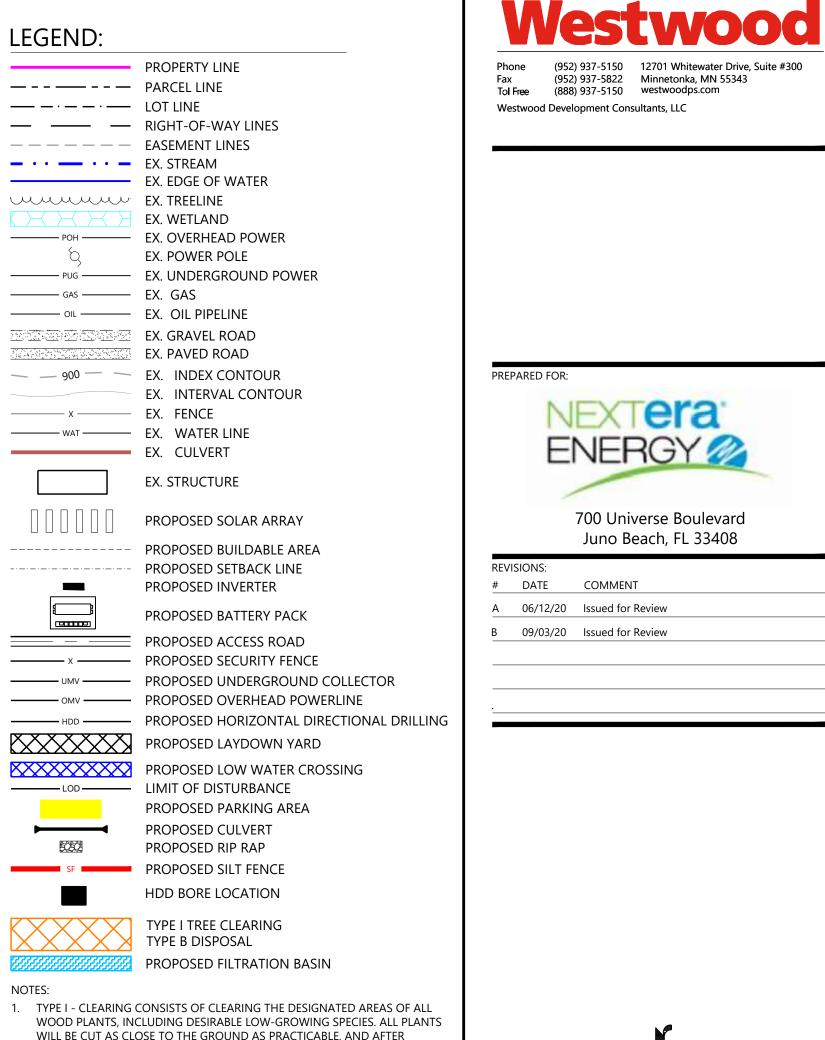
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Excelsior Energy Center

Town of Byron, New York

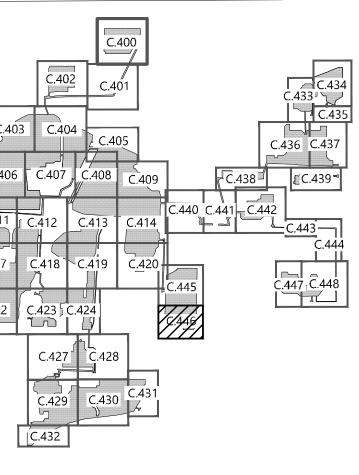
Tree Clearing Plan -47

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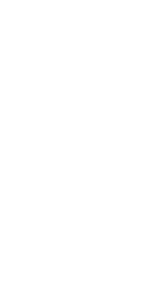




































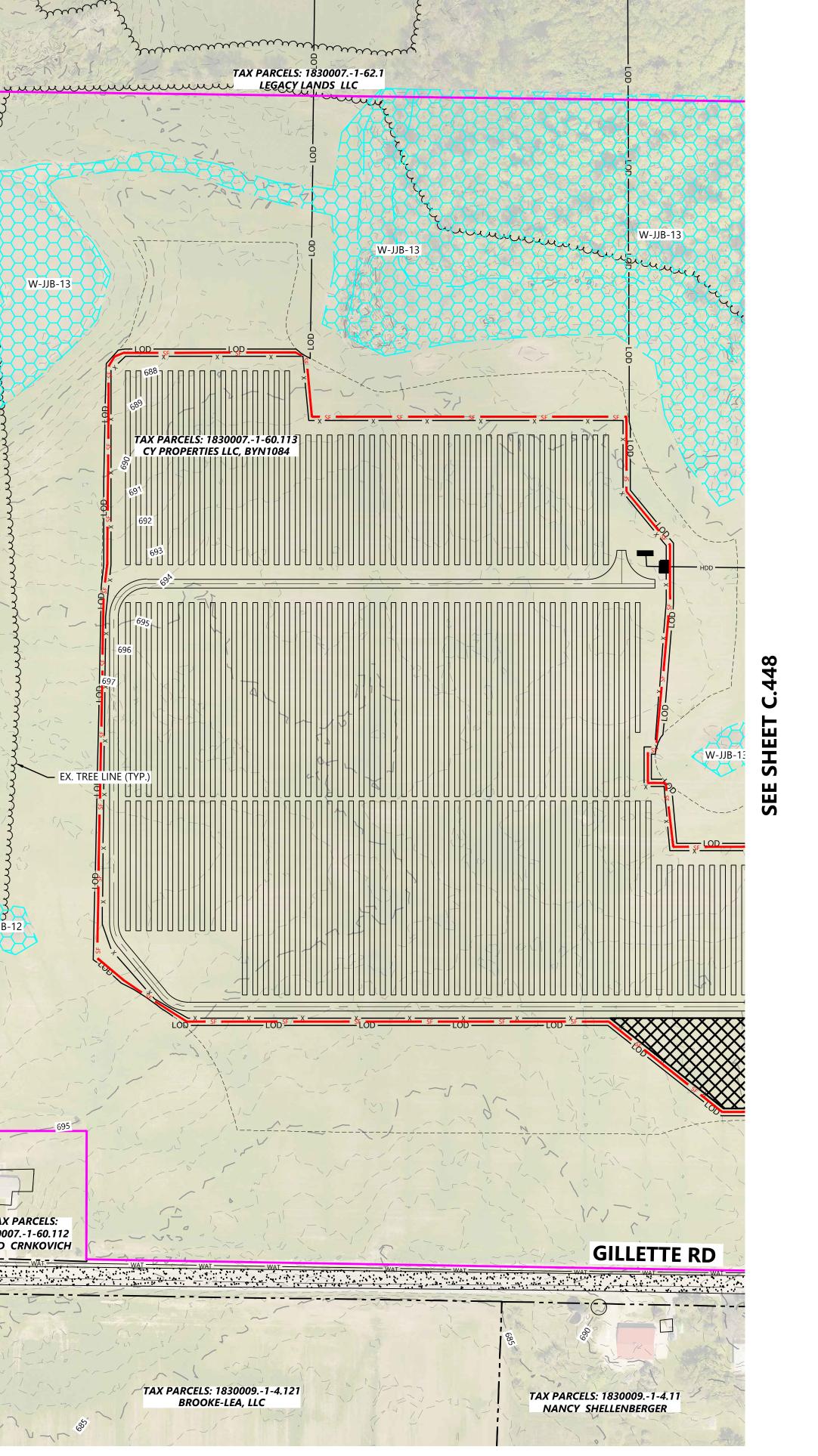


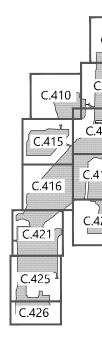


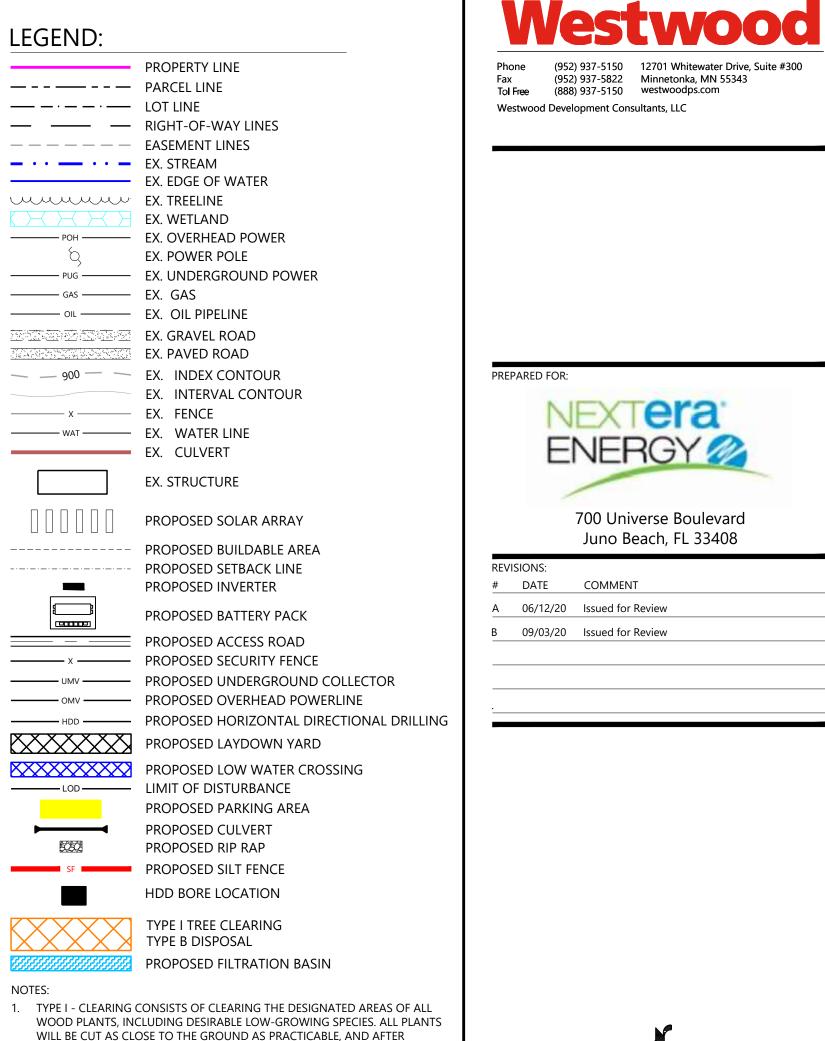












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Excelsior Energy Center

Town of Byron, New York

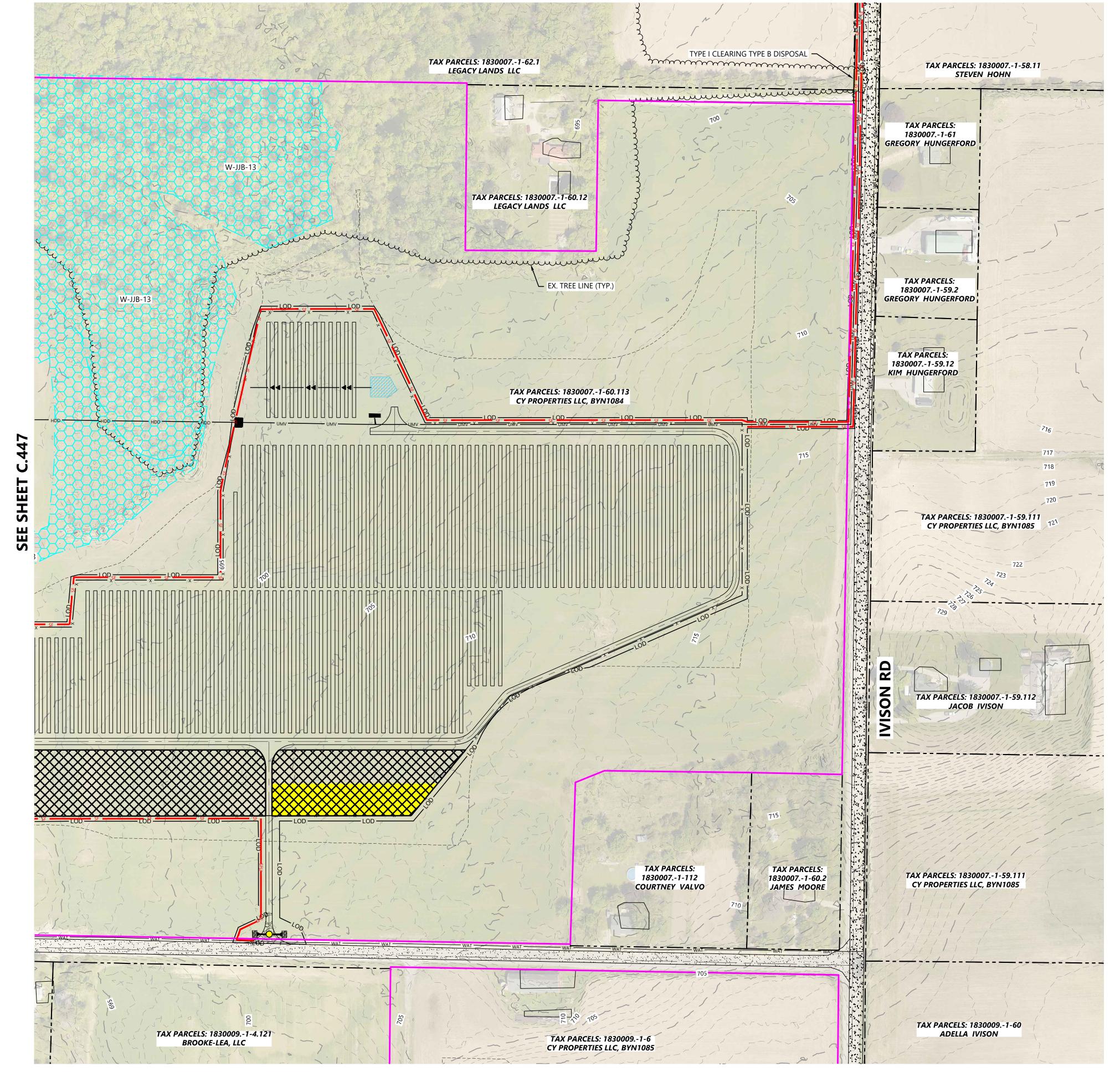
Tree Clearing Plan -48

NOT FOR CONSTRUCTION

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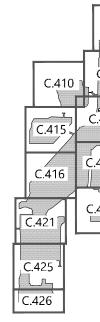
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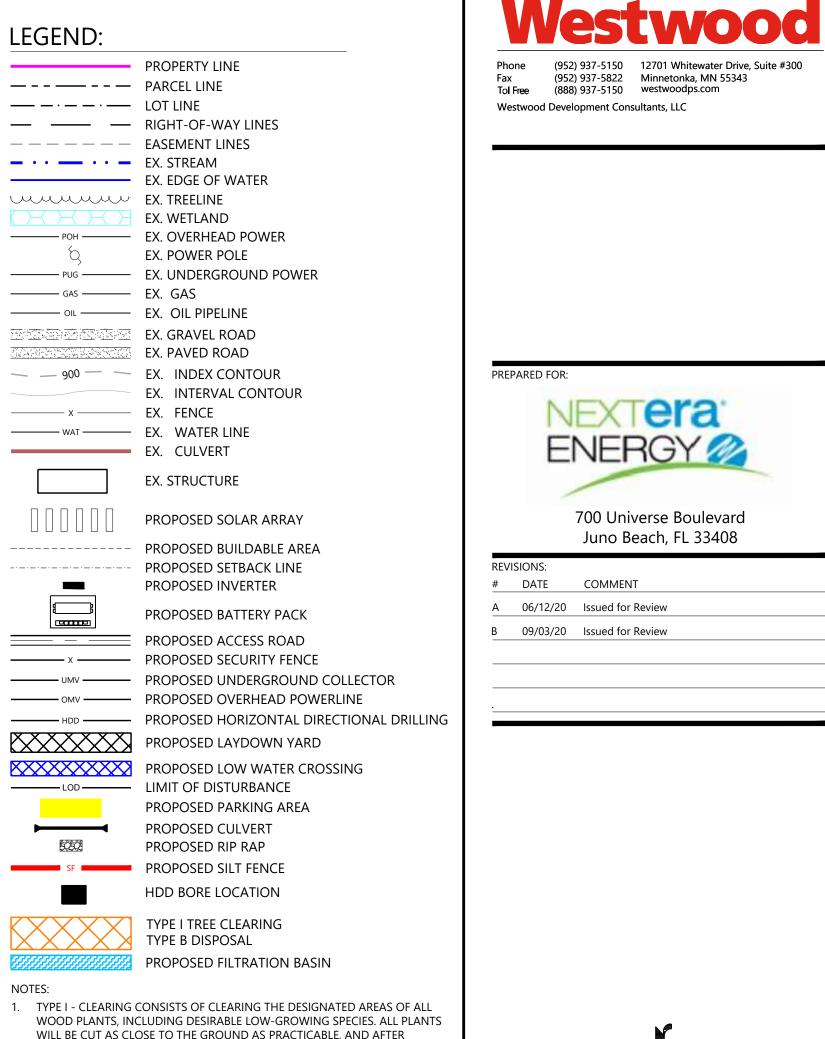


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SEE SHEET C.444

KEY MAP





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Excelsior Energy Center

Town of Byron, New York

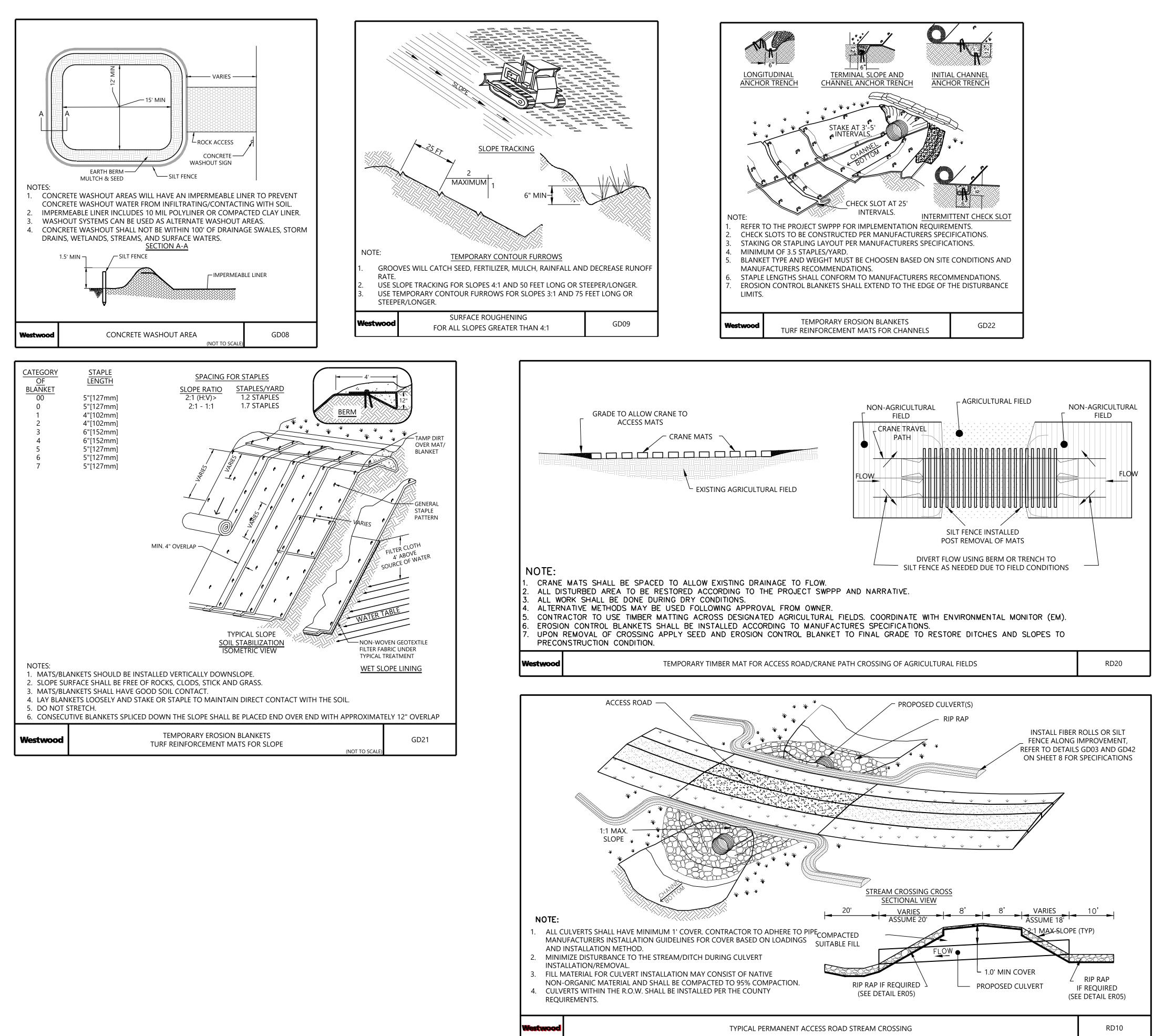
Tree Clearing Plan -49

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Town of Byron, New York

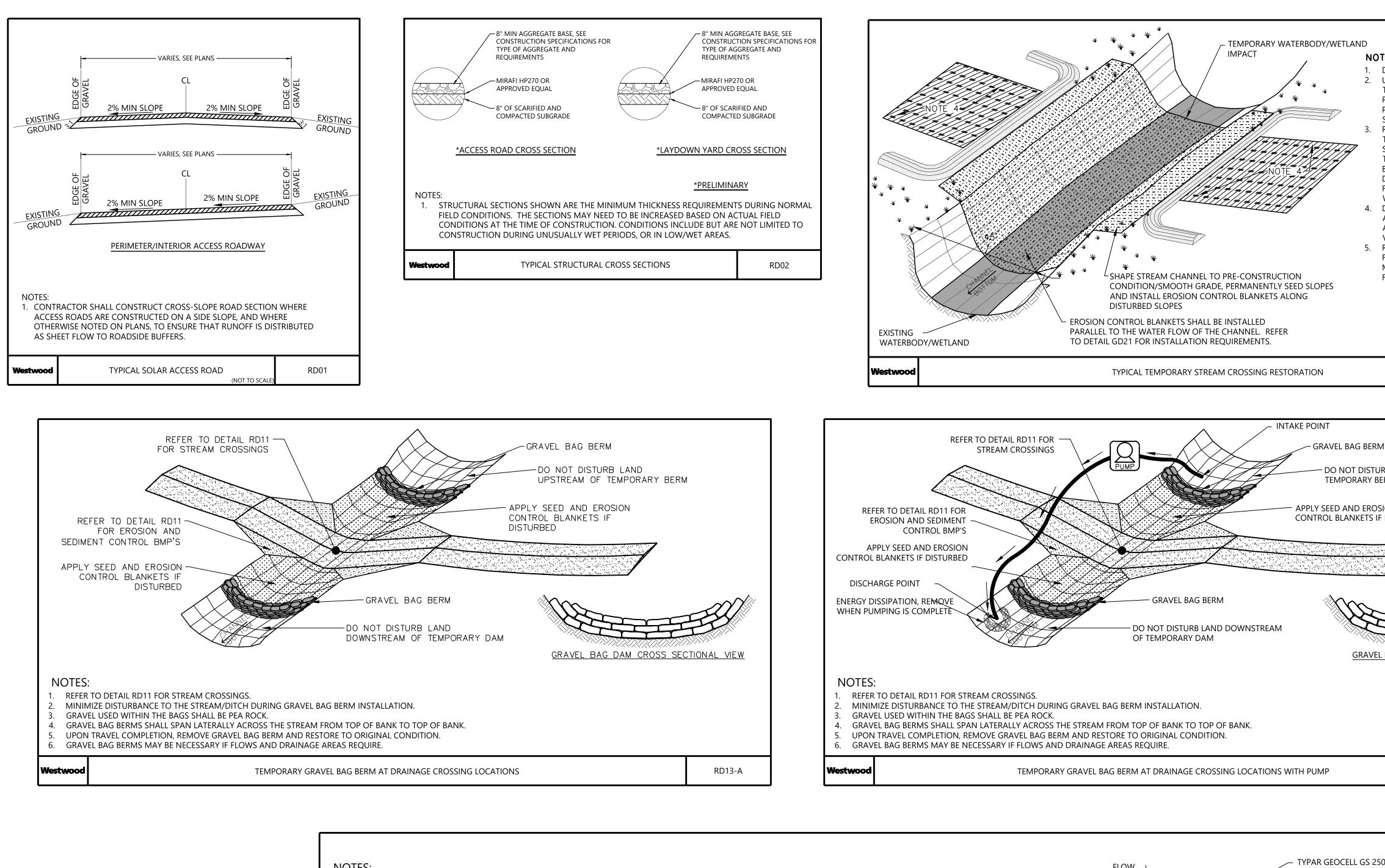
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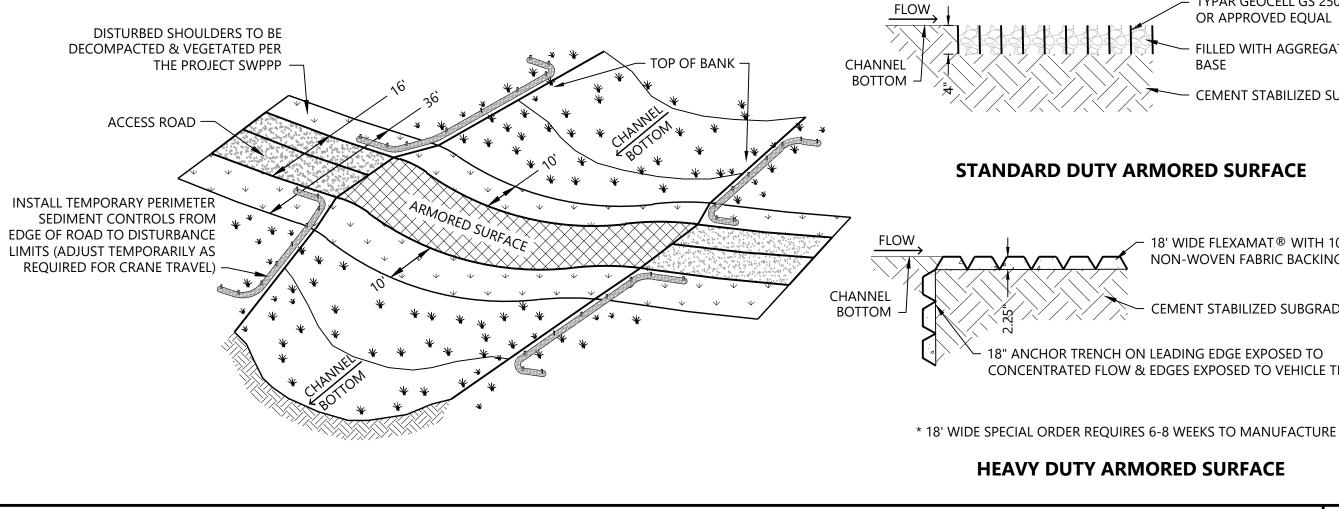
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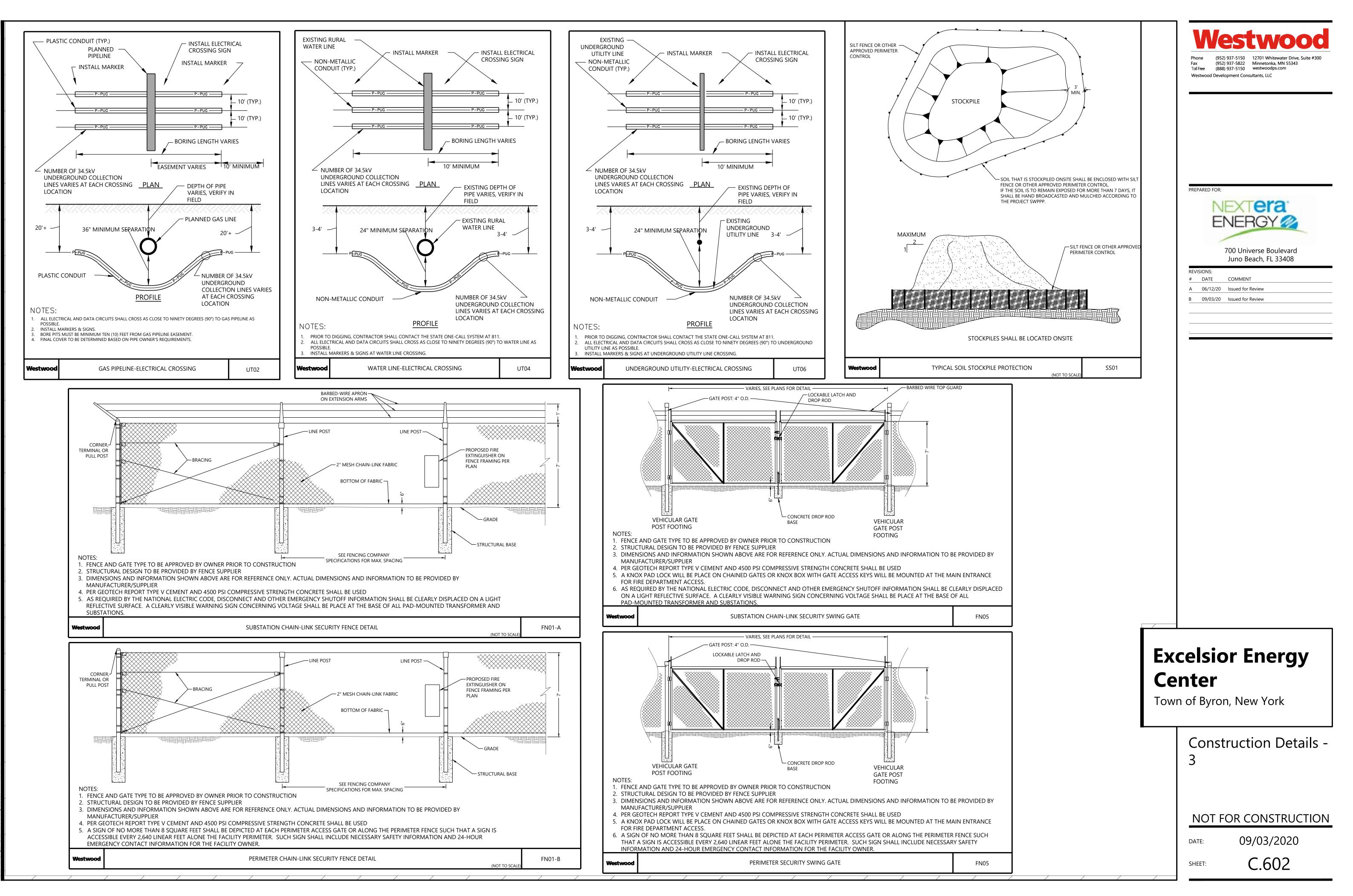
- 1. CHANNEL SIDE SLOPES MAY REQUIRE MODIFICATION TO CONSTRUCT THE ACCESS ROAD THROUGH THE CHANNEL TO MEET DELIVERY REQUIREMENTS.
- 2. THE ACCESS ROAD SHALL CROSS THE CHANNEL AS
- CLOSE TO 90-DEGREES AS POSSIBLE. 3. ENSURE APPROPRIATE SUBGRADE ELEVATION SO THAT
- THE FINISHED ACCESS ROAD SURFACE ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONDING UPSTREAM OF ROAD OR ON THE ROAD SURFACE.
- 4. ARMORED SURFACE TREATMENT OF THE ROAD SURFACE SHALL EXTEND THROUGH THE CHANNEL BOTTOM AND UP THE CHANNEL SIDE SLOPES TO THE OBSERVED TOP OF BANK OF THE CHANNEL, UNLESS OTHERWISE NOTED.
- 5. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBERLOGS (BIOROLLS), WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS.
- 6. REFER TO DRAINAGE CROSSING SCHEDULE FOR ADDITIONAL INFORMATION.
- 7. GRADE TO MATCH PROPOSED ACCESS ROAD.

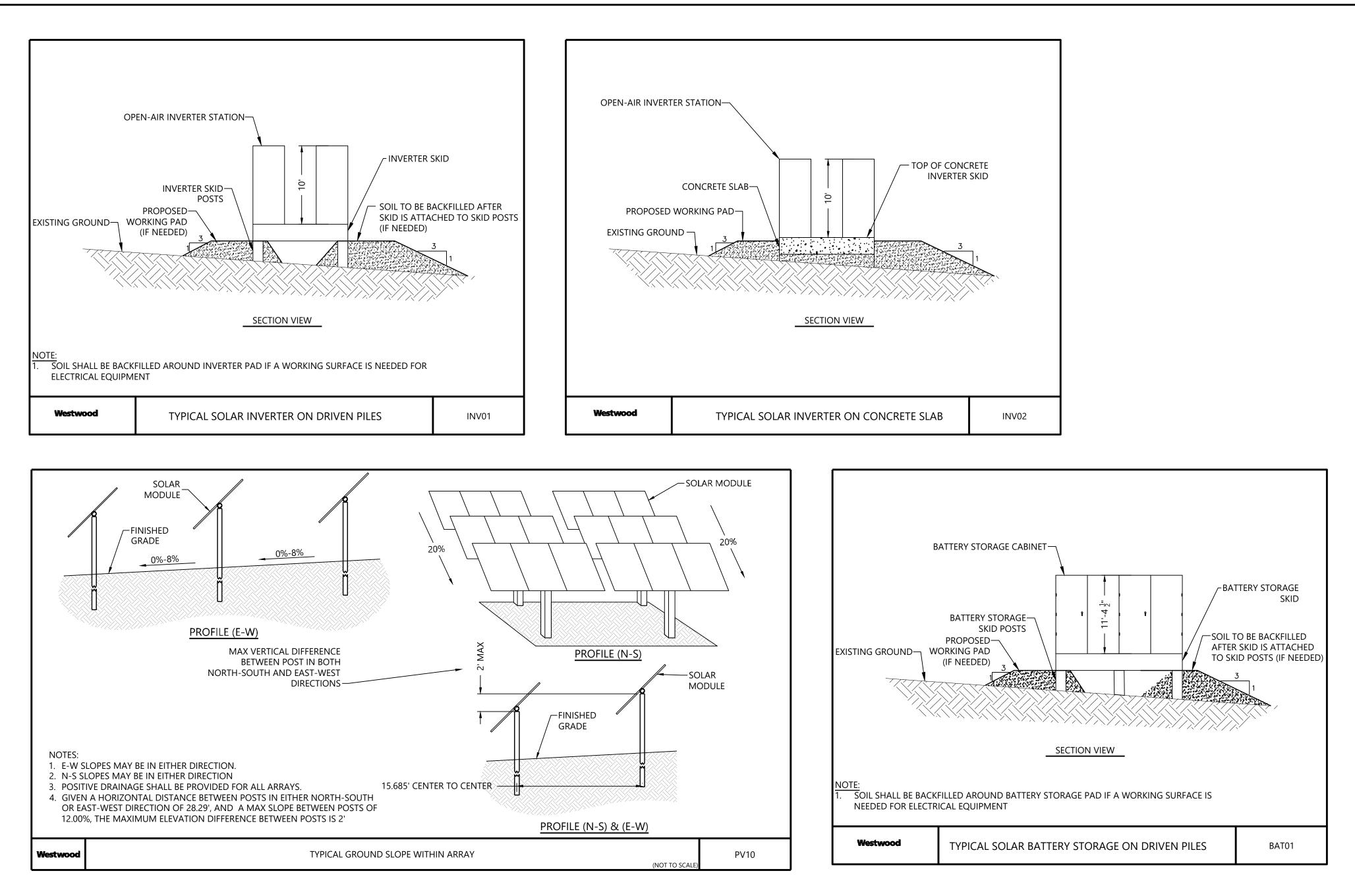
Westwood

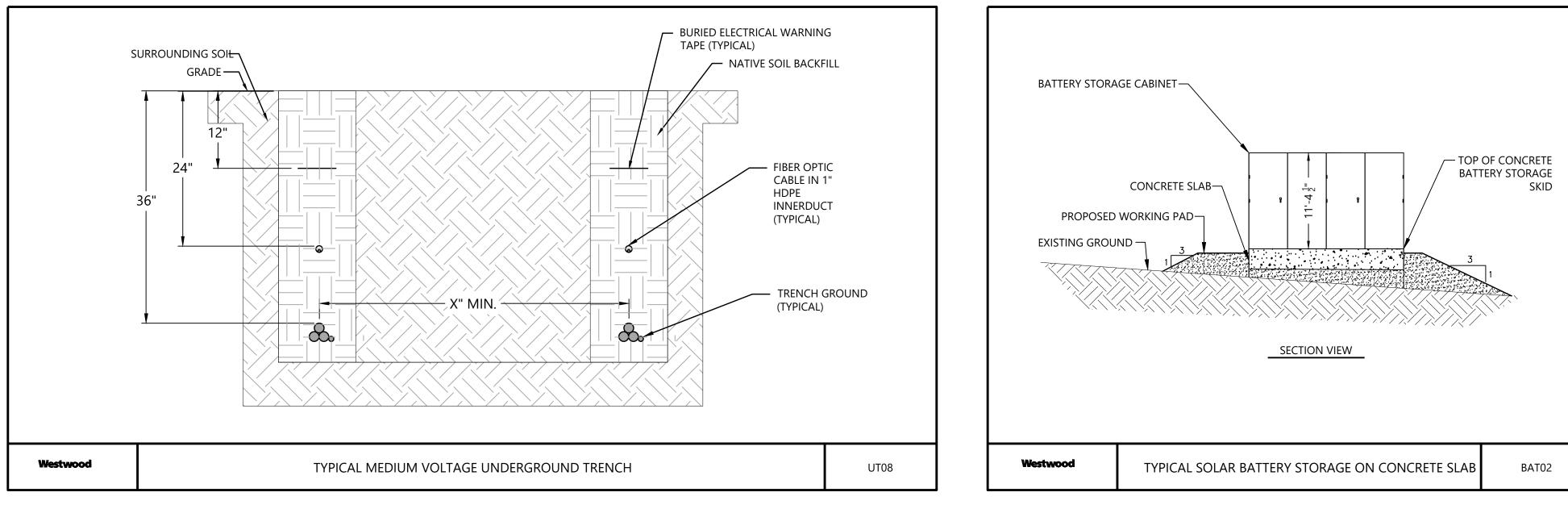


ACCESS ROAD LOW WATER CROSSING

| | Westwood |
|--|--|
| DTES: DRAWING IS NOT TO SCALE. UPON REMOVAL OF TEMPORARY STREAM CROSSING, THE DISTURBED AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS. REFER TO THE PROJECT SWPPP FOR RESTORATION AND SEEDING SPECIFICATIONS. REMOVE RIP RAP, FILL MATERIAL AND SHAPE CHANNEL TO PRE-CONSTRUCTION CONDITION. PERMANENTLY SEED ALL DISTURBED SLOPES IN CONFORMANCE WITH THE PROJECT SWPPP. INSTALL EROSION CONTROL BLANKETS, ADEQUATE FOR FLOW CONDITIONS, ON ALL DISTURBED SLOPES GREATER THAN 4:1, WHERE ANY FLOWS ARE CONCENTRATED AND WITHIN THE DITCHES WETTED PERIMETER. DECOMPACT, REAPPLY TOPSOIL AND TILL DISTURBED AREA TO RESTORE TO PRE-CONSTRUCTION AGRICULTURAL CONDITION AND RESTORE ANY VEGETATED BUFFER THAT EXISTED PRE-CONSTRUCTION. REMOVE WOOD MULCH BERM OR SILT FENCE ONCE FINAL STABILIZATION HAS OCCURRED WITH A MINIMUM OF 70% VEGETATION UPSTREAM OF SILT FENCE. | Phome (952) 937-512 12701 Whitewater Drive, Suite #300. Far (952) 937-552 Westwoodps.com Offree Composition of the state of the st |
| RD09-2 | # DATE COMMENT A 06/12/20 Issued for Review B 09/03/20 Issued for Review |
| M URB LAND UPSTREAM OF BERM SION IF DISTURBED LAND AND AND AND AND AND AND AND AND AND | |
| 50 L SATE SUBGRADE | Excelsior Energy Center Town of Byron, New York |
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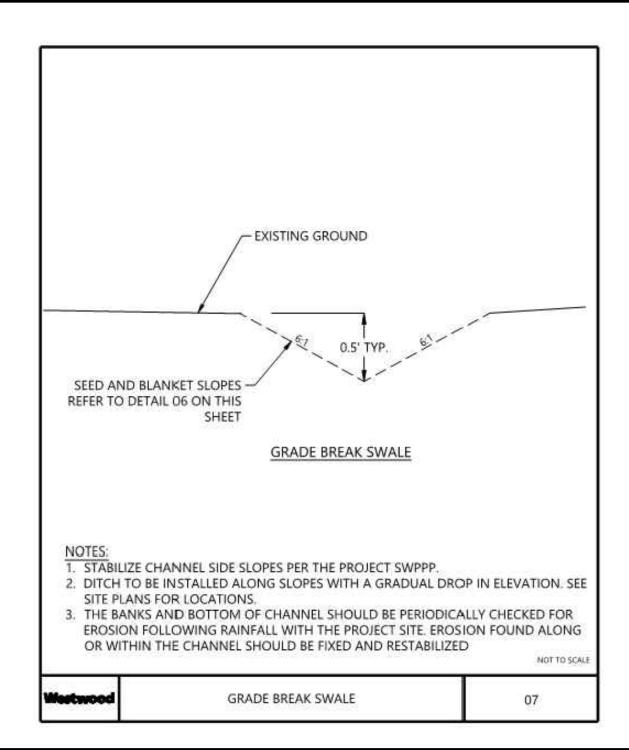
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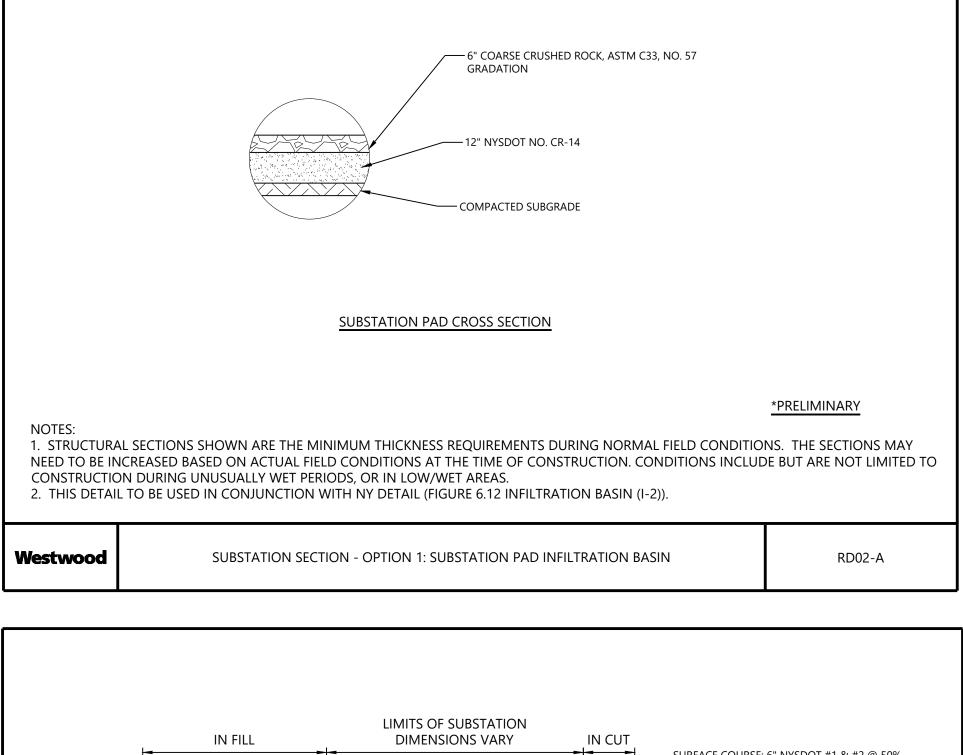
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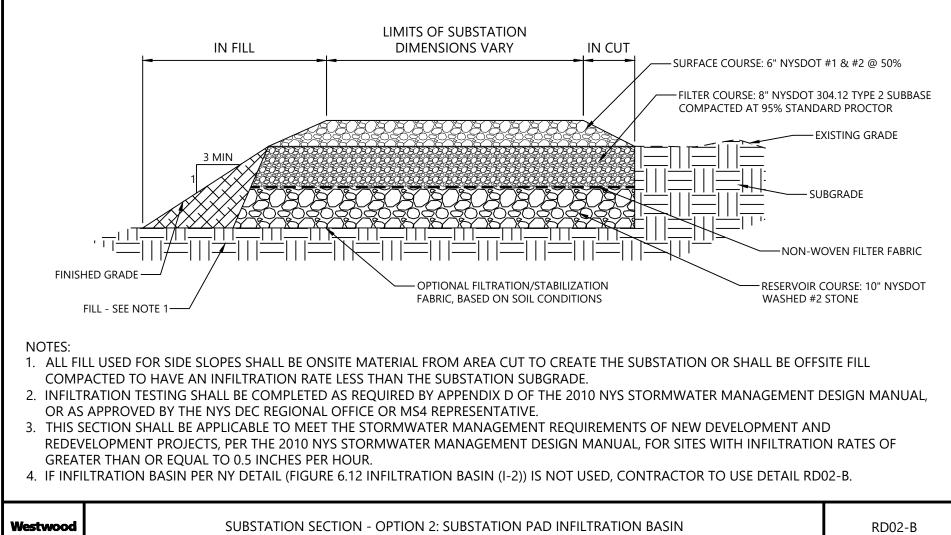
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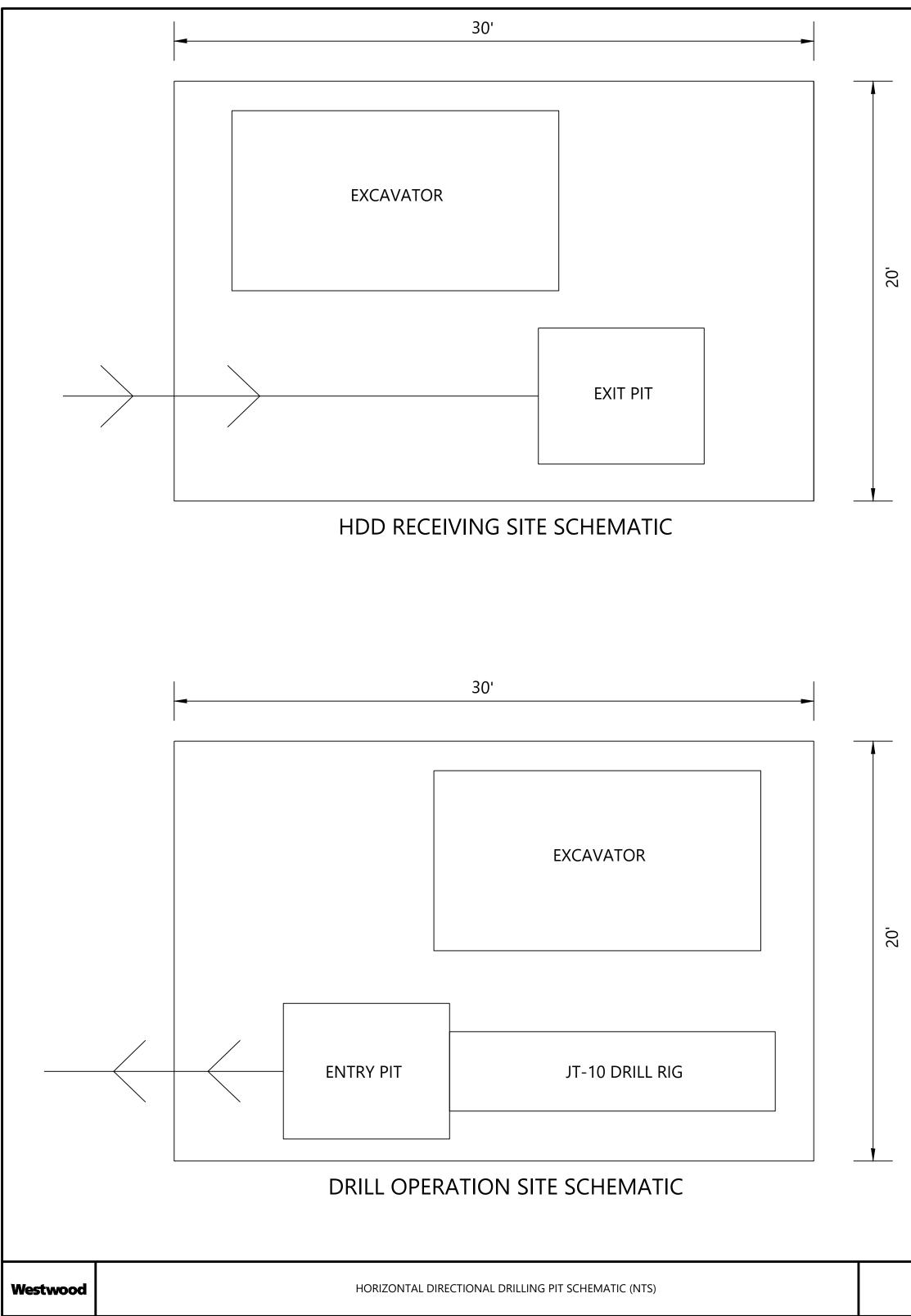
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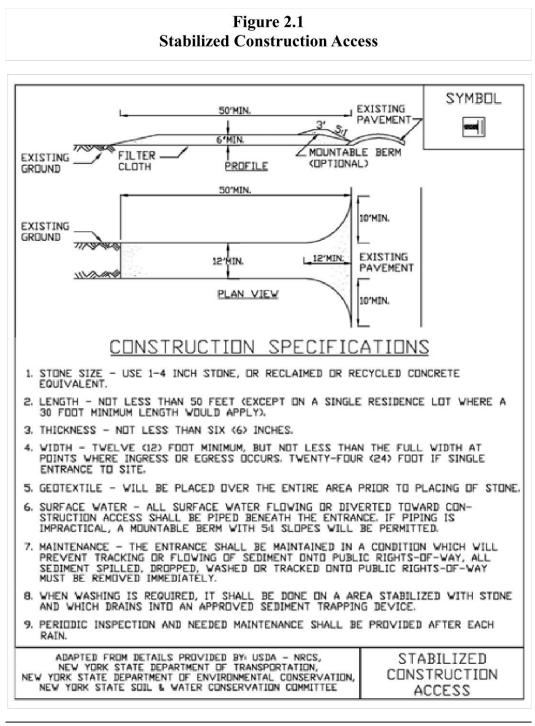
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New York State Standards and Specifications For Erosion and Sediment Control

November 2016

November 2016

For Erosion and Sediment Control

SYMBOL SPACING VARIES DEPENDING ON CHANNEL SLOPE SAME ELEVATION CUTOFF TRENCH-18" WIDE 6" DEEP TOE ----- SLOPPT CENTER PROFILE NOT TO SCALE -GROUND LI $X = \frac{H \ \text{(Ft)}}{\text{SLOPE} \ \text{(FT/FT)}}$ FILTER FABRI - DITCH BOTTOM CUTOFF TRENCH <u>— B</u> " DESIGN BOTTOM 24' MAX 2 CENTER SECTION A-A NOT TO SCALE FILTER FABRIG SECTION B-B NOT TO SCALE CONSTRUCTION SPECIFICATIONS STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN. 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM. EXTEND THE STORE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM. 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE. 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES. ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SDIL & WATER CONSERVATION COMMITTEE STONE CHECK DAM

Figure 3.1 **Stone Check Dam Detail**

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New York State Standards and Specifications Page 3.3 For Erosion and Sediment Control

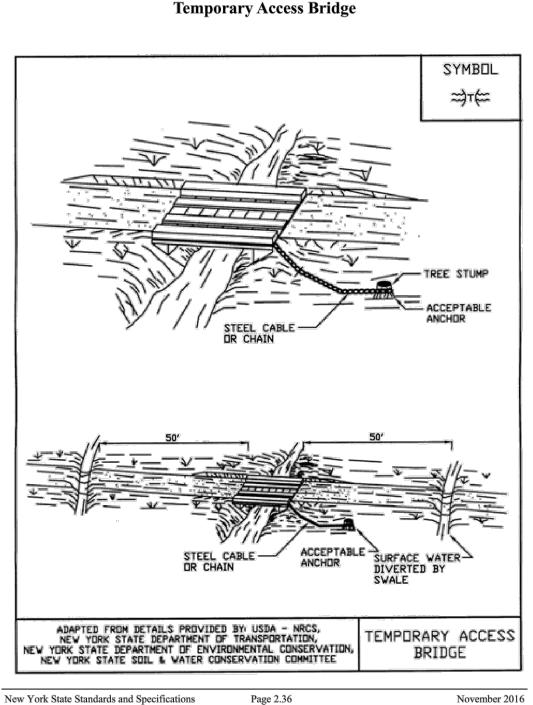
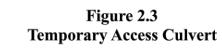
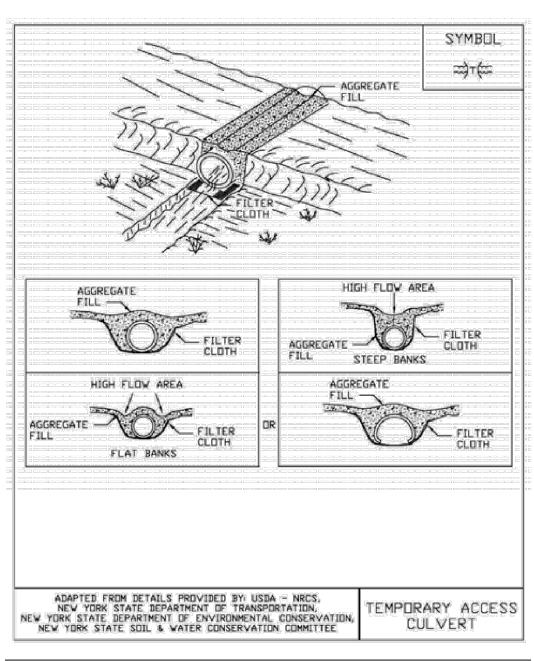


Figure 2.2

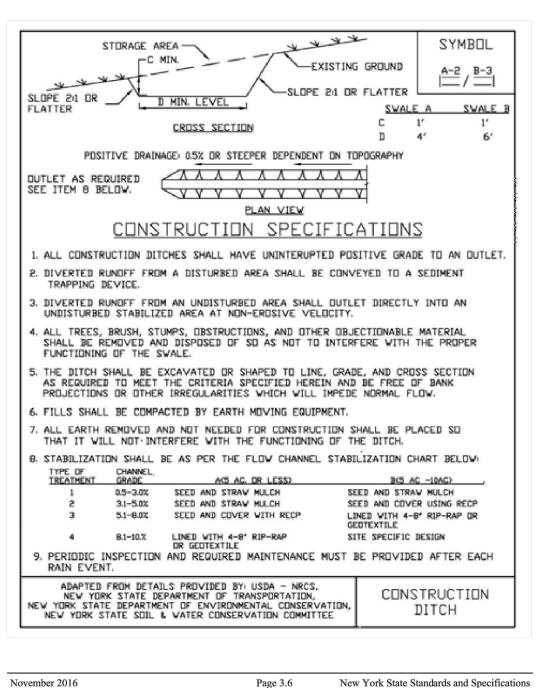




New York State Standards and Specifications For Erosion and Sediment Control

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Figure 3.2 **Construction Ditch Detail**



Page 3.6 New York State Standards and Specifications For Erosion and Sediment Control

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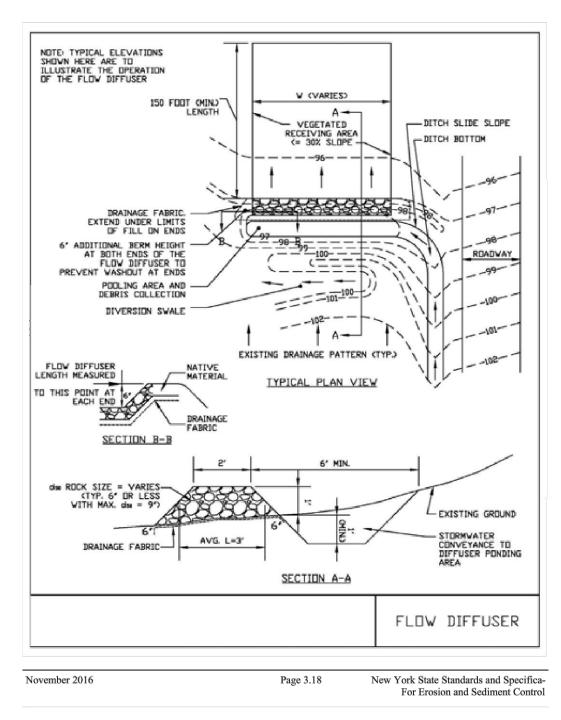
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Figure 3.6 Flow Diffuser Detail

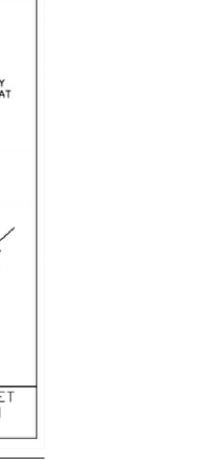


A----SYMBOL DISCHARGE TO SEMI-CONFINED SECTION d/2 (MAXIMUM TAILWATER CONDITION) A----PLANVIEW RISER -MIN. DEPTH = DISCHARGE OR TAILWATER DEPTH, WHICHEVER DEPTH DICTATED BY IS GREATER CHANNEL SECTION AT DISCH. d/2/PIPE -6'MIN. 3' MIN. 69 PROFILE VIEW 1.0" w = d + 0.4 La w = d + 0.4 La SECTION B-B (AT END OF APRON) (AT END OF CULVERT) NDTE: SEE RIPRAP STANDARDS AND SPECIFICATIONS MAXIMUM TAILWATER CONDITIONS ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, RIPRAP DUTLET PROTECTION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE EXAMPLE November 2016 Page 3.46 New York State Standards and Specifica-For Erosion and Sediment Control

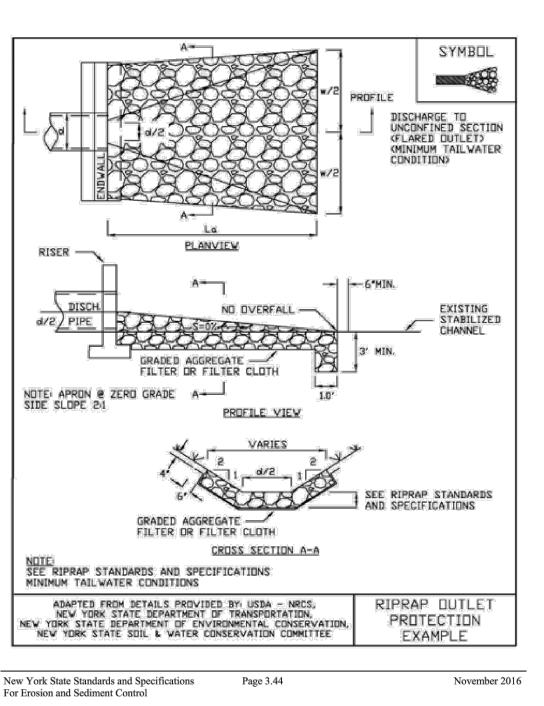
Figure 3.20

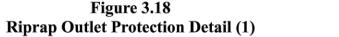
Riprap Outlet Protection Detail (3)

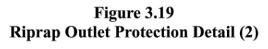
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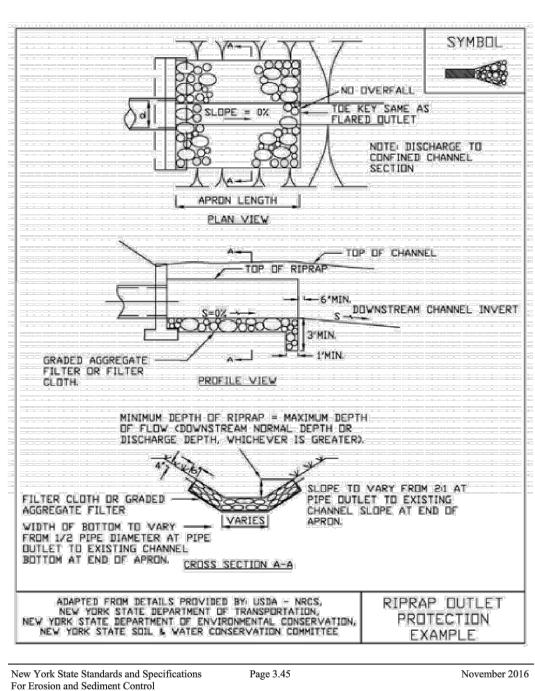


Figure 4.8 Fiber Roll

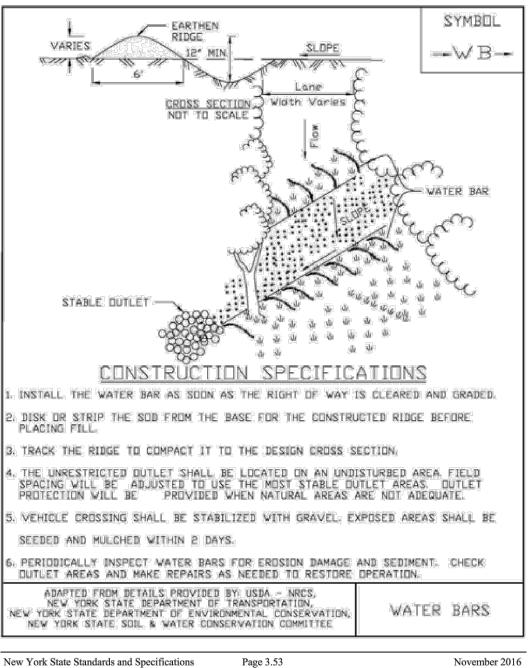
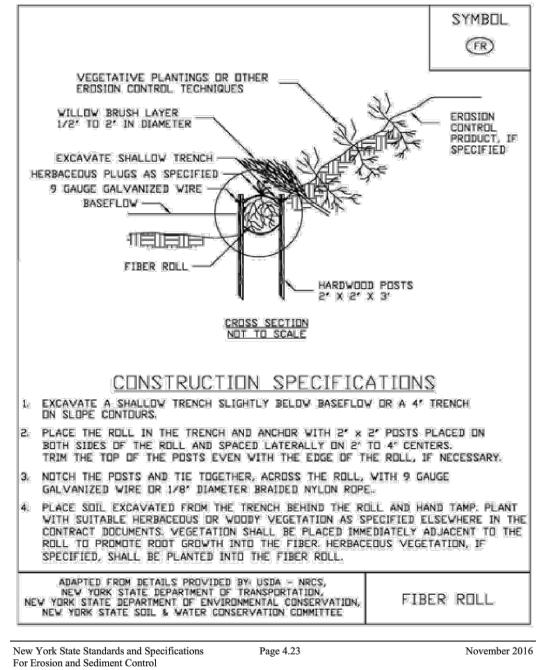


Figure 3.22

Water Bar Detail





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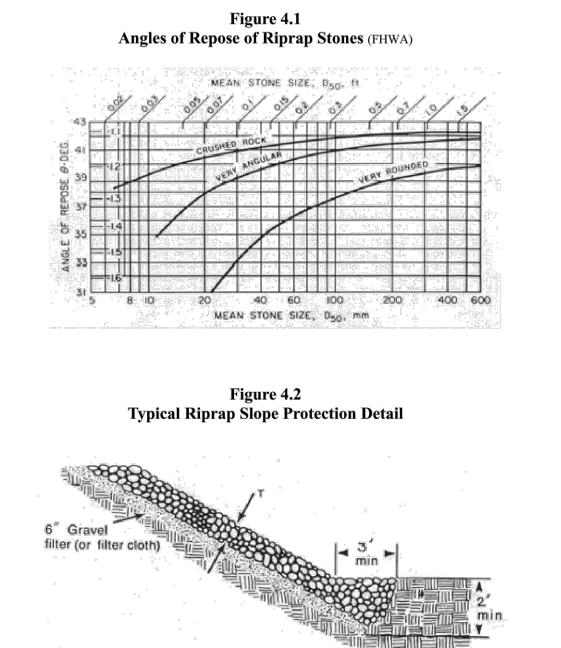
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NORMAL SLOPE LINE 1.54 DR STEEPER ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE SLOPE SLOPE

Figure 4.9 **Typical Section of Serrated Cut Slope**

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New York State Standards and Specifications Page 4.26 For Erosion and Sediment Control

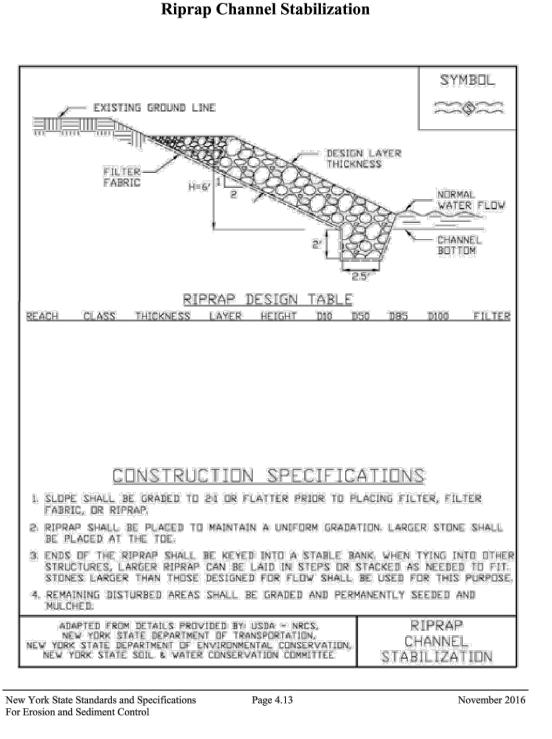


Figure 4.3

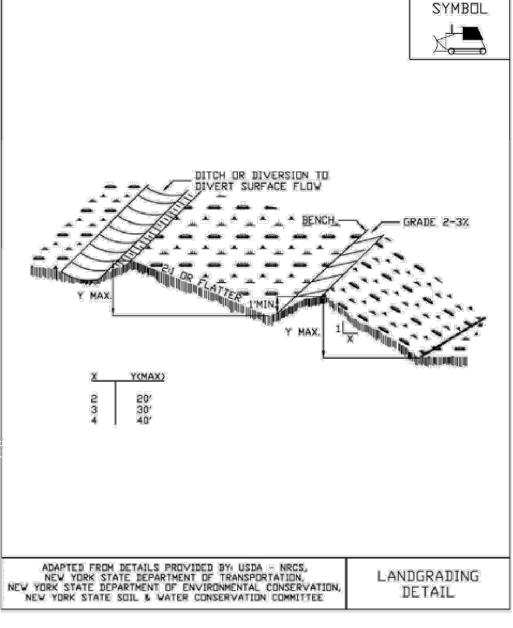
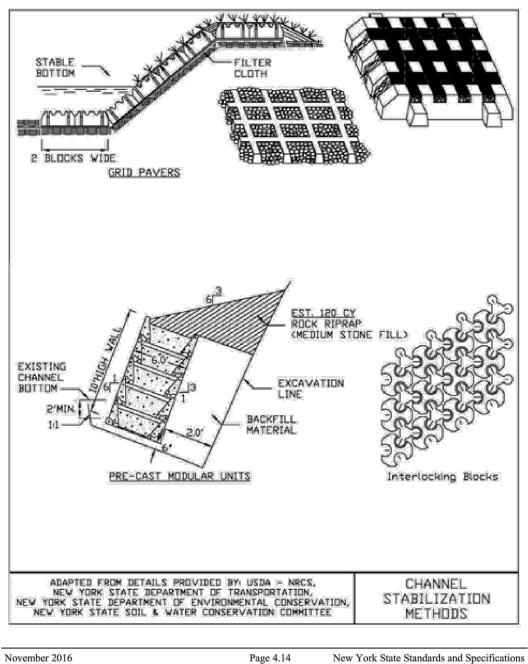


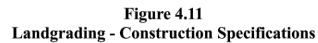
Figure 4.10

Landgrading

New York State Standards and Specifications Page 4.27 For Erosion and Sediment Control

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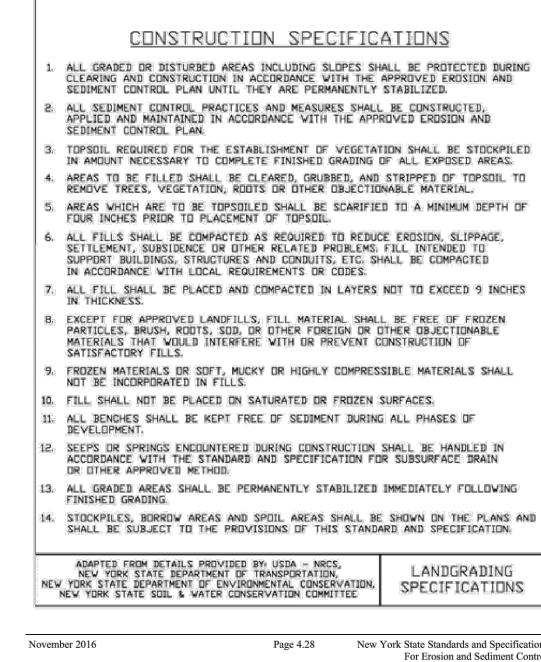


Figure 4.4 **Channel Stabilization Methods**

For Erosion and Sediment Control

LANDGRADING SPECIFICATIONS

New York State Standards and Specifications For Erosion and Sediment Control



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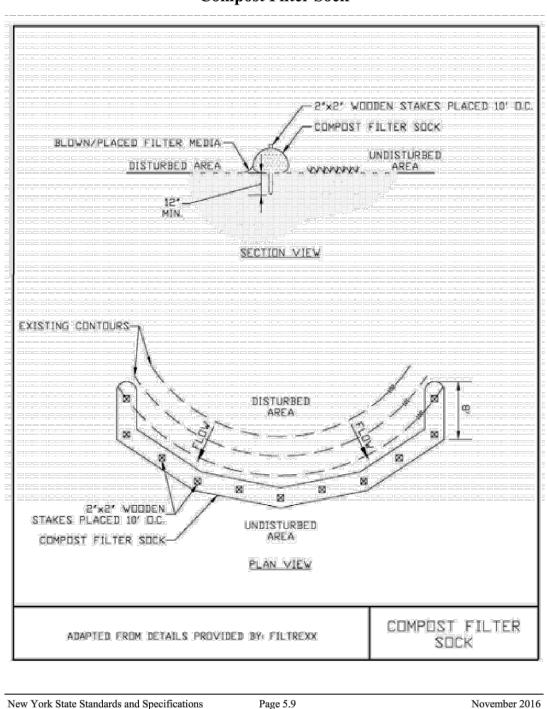
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For Erosion and Sediment Control

Figure 5.2 Compost Filter Sock

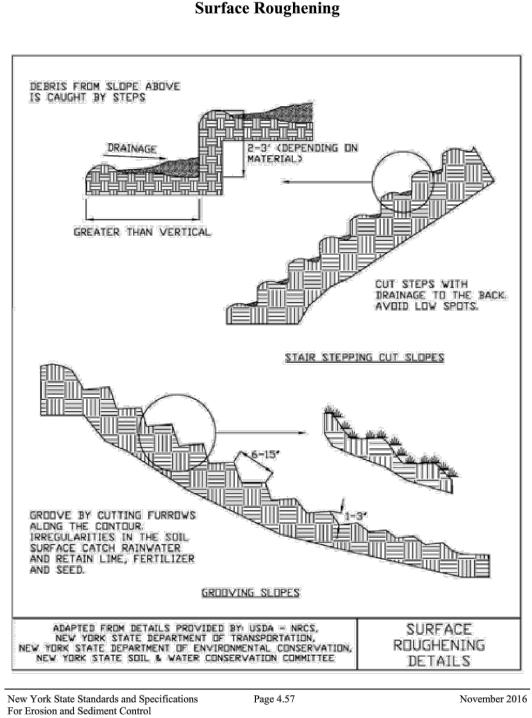
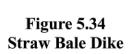


Figure 4.18

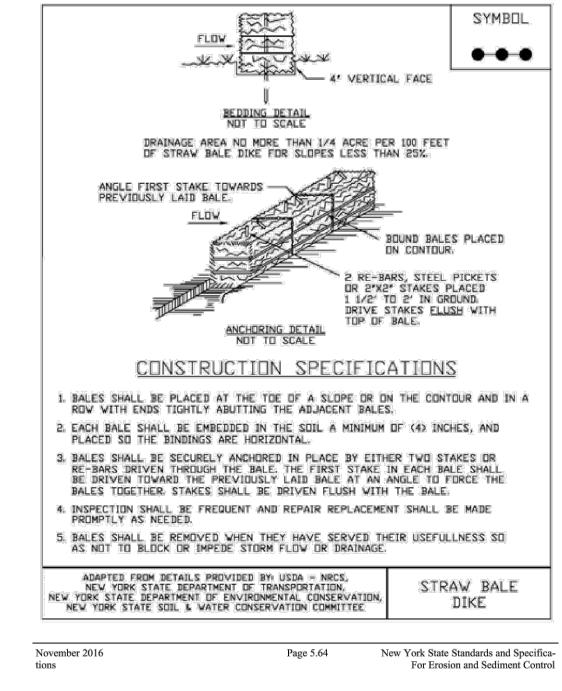
FLOW (6.0'MA ⊆NYS DO1 #1 STONE -FILTER FABRIC KEY TRENCH ROCK SIZE - 050 - 9' - ABUTMENT SECTION A-A NOT TO SCALE <u>a</u>____; CONSTRUCTION SPECIFICATIONS THE AREA UNDER THE ROCK DAM SHALL BE CLEARED AND STRIPPED OF ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE RESERVOIR SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT REMOVAL CENTERLINE, FILTER FABRIC SH KEYTRENCH TO DOWNSTREAM ED IF 1 FT, WITH UPSTREAM STRIP UTMENT TO ABUTMENT ON THE DAM PLACED FROM UPSTREAM EDGE OF JOINTS WILL LAP A MINIMUM I 3. CONSTRUCT THE ROCK EMBANKMENT TO THE DIMENSIONS SHOWN ON THE DRAWING, ROCK ABUTMENTS SHALL BE MAINTAINED 2 FT, ABOVE THE CREST. 4. THE ROCK DAM SHALL BE CONSTRUCTED PRIOR TO CLEARING THE BASIN AREA. STABILIZE ALL DISTURBED AREAS, EXCEPT THE BASIN AREA, WITH TEMPORARY SEEDING.

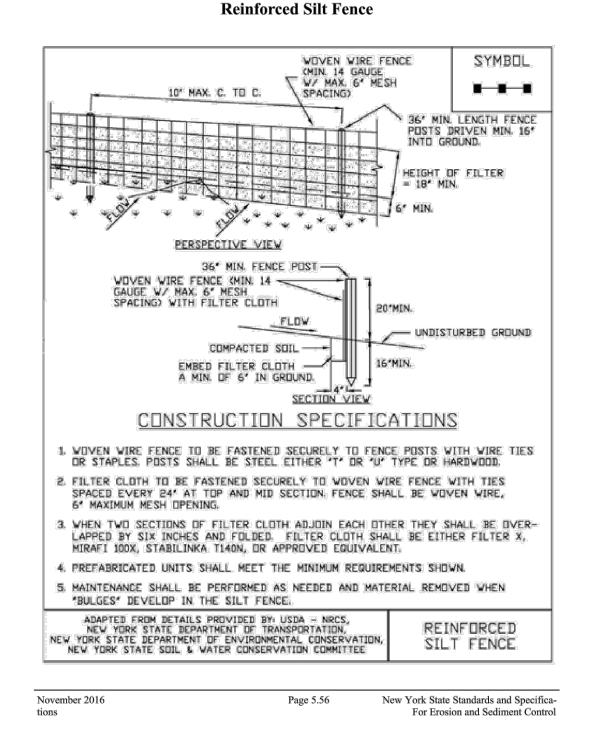
5. FENCES AND WARNING SIGNS SHOULD BE PLACED AS APPROPRIATE. MAXIMUM DRAINAGE AREA: 50 ACRES ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SDIL & WATER CONSERVATION COMMITTEE

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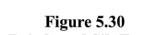
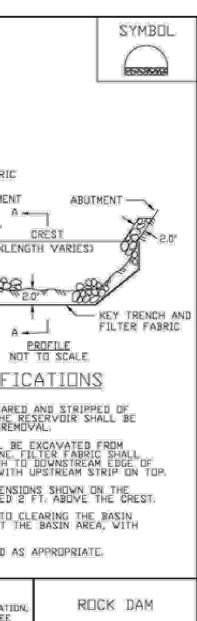


Figure 5.7 **Rock Dam**



New York State Standards and Specifica-For Erosion and Sediment Control



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ROAD DESIGN PARAMETERS

- 1. THE ROAD HAS BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
- ROAD MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY. 3. ROAD SECTION AND SPECIFICATION SHOWN ON THE PLANS WERE PREPARED BY WESTWOOD PROFESSIONAL SERVICES BASED ON GEOTECHNICAL RECOMMENDATIONS FROM TERRACON.

PRODUCTS

- 1. ACCESS ROAD AGGREGATE SHALL CONSIST OF CRUSHED AGGREGATE BASE MEETING NEW YORK STATE DEPARTMENT
- OF TRANSPORTATION STANDARD SPECIFICATION (DATE: MAY 1, 2008) PROVIDED IN TABLE 1, OR AN APPROVED EQUAL. 2. CULVERTS: SEE PLAN FOR DRAINAGE CULVERT LOCATIONS. ACCESS ROAD CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE NEW YORK ARTICLE 10 REQUIREMENTS AND/OR SCHUYLER COUNTY. ALL CULVERTS SHALL BE HELICAL CORRUGATED 12 GAUGE OR APPROVED EQUAL AND MANUFACTURED OF CORRUGATED METAL PIPE. 3. GEOTEXTILE FABRIC SHALL BE MIRAFI HP270 OR APPROVED EQUAL.
- 4. EXCAVATED SOILS THROUGHOUT PROJECT SHALL BE UTILIZED AS FILL. SOILS SHALL BE CLEAN OF DEBRIS AND ORGANIC MATERIAL.

EXECUTION

- 1. SITE PREPARATION
- A. THE CONTRACTOR SHALL BE REQUIRED TO CLEAR AND GRUB AREAS DESIGNATED ON THE PLANS. FOR TREE REMOVAL REFER TO THE TREE CLEARING GENERAL NOTES AND PLANS. TREES AND BRUSH LOCATED OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE SHALL NOT BE DISTURBED. THE CONTRACTOR MUST LIMIT GRUBBING AND GRADING AS MUCH AS PRACTICABLE TO MAINTAIN THE EXISTING VEGETATION AND NATURAL GRADE IN ACCORDANCE WITH THE STATE PERMIT.
- B. AREAS THAT ARE NOT TO BE CLEARED AND GRUBBED SHALL HAVE ANY EXISTING VEGETATION MOWED TO A
- MINIMUM HEIGHT OF 3 INCHES. C. THE CONTRACTOR SHALL PRESERVE OTHER EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE. ANY VEGETATION THAT IS REMOVED SHALL ONLY BE ALLOWED WITHIN THE PROJECT BOUNDARY. THE CONTRACTOR IS TO REMOVE ONLY THAT VEGETATION WHICH SHALL BE DESIGNATED BY THE OWNERS REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING VEGETATION TO BE SAVED. CONSTRUCTION FENCING MAY BE INSTALLED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED.
- D. NO BURNING OF DEBRIS IS PERMITTED.
- 2. FILL MATERIALS AND PLACEMENT A. ALL FILL MATERIALS SHALL BE INORGANIC SOILS FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN THREE (3) INCHES IN SIZE. PEA GRAVEL OR OTHER SIMILAR NON-CEMENTITIOUS, POORLY-GRADED MATERIALS SHALL NOT BE USED AS FILL OR BACKFILL WITHOUT THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
- B. CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS FILL MATERIAL FOR GENERAL SITE GRADING. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8"
- C. ANY IMPORTED SOILS MUST HAVE EXPANSION VALUES IN THE "VERY LOW" RANGE AND MEET THE GRADATION PROVIDED IN TABLE 4.

ACCESS ROAD CONSTRUCTION AND SITE GRADING

- 1. TOPSOIL MANAGEMENT A. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS A MINIMUM OF 10". TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THESE DESIGNATED AREAS.
- B. STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS SHALL BE STOCKPILED ON THE SITE. STOCKPILES WITHIN THE SITE SHALL HAVE TEMPORARY EROSION AND SEDIMENT CONTROL APPLIED IN ACCORDANCE WITH THE PROJECT SWPPP OR USED TO REVEGETATE LANDSCAPED AREAS OR EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS. IF IT IS NECESSARY TO DISPOSE OF ORGANIC MATERIALS ON-SITE THEY SHALL BE PLACED IN NON-STRUCTURAL AREAS.
- 2. INTERNAL ROAD EMBANKMENT
- A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE AS INDICATED ON CIVIL PLANS. GENERALLY, THE INTERNAL ROAD EMBANKMENT SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FEET HORIZONTAL TO ONE FOOT VERTICAL
- B. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE GENERATED ON SITE BY THE CONTRACTOR FROM THE IDENTIFIED BORROW AREA. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8".
- C. ALL SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GRADING SHOWN ON THE PLANS.
- D. EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION. SEE TABLE 2 FOR TESTING REQUIREMENTS AND TABLE 3 FOR COMPACTION REQUIREMENTS. 3. SITE GRADING
- A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING AND TOPSOIL REMOVAL IN AREAS SHOWN WATHE PLANS, THE SUBSURFACE SOILS SHALL HAVE THE GRADES AND ELEVATIONS MODIFIED AS SHOWN ON THE PLANS. THE PROPOSED CONTOURS AND ELEVATIONS SHOWN ON THE PLANS ARE TO FINISHED WAY
- B. SMALL SURFACE IRREGULARITIES WILL NEED TO BE BLADED SMOOTH FOR MACK INSTALLATION, SITE GRADING SHOWN ON PLAN SHEETS IS FOR LARGE TOPOGRAPHIC FEATURES AND MANNOT FULLY ENCOMPASS ALL UNDULATIONS OF THE GROUND SURFACE. THE CONTRACTOR MUST LIMIT GRUBBING AND GRADING AS NUCLI AS PRACTICABLE TO MAINTAIN THE EXISTING VEGETATION AND NATURAL GRADE IN ACCORDANCE WITH THE STATE PERMIT
- C. SUBSURFACE SOILS SHALL BE MOISTURE CONDITIONED AND COMPACTED TO WHE SPECIFICATIONS OF TABLE 3 D. ANY CUT MATERIAL THAT CANNOT BE USED FOR STRUCTURAL BACKFILL THROUGHOUT THE PROJECT SHALL SE USED IN FILL AREAS IDENTIFIED ON THE PLANS. THE FILL AREA SHALL HAVE TOPSOM, REMOVED AND MANAGED AS IDENTIFIED ABOVE IN "TOPSOIL MANAGEMENT".
- E. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED WIP ORTED MATERIAL MAY LEWISED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING.
- 3. SUBGRADE PREPARATION
- A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING, TORSOL REMOVAL AND EMBANKMENT CONSTRUCTION. THE EXPOSED SUBGRADE SOILS SHALL BE SCARIFIED TO ANY MUMOM DEPTH OF TWELVE (12) INCHES, MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3. THE COMPACTED EXPOSED SUBGRADES SHALL BE PROOF ROLLED AND OBSERVED BY A GEOTECHNICAL ENGINEER TO DETERMINE IF SOFT SOILS EXIST. IF SOFT SOILS EXIST THEY SHALL BE SCARIFIED AND ALLOWED TO DRY, RECOMPACTED AND TESTED AGAIN, IF THEY CONTINUE TO REMAIN SOFT, FOLLOWING SCARIFICATION, DRYING AND RECOMPACTION EFFORTS ADDITIONAL AGGREGATE MAY BE ADDED FOR STABILITY.
- B. ROAD SUBGRADE AND COMPACTION SHALL EXTEND HORIZONTALLY AT LEAST TWO FEET BEYOND THE OUTSIDE EDGE OF THE DRIVABLE SURFACE.
- C. THE MOISTURE CONTENT AND COMPACTION OF ROAD SUBGRADE SOILS SHALL BE MAINTAINED UNTIL PAVEMENT CONSTRUCTION. D. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL
- FOR GENERAL SITE GRADING AND ROADWAY AREAS. 4. AGGREGATE PLACEMENT
- A. ACCESS ROADS SUBSEQUENT TO THE SUBGRADE PREPARATION THE ROAD AGGREGATE BASE SHALL BE PLACED AND COMPACTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 3
- 5. TOPSOIL REDISTRIBUTION AND STABILIZATION
- A. FOLLOWING THE PLACEMENT OF THE AGGREGATE BASE AND APPROVAL OF THE TESTING, TOPSOIL SHALL BE DISTRIBUTED OVER THE EXPOSED DISTURBED AREAS, EXCLUDING THE AGGREGATE DRIVING SURFACE.
- B. FOLLOWING SITE GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS.
- C. THE TOPSOIL SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE PROJECT SWPPP.

TEMPORARY LAYDOWN/STORAGE YARD

1. PREPARATION

- A. THE LAYDOWN/STORAGE YARD SHALL CONSIST OF COMPACTED NATIVE MATERIAL OVERLAID WITH A GEOTEXTILE FABRIC AND AGGREGATE MATERIAL
- B. THE COMPACTED NATIVE MATERIAL SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3 (NON-STRUCTURAL AREA). C. GEOTEXTILE FABRIC SHALL BE PLACED ON TOP OF COMPACTED NATIVE MATERIAL AND THEN AGGREGATE PLACED
- AND COMPACTED.
- D. FOLLOWING CONSTRUCTION AND REMOVAL OF PROJECT INVENTORY THE COMPACTED NATIVE MATERIAL SHALL BE DECOMPACTED AND PERMANENTLY STABLIZED IN ACCORDANCE WITH THE PROJECT SWPPP SPECIFICATIONS.

EXECUTION (CONTINUED)

ELECTRICAL TRENCHES

- 3. INITIAL BACKFILL LIFT SHALL BE 18" LOOSE THICKNESS, ADDITIONAL BACKFILL LIFTS SHALL NOT EXCEED 8 INCHES OF LOOSE MATERIAL. IF TESTING OF THE INITIAL LIFT DOES NOT PROVIDE THE REQUIRED DENSITY THE INITIAL BACKFILL LIFT WILL BE REDUCED TO A 8" LOOSE THICKNESS.

***TABLE 1: NYSDOT T** COARSE AGG SIEVE SIZE 2"

1/4" #40 #200

LOCATION STRUCTURAL FILL

COMPACTED SUBGRADE

AGGREGATE BASE

MISCELLANEOUS FILL

TRENCH BACKFILL

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TAB

MATERIAL TYPE AGGREGATE BASE

STRUCTURAL FILL SUBGRADE (BENEAT NATIVE MATERIAL) SUBGRADE (BENEATH MPORTED NCM-EXRA NENCH BACKFILL (N RENCH BACKFILL (ST NON-STRUCTURAL FIL

1. TRENCH'S SHALL BE EXCAVATED TO THE DEPTH IDENTIFIED IN THE ELECTRICAL DRAWINGS/DETAILS. 2. TRENCH BACKFILL SHALL CONSIST OF APPROVED, ONSITE OR IMPORT SOILS. SOILS SHALL BE FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN 3 INCHES.

BACKFILL SHALL BE COMPACTED TO THE SPECIFICATIONS INDENTIFIED IN TABLE 3. 5. TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED.

| YPE 2 SUBBASE GREGATE |
|--------------------------|
| PERCENT PASSING |
| 100 |
| 25-60 |
| 5-40 |
| 0-10 |

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

| *TABLE 2: TESTING SCHEDULE SUM | MARY |
|---|--------------------------|
| TEST | FREQUENCY |
| GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR | 1 PER MAJOR SOIL TYPE |
| MOISTURE DENSITY TEST (NUCLEAR DENSITY) | 1 EVERY 1,320 LF OF ROAD |
| PROOF ROLL | ENTIRE LENGTH |
| MOISTURE DENSITY TEST (NUCLEAR DENSITY) | 1 EVERY 1,320 LF OF ROAD |
| PROOF ROLL | ENTIRE LENGTH |
| SIEVE ANALYSIS | 1 PER 2000 CY |
| | |

1 PER 2 FOOT VERTICAL LIFTS AND/OR 500

SEE REQUIREMENTS ON THIS HEET

CY. OF MATERIAL

MOISTURE DENSITY TEST (NUCLEAR DENSITY)

MOISTURE DENSITY TEST (NUCLEAR DENSITY)

| BLE 3: COMPACTION A | AND MONSTURE | CONTENT | REQUINEMENTS | |
|---------------------|--------------|---------|----------------|--------------|
| | | | RANGE OF MOIST | URE CONTENTS |
| | | PACTION | FOR COMPACT | ION (% OVER |
| E AND LOCATION | REOWREMEN | VT (%) | OPTIM | IUM) |

| | REQUINAMENT (%) | UPIN | vi0ivi) |
|-----------------------------------|-----------------|---------|---------|
| | | MIMIMUM | MAXIMUM |
| | | -3% | +3% |
| | 95 | -3% | +3% |
| TEQUIPMENT PASS, | 95 | -3% | +3% |
| HEOLIPMENT PADS, ANSIVE SOILS) | 95 | -3% | +3% |
| ON-STRUCTURAL AREAS) | 90 | -3% | +3% |
| TRUCTURAL AREAS) | 95 | -3% | +3% |
| LL | 90 | -3% | +3% |

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

| *TABLE 4: IMPORTED STRUCTURAL FILL | | |
|------------------------------------|-----------------|--|
| SIEVE SIZE | PERCENT PASSING | |
| 3" | 100 | |
| #200 | 10-100 | |
| | | |

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH **IMPORTED STRUCTURAL FILL SHOULD CONTAIN NO PARTICLES LARGER THAN 3 INCHES AND LESS THAN 10 PERCENT, BY WEIGHT, OF MATERIAL FINER THAN A NO. 200 MESH SIEVE. ***THE IMPORTED MATERIALS SHALL BE FREE OF RECYCLED CONCRETE, ASPHALT, BRICKS, GLASS AND PYRITIC SHALE ROCK. ****ADDITIONAL LABORATORY TESTING WILL BE REQUIRED TO DETERMINE IF THE ON-SITE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL ON SITE, HOWEVER IT IS NOT EXPECTED TO MEET THE CRITERIA FOR STRUCTURAL FILL.

TESTING REQUIREMENTS:

DEFINITIONS

- 1. THE CONTRACTOR SHALL SUBMIT MATERIAL TESTING REPORTS AS SHOWN ON THE DRAWINGS AS WELL AS GEOTEXTILE MATERIAL TO BE USED DURING CONSTRUCTION.
- TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
- SUBMIT TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD FOR REVIEW. A. THE ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
- PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
- SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C136 PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D698
- ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D4318
- MOISTURE DENSITY (NUCLEAR DENSITY) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D6938

REQUIREMENTS 1. COMPACTION:

- A. REFER TO TABLE 3 FOR COMPACTION REQUIREMENTS AND ACCEPTABLE MOISTURE CONTENTS. 2. IMPORT FILL MATERIAL:
- A. IMPORT SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, PROCTOR TESTS, R-VALUES, SAND EQUIVALENTS, DURABILITY INDEX, LIQUID LIMIT, PLASTICITY INDEX, AND MAXIMUM EXPANSION INDEX. 3. COMPACTED SUBGRADE:
- A. PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 1,320 L.F. OF ROAD LENGTH B. THE ENTIRE INTERNAL/ACCESS ROAD SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE. IF UNSTABLE SUBGRADE IS ENCOUNTERED SCARIFY, MOISTURE CONDITION, AND RECOMPACT SOILS TO ACHIEVE COMPACTION. 4. AGGREGATE BASE:
- A. PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 1,320 L.F. OF ROAD LENGTH. B. AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SMALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL FOR ALL ROAD CLASSIFICATIONS.
- PROVIDE 1 SIEVE ANALYSIS PER 2000 OF RCAD AGGREGATE BASE PLACED. MISCELLANEOUS MILL A. PROVIDE MOISTURE DENSITY COMPACTION JETS ONCE PER 2 FOOT VERTICAL LIFTS AND/OR 500 C.Y. OF
- COMPACTED FILL MANERIAL. 6. TRENCH BACKFILL:
- A. PROVIDE MOISTURE DENSITY COMPACTION TESTS EVERY 50LF OF TRENCH FOR THE FIRST 200LF TRENCHING ACTIVITIES TO CONFIRM METHODOLOGY. AFTER APPROVAL TESTING CAN BE INCREASED TO EVERY 500LF. ALTERMATE TEST DEPTHS OF 18" AND AT GRADE

TRAFFIC CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS RRICADES, VIA NAME SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY/COUNTY AND ENGINEER PRIOR IO EXACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL OF UNIFORM **WRAFFIC CONTROL DEVICES (MUTCD).**

GENERAL NOTES:

- CONSTRUCTION PLANS ARE BASED OFF THE NAD 83 NEW YORK STATE PLANES, EAST ZONE, US FOOT COORDINATE
- SYSTEM
- PROPOSED SOLAR LAYOUT FOR THIS PROJECT PROVIDED BY NEXTERA ENERGY. THE ALTA SURVEY AND EXISTING PLANIMETRIC DATA WAS PROVIDED BY NEXTERA ENERGY
- 4. ALL DIMENSIONS ARE TO PROJECT BOUNDARY, EDGE OF GRAVEL, FENCE LINES AND SOLAR PANELS UNLESS
- OTHERWISE NOTED. THE GROUND SURFACE CONTOURS (AT ONE-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON A LIDAR
- DATA FROM NEXTera ENERGY. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS
- WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (811 ONE CALL) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
- 8. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.

EROSION AND SEDIMENT CONTROL / STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

- 1. PROJECT SWPPP PREPARED BY TRC. PLEASE REFER TO SWPPP PLAN FOR PROJECT SPECIFICS 2. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL AND RESTORATION LOCATIONS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWPPP/HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWPPP'S AVAILABILITY. 4. ALL FIBER ROLLS AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN
- ESTABLISHED AS DIRECTED BY THE SWPPP QUALIFIED INSPECTOR. ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWPPP

HORIZONTAL DIRECTIONAL DRILLING NOTES

1. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT AN INADVERTENT RETURN CONTINGENCY PLAN (THE PLAN) ADDRESSING THE POTENTIAL FOR RETURNS OF DRILLING FLUIDS TO THE SURFACE (I.E., FRAC-OUTS) DURING PERFORMANCE OF HORIZONTAL DIRECTIONAL DRILLING. THE PLAN SHALL DETAIL PROCEDURES FOR MONITORING DRILLING OPERATIONS AND THE MEASURES THAT WILL BE DEPLOYED IN THE EVENT OF AN INADVERTENT RETURN. THE PLAN SHALL BE PREPARED TO MEET THE CONDITIONS OF THE PROJECT PERMITS AND BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO COMMENCEMENT OF DRILLING WORK.

UNDERGROUND COLLECTOR LINE NOTES:

- 48-HOURS PRIOR TO THE PLANNED START OF EXCAVATION, THE CONTRCTOR SHALL MARK-OUT THE PLANNED WORK
- AREA AND NOTIFY DIG-SAFE (811) AND ANY NON-PARTICIPATING UTILITIES OF THE PLANNED WORK LOCATION. AS-BUILT RECORDS OF THE UNDERGROUND COLLECTOR SYSTEM SHALL INCLUDE GEO-REFERENCED LOCATIONS AND ELEVATIONS OF THE TOP OF THE DUCTBANK AND CABLE SYSTEM. LOCATION AND ELEVATION SHALL BE RECORDED TO SUB-FOOT ACCURACY. AS A MINIMUM, INSTALLED LOCATION/ELEVATIONS SHALL BE RECORDED AT THE START, MIDDLE, AND END OF EACH CHANGE IN HORIZONTAL AND VERTICAL ALIGNMENT. ADDITIONAL LOCATIONS SHALL BE RECORDED SUCH THAT SPACING BETWEEN RECORDED LOCATIONS DOES NOT EXCEED 200-FEET.
- EXCEPT AS REQUIRED TO TRANSITION TO DEPTH, CABLE TRENCH SHALL FOLLOW GROUND CONTOUR AT APPROXIMATELY 4'-6" BELOW GRADE.
- TRANSITION STATION AND ELEVATION ARE FOR CONTRACTOR INFORMATION ONLY. STATION, GRADE, AND RADIUS MAY BE ADJUSTED IN THE FIELD WITH OWNERS APPROVAL.

(952) 937-5822 Minnetonka, MN 55343 Tol Free (888) 937-5150 westwoodps.com Westwood Development Consultants, LLC

PRFPARED FOR



| 700 Universe Boulevard |
|------------------------|
| Juno Beach, FL 33408 |
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| # | DATE | COMMENT |
| A | 06/12/20 | Issued for Review |
| В | 09/03/20 | Issued for Review |
| | | |

Excelsior Energy Center

Town of Byron, New York

Construction Notes

NOT FOR CONSTRUCTION

DATE:

09/03/2020

SHEET

GENERAL ENVIRONMENTAL NOTES

- THE CONTRACTOR SHALL CONSTRUCT THE FACILITY CONSISTENT WITH THE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (DAM) GUIDELINES FOR AGRICULTURAL MITIGATION FOR SOLAR POWER PROJECTS, TO THE MAXIMUM EXTENT PRACTICABLE
- 2. IMPACTS TO ARCHEOLOGICAL AND HISTORIC RESOURCES SHALL BE AVOIDED OR MINIMIZED TO THE EXTENT PRACTICABLE. CONSTRUCTION, INCLUDING SITE CLEARING OR OTHER DISTURBANCE, SHALL NOT BE ALLOWED IN ANY AREAS THAT HAVE NOT BEEN REVIEWED AND APPROVED FOR THE PRESENCE OF CULTURAL RESOURCES.
- 3. CONTRACTOR MUST COMPLY WITH THE PROJECT UNANTICIPATED DISCOVERY PLAN, WHICH ESTABLISHES PROCEDURES IN THE EVENT THAT RESOURCES OF CULTURAL, HISTORICAL, OR ARCHAEOLOGICAL IMPORTANCE ARE ENCOUNTERED DURING FACILITY CONSTRUCTION.
- 4. EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS ARE DESIGNATED "NO EQUIPMENT ACCESS" ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, AND MUST BE MARKED IN THE FIELD. THE USE OF MOTORIZED EQUIPMENT IS PROHIBITED IN THESE AREAS.
- 5. A BUFFER ZONE OF 100 FEET IS REFERRED TO AS "RESTRICTED ACTIVITIES AREA" ON THE CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE: NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATER BODY; NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA; HERBICIDE RESTRICTIONS WITHIN 100 FEET OF A STREAM OR WETLAND (OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS): NO DEGRADATION OF STREAM BANKS: NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA: AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER. THE STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL REQUIRES A MINIMUM BUFFER OF 300 FEET
- 6. TREE AND VEGETATION CLEARING SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR FACILITY CONSTRUCTION. SURROUNDING TREES AND VEGETATION WILL NOT BE CUT DOWN ON ANY PROPERTY SOLELY TO REDUCE TURBULENCE OR INCREASE WIND FLOW TO THE FACILITY. TO REDUCE MORTALITY TO NESTING/ROOSTING BIRDS AND BATS, ALL TREE CLEARING ACTIVITIES (EXCEPT FOR HAZARD TREE REMOVAL) SHALL BE CONDUCTED BETWEEN NOVEMBER 1 AND APRIL 1; NOTE: THIS RESTRICTION DOES NOT APPLY TO TREES LESS THAN OR EQUAL TO 3 INCHES IN DIAMETER AT BREAST HEIGHT (DBH). REFER TO CERTIFICATE CONDITION 103. 7. ALL EQUIPMENT ACCESS, STORAGE OF EQUIPMENT AND MATERIALS, AND OTHER CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE LIMITS
- OF DISTURBANCE AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS. 8. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL BY IMPLEMENTING
- APPROPRIATE CONTROL MEASURES. THESE MEASURES INCLUDE THE APPLICATION OF MULCH, OR WATER ON EXPOSED SOILS OR UNPAVED PUBLIC ROADS, AND STONE ON ACCESS ROADS OR EXISTING GRAVEL AREAS WHEN DRY AND WINDY CONDITIONS EXIST. A WATERING VEHICLE WILL BE AVAILABLE ON AN AS-NEEDED BASIS.
- 9. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE, IN ACCORDANCE WITH THE SWPPP. EROSION CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE.
- 10. WOOD CHIP DEPTH SHALL NOT BE GREATER THAN THREE (3) INCHES, WOOD CHIPS SHALL NOT BE STORED OR DISPOSED OF IN WETLANDS. WITHIN STREAM BANKS, DELINEATED FLOODWAYS, OR ACTIVE AGRICULTURAL FIELDS.

THREATENED AND ENDANGERED SPECIES

- EXCLUDING BALD EAGLES (HALIAEETUS LEUCOCEPHALUS) OR GOLDEN EAGLES (AQUILA CHRYSAETOS), IF AT ANY TIME AN ACTIVE NEST OF ANY FEDERALLY, OR STATE, LISTED THREATENED OR ENDANGERED (TE) BIRD SPECIES IS DISCOVERED WITHIN AN ACTIVE CLEARING SITE, THE REGIONAL NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) NATURAL RESOURCE SUPERVISOR (585-226-2466) WILL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS OF DISCOVERY, AND THE NEST SITE WILL BE MARKED. AN AREA FIVE HUNDRED (500) FEET IN RADIUS AROUND THE NEST WILL BE AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION AT THAT SITE IS GRANTED BY THE REGIONAL DEC NATURAL RESOURCE SUPERVISOR.
- 2. IF AT ANY TIME A BALD OR GOLDEN EAGLE NEST OR COMMUNAL ROOST (DEFINED AS A CLOSE CLUSTER OF TREES WITH 4 OR MORE EAGLES OBSERVED PERCHED) IS LOCATED, THE REGIONAL DEC NATURAL RESOURCE SUPERVISOR WILL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS OF DISCOVERY, AND PRIOR TO ANY DISTURBANCE OF THE NEST OR IMMEDIATE AREA. AN AREA OF AT LEAST 0.25 MILES (1.320 FEET) IF THERE IS NOT VISUAL BUFFER OR IF THERE IS A VISUAL BUFFER AN AREA OF AT LEAST SIX HUNDRED SIXTY (660) FEET IN RADIUS FROM THE NEST TREE OR COMMUNAL ROOST WILL BE POSTED AND AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION WITHIN THE BUFFER IS GRANTED BY THE REGIONAL DEC NATURAL RESOURCES SUPERVISOR. THE NEST TREE OR COMMUNAL ROOST WILL NOT BE APPROACHED UNDER ANY CIRCUMSTANCES UNLESS AUTHORIZED BY THE REGIONAL DEC NATURAL RESOURCE SUPERVISOR.
- 3. REPORT ALL OCCURRENCES OF TE AVIAN SPECIES TO THE ENVIRONMENTAL MONITOR. IF A TE AVIAN SPECIES IS OBSERVED DEMONSTRATING BREEDING BEHAVIOR IT SHOULD BE REPORTED TO THE NATURAL RESOURCES SUPERVISOR WITHIN TWENTY-FOUR (24) HOURS
- 4. IF ANY DEAD, INJURED OR DAMAGED STATE-LISTED TE SPECIES, OR THEIR PARTS, EGGS, OR NESTS ARE DISCOVERED WITHIN THE PROJECT AREA THE REGIONAL DEC REGION 8 NATURAL RESOURCE SUPERVISOR AND UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) (607-753-9334) MUST BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS TO ARRANGE FOR RECOVERY AND TRANSFER OF THE SPECIMEN(S).
- 5. ALL SNAG AND CAVITY TREES DEFINED UNDER NYSDEC PROGRAM POLICY ONRDLF-2 RETENTION ON STATE FORESTS WILL BE RETAINED UNLESS THEIR REMOVAL IS NECESSARY FOR PROTECTION OF HUMAN LIFE AND PROPERTY. SNAG OR CAVITY TREES MAY BE REMOVED AFTER BEING CLEARED BY THE ENVIRONMENTAL MONITOR WHO SHALL CONDUCT AN EMERGENCE COUNT FOR BATS. UNOCCUPIED SNAGS AND CAVITY TREES WILL BE REMOVED WITHIN TWENTY-FOUR (24) HOURS OF A NEGATIVE EMERGENCE COUNTY
- 6. LEAVE ALL KNOWN AND DOCUMENTED MATERNITY ROOST TREES OF LISTED BAT SPECIES AND ANY TREES WITHIN A 150-FOOT RADIUS OF DOCUMENTED SUMMER OCCURRENCE.
- 7. IF ANY BAT IS OBSERVED FLYING FROM A TREE OR A TREE THAT HAS BEEN CUT, TREE CLEARING ACTIVITIES WITHIN 150-FEET OF THE TREE SHALL BE SUSPENDED AND THE NYSDEC WILDLIFE STAFF SHALL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS. A STOP WORK ORDER SHALL IMMEDIATELY BE ISSUED AND THE NYSDEC AND DPS STAFF CONSULTED BEFORE RESUMPTION OF WORK.

WETLANDS AND STREAMS, VEGETATION AND INVASIVE SPECIES

- 1. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
- 2. ALL CONSTRUCTION ACTIVITY, INCLUDING CLEARING OF VEGETATION, IS TO TAKE PLACE WITHIN THE PROJECT SITE AS DEPARTMENTED ON PROJECT PLANS. NO CONSTRUCTION ACTIVITY IS TO TAKE PLACE WITHIN AREAS TO BE LEFT IN A NATURAL CONDITION. AND/OR FLAGGING CONSTRUCTION LIMITS SHALL OCCUR PRIOR TO ANY SITE DISTURBANCE.
- 3. ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY CONTAINED MORE THAN US FEET LANOW ARD OF THE REGULATED WETLAND OR WATER BODY AT THE END OF EACH WORK DAY. THIS MULTIC SHARE TO AVOID THE MADVERTENT LEAVAGE OF DELETERIOUS SUBSTANCES INTO THE REGULATED AREA.
- 4. FUEL OR OTHER CHEMICAL STORAGE TANKS SHALL BE CONTAINED AND DOUTED AT ALL THES IN AN AREA MORE THAN 300 FEEL LANDWARD OF ANY REGULATED WETLAND OR WATER BOOK A THE ABOVE COUREMENT ANNOT BE VET, THEN THE STORAGE AREAS MUST BE DESIGNED TO COMPLETELY CONTAINANT IN ALL POTENTIAL LEAKAGE. SUCH A CONTAINMENT SYSTEM MUST BE APPROVED BY DEC STAFF IN WRITING PRIOR TO EQUIPMENT MACHINERY OF WINK STORAGE
- 5. ALL MOBILE EQUIPMENT, EXCLUDING DEWATERING PUMPS // JST BE FUELED // A LOCATION // LEAST TO REAL ROM THE TOP CA STREAM BANK, WETLAND, OR OTHER WATER BODY. DEWATER NG PUMPS OPERATED CLOSER THAN 100 FEET POWATER STREAM BANK, WETLAND, OR WATER BODY, MUST BE ON AN IMPER 2005 SURFACE AND ABSORBENTS CAPABLE OF CONTAIN TO ANY LEAKAGE OF PETROLEUM PRODUCTS.
- 6. SPILLAGE OF FUELS, WASTE OILS, OTHER PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS SIMALL REPORTED TO THE DEC'S SPILL HOTLINE (1-800-457-7362) WITHIN TWO HOURS ACCORDING TO THE DEC SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS TECHNICAL FIELD GUIDANCE.
- 7. ALL EQUIPMENT USED WITHIN THE BED OR BANKS OF STREAMS, OK WETLANDS AND ADJACENT AREAS, MUST BE INSPECTED DAILY FOR LEAKS OF PETROLEUM, OTHER FLUIDS, OR CONTAMINANTIS UNDER A STREAM CHANNEL IF FOUND TO BE FREE OF ANY LEAKAGE. A SPILL KIT MUST BE ON SITE AND ANY COMES MUST BE STOPPED AND CLEANED UP IMMEDIATELY.
- 8. VISIBLY TURBID DISCHARGES FROM LAND CLEARING, SHALL NOT ENTER ANY SURFACE WATER BODY. ALL NECESSARY MEASURES SHALL BE IMPLEMENTED TO PREVENT ANY VISIBLE INCREASE IN TURBIDITY OR SEDIMENTATION DOWNSTREAM OF THE WORK SITE, INCLUDING BUT NOT LIMITED TO THE USE OF:
- 8.1. APPROPRIATELY MAINTAINED UPLAND SETTLING BASINS;
- 8.2. CRUSHED STONE, SAND, STRAW BALES, OR SILT SCREENING (MAXIMUM OPENING SIZE OF U.S. SIEVE NUMBER 20) TO FILTER TURBID WATERS: 8.3. SILT-BAGS" OR SIMILAR PRE-CONSTRUCTED STRUCTURE DESIGNED TO REMOVE SILT AND SEDIMENT PARTICLES BEFORE THEY
- ARE DISCHARGED, OR 8.4. GRASSY UPLAND AREAS AT A SUFFICIENT DISTANCE FROM THE RECEIVING WATER BODY TO PREVENT A VISUALLY DISCERNIBLE
- TURBID DISCHARGE TO THE RECEIVING WATER. 9. AT LOCATIONS WHERE TEMPORARY WETLAND CROSSINGS ARE NECESSARY IMPACTS WILL BE AVOIDED THROUGH THE USE OF
- TIMBER MATS. 10. ALL DISTURBED SOILS WITHIN REGULATED FRESHWATER WETLANDS AND THE ASSOCIATED ADJACENT AREAS MUST BE SEEDED WITH A NATIVE SEED MIX AND MULCHED WITH STRAW ONLY (HAY IS PROHIBITED). MULCH SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS HEAVILY REVEGETATED. ADDITIONAL SEEDING SHALL BE COMPLETED AS NECESSARY TO ACHIEVE AN 85% VEGETATIVE COVER ACROSS ALL DISTURBED AREAS.
- 11. ANY DEBRIS OR EXCESS MATERIAL FROM CONSTRUCTION OF THE PROJECT SHALL BE COMPLETELY REMOVED FROM WETLANDS OR ADJACENT AREAS (UPLAND) AND RELOCATED TO A FACILITY DULY AUTHORIZED TO RECEIVE SUCH MATERIAL.
- 12. CLEARED VEGETATION AND SLASH FROM WETLANDS AND ADJACENT AREAS WILL NOT BE BURNED OR BURIED WITHIN THE WETLAND OR ADJACENT AREA. THE VEGETATION MUST BE DISPOSED OF OUTSIDE OF THE WETLAND AND ADJACENT AREA, BUT SLASH THAT IS CUT MAY BE LEFT IN PLACE (DROP AND LOP OR PILED IN DRY OR SEASONALLY SATURATED PORTIONS OF FRESHWATER WETLANDS AND 100-FOOT ADJACENT AREAS TO CREATE WILDLIFE BRUSH PILES).
- 13. TO CONTROL THE SPREAD OF INVASIVE INSECTS, THE CONTRACTOR WILL:
- 13.1. ASSUME THAT ALL CONSTRUCTION EQUIPMENT (INCLUDING TIMBER MATS) IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES ARE CLEANED PRIOR TO MOVING TO ANOTHER
- 13.2. COORDINATE FOR SALE AND USE OF THE MERCHANTABLE TIMBER PER THE OWNER'S LAND USE AGREEMENTS; AND PROVIDE UNMERCHANTABLE TIMBER AS FIREWOOD TO ADJACENT LANDOWNERS OR THE GENERAL PUBLIC PURSUANT TO THE DEC'S FIREWOOD RESTRICTIONS TO PROTECT FORESTS FROM INVASIVE SPECIES FOUND IN 6 NYCRR PART 192.5. 13.3. MAKE SURE CREWS ARE TRAINED TO IDENTIFY THE ASIAN LONGHORNED BEETLE AND THE EMERALD ASH BORER AND ANY
- OTHER INSECTS THAT THE DEC IDENTIFIES AS A POTENTIAL PROBLEM. IF THESE INSPECTS ARE ROUND, THEY MUST BE REPORTED TO THE DEC REGIONAL FORESTER, AND 13.4. COMPLY WITH SITE-SPECIFIC PLANS FOR MANAGEMENT OF JAPANESE KNOTWEED AND SPECIES AS DESCRIBED IN THE INVASIVE
- SPECIES CONTROL PLAN (ISCP) 14. IF A ONE-TIME CROSSING OF A STREAM OCCURS AS PART OF AN INSTALLATION OF A TEMPORARY BRIDGE AND A TIRE MAT IS USED,
- THE FOLLOWING RESTRICTIONS APPLY:
- 14.1. THE MAT MUST FOLLOW THE CONTOUR OF THE STREAMBED AND ALLOW FOR A LOW FLOW CHANNEL AND NOT CHANGE THE FLOW PATH OF THE STREAM
- 14.2. THE MAT SHALL BE REMOVED IMMEDIATELY AFTER THE CROSSING OF THE STREAM OCCURS.

- ON THE GROUND
- AND OPERATION OF THE FACILITY.
- WETLAND BOUNDARIES

- LINE ROUTES.)
- ENVIRONMENTAL MONITOR (EM)

WOOD/SLASH DISPOSAL METHODS

- THE LIMITS OF DISTURBANCE.

DANGER TREES

- DANGER TO KEY FACILITY COMPONENTS

NYCRR PART 192 AND ALL OTHER INVASIVE STECIES REGULATIONS.

TREE CLEARING:

- PROTECTED
- REMOVE THE TREE STUMPS.

15. IF ANY TREES AND SHRUBS GROWING WITHIN 50 FEET OF STREAMS NEED TO BE CUT FOR TEMPORARY TREE CLEARING MEASURES (I.E. BLADE SWING FOR COMPONENT DELIVERY), THEY SHALL BE CUT OFF WITH AT LEAST TWO FEET OF THE STUMP REMAINING. STUMPS AND ROOT SYSTEMS SHALL NOT BE DAMAGED TO FACILITATE STUMP SPROUTING. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK. ALL TREES AND SHRUBS CUT WITHIN THE 50 FOOT BUFFER AREA SHALL BE LEFT

16. CLEARING OF NATURAL VEGETATION ALONG STREAMS AND WITHIN WETLANDS SHALL BE LIMITED TO THAT MATERIAL WHICH POSES A HAZARD OR HINDRANCE TO THE CONSTRUCTION ACTIVITY. SNAGS WHICH PROVIDE SHELTER IN STREAMS FOR FISH SHALL NOT BE DISTURBED UNLESS THEY CAUSE SERIOUS OBSTRUCTIONS, SCOURING OR EROSION. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK.

17. WITHIN 50 FEET OF WETLANDS AND OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION 18 STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS FROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH

MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND

19. CONSTRUCTION WORK IN STREAMS WILL CONFORM TO APPROPRIATE TIMING RESTRICTIONS TO PROTECT IMPORTANT FISHERIES RESOURCES, DURING SPAWNING AND PRIMARY MIGRATION PERIODS. STREAMS SUBJECT TO SUCH RESTRICTIONS WILL BE DETERMINED IN THE FIELD BY REPRESENTATIVES OF THE DEC AND THE APPLICANT, PRIOR TO CONSTRUCTION, FOR COLD WATER FISHERIES IN THE PROJECT AREA. CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN OCTOBER 1 AND MAY 31 TO AVOID TROUT SPAWNING PERIODS. FOR WARM WATER FISHERIES, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN MARCH 1 AND JULY 15. HOWEVER, ONCE INSTALLED, SUCH CROSSINGS CAN BE USED BY CONSTRUCTION VEHICLES THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. ANY EXCEPTIONS TO THESE PROHIBITED PERIODS REQUIRE PRIOR APPROVAL BY DPS STAFF, IN CONSULTATION WITH DEC.

20. RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 100 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS, WETLANDS, SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS: A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS; B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS:

C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS;

D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS. E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.

CLEARING METHODS

TYPE I - CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ALL WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION

2. TYPE II - CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ANY WOODY PLANTS SPECIES WHICH HAVE THE POTENTIAL TO VIOLATE MINIMUM CLEARANCE DISTANCE. ALL GROWTH WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, BUT IN NO CASE WILL AFTER-CUTTING HEIGHT EXCEED SIX (6) INCHES ABOVE GROUND LINE, UNLESS OTHERWISE DIRECTED BY THE

3. REASONABLE CARE WILL BE TAKEN, INSOFAR AS IS PRACTICAL, TO RETAIN DESIRABLE SPECIES FOUND WITHIN TYPE II CLEARING ZONES. THE ENVIRONMENTAL MONITOR (EM) WILL MAKE A FIELD DETERMINATION AS TO WHETHER SUCH RETENTION WOULD IMPOSE AN UNREASONABLE BURDEN ON CLEARING OR CONSTRUCTION ACTIVITIES.

1. TYPE A - CONSISTS OF REMOVING ALL WOODY DEBRIS FROM THE PROPERTY. 2. TYPE B - CONSISTS OF THE REMOVAL OF ALL LOGS FROM THE PROPERTY. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN

3. TYPE C - LOGS SHALL BE PLACED IN PILES IN DESIGNATED STORAGE AREAS AS SHOWN, OR AT THE EDGE OF THE LIMITS OF DISTURBANCE. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN THE LIMITS OF DISTURBANCE. 4. TYPE D - CONSISTS OF DROPPING LOPPING TREES SO THAT THE SLASH LIES AS CLOSE TO THE GROUND AS PRACTICABLE, WITH BRANCHES AND LIMB WOOD NOT EXCEEDING AN AVERAGE DEPTH OF TWENTY-FOUR (24) INCHES. INCLUDING WETLAND AND

STREAMS AREAS, TYPE D WOOD DISPOSAL WILL ADHERE TO THE FOLLOWING ADDITIONAL CONDITIONS INCLUDED: 4.1. ONLY A SELECTIVE PORTION OF VEGETATION, AS NEEDED TO PREVENT THE BLOCKING OF FLOW AND THE TRAPPING OF DEBR IS TO BE REMOVED FROM THE WATER COURSE AND FLOODWAY, ALL CUTTINGS (REGARDLESS OF LODA) ARE TO BE CUT AND BUCKED TO LIE NEAR GROUND LEVEL. HOWEVER, WHERE TREE ROOT BASIS ARE ATTACHED TO THE STREAM BANK, THEY WILL BE LEFT IN PLACE. THE REMAINDER OF THE TREE WILL BE CONFROM THE SAME PRIOR TO REMOVAL.

. A DANGER TREE IS ANY TREE ROOTED OUTSIDE OF A RIGHT OF WAY (AOW) THAT, DUE VOINTS PROXIMITY AND PHYSICAL CONDITION (I.E., MORALITY, LEAN, DECAY, CAYFIES, CRACKS, WEAK BRANC, WIG, KOOT LIFTING, OR WHER INSTABILITY, POSES A PARTICULAR

2. ALL DANGER TRESS WILL BE REMOVED AT THE OF THE INPUAL CLEARING AND AS PARTICLE THE NORMAL CLEARING ACTIVITIES. THE SLASH TRANSMILLESE DANGER TRANSMILLESE DISPOSED OF IN ACCOMMANCE WITH THE SLASH DISPOSAL NEWHOD DESIGNATED FOR THE WORK AREA ADJOINING THE AREA FROM WHICH THE DANGER TREES HAVE BEEN REMOVED.

PROCEDURE FOR OFF-SITE REMOVAL OF STUMPS, CHIPS AND SLASH

WHERE OFF-SITE REMOVAL OF STUMPS, CA IPS, OR SLOPE US AN ECESSARY, AND ATERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR. IN ALL CASES, ALL MATERIA THAT IS RENOVED FROM THE SITE WILL BE DISPOSED ON IN AN ENVIONMENTALLY-ACCEPTABLE MANNER AND IN COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS INCLUDING 6

THE CONTRACTOR WILL HOW DE THE CERTIFICATE HOLDER WITH A DESCRIPTION AND THE LOCATION OF ALL PROPOSED OFF-SITE DISPOSAL SITES FRIOR TO THE PROJECT. THE ENVIRONMENTAL MONITOR (EM) WILL INSPECT ALL PROPOSED OFF-SITE DISPOSAL SITES TO ENSURE THEY ARE SUITABLE AND WILL NOTIFY DPS STAFI

TREES WITHIN WETLANDS ARE TO BE HAND CUT. WETLANDS ARE NOT TO BE ENCROACHED WITH MACHINERY AND WETLANDS ARE TO BE

2. ONCE PERMIT HAS BEEN OBTAINED THE CONTRACTOR IS TO MINIMIZE THE WETLANDS ENCROACHMENT AS MUCH AS POSSIBLE IN ORDER TO

3. CONTRACTOR IS TO PROPERLY REMOVE AND DISPOSE OF THE TIMBER. COORDINATE WITH THE DEVELOPER.

4. ALL CLEARANCE LIMITS ARE A 10 FOOT OFFSET FROM THE GRADING LIMIT.

5. AFTER INITIAL TREE CLEARING IS COMPLETED, ANY ADDITIONAL TREE CLEARING MUST BE APPROVED BY THE ENVIRONMENTAL MONITOR. 6. LIMITS OF DISTURBANCE 40 FEET WIDE AND 100 FEET WIDE FOR OVERHEAD COLLECTION LINES.

PRELIMINARY CONTRACTOR NOTES

- 1. THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR.
- 2. THE BOUNDARIES OF ALL AREAS OF TREES TO BE CLEARED AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR.
- 3. ANY DISRUPTION TO DEC REGULATED WETLANDS WILL BE MINIMIZED. DEC'S FIELD REPRESENTATIVE WILL NOTIFY THE DPS STAFF REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE OF ANY ACTIVITIES THAT VIOLATE OR MAY VIOLATE EITHER THE TERMS OF THE ARTICLE 10 CERTIFICATE OR THE ENVIRONMENTAL CONSERVATION LAW. DPS AND DEC STAFFS' FIELD REPRESENTATIVES WILL WORK COOPERATIVELY TO DETERMINE WHETHER STOP WORK AUTHORITY WILL BE EXERCISED, OR WHETHER TO DIRECT THE APPLICANT TO TAKE ACTION TO FURTHER MINIMIZE IMPACTS TO STREAMS AND WETLANDS.
- 4. RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 300 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS, WETLANDS, SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS:
- A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;
- B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS; C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS;
- D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS. E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.
- F. REFUELING OR CHEMICAL STORAGE CAN NOT OCCUR WITHIN 300 FEET.
- 5. "AVOID, DO NOT CROSS" INDICATES THAT AN AREA DOES NOT HAVE A DESIGNATED ACCESS ROUTE AND THAT EQUIPMENT IS RESTRICTED FROM CROSSING OR OPERATING IN THAT AREA. THIS DESIGNATION IS APPLIED TO ALL WETLANDS, STREAMS, AND ASSOCIATED BUFFERS THAT DO NOT HAVE APPROVED EQUIPMENT ACCESS, AS DEPICTED ON THE WETLAND IMPACT DRAWINGS. THESE RESTRICTIONS SHALL ALSO BE INDICATED ON THE FINAL CONSTRUCTION DRAWINGS
- 6. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES. BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
- 7. THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO TREE CLEARING BY THE TREE CLEARING CONTRACTOR. BOUNDARIES SHALL BE RE-MARKED AS NECESSARY FOLLOWING CLEARING.
- 8. CONCRETE WASHOUT LOCATIONS TO BE INDENTIFIED BY THE CONTRACTOR AS FOLLOWS: WASTE CONCRETE OR CONCRETE FROM THE TRACK WARN OUT ACTIVITY AND/OR ANY WASH WATER FORM TRUCKS, EQUIPMENT OR TOOLS IF DONE ON SITE, MUST BE CONTAINED IN A MANNER THAT WILL PROVENT IT FROM & CAPING INTO THE STREAMBANK OR INTO THE STREAM CHANNEL AND ENTERING THE STREAM, OR ENTERING WETLAND, OR ANY OTHER MAY STRODY. IF A DISCHARGE OCCURS, DEC REGION 8 SUPERVISOR OF NATURAL RESOURCES SHALL BE CONTACTED WITHIN 2 HOURS OF SPOSAL OF WASTE CONCREVE OF WASH WATER MUST OCCUR GREATER THAN 300 FEET FROM ANY WATERBODY.
- PRELIMINARY GENERAL ENVIRONMENTAL RESPONDENCE
- ALL EQUIPMENT ACCESS STORAGE OF EQUIPMENT AND MATERIALS, AND DIMER CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE ACCESS ROADS, LAYDOWN AREAS, AND THE COLLECTION WAS AND TRANSVISSION LINE ROUTES AS DEPICTED WAS HE FINAL CONSTRUCTION DRAWINGS.
- EQUIPMENT WILL UTILIZE THE IN SECTION OF ACCESS ROADS AND EXISTING ROADS FOR TURNING. WORK AREAS, SUCH AS ARRAY PADS AND LAYDOWN AREAS, WILL ALSO PROVIDE AREAS FOR COMPARING AND PARKING, IN ADDIMONTO DESIGNATED TURNING LOCATIONS.

Versitive dust resulting from construction activities will be minimized to the maximum extent practical by implementing appropriate control MSASSINGES. THESE MEASURES, INCLUDE THE APPLICATION OF MULCH, WATER, OR STONE ON ACCESS ROADS, EXPOSED SOILS, STOCKPILED SOILS, OR UNPAVED PUBLIC ROADS WHEN DRY AND WIND CONDITIONS EXIST. A WATERING VEHICLE WILL BE AVAILABLE ON AN AS-NEEDED BASIS. REFER TO DUST CONTROL PLAN PREPARED BY WESTWOOD.

- 4. WITHIN 100 STATE REGULATED WETLANDS AND 50 FEET OF OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION AND OPERATION OF THE FACILITY.
- STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLAND BOUNDARIES
- 6. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE. IN ACCORDANCE WITH THE SWPPP. EROSION CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE. NO REFILLING OR CHEMICAL STORAGE WITHIN 300 FT.
- 7. THE BOP CONTRACTOR WILL LOCATE AND DISTRIBUTE EXCESS EXCAVATION MATERIAL IN NON-AGRICULTURE UPLAND AREAS (I.E., OUTSIDE OF WETLANDS, STREAMS, AND AGRICULTURAL FIELDS). WHERE PRACTICAL, SUCH MATERIAL WILL BE USED AS ROAD FILL OR BACKFILL AROUND STRUCTURES. EROSION CONTROL PRACTICES WILL BE INSTALLED, AND EXPOSED SOILS STABILIZED IN ACCORDANCE WITH THE SWPPP.
- 8. CONSTRUCTION EQUIPMENT SANITATION: THE INTRODUCTION OF NON-NATIVE INVASIVE PLANT SPECIES WILL BE CONTROLLED BY ASSURING THAT ALL CONSTRUCTION EQUIPMENT IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES WILL BE CLEANED PRIOR TO MOVING TO ANOTHER SITE. THE INTENT IS THAT EQUIPMENT SHOULD ARRIVE AT THE SITE CLEAN AND LEAVE THE SITE CLEAN. EQUIPMENT/CLOTHING CLEANING STATIONS WILL BE ESTABLISHED TO ENSURE THAT INVASIVE SPECIES SEEDS AND OTHER VIABLE PLANT PARTS CANNOT ESCAPE IN RUNOFF OR THROUGH OTHER MEANS

PRELIMINARY SPECIFIC STREAM CROSSING RESTRICTIONS:

- . CONSTRUCTION WORK IN STREAMS WILL CONFORM TO APPROPRIATE TIMING RESTRICTIONS TO PROTECT IMPORTANT FISHERIES RESOURCES, DURING SPAWNING AND PRIMARY MIGRATION PERIODS. STREAMS SUBJECT TO SUCH RESTRICTIONS WILL BE DETERMINED IN THE FIELD BY REPRESENTATIVES OF THE DEC AND THE APPLICANT, PRIOR TO CONSTRUCTION. FOR COLD WATER FISHERIES IN THE PROJECT AREA. CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN OCTOBER 1 AND MAY 31 TO AVOID TROUT SPAWNING PERIODS. FOR WARM WATER FISHERIES, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN MARCH 1 AND JULY 15. HOWEVER, ONCE INSTALLED, SUCH CROSSINGS CAN BE USED BY CONSTRUCTION VEHICLES THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. ANY EXCEPTIONS TO THESE PROHIBITED PERIODS REQUIRE PRIOR APPROVAL BY DPS STAFF. IN CONSULTATION WITH DEC
- 2. IN PROTECTED STREAMS CLASSIFIED AS C(T OR TS), B(T OR TS), A(T OR TS), OR AA((T OR TS), ALL INSTREAM WORK, AS WELL AS ANY WORK THAT MAY RESULT IN THE SUSPENSION OF SEDIMENT, IS PROHIBITED DURING THE TROUT SPAWNING AND INCUBATION PERIOD COMMENCING OCTOBER 1 AND ENDING MAY 31, UNLESS THE ENVIRONMENTAL MONITOR RECEIVES APPROVAL FROM THE NYSDEC REGIONAL SUPERVISOR OF NATURAL RESOURCES.
- A BUFFER ZONE OF 300 FEET, REFERRED TO AS "RESTRICTED ACTIVITIES AREA" OR SIMILAR ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, SHALL BE ESTABLISHED WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS AND OTHER BODIES OF WATER, RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE:NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATERBODY:NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA; HERBACIDE RESTRICTIONS WITHIN 300 FEET OF A STREAM OR WETLAND(OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS); NO DEGRADATION OF STREAM BANKS; NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA; NO STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL; AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER.
- 4. EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS SHALL BE DESIGNATED "NO EQUIPMENT ACCESS" OR SIMILAR ON THE FINAL FACILITY CONSTRUCTION DRAWINGS.

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Westwood Development Consultants, LLC

PRFPARED FOR

REVISIONS



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| # | DATE | COMMENT |
| A | 06/12/20 | Issued for Review |
| В | 09/03/20 | Issued for Review |
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Excelsior Energy Center

Town of Byron, New York

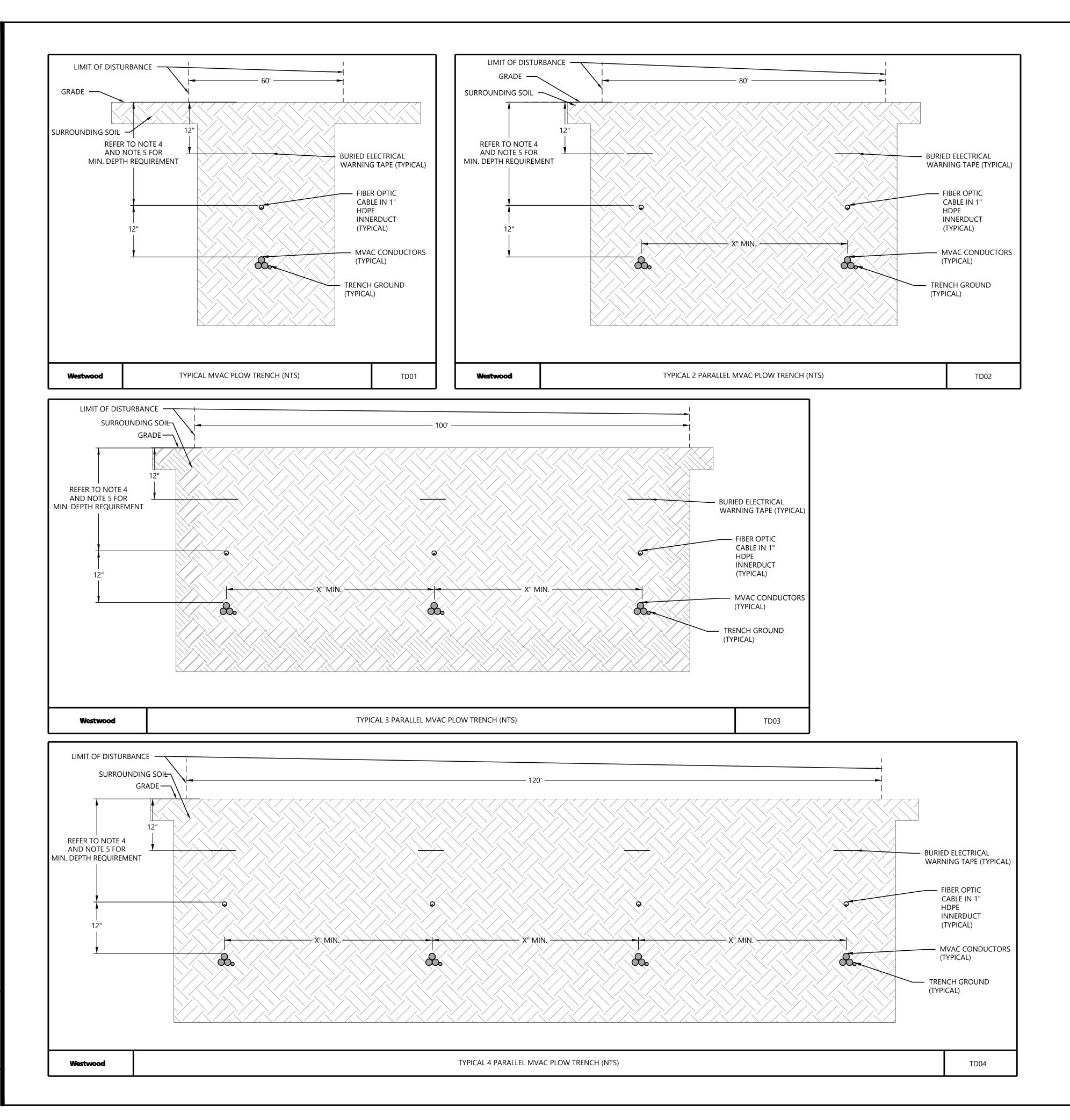
Tree Clearing Notes

NOT FOR CONSTRUCTION

DATE:

09/03/2020

SHEET



NOTES:

- INSULATION.
- 3. BACKFILL LIFTS SHALL NOT EXCEED 12".
- A CONDUIT. MINIMUM DEPTH OF COVER MUST BE 36".
- RESTORATION.
- OF TWO TO THREE BALES PER 1000 SQ. FT. SOIL LOSS.

1. TRENCHES AND BACKFILL SHALL BE FREE OF ROCK, STUMPS, LARGE ROOTS OR ANY OTHER MATERIAL LARGER THAN 3/8" IN DIAMETER THAT CAN CAUSE DAMAGE TO CABLE JACKETS OR

2. TYPICAL MVAC TRENCHES SHALL BE MINIMUM 2.5' AWAY FROM PILES. TRENCHES THAT ARE WITHIN 2.5' OF PILES SHALL BE COMPACTED TO 95%.

4. ALL BURIED UTILITIES LOCATED WITHIN THE GENERATION FACILITY'S SECURITY FENCE MUST HAVE A MINIMUM DEPTH OF 36" IF DIRECT BURIED AND MINIMUM DEPTH OF 18" IF BURIED IN

5. ALL BURIED UTILITIES LOCATED OUTSIDE OF THE GENERATION FACILITY SECURITY FENCE: (a) IN CROPLAND, HAYLAND, AND IMPROVED PASTURE BURIED ELECTRIC CONDUCTORS MUST HAVE A MINIMUM DEPTH OF 48" OF COVER, IN AREAS WHERE THE DEPTH OF SOIL BEDROCK IS LESS THAN 48", THE ELECTRIC CONDUCTORS MUST BE BURIED BELOW THE SURFACE OF THE BEDROCK IF FRIABLE/RIPPABLE, OR AS NEAR AS POSSIBLE TO THE SURFACE OF THE BEDROCK. (b) IN UNIMPROVED GRAZING AREAS OR ON LAND PERMANENTLY DEVOTED TO PASTURE THE

(c) WHERE ELECTRICAL CONDUCTORS ARE BURIED DIRECTLY BELOW THE GENERATION FACILITY'S ACCESS ROAD OR IMMEDIATELY ADJACENT (AT ROAD EDGE) TO THE ACCESS ROAD, THE MINIMUM DEPTH OF COVER MUST BE 36" IF DIRECT BURIED AND 24" IF BURIED IN CONDUIT. CONDUCTORS MUST BE CLOSED ENOUGH TO THE ROAD EDGE AS TO BE NOT SUBJECT TO AGRICULTURAL CULTIVATION/SUB-SOILING.

6. WHEN OPEN-CUT TRENCHING IS PROPOSED, TOPSOIL STRIPPING IS REQUIRED FROM THE WORK AREA ADJACENT TO THE TRENCH (INCLUDING SEGREGATED STOCKPILE AREAS AND EQUIPMENT ACCESS). TRENCHER OR ROAD SAW LIKE EQUIPMENT ARE NOT ALLOWED FOR

TRENCH EXCAVATION IN AGRICULTURAL AREAS, AS THE EQUIPMENT DOES NOT SEGREGATE TOPSOIL FROM SUBSOIL. HORIZONTAL DIRECTIONAL DRILLING (HDD) OR EQUIVALENT INSTALLATION THAT DOES NOT DISRUPT THE SOIL PROFILE, MAY LIMIT AGRICULTURAL GROUND DISTURBANCES. ANY HDD DRILLING FLUID INADVERTENTLY DISCHARGED MUST BE REMOVED FROM AGRICULTURAL AREAS. NARROW OPEN TRENCHES LESS THAN 25 FEET LONG INVOLVING A SINGLE DIRECTLY BURIED CONDUCTOR OR CONDUIT (AS REQUIRED) TO CONNECT SHORT ROWS WITHIN THE ARRAY, ARE EXEMPT FROM TOPSOIL SEGREGATION. 7. STRIPPED TOPSOIL SHOULD BE STOCKPILED FROM WORK AREAS (E.G. PARKING AREAS, ELECTRIC CONDUCTOR TRENCHES, ALONG ACCESS ROADS, EQUIPMENT PADS) AND KEPT SEPARATE FROM OTHER EXCAVATED MATERIAL (ROCK AND/OR SUB-SOIL) UNTIL THE COMPLETION OF THE FACILITY FOR FINAL RESTORATION. FOR PROPER TOPSOIL SEGREGATION, AT LEAST 25 FEET OF ADDITIONAL TEMPORARY WORKSPACE (ATWS) MAY BE

NEEDEDALONG "OPEN-CUT" UNDERGROUND UTILITY TRENCHES. ALL TOPSOIL WILL BE STOCKPILED AS CLOSE AS IS REASONABLY PRACTICAL TO THE AREA WHERE

STRIPPED/REMOVED AND SHALL BE USED FOR RESTORATION ON THAT PARTICULAR AREA. ANY TOPSOIL REMOVED FROM PERMANENTLY CONVERTED AGRICULTURAL AREAS (E.G. PERMANENT ROADS, ETC.) SHOULD BE TEMPORARILY STOCKPILED AND EVENTUALLY SPREAD EVENLY IN ADJACENT AGRICULTURAL AREAS WITHIN THE PROJECT LIMITS OF DISTURBANCE (LOD) ; HOWEVER NOT TO SIGNIFICANTLY ALTER THE HYDROLOGY OF THE AREA. CLEARLY DESIGNATE TOPSOIL STOCKPILE AREAS AND TOPSOIL DISPOSAL AREAS IN THE FIELD AND ON CONSTRUCTION DRAWINGS; CHANGES OR ADDITIONS TO THE DESIGNATED STOCKPILE AREAS MAY BE NEEDED BASED ON FIELD CONDITIONS IN CONSULTATION WITH THE EM. SUFFICIENT LOD (AS DESIGNATED ON THE SITE PLAN OR BY THE EM) AREA SHOULD BE ALLOTTED TO ALLOW ADEQUATE ACCESS TO THE STOCKPILE FOR TOPSOIL REPLACEMENT DURING

(a) TOPSOIL STOCKPILES ON AGRICULTURAL AREAS LEFT IN PLACE PRIOR TO OCTOBER 31ST SHOULD BE SEEDED WITH AROOSTOOK WINTER RYE OR EQUIVALENT AT AN APPLICATION RATE OF THREE BUSHELS (168 LBS.) PER ACRE AND MULCHED WITH STRAW MULCH AT RATE

(b) TOPSOIL STOCKPILES LEFT IN PLACE BETWEEN OCTOBER 31ST AND MAY 31ST SHOULD BE MULCHED WITH STRAW AT A RATE OF TWO TO THREE BALES PER 1000 SQ. FT. TO PREVENT



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700 Universe Boulevard Juno Beach, FL 33408

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| В | 09/03/20 | Issued for Review |
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Excelsior Energy Center

Town of Byron, New York

Trench Details - 1

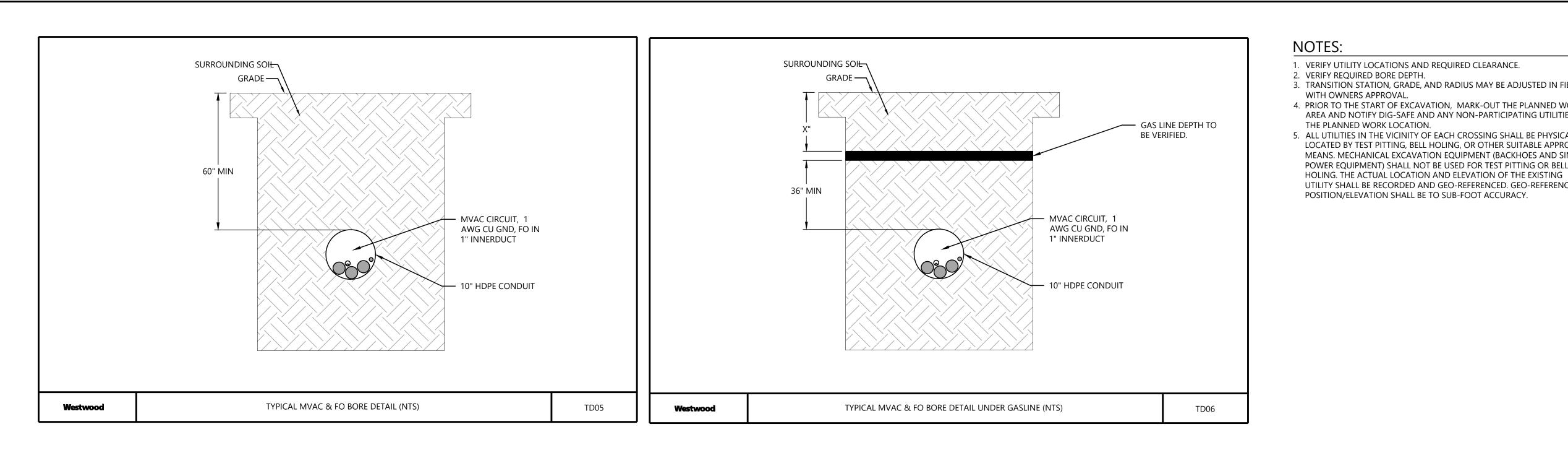
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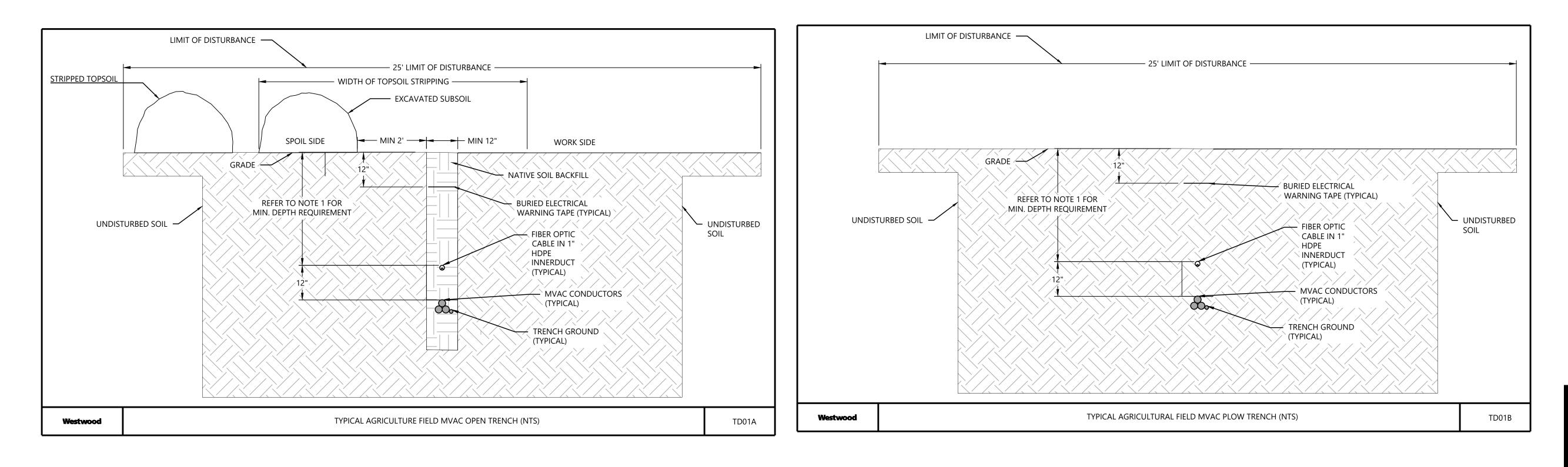
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3. TRANSITION STATION, GRADE, AND RADIUS MAY BE ADJUSTED IN FIELD

4. PRIOR TO THE START OF EXCAVATION, MARK-OUT THE PLANNED WORK AREA AND NOTIFY DIG-SAFE AND ANY NON-PARTICIPATING UTILITIES OF

- 5. ALL UTILITIES IN THE VICINITY OF EACH CROSSING SHALL BE PHYSICALLY LOCATED BY TEST PITTING, BELL HOLING, OR OTHER SUITABLE APPROVED MEANS. MECHANICAL EXCAVATION EQUIPMENT (BACKHOES AND SIMILAR POWER EQUIPMENT) SHALL NOT BE USED FOR TEST PITTING OR BELL
- UTILITY SHALL BE RECORDED AND GEO-REFERENCED. GEO-REFERENCED



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Trench Details - 2

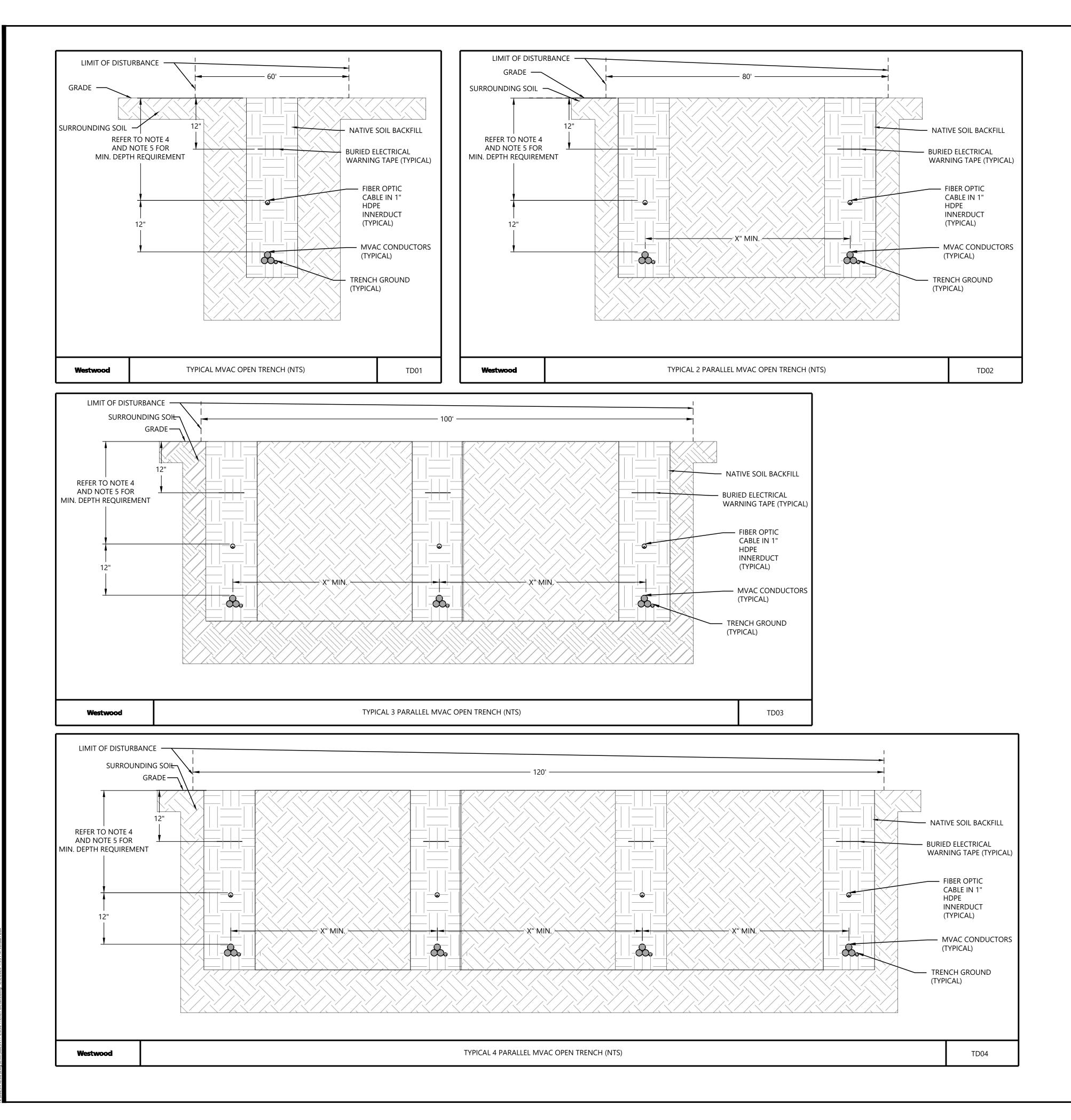
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NOTES:

- INSULATION.
- 3. BACKFILL LIFTS SHALL NOT EXCEED 12".
- A CONDUIT. MINIMUM DEPTH OF COVER MUST BE 36".

- RESTORATION. OF TWO TO THREE BALES PER 1000 SQ. FT. SOIL LOSS.

1. TRENCHES AND BACKFILL SHALL BE FREE OF ROCK, STUMPS, LARGE ROOTS OR ANY OTHER MATERIAL LARGER THAN 3/8" IN DIAMETER THAT CAN CAUSE DAMAGE TO CABLE JACKETS OR

2. TYPICAL MVAC TRENCHES SHALL BE MINIMUM 2.5' AWAY FROM PILES. TRENCHES THAT ARE WITHIN 2.5' OF PILES SHALL BE COMPACTED TO 95%.

4. ALL BURIED UTILITIES LOCATED WITHIN THE GENERATION FACILITY'S SECURITY FENCE MUST HAVE A MINIMUM DEPTH OF 36" IF DIRECT BURIED AND MINIMUM DEPTH OF 18" IF BURIED IN

5. ALL BURIED UTILITIES LOCATED OUTSIDE OF THE GENERATION FACILITY SECURITY FENCE: (a) IN CROPLAND, HAYLAND, AND IMPROVED PASTURE BURIED ELECTRIC CONDUCTORS MUST HAVE A MINIMUM DEPTH OF 48" OF COVER, IN AREAS WHERE THE DEPTH OF SOIL BEDROCK IS LESS THAN 48", THE ELECTRIC CONDUCTORS MUST BE BURIED BELOW THE SURFACE OF THE BEDROCK IF FRIABLE/RIPPABLE, OR AS NEAR AS POSSIBLE TO THE SURFACE OF THE BEDROCK. (b) IN UNIMPROVED GRAZING AREAS OR ON LAND PERMANENTLY DEVOTED TO PASTURE THE

(c) WHERE ELECTRICAL CONDUCTORS ARE BURIED DIRECTLY BELOW THE GENERATION FACILITY'S ACCESS ROAD OR IMMEDIATELY ADJACENT (AT ROAD EDGE) TO THE ACCESS ROAD, THE MINIMUM DEPTH OF COVER MUST BE 36" IF DIRECT BURIED AND 24" IF BURIED IN CONDUIT. CONDUCTORS MUST BE CLOSED ENOUGH TO THE ROAD EDGE AS TO BE NOT SUBJECT TO AGRICULTURAL CULTIVATION/SUB-SOILING.

6. WHEN OPEN-CUT TRENCHING IS PROPOSED, TOPSOIL STRIPPING IS REQUIRED FROM THE WORK AREA ADJACENT TO THE TRENCH (INCLUDING SEGREGATED STOCKPILE AREAS AND EQUIPMENT ACCESS). TRENCHER OR ROAD SAW LIKE EQUIPMENT ARE NOT ALLOWED FOR

TRENCH EXCAVATION IN AGRICULTURAL AREAS, AS THE EQUIPMENT DOES NOT SEGREGATE TOPSOIL FROM SUBSOIL. HORIZONTAL DIRECTIONAL DRILLING (HDD) OR EQUIVALENT INSTALLATION THAT DOES NOT DISRUPT THE SOIL PROFILE, MAY LIMIT AGRICULTURAL GROUND DISTURBANCES. ANY HDD DRILLING FLUID INADVERTENTLY DISCHARGED MUST BE REMOVED FROM AGRICULTURAL AREAS. NARROW OPEN TRENCHES LESS THAN 25 FEET LONG INVOLVING A SINGLE DIRECTLY BURIED CONDUCTOR OR CONDUIT (AS REQUIRED) TO CONNECT SHORT ROWS WITHIN THE ARRAY, ARE EXEMPT FROM TOPSOIL SEGREGATION. 7. STRIPPED TOPSOIL SHOULD BE STOCKPILED FROM WORK AREAS (E.G. PARKING AREAS, ELECTRIC CONDUCTOR TRENCHES, ALONG ACCESS ROADS, EQUIPMENT PADS) AND KEPT SEPARATE FROM OTHER EXCAVATED MATERIAL (ROCK AND/OR SUB-SOIL) UNTIL THE COMPLETION OF THE FACILITY FOR FINAL RESTORATION. FOR PROPER TOPSOIL SEGREGATION, AT LEAST 25 FEET OF ADDITIONAL TEMPORARY WORKSPACE (ATWS) MAY BE

NEEDEDALONG "OPEN-CUT" UNDERGROUND UTILITY TRENCHES. ALL TOPSOIL WILL BE STOCKPILED AS CLOSE AS IS REASONABLY PRACTICAL TO THE AREA WHERE

STRIPPED/REMOVED AND SHALL BE USED FOR RESTORATION ON THAT PARTICULAR AREA. ANY TOPSOIL REMOVED FROM PERMANENTLY CONVERTED AGRICULTURAL AREAS (E.G. PERMANENT ROADS. ETC.) SHOULD BE TEMPORARILY STOCKPILED AND EVENTUALLY SPREAD EVENLY IN ADJACENT AGRICULTURAL AREAS WITHIN THE PROJECT LIMITS OF DISTURBANCE (LOD) ; HOWEVER NOT TO SIGNIFICANTLY ALTER THE HYDROLOGY OF THE AREA. CLEARLY DESIGNATE TOPSOIL STOCKPILE AREAS AND TOPSOIL DISPOSAL AREAS IN THE FIELD AND ON CONSTRUCTION DRAWINGS; CHANGES OR ADDITIONS TO THE DESIGNATED STOCKPILE AREAS MAY BE NEEDED BASED ON FIELD CONDITIONS IN CONSULTATION WITH THE EM. SUFFICIENT LOD (AS DESIGNATED ON THE SITE PLAN OR BY THE EM) AREA SHOULD BE ALLOTTED TO ALLOW ADEQUATE ACCESS TO THE STOCKPILE FOR TOPSOIL REPLACEMENT DURING

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