Mike Mazza

From: Mike Mazza

Sent: Wednesday, October 23, 2024 7:11 AM

To: bmillis@v3co.com; Nick Kinsella; 'Brian Scapardine'; 'Pellicci, Derek'; 'Nazario Rivas'

Cc: Sean Faulkner; Tim Pollowy; 'Ethan Appelgren'

Subject: Stellwagen, Olde Mill and Police Station Natural Area Stewardship (2025 - 2027) **Attachments:** Stellwagen and Olde Mill Proposal Sheet.pdf; 24-0161 Stellwagen and Olde Mill.pdf;

24-0161 Stellewagen and Olde Mill Special Provisions 2024-10-07.pdf; Police Station

Landscape Plans.pdf; Stellwagen and Olde Mill Proposal Sheet.xlsx; Meeting

Location.pdf

Good afternoon,

Please see attached bid documents for the Stellwagen, Olde Mill and Police Station Natural Area Stewardship. The stewardship would run from 2025 – 2027 with the option to extend the contract for an additional two (2) years.

We will hold a pre-proposal meeting on Wednesday (10/30) at 10AM. Please meet us in the cul-de-sac at the end of Deer Trail Court (near 10700 Deer Trail Court – see attached "Meeting Location" map).

Thank you and we look forward to seeing everyone on Wednesday (10/30) at 10AM.

Best,

Mike Mazza, ASLA | Operations Manager – Natural Resources and Facilities Village of Orland Park
14700 Ravinia Avenue | Orland Park, Illinois 60462
Ph. 708.403.6108 | mmazza@orlandpark.org
ISA Certified Arborist #IL-9579A / TRAQ
CPRP, CPSI, AFO, CPO



Village of Orland Park

Stellwagen, Olde Mill and Police Station Natural Area Stewardship -Proposal Sheet



BASE BID

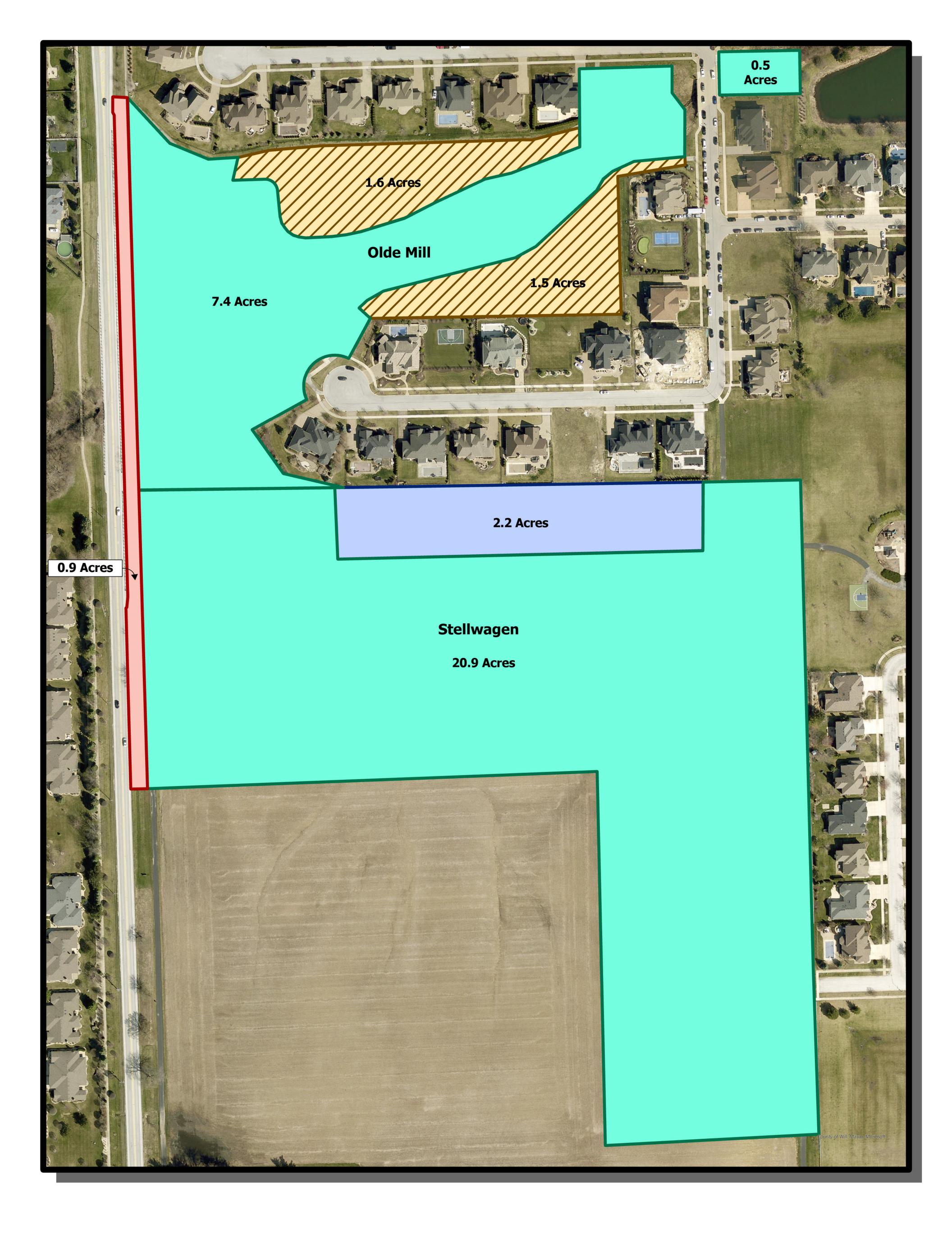
Item	Description	Units	Quantity	Unit Price	Extended Price
1	Stewardship - Year 1 (2025)	LS	1		
2	Stewardship - Year 2 (2026)	LS	1		
3	Stewardship - Year 3 (2027)	LS	1		
	TOTAL		•		

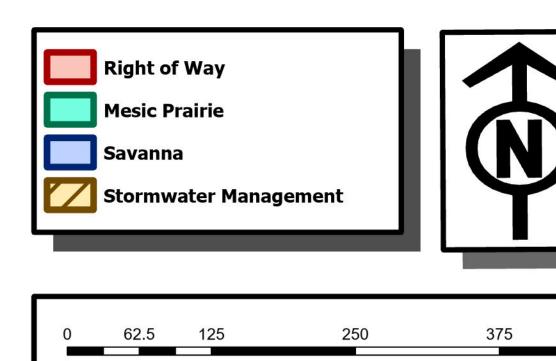
ADDITIONAL ALTERNATES (to be included at Owner's discretion, quantities TBD based upon available budget and need)

Item	Description	Units	Quantity	Unit Price
AA1	Interseeding, Mesic Prairie Seed Mix	Acres	1	
AA2	Interseeding, Wet Prairie Seed Mix	Acres	1	
AA3	Perennial Plants, Mesic Prairie Type	Units	1	
AA4	Perennial Plants, Wet Prairie Type	Units	1	
AA5	Controlled Burn, Stellwagen	Each	1	
AA6	Controlled Burn, Olde Mill	Each	1	
AA7	Controlled Burn, Police Station	Each	1	
AA8	Stewardship - Year 4 (2027)	LS	1	
AA9	Stewardship - Year 5 (2028)	LS	1	

AUTHORIZATION & SIGNATURE

Company Name:		
Name of Authorized Signee:		
Signature of Authorized Signee:		
Title:	Date:	





VILLAGE OF ORLAND PARK
Stellwagen and Olde Mill Natural Area Restoration Plan
Hey Project 24-0161
October 7th, 2024

CONTRACT SPECIFICATIONS TABLE OF CONTENTS

	PAGE
CHECK SHEET FOR RECURRING SPECIAL PROVISIONS	ii
CHECK SHEET FOR LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS	iii
SPECIAL PROVISIONS	1
SECTION 101. DEFINITION OF TERMS	1
SECTION 105. CONTROL OF WORK	1
SECTION 107. LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC	1
SECTION 671. MOBILIZATION	2
DISPOSAL OF CONSTRUCTION DEBRIS	
TRAFFIC CONTROL AND PROTECTION	2
PROTECTION OF EXISTING TREES	3
SELECTIVE HERBACEOUS WEED CONTROL	
TEMPORARY SOIL EROSION AND SEDIMENT CONTROL	4
SELECTIVE CLEARING	5
INTERSEEDING	
PERENNIAL PLANTS	7
STEWARDSHIP	8

Highway Standard Drawings

701001	Off-Road Operations, 2L, 2W, More Than 15 ft Away From EOP
701006	Off-Road Operations, 2L, 2W, 15' to 24" From Pavement Edge
701101	Off-Road Operations, Multilane, 15' to 24" From Pavement Edge
701106	Off-Road Operations, Multilane, More Than 15' Away
701801	Sidewalk, Corner or Crosswalk Closure



Stellwagen and Olde Mill Natural Area Restoration Plan Village of Orland Park



Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
Village of Orland Park	Cook	N/A

☐ Check this box for lettings prior to 01/01/2022.

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

Che	Recurring Special Provisions <u>ck Sheet #</u>	Reference Page No.
1	☐ Additional State Requirements for Federal-Aid Construction Contracts	1
2	☐ Subletting of Contracts (Federal-Aid Contracts)	4
3	☐ EEO	5
4	Specific EEO Responsibilities Non Federal-Aid Contracts	15
5	Required Provisions - State Contracts	20
6	☐ Asbestos Bearing Pad Removal	26
7	Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	27
8	☐ Temporary Stream Crossings and In-Stream Work Pads	28
9	▼ Construction Layout Stakes	29
10	Use of Geotextile Fabric for Railroad Crossing	32
11	☐ Subsealing of Concrete Pavements	34
12	☐ Hot-Mix Asphalt Surface Correction	38
13	☐ Pavement and Shoulder Resurfacing	40
14	☐ Patching with Hot-Mix Asphalt Overlay Removal	41
15	☐ Polymer Concrete	43
16	☐ PVC Pipeliner	45
17	☐ Bicycle Racks	46
18	☐ Temporary Portable Bridge Traffic Signals	48
19	☐ Nighttime Inspection of Roadway Lighting	50
20	☐ English Substitution of Metric Bolts	51
21	Calcium Chloride Accelerator for Portland Cement Concrete	52
22	Quality Control of Concrete Mixtures at the Plant	53
23	Quality Control/Quality Assurance of Concrete Mixtures	61
24	☐ Digital Terrain Modeling for Earthwork Calculations	77
25	☐ Preventive Maintenance - Bituminous Surface Treatment (A-1)	79
26	☐ Temporary Raised Pavement Markers	85
27	Restoring Bridge Approach Pavements Using High-Density Foam	86
28	☐ Portland Cement Concrete Inlay or Overlay	89
29	☐ Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	93
30	☐ Longitudinal Joint and Crack Patching	96
31	Concrete Mix Design - Department Provided	98
32	☐ Station Numbers in Pavements or Overlays	99

Stellwagen and Olde Mill Natural Area Restoration Plan Village of Orland Park

Local Public Agency	<u>C</u>	County	Section Number
Village of Orland Park		Cook	N/A

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

<u>C</u>	heck She	eet#		Page No.
LRS	1		Reserved	101
LRS	2 [Furnished Excavation	102
LRS	3	×	Work Zone Traffic Control Surveillance	103
LRS	4 [Flaggers in Work Zones	104
LRS	5		Contract Claims	105
LRS	6		Bidding Requirements and Conditions for Contract Proposals	106
LRS	7		Bidding Requirements and Conditions for Material Proposals	112
LRS	8		Reserved	118
LRS	9 [Bituminous Surface Treatments	119
LRS 1	10		Reserved	123
LRS 1	11 [Employment Practices	124
LRS 1	12 [Wages of Employees on Public Works	126
LRS 1	13 [Selection of Labor	128
LRS 1	14 [Paving Brick and Concrete Paver Pavements and Sidewalks	129
LRS 1	15 [Partial Payments	132
LRS 1	16 [Protests on Local Lettings	133
LRS 1	17 [Substance Abuse Prevention Program	134
LRS 1	18 [Multigrade Cold Mix Asphalt	135
LRS 1	19 [Reflective Crack Control Treatment	136

VILLAGE OF ORLAND PARK, ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids and the "Supplemental Specifications and Recurring Special Provisions" indicated on the Check Sheet included herein which apply to and govern the proposed improvement designated as **Stellwagen, Olde Mill, and Police Station Natural Area Stewardship**, and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern. The referenced IDOT Standard Specifications can be downloaded at no cost here: http://www.idot.illinois.gov/doing-business/procurements/engineering-architectural-professional-services/consultants-resources/.

SECTION 101. DEFINITION OF TERMS

Modify Article 101.16 as follows: Engineer. The Village of Orland Park or their authorized representative.

SECTION 105. CONTROL OF WORK

Modify Article 105.09 Survey Control Points as follows: No survey control will be provided by the Engineer. Refer to Recurring Special Provisions Check Sheet #9 Layout Stakes. The Contractor shall provide all layout for the Engineer's approval. The Engineer reserves the right to make minor field adjustments to the layout with no changes in price or time.

SECTION 107. LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

Add the following to Article 107.09 Public Convenience and Safety: The Engineer will notify the Contractor of public events in and around the project sites. The Contractor shall adjust their schedule and operations so as not to conflict or interfere with these events.

Add the following after the first paragraph of Article 107.20 Protection and Restoration of Property: The Contractor shall maintain conveyance of all flows during construction of this project. When existing drainage facilities are disturbed, the Contractor shall provide and maintain temporary inlets, outlets, and connections for all private and public drains, sewers, culverts, and other drainage facilities. The Contractor shall provide facilities to take in all storm water which will be received by these drains and sewers and discharge the same. The Contractor shall provide and maintain a pumping plant, if necessary, and a temporary outlet and be prepared at all times to dispose of water received from these temporary connections until such time that the permanent drainage facilities are in service.

Revise the last paragraph of Article 107.20 to read: The cost of all materials and equipment required and all labor necessary to comply with the above Provisions will not be paid for separately but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed.

Article 107.26 Indemnification. In addition to the requirements of this Article, for any activity occurring on an easement or any other property not owned by the Village, the indemnification shall also be extended to the property owners and any tenants thereon.

Article 107.27 Insurance. Insurance requirements shall be as required by the Village of Orland Park.

SECTION 671. MOBILIZATION

Revise Article 671.02 Basis of Payment to read: This work will not be paid for separately but shall be included in the various items of work.

DISPOSAL OF CONSTRUCTION DEBRIS

General. The Contractor shall comply with all IEPA requirements regarding the certification and disposal of debris including general construction debris, demolition debris, uncontaminated soil, waste, vegetation, and clean construction demolition debris.

Method of Measurement. Disposal of construction debris will not be measured for payment.

Basis of Payment. The cost of construction debris disposal will not be paid for separately but shall be included in the various items of work.

TRAFFIC CONTROL AND PROTECTION

Description. Provide signage, barricades, and other such devices to warn and protect the public during completion of the work to the satisfaction of the Engineer. The traffic control and protection for this project shall be performed in accordance with this Special Provision; Section 701 Work Zone Traffic Control and Protection, Signing, and Pavement Marking; the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways;" any special details contained in the plans or referenced Highway Standards; and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS check sheet LRS3 Special Provision for Work Zone Traffic Control Surveillance.

Special attention is called to Article 107.09 and the following Highway Standards.

701001	Off-Road Operations, 2L, 2W, More Than 15 ft Away From EOP
701006	Off-Road Operations, 2L, 2W, 15' to 24" From Pavement Edge
701101	Off-Road Operations, Multilane, 15' to 24" From Pavement Edge
701106	Off-Road Operations, Multilane, More Than 15' Away

701801 Sidewalk, Corner or Crosswalk Closure

The furnishing, placing, and removal of material, or any temporary concrete barrier and impact attenuators, not shown on the plans but required to meet the drop off requirements, shall be included in the contract unit price for Traffic Control and Protection.

The cost of supplying, erecting, and maintaining barricades, warning lights, and signs shall be included in the contract price for Traffic Control and Protection.

Method of Measurement. Traffic control and protection will not be measured for payment.

Basis of Payment. This work will shall not be paid for separately but shall be included in the various items of work.

PROTECTION OF EXISTING TREES

Description: This work shall include proactively protecting existing trees to remain from damages resulting from or caused by the Contractor's work. This may include, but is not limited to the following:

- Directing the fall zone of trees to be removed away from trees to be preserved.
- Protecting trees to be preserved from damage from equipment or vehicles while work is occurring.
- Protecting trees to be preserved from fire during controlled burns, burning or brush piles, or other fire started as part of the Contractor's work.
- Protecting trees to be preserved from herbicide drift and/or herbicide translocation through the soil.

The Contractor shall remediate, at no additional cost, any damage to trees to be preserved that are damaged by their work to the satisfaction of the Engineer. This may include, but is not limited to, the following:

- Additional pruning or other arboricultural care.
- Furnishing and planting additional trees to replace the functions and benefits of damaged trees.

Method of Measurement as follows: Protection of existing trees will not be measured for payment.

Basis of Payment as follows: This work will shall not be paid for separately but shall be included in the various items of work.

SELECTIVE HERBACEOUS WEED CONTROL

Description: This work shall consist of controlling herbaceous weeds via targeted herbicide application, selective mowing/weed whipping, and other accepted ecological restoration techniques to control weed populations, reduce overall cover by undesirable species, and to encourage the growth of desirable species.

Materials: Post-emergent herbicide shall be selected by the Contractor based upon their experience and site conditions. Additives such as surfactants, water, and other materials shall be per the manufacturer's recommendations and shall be included. Contractor must submit a sample label and MSDS for all herbicides at least one week before their use.

Requirements: Selective herbaceous weed control shall be completed where undesirable, invasive, non-native weeds (e.g., common reed, reed canary grass, cattail, teasel, purple loosestrife, etc.) exist or as directed by the Engineer. Weedy native species (e.g., ragweed, Canada goldenrod, etc.) may also be targeted with approval of the Engineer. Follow herbicide label directions at all times. Herbicide must be applied by an Illinois Licensed Pesticide Operator or Applicator. Provide copies of Licenses to Engineer for all who will be applying herbicides. Use care not to damage adjacent vegetation to remain. The Contractor shall replace desirable vegetation to remain affected by their selective herbaceous weed control efforts at their own cost.

Method of Measurement. Weed control will not be measured for payment. Payment may be withheld for lack of progress in controlling invasive species as determined by the Engineer.

Basis of Payment. This work shall not be paid for separately but shall be included in the various items of work.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

Description: The Contractor shall provide temporary soil erosion and sediment control measures during construction to prevent water pollution. Work shall conform to Section 280 except as modified herein.

Replace the first paragraph of Article 280.04 Temporary Erosion Control Systems with the following: Temporary erosion control systems shall be considered part of the Contractor's means and methods. The Contractor shall implement erosion and sediment control systems to prevent water pollution during completion of work on site. Temporary erosion control systems shall be subject to the Engineer's review and approval. The Engineer reserved the right to require additional temporary erosion control systems if water pollution occurs or is imminent.

Modify Article 280.07 Method of Measurement as follows: Temporary soil erosion and sediment control will not be measured for payment.

Modify Article 280.08 Basis of Payment as follows: This work will shall not be paid for separately but shall be included in the various items of work.

SELECTIVE CLEARING

Description. This section includes removal of invasive brush, shrubs, and vines.

Qualifications. The Contractor's staff completing the work must be capable of identifying plants to be removed and remain to the species level at the time the work occurs. All persons applying herbicide must possess an Illinois Pesticide Applicator's or Operator's license with certifications in the appropriate categories.

General. All invasive woody plants shall be cut flat to within one inch (1") of the surrounding ground surface. All stumps must be treated with an appropriate herbicide within one (1) hour of cutting. Any stump that is not treated within this timeframe must be recut and treated as specified.

Invasive woody plants shall include all species not native to northeastern Illinois, as defined in Flora of the Chicago Region by Wilhelm and Rericha (2017). Some aggressive, weedy native species shall be included. Invasive woody plants include, but not are limited to, those listed below.

Common Name	Botanic Name
Buckthorn	Rhamnus spp.
Honeysuckle	Lonicera spp.
Mulberry	Morus alba
Sandbar Willow	Salix interior
Boxelder	Acer negundo
Silver Maple	Acer saccharinum
Cottonwood	Populus deltoides
Black Locust	Robinia pseudoacacia
Multiflora Rose	Rosa multiflora
Callery Pear	Pyrus calleryana
Grey Dogwood	Cornus racemosa

The Contractor shall be responsible for positively identifying all species before removal, and cooperatively working with the Engineer. Any non-target species tree removed shall be replaced at a 1:1 DBH to caliper ratio as directed by the Engineer and at the Contractor's cost.

This work shall include follow-up maintenance visits to treat any resprouts and/or new seedlings. All maintenance visits must be conducted during the generally recognized growing season while the vegetation is actively growing and not dormant.

Disposal of Cut Woody Vegetation: Cut material shall be chipped, removed from the site, and properly disposed of. Burning of brush piles to dispose of cut material will not be permitted.

Method of Measurement. Selective clearing will not be measured for payment.

Basis of Payment. This work shall not be paid for separately but shall be included in the various items of work.

INTERSEEDING

Description: This work consists of furnishing and planting of native seed into existing vegetative cover. All work shall conform to Section 250 of the Standard Specifications except as modified herein.

Delete Article 250.04 Fertilizer and Agricultural Ground Limestone Application. Fertilizer and agricultural ground limestone are not required.

Modify Article 250.05 Seed Bed Preparation as follows: The Contractor shall submit their interseeding plan to the Engineer for review and approval prior to commencing seed installation.

Add the following to Article 250.06 Seeding Methods: Seed shall be hand broadcast over the soil surface or other method approved by the Engineer.

Add the following to Article 250.07 Seeding Mixtures: All native species must have a genetic provenance within 200 miles of Orland Park, Illinois. In the event one or more species or quantities is not available, the Engineer may approve substitutions. Seed mixtures shall be as follows.

Mesic Prairie Seed Mix

Botanic Name	Common Name	PLS Ounces/Acre	
Andropogon gerardii	Big Bluestem	16.0	
Elymus canadensis	Canada Wild Rye	16.0	
Panicum virgatum	Switch Grass	16.0	
Sorgastrum nutans	Indian Grass	16.0	
Asclepias syriaca	Common Milkweed	3.0	
Coreopsis tripteris	Tall Coreopsis	3.0	
Echinacea pallida	Pale Purple Coneflower	3.0	
Monarda fistulosa	Wild Bergamot	3.0	
Oligoneuron rigidum	Stiff Goldenrod	3.0	
Ratibida pinnata	Yellow Coneflower	3.0	
Symphyotrichum novae-angliae	New England Aster	2.0	

Wet Prairie Seed Mix

Botanic Name	Common Name	PLS Ounces/Acre
Alisma subcordatum	Common Water Plantain	3.0
Helenium autumnale	Sneezeweed	3.0
Juncus torreyi	Torrey's Rush	2.0
Leersia oryzoides	Rice Cut Grass	16.0

Pycnanthemum virginianum	Common Mountain Mint	2.0
Verbena hastata	Blue vervain	4.0

Seeding shall not be conducted when the ground is inundated, snow is present, or the ground is frozen or otherwise unworkable, as determined solely by the Engineer.

Omit Article 250.08 Selective Mowing Stakes. Selective mowing stakes will not be required.

Modify Article 250.09 Method of Measurement as follows: Seeding will be measured for payment in acres of the type specified; plan take-offs or field measurements may be used.

Modify Article 250.10 Basis of Payment as follows: This work will be paid for at the unit price per acre of the specified seed mix.

PERENNIAL PLANTS

Description: This work shall consist of furnishing and installing native perennial plant plugs with herbivory protection. All work shall conform to Section 254 of the Standard Specifications except as modified herein

Modify Article 254.02 Materials as follows: "Plugs" shall include GT-38 trays, nominal 2" x 2" pots in trays of 32, or other approved by the Engineer. Bare root stock will not be accepted. All plants must exhibit healthy vigorous growth at the time of planting.

All perennial plants must have a genetic provenance within 200 miles of Orland Park, Illinois. Final mix and proportions to be submitted to the Engineer for approval prior to planting. In the event one or more species is not available, the Engineer may approve substitutions. Species composition is to be determined at the time of planting.

Perennial Plants, Mesic Prairie Type

Botanic Name	Common Name
Asclepias tuberosa	Butterfly Milkweed
Echinacea pallida	Pale Purple Coneflower
Schizachyrium scoparium	Little Bluestem
Silphium laciniatum	Compass Plant
Sporobolus heterolepis	Prairie Dropseed
Symphyotrichum novae-angliae	New England Aster

Perennial Plants, Wet Prairie Type

Botanic Name	Common Name
Acorus americanus	Sweet Flag
Calamagrostis canadensis	Blue Joint Grass
Carex stricta	Tussock Sedge
Eutrochium maculatum	Spotted Joe Pye Weed

Iris virginica shrevei Blue Flag

Sagittaria latifolia Broadleaf Arrowhead

Add the following to Article 254.05 Layout of Planting and 254.06 Planting Procedures: Perennial plants shall be installed in units of 100 individuals. Perennial plants shall be surrounded and protected by temporary goose fencing to minimize plant loss due to herbivory at the time of planting. Contractor must submit shop drawing of goose cages to the Engineer for review and approval prior to commencement of planting. Contractor shall maintain the temporary goose fencing in a neat and upright condition and shall remove and properly dispose of temporary goose fencing after one year or as directed by the Engineer.

Modify Article 254.07 Mulching: Mulching of plants is not required.

Modify Article 254.08 (b) Period of Establishment: Perennial plants must undergo a 90-day period of establishment. Watering during the period of establishment shall be included in the cost of planting. The Contractor shall keep all perennial planting areas free of weeds during the period of establishment. For any perennial plants installed on or after September 1st, the period of establishment shall extend until June 15th of the following year. Any plants that are not alive, missing, or not possessing suitable vigor as determined solely by the Engineer shall be replaced at no additional cost.

STEWARDSHIP

Description: This work includes long-term management of natural areas after initial ecological restoration has been completed. Goals for stewardship vary per area, and are as follows:

- Right of Way (Stellwagen and Olde Mill)
 - Manage invasive species to limit their spread into adjacent areas
- Mesic Prairie (Stellwagen and Olde Mill)
 - o Increase abundance, density and diversity of native species
 - Reduce presence of invasive species such as Reed Canary Grass (*Phalaris arundinacea*) and Thistle (*Cirsium sp.*)
- Stormwater Management Areas (Olde Mill)
 - Reduce abundance of invasive species, such as Cattails (*Typha sp.*) and Common Reed
 - Increase abundance, density and diversity of native species
- Savanna (Stellwagen)
 - o Increase abundance, density and diversity of native species
 - Reduce presence of non-native and invasive species
 - Preserve planted native trees and shrubs
- Prairie and Savanna (Police Station)
 - o Increase abundance, density and diversity of native species
 - Reduce presence of non-native and invasive species
 - Preserve planted native trees and shrubs

Materials: All materials used during stewardship shall be as per these project special provisions and as approved by the Engineer.

Requirements: The Contractor shall monitor site conditions and implement an adaptive management strategy to promote the growth of desirable native species, control undesirable invasive species, and respond to any other conditions that may negatively impact the ecological benefits and functions and aesthetics of the project sites.

Selective weed control shall be completed where undesirable invasive herbaceous and woody weeds exist or as directed by the Engineer. Weeds shall be controlled by hand cutting, weed whipping, mowing, selective herbicide application, and/or other methods identified by the Contractor and approved by the Engineer.

The Contractor shall monitor and maintain drainage structures free of obstructions that impede flows, potentially cause erosion, or otherwise negatively impact the site. Any debris, sediment, vegetation, etc. that blocks inlets or outlets shall be removed from the site and properly disposed of or disbursed on site with prior approval from the Engineer.

The Contractor shall utilize an Adaptive Management approach, whereby maintenance activities shall be selected, sequenced, and timed in response to field and/or weather conditions observed during Stewardship. Stewardship shall be conducted to ensure the following Performance Criteria are met.

Performance Criteria – Year 1 (2025)

The following performance criteria shall be met by the end of September 2025:

- Minimum seventy percent (70%) total areal vegetative cover by cover crop and/or native species at each site, and at least fifty percent (50%) areal vegetative cover by cover crop and/or native species within any one hundred square feet (100 SF) plot. No ten thousand square feet (10,000 SF) plot shall be singly or collectively dominated by non-native (excluding cover crop) or invasive species including but not limited to Ragweed (*Ambrosia* spp.), Thistle (*Cirsium* spp., *Carduus* spp., or *Sonchus* spp.), Teasel (*Dipsacus* spp.), Foxtail (*Setaria* spp.), Sweet Clover (*Melilotus* spp.), Wild Parsnip (*Pastinaca sativa*), Reed Canary Grass (*Phalaris arundinacea*), Common Reed (*Phragmites australis*), Buckthorn (*Rhamnus* spp.), Honeysuckle (*Lonicera* spp.), Grey Dogwood (*Cornus racemosa*), and other regionally recognized invasive species.
- There shall be no decrease in existing diversity at each site.

Performance Criteria – Year 2 (2026)

The following performance criteria shall be met by September 2026:

 Minimum eighty-five percent (85%) total areal vegetative cover by cover crop and/or native species at each site, and at least seventy-five percent (75%) areal vegetative cover by cover crop and/or native species within any one hundred square feet (100 SF) plot. No five thousand square feet (5,000 SF) plot shall be singly or collectively dominated by nonnative (excluding cover crop) or invasive species including but not limited to Ragweed (Ambrosia spp.), Thistle (Cirsium spp., Carduus spp., or Sonchus spp.), Teasel (Dipsacus spp.), Foxtail (Setaria spp.), Sweet Clover (Melilotus spp.), Wild Parsnip (Pastinaca sativa), Reed Canary Grass (Phalaris arundinacea), Common Reed (Phragmites australis), Buckthorn (Rhamnus spp.), Honeysuckle (Lonicera spp.), Grey Dogwood (Cornus racemosa), and other regionally recognized invasive species.

• There shall be no decrease in existing diversity at each site.

Performance Criteria – Year 3 (2027)

The following performance criteria shall be met by September 2027:

- Minimum ninety percent (90%) total areal vegetative cover by cover crop and/or native species, and ninety-five percent (95%) areal vegetative cover by cover crop and/or native species within any one hundred square feet (100 SF) plot. No twenty-five hundred square feet (2,500 SF) plot shall be singly or collectively dominated by non-native (excluding cover crop) or invasive species including but not limited to Ragweed (Ambrosia spp.), Thistle (Cirsium spp., Carduus spp., or Sonchus spp.), Teasel (Dipsacus spp.), Foxtail (Setaria spp.), Sweet Clover (Melilotus spp.), Wild Parsnip (Pastinaca sativa), Reed Canary Grass (Phalaris arundinacea), Common Reed (Phragmites australis), Buckthorn (Rhamnus spp.), Honeysuckle (Lonicera spp.), Grey Dogwood (Cornus racemosa), and other regionally recognized invasive species.
- There shall be no decrease in existing diversity at each site.

Method of Measurement: Conditions will be visually inspected in the field by the Engineer to determine whether Performance Criteria have been met at the specified intervals, excluding weekends and holidays. Upon notification from the Contractor that all deficiencies have been corrected, the Engineer will reinspect.

Basis of Payment: The first year of Stewardship (2025) will be paid for at the contract lump sum price for Stewardship – Year 1 (2025). Payment will be made according to the following schedule:

- Initial Payment. Upon inspection and determination that Performance Criteria have been met on or after August 1, 2025, sixty percent (60%) of the pay item will be paid.
- Final Payment. Upon inspection and determination that Performance Criteria have been met on or after September 30, 2025, the remaining forty percent (40%) will be paid.

The second year of Stewardship (2026) will be paid for at the contract lump sum price for Stewardship – Year 2 (2026). Payment will be made according to the following schedule:

- Initial Payment. Upon inspection and determination that Performance Criteria have been met on or after August 1, 2026, sixty percent (60%) of the pay item will be paid.
- Final Payment. Upon inspection and determination that Performance Criteria have been met on or after September 30, 2026, the remaining forty percent (40%) will be paid.

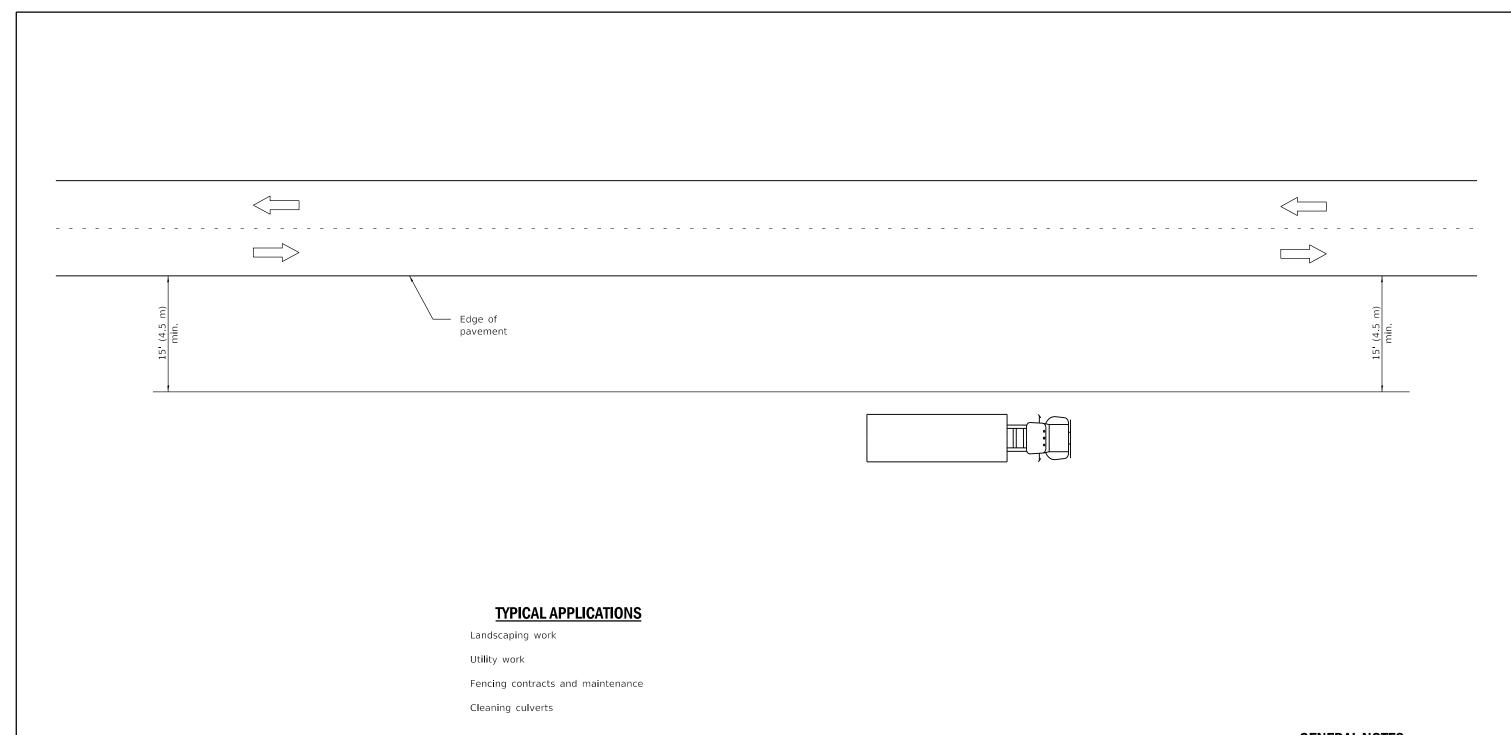
The third year of Stewardship (2027) will be paid for at the contract lump sum price for Stewardship – Year 3 (2027). Payment will be made according to the following schedule:

• Initial Payment. Upon inspection and determination that Performance Criteria have been met on or after August 1, 2027, sixty percent (60%) of the pay item will be paid.

Stellwagen, Olde Mill, and Police Station Natural Area Stewardship Village of Orland Park, Illinois

• Final Payment. Upon inspection and determination that Performance Criteria have been met on or after September 30, 2027, the remaining forty percent (40%) will be paid.

If the contract is extended, the third-year performance criteria shall be maintained.



GENERAL NOTES

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS	
1-1-09	Switched units to	
	English (metric).	
1-1-05	Revised title and notes.	_
		l

OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY

STANDARD 701001-02

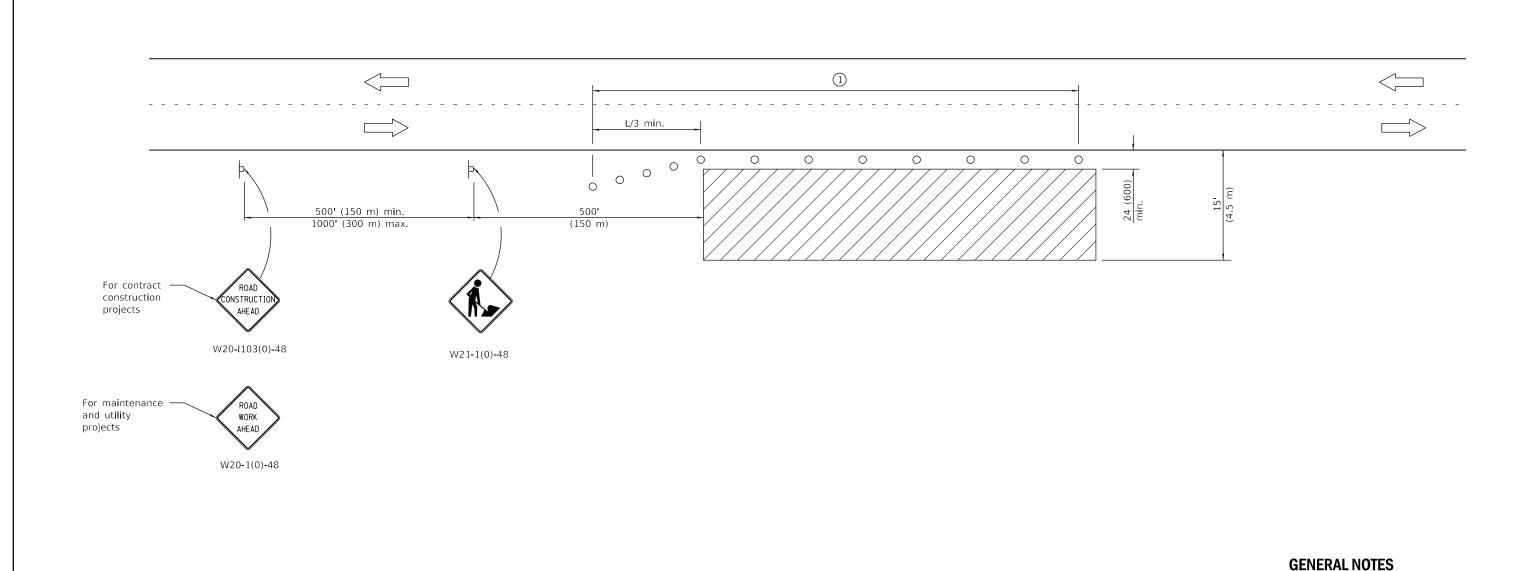
PASSED January 1. 2009
ENGINEER OF OPERATIONS

APPROVED January 1. 2009

APPROVED January 1, 2009

Luc & Wan

ENGINEER OF DESIGN AND ENVIRONMENT



TYPICAL APPLICATIONS

Utility operations Culvert extensions Side slope changes Guardrail installation and maintenance Delineator installation Landscaping operations Shoulder repair Sign installation and maintenance

1 When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

SYMBOLS





Cone, drum or barricade

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT

FORMULAS

English

(Metric) $L = \frac{WS^2}{150}$

or less:

40 mph (70 km/h)

45 mph (80 km/h)

L=(W)(S)

L=0.65(W)(S)

or greater: W = Width of offset

in feet (meters).

S = Normal posted speed mph (km/h).

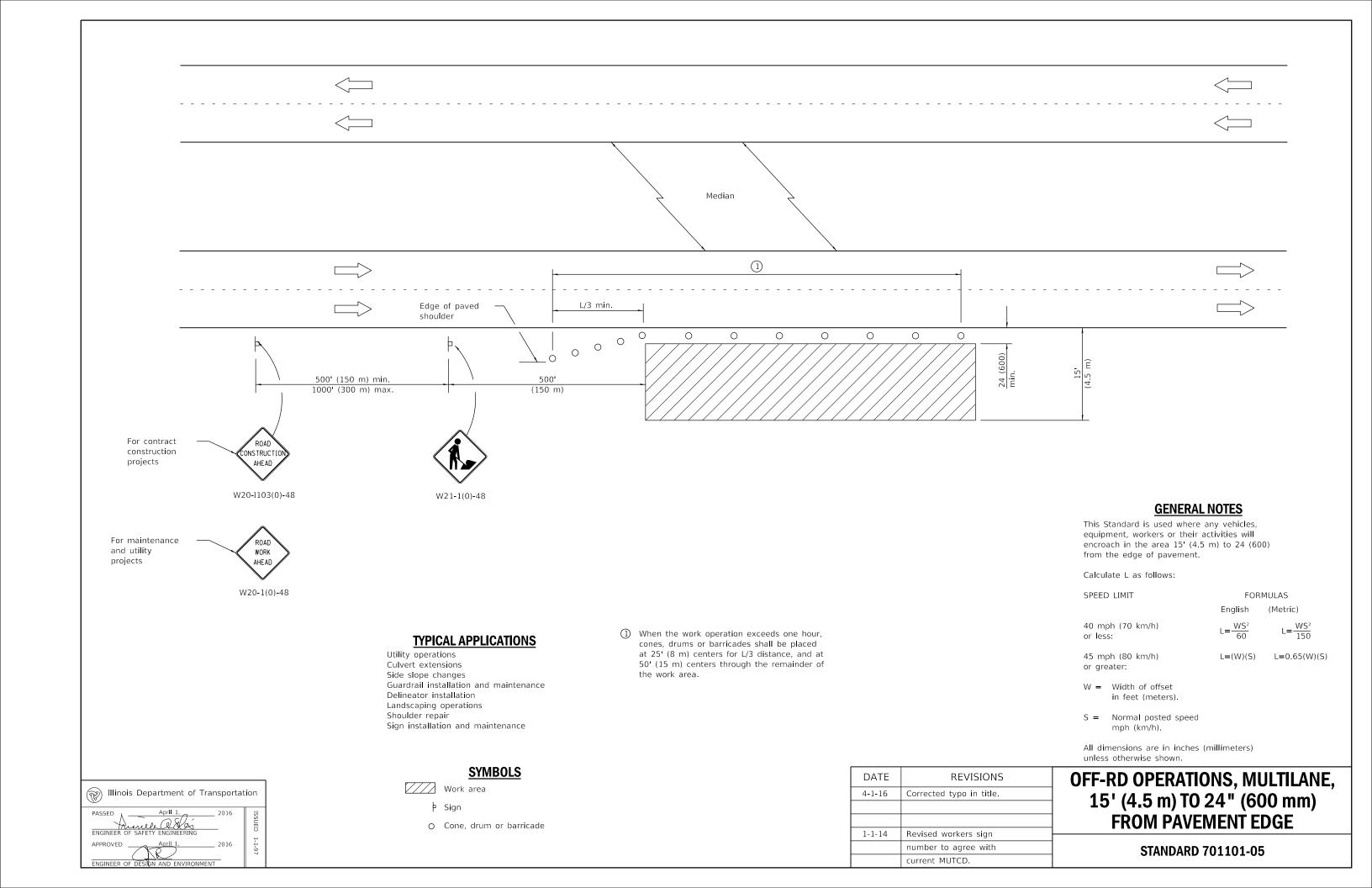
All dimensions are in inches (millimeters) unless otherwise shown.

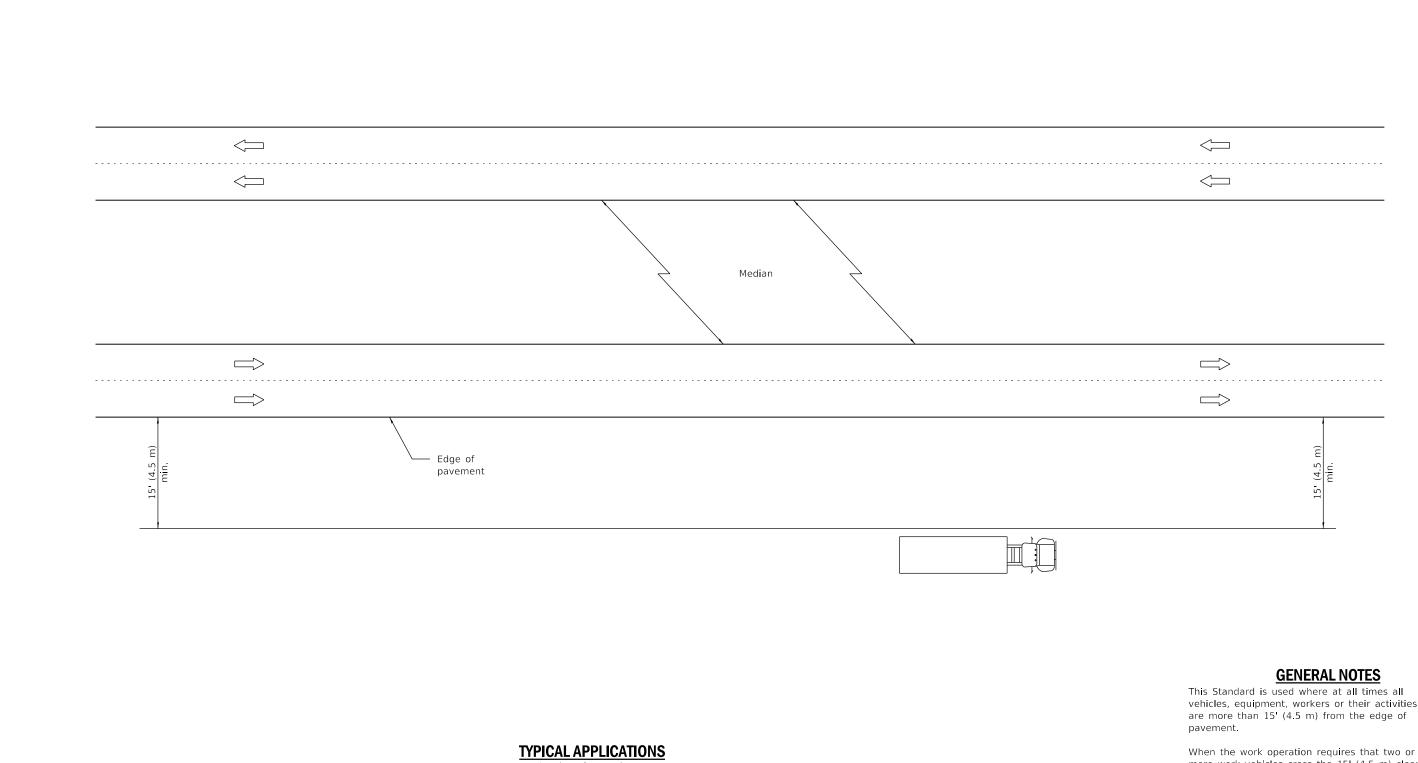
DATE	REVISIONS	
1-1-14	Revised workers sign	
	number to agree with	
	current MUTCD.	
1-1-13	Omitted text 'WORKERS'	_
	sign.	
		l

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05

Illinois Department of Transportation





Utility work Fencing contracts vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of

more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701101.

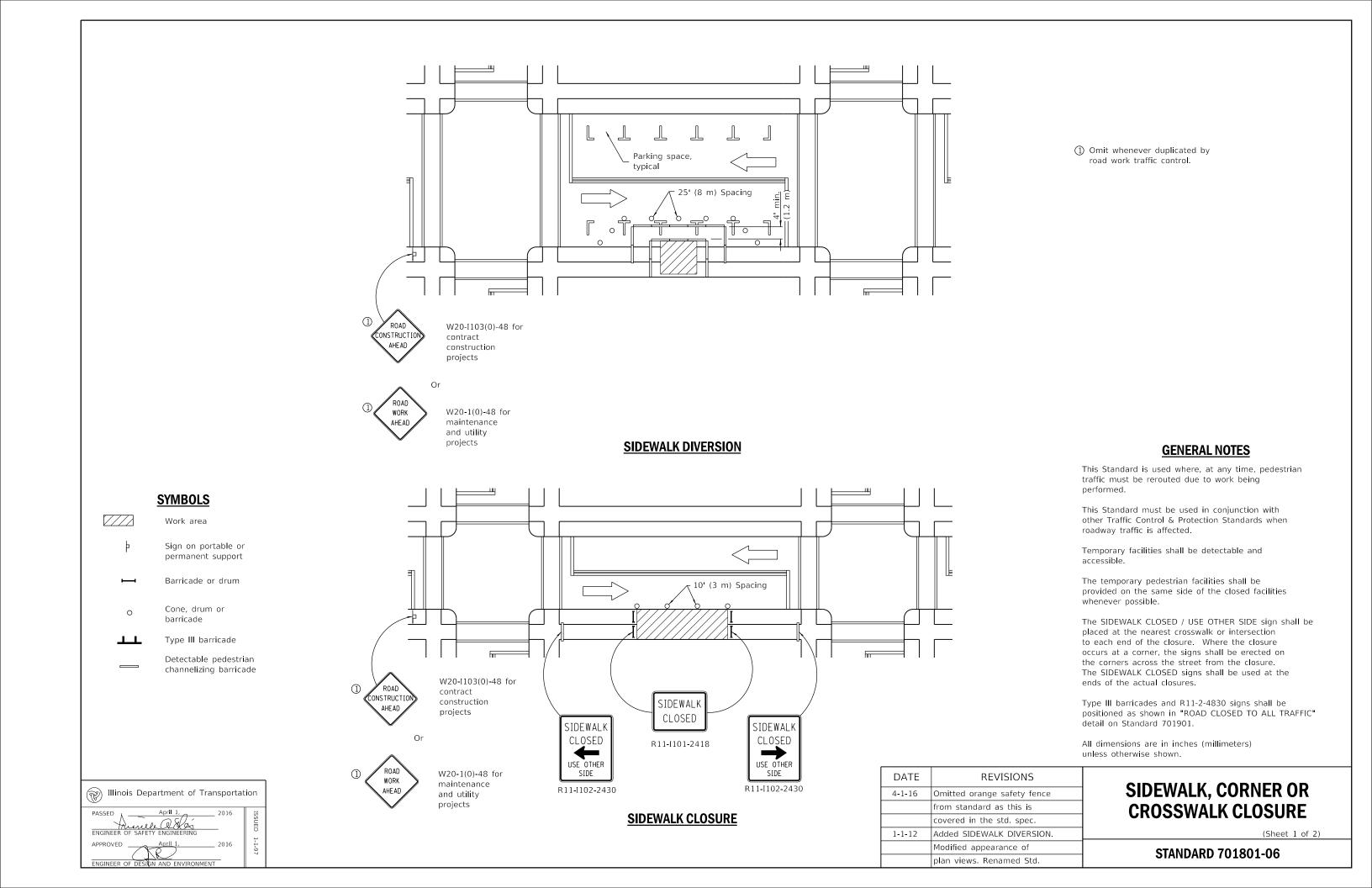
This Standard also applies to work performed in the median more than 15' (4.5 m) from either

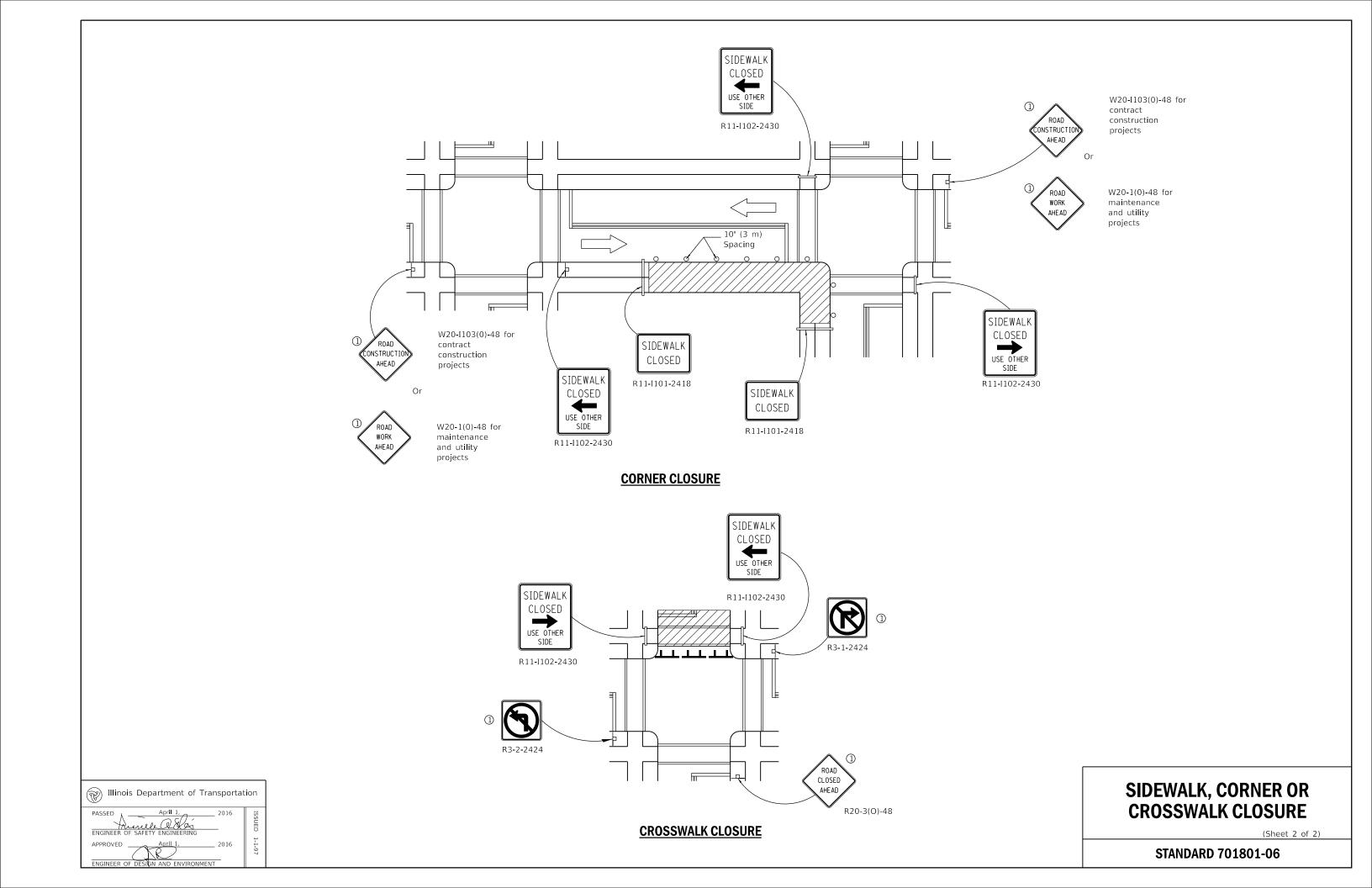
All dimensions are in inches (millimeters) unless otherwise shown.

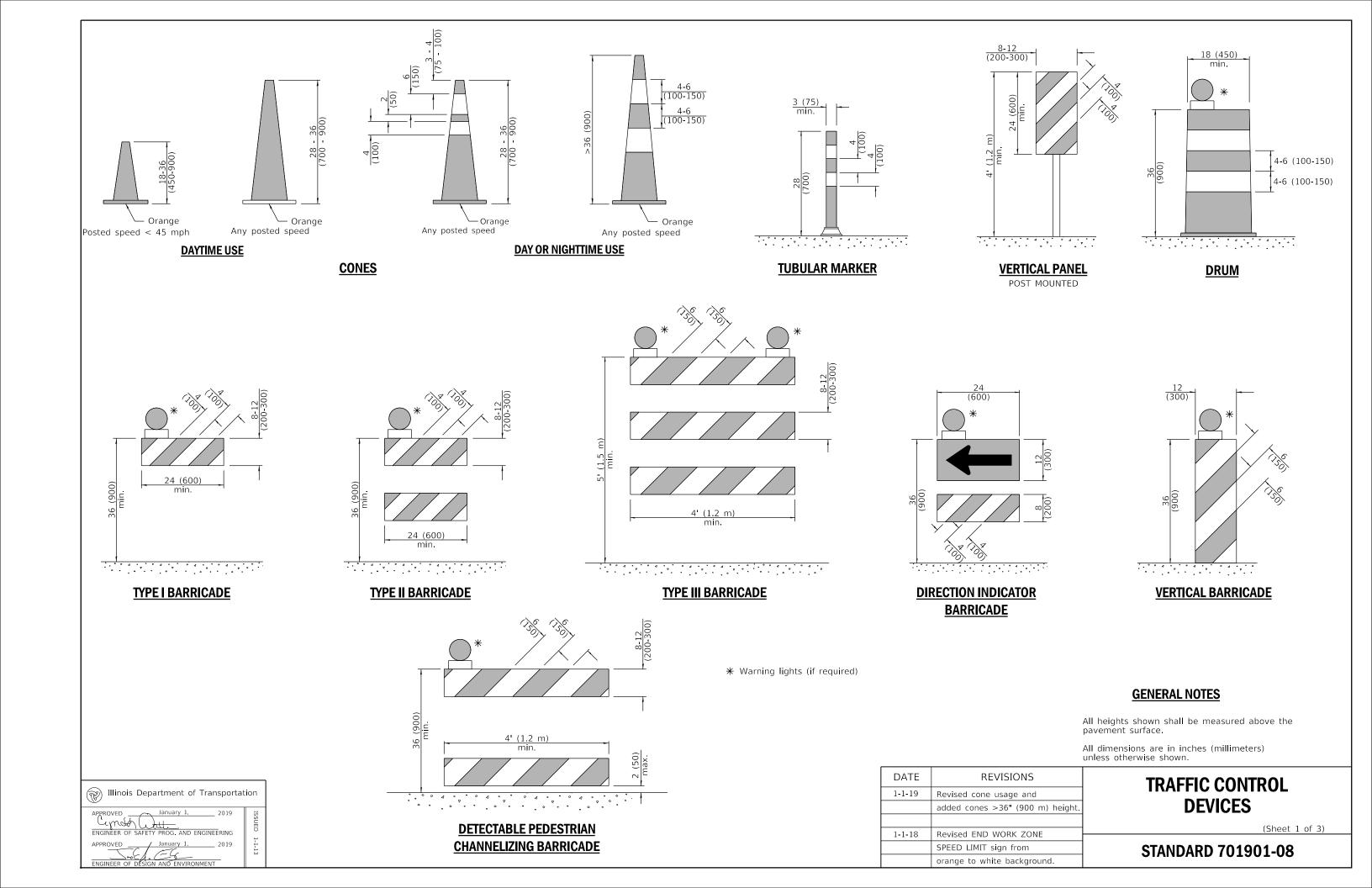
DATE	REVISIONS	
1-1-05	Switched units to	(
	English (metric).	
1-1-05	Revised title.	

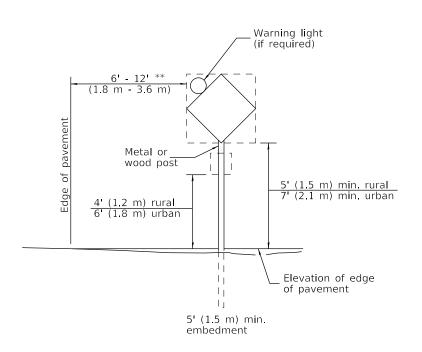
OFF-RD OPERATIONS, MULTILANE, **MORE THAN 15' (4.5 m) AWAY**

STANDARD 701106-02



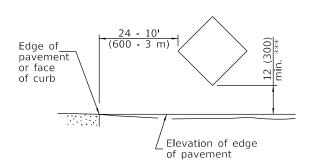






POST MOUNTED SIGNS

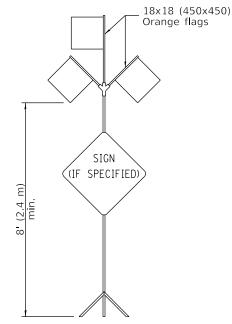
** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.

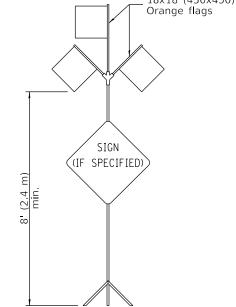
8 (200) Federal series C

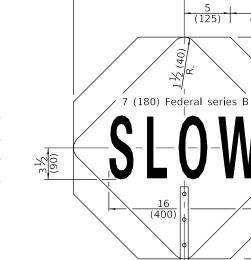


HIGH LEVEL WARNING DEVICE

5 (125)

(175)





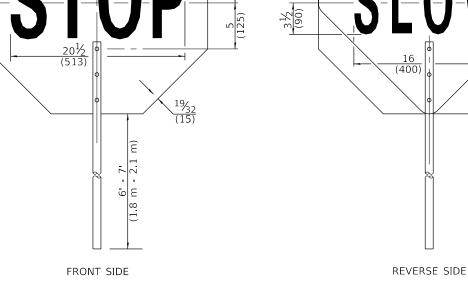
(600)



W12-I103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES

END CONSTRUCTION

G20-I104(0)-6036

G20-I105(0)-6024

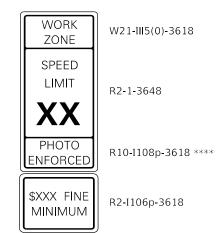
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of pro-

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multilane highways.

WORK LIMIT SIGNING



Sign assembly as shown on Standards or as allowed by District Operations.



This sign shall be used when the above sign assembly is used.

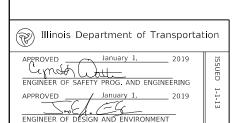
HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the juristiction of the State.

TRAFFIC CONTROL **DEVICES**

(Sheet 2 of 3)

STANDARD 701901-08



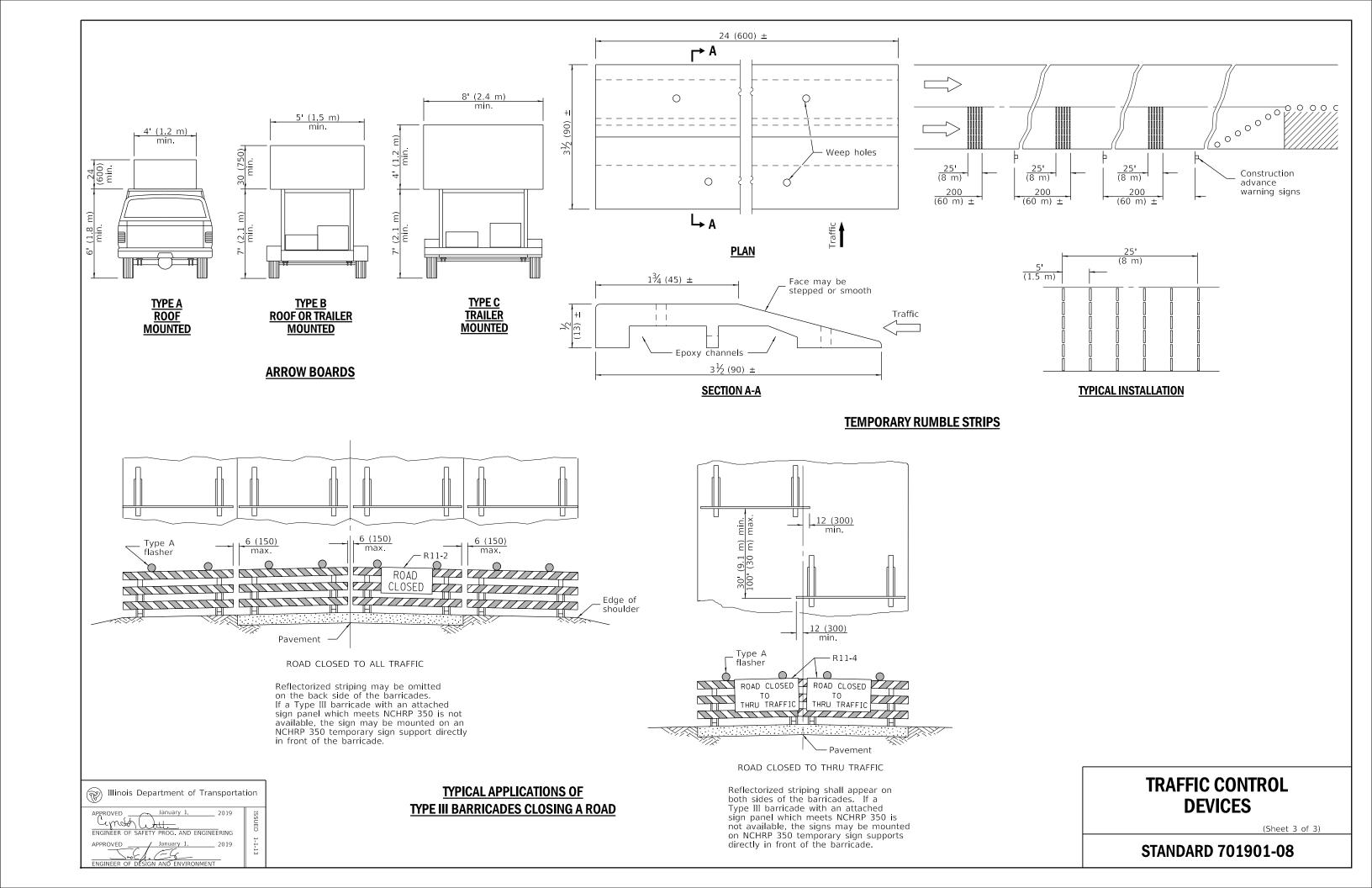


Exhibit C - Police Station Landscape Plans

RFP 24-013 Village Hall & Police Department Landscape Improvements

Orland Park Police Station Landscape Renovation Orland Park, IL

Client:

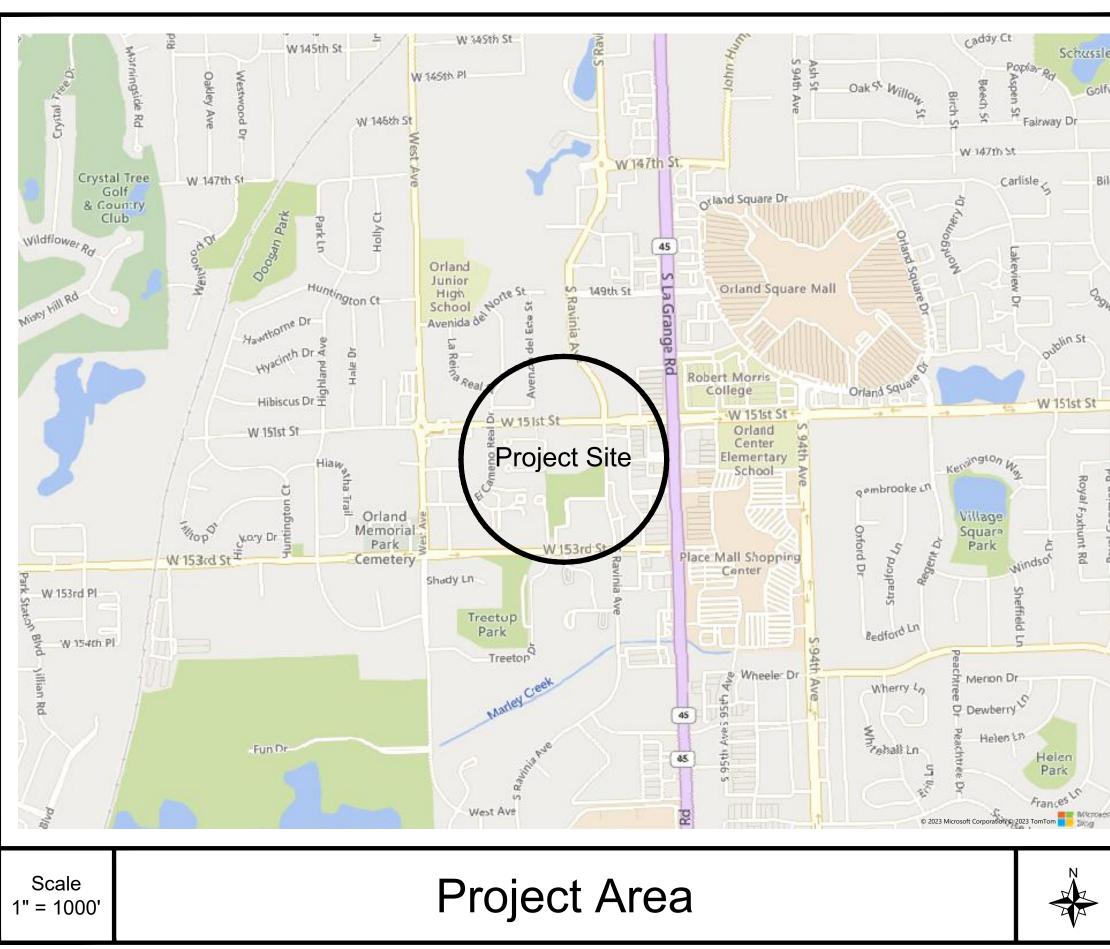
Village of Orland Park

Michael Mazza 14700 Ravinia Ave, Orland Park, IL 60462 Office: 708-403-6119

Engineer:

Hey and Associates, Inc.

8755 West Higgins Road, Suite 835 Chicago, IL 60631 Office (773) 693-9200 Fax (847) 740-2888



Sheet Index:

(Page # / Sheet # / Title)

Demolitions and Removals 2 Demolitions and Removals 3

Demolitions and Removals 4

Landscape Plan Enlargement

Landscape Plan Enlargement 2

Landscape Plan Enlargement 3

Landscape Plan Enlargement 4

Planting Schedule

13. C4.0 **Details**

Cook County Orland Park

PROFESSIONAL SEAL

Tier, Range & Section: T36N, R12E, Sec. 9

No.	Revision/Issue	Date

Hey and Associates, Inc.

Engineering, Ecology and Landscape Architecture 8755 W. HIGGINS ROAD, SUITE 835 CHICAGO, ILLINOIS 60631 Office (773) 693-9200 FAX (847) 740-2888 CHICAGO @ HEYASSOC.COM

> Professional Design Firm License No. 184-002429

Orland Park Police Station Landscape Renovation Orland Park, IL

Cover Sheet

PROJECT NO:	19-0240 V	SHEET NO:
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CHECKED BY	TRP	
APPROVED BY	TRP	PAGE NO:
SSUE DATE	11/13/2023	1 OF 13

GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS

- 1. All construction shall be in accordance with the applicable sections of the following, except as modified herein or on the plans:
- a. "Standard Specifications for Road and Bridge Construction" (Latest Edition), by the Illinois Department of Transportation (SSRBC) and "Supplemental Specifications and Recurring Special Provisions" (Latest Edition) for all improvements except for sanitary sewer, watermain and plumbing construction;
- b. Standard Specifications for Water and Sewer Main Construction in Illinois" (Latest Edition) (SSWS) for sanitary and water main construction;
- c. Village of Orland Park municipal code;
- d. The Metropolitan Water Reclamation District of Greater Chicago (MWRD) Watershed Management Ordinance and Technical Guidance Manual;
- e. Illinois Plumbing Code;
- f. International Mechanical Code;
- g. In case of conflict between the applicable ordinances noted, the more stringent shall take precedence and shall control all construction.
- 2. The Contractor shall examine all plans and specifications, visit the site of the work and inform themself fully with the work involved, general and local conditions, all Federal, State and local laws, ordinances, rules and regulations and all other pertinent items which may affect the cost and time of completion of this project before submitting a proposal.
- 3. Prior to submitting a bid and beginning construction, the Contractor shall verify the lines and grades shown on the plans. If there are any discrepancies from what is shown on the plans, the Contractor shall immediately report them to the Owner prior to performing the work. The Contractor shall be responsible for coordination of work as required.
- 4. Prior to submitting his bid, the Contractor shall call the attention of the Engineer to any material or equipment he deems inadequate and to any item of work omitted.
- 5. Location of above and belowground utilities shown on plans are for information only and represent the best knowledge of the Engineer. Contractor shall make his own investigations as to location and elevation of all utilities, existing underground structures, cables and pipe lines prior to the start of construction operations.
- 6. If existing utility lines of any nature are encountered which conflict in location with new construction, the Contractor shall notify the Engineer and Owner so that the conflict may be resolved.
- 7. The Contractor shall notify the J.U.L.I.E. (811 or 1-800-892-0123) at least ten days prior to construction so that each utility company can stake out any underground improvements that they may have which might interfere with the proposed construction
- 8. The Contractor shall be responsible for providing the necessary protection of all existing private and public utilities in conformance with the affected utility company's requirements as may be required to perform the work. Any utility that is damaged during construction shall be repaired or replaced by the Contractor at their own expense to the satisfaction of the Engineer, Owner and/or utility company.
- 9. The Contractor shall be required to make arrangements for the proper bracing, shoring and other required protection of all roadways, buildings, structures, poles, cables and pipe lines, before construction begins. Contractor shall be responsible for any damage to the site, streets, roadway, structures and shall make repairs as necessary to the satisfaction of the Engineer and Owner at the Contractor's own expense.
- 10. The work performed under this contract shall in no way interfere with the normal operation of any existing utility service. The Contractor shall furnish all necessary items of equipment required to maintain such normal operations at no additional expense to the Owner.
- 11. The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Article 1106 of the SSRBC and the "Standard Specifications for Traffic Control Items".
- 12. The Contractor shall restore any area disturbed outside the construction site to a condition equal to or better than its original use. This shall include finish grading, establishment of a vegetative cover (seeding or sod), general cleanup and pavement
- 13. All new and existing utility structures on site and in areas disturbed during construction shall be adjusted to final grade prior to final inspection. No additional compensation shall be paid and said adjustments shall be considered incidental.
- 14. All trenches caused by the construction of sewers, service sewers, piping, utilities, and the excavation around catch basins, manholes, inlets and other appurtenances which occur within the limits of existing or proposed pavements, sidewalks and curb and gutters or where the edge of the trench shall be within two feet (2') of said improvements shall be backfilled with approved suitable select material and properly
- 15. The Contractor shall be responsible for providing safe and healthful working conditions throughout the construction of the proposed improvements.
- 16. The Contractor shall protect and carefully preserve all section or subsection monuments, lot irons, or other property or reference markers until the Engineer, his agent or an authorized surveyor has witnessed or otherwise referenced their location. Any damages shall be replaced by the Contractor and said cost of replacement shall be paid by the Contractor.
- 17. The Contractor shall provide a written work schedule and shall update said schedule as required. A minimum twenty-four (24) hour notice shall be given for any item that requires approval or inspection.
- 18. The Owner, Owner's Representative, municipality, or regulatory agency shall have the authority to inspect, approve and reject the construction improvements.
- 19. Before acceptance by the Owner and final payment, all work shall be inspected and approved by the Engineer and Owner. Final payments shall be made after all of the Contractor's work has been approved and accepted.
- 20. The Contractor is responsible for coordinating any required inspections with the Owner, Engineer and other agencies.

- 21.If any approved equal items are proposed, the Contractor shall contact the Engineer for written approval prior to use or installation.
- 22. The Engineer and Owner are not responsible for the construction means, methods, techniques, sequences or procedures, time of performance, programs or for any safety precautions used by the Contractor. The Contractor is solely responsible for execution of his work in accordance with the contract documents and specifications.
- 23.Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contractor.
- 24. The Contractor will have in his possession on the job site a copy of the plans and specifications during construction.
- 25. Special attention is drawn to the fact that Article 105.06 of the SSRBC requires the Contractor to have a competent superintendent on the project site at all times, irrespective of the amount of work sublet. The superintendent shall be capable of reading and understanding the plans and specifications, shall have full authority to execute orders to expedite the project, shall be responsible for scheduling and have control of all work as the agent of the Contractor. Failure to comply with this provision will result in a suspension of work as provided in Article 108.07.
- 26.Record drawings shall be kept by the Contractor and submitted to the Engineer within 30 days of completion of the project, or as mutually agreed upon by the Engineer. Final payments to the Contractor shall be held until they are received. Any changes in length, location or alignment shall be shown in red. All wyes or bends shall be located from the downstream manhole.
- 27. The Contractor(s) shall indemnify the Owner, Engineer, Municipality and their agents, etc. from all liability involved with the construction, installation, or testing of work on the project.
- 28. Contractor is responsible for all site layout, including verification of benchmarks provided within the plans. If the Contractor identifies a discrepancy, it shall be brought to the attention of the Engineer immediately. DuPage County is not responsible for any rework on the project required due to improper grade stakes or failure of Contractor to verify existing benchmarks.
- 29. Any modifications of a drainage tile shall comply with the Illinois Drainage Code, and Section 15-77.

PLANT INSTALLATION

- 1. Contractor completing the planting work must submit documentation of prior experience and expertise in this type of work. Submit a minimum of three references, including contact names and phone numbers, that can verify these qualifications.
- 2. Contractor shall provide material certificates for each mix, container, and/or batch, signed by supplier.
- 3. Contractor must submit shop drawings of plant protection fencing (i.e. "goose cages") to Owner for review and approval prior to commencement of any plant installation.
- 4. All plant materials used during this portion of the work shall meet or exceed applicable federal, state, county and local laws and regulations. All seed shall be free from insects and disease. Species shall be true to their botanic name as specified, and shall follow "Plants of the Chicago Region" by F. Swink and G. Wilhelm (1994).
- 5. Contractor shall provide at least one person who shall be present at all times during execution of this portion of the work who shall be thoroughly familiar with the type and operation of equipment, techniques, and materials being used. Said person shall direct all planting work performed.
- 6. All species native to northeastern Illinois shall be of local ecotype, and have a genetic origin within a 150-mile radius of the project site.
- 7. All plants shall be grown nursery stock, at least two years old.
- 8. All plants must be healthy and exhibit vigorous growth. Dormant plant materials will not be permitted.
- 9. Erosion control blanket shall be single net straw such as North American Green S75, or approved equal, except where otherwise noted.
- 10. If area to be seeded or planted was treated with herbicide, seed and plant installation shall occur no less than 14 days after herbicide application.
- 11. Installation of plant material:
- A. Planting must be completed after May 15 but no later than June 30. Planting may be completed outside of this time frame if approved by the Owner.
- B. All plant materials must be approved by the Owner prior to installation.
- C. Deliver plant materials to project site after preparations for planting have been completed. All plants must be packed in such a manner as to ensure adequate protection against wind damage, desiccation, and other physical damage while in transit. Any plant materials damaged in transit will be rejected by the Owner.
- D. If planting is delayed after delivery, keep plants in refrigerated container and/or protect from weather and mechanical damage, and keep moist and cool. Any plants materials damaged during on-site storage will be rejected by the Owner.
- E. Inspect the area to be planted. Ensure topsoil placement and other work preparatory to planting has been completed prior to commencement of planting.
- F. Mark locations of enhancement plantings for approval by Owner prior to installation of plant materials.
- G. Install all plant materials in locations shown on the plans, or as indicated in the field by the Owner. All plant materials shall be adequately healed in to minimize desiccation.
- H. Install plant protection fencing (i.e. "goose cages") immediately after planting.
- I. All plant materials shall be thoroughly watered immediately after installation.
- 12. The work area shall be kept free of debris. After plant installation is complete, clean up any remaining materials, debris, trash, etc. Avoid driving or walking over planted areas
- 13. After work has been completed remove tools, equipment, empty containers, and all other debris accumulated during completion of the work.
- 14. Repair any damages incurred during completion of this work.

LEGEND

Hey and Associates, Inc.

Revision/Issue

Date

Engineering, Ecology and Landscape Architecture 8755 W. HIGGINS ROAD, SUITE 835
CHICAGO, ILLINOIS 60631
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FAX (847) 740-2888
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Professional Design Firm License No. 184-002429

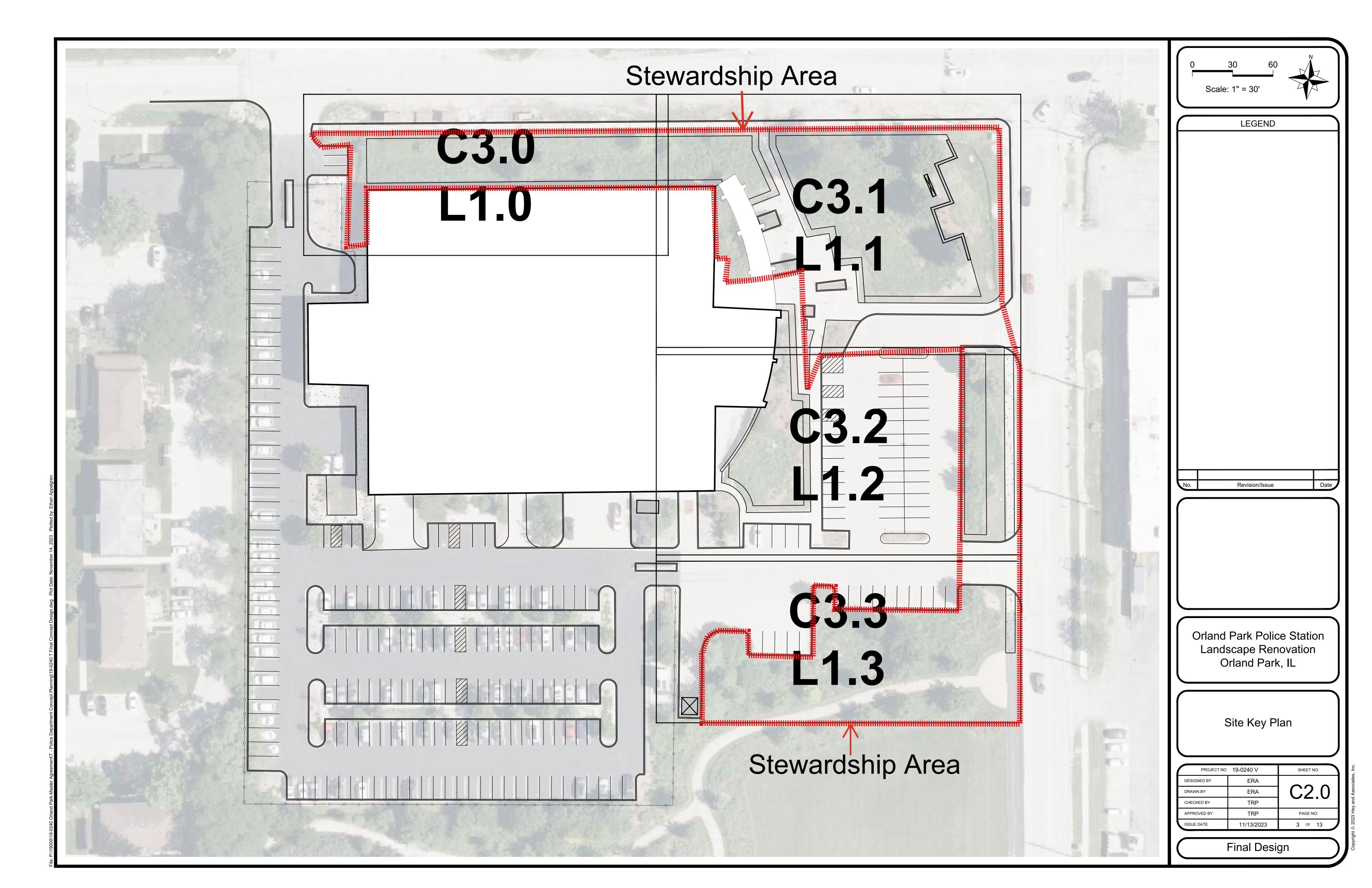
Orland Park Police Station Landscape Renovation Orland Park, IL

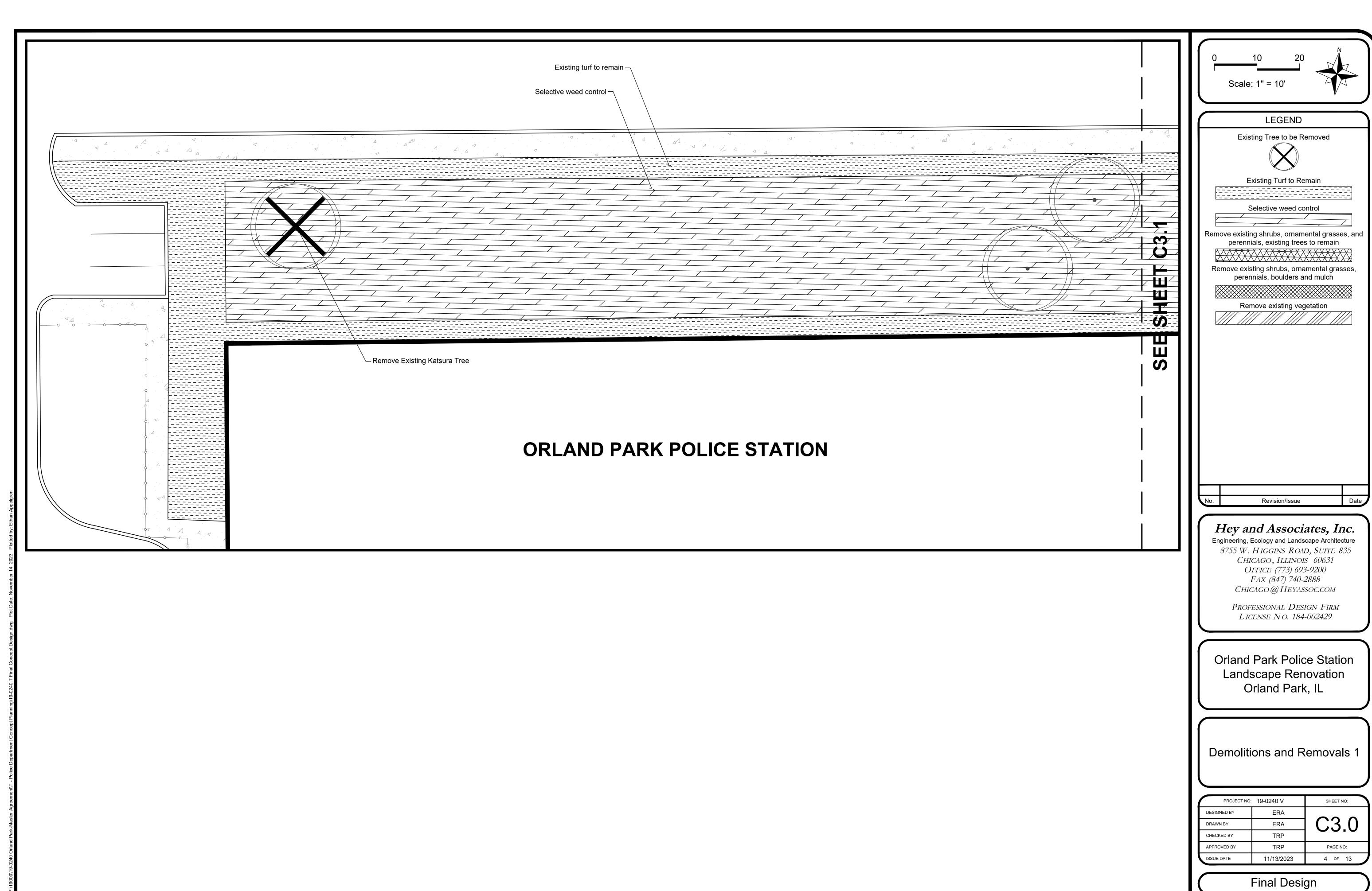
Construction Notes

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APPROVED BY	TRP	PAGE NO:
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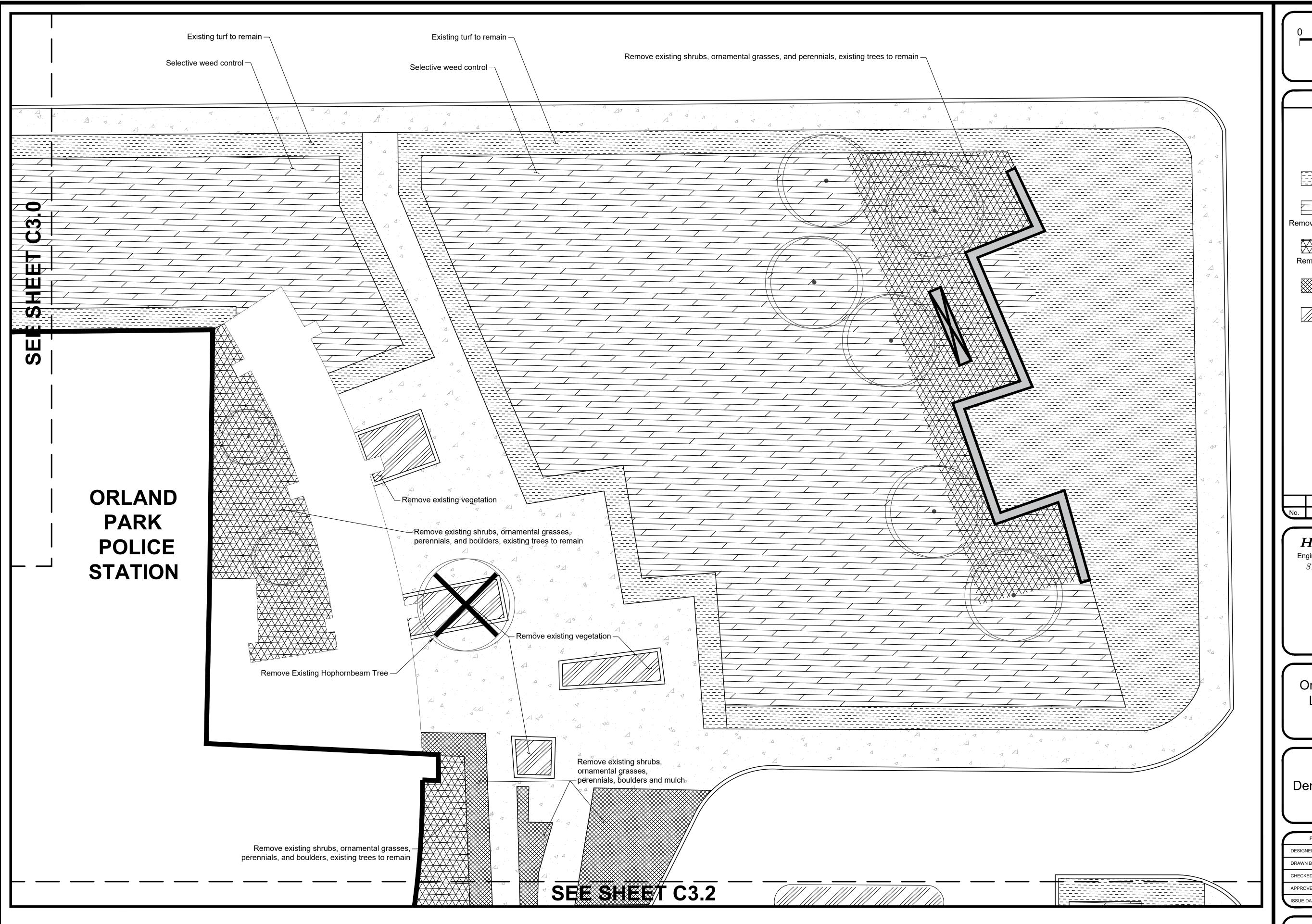
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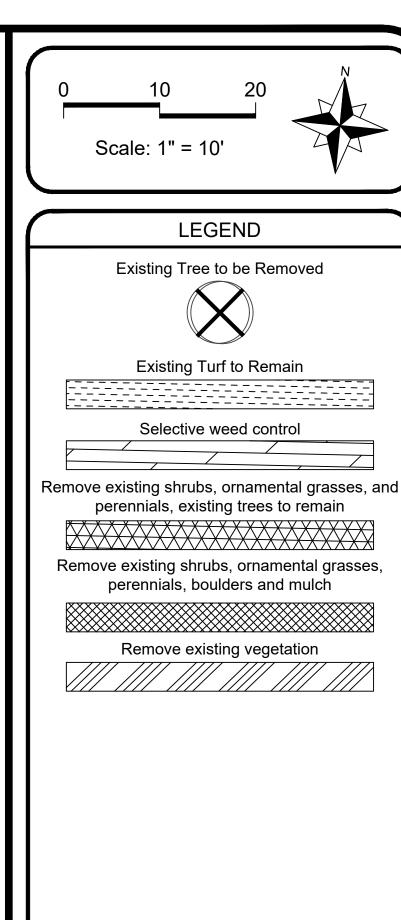
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Revision/Issue

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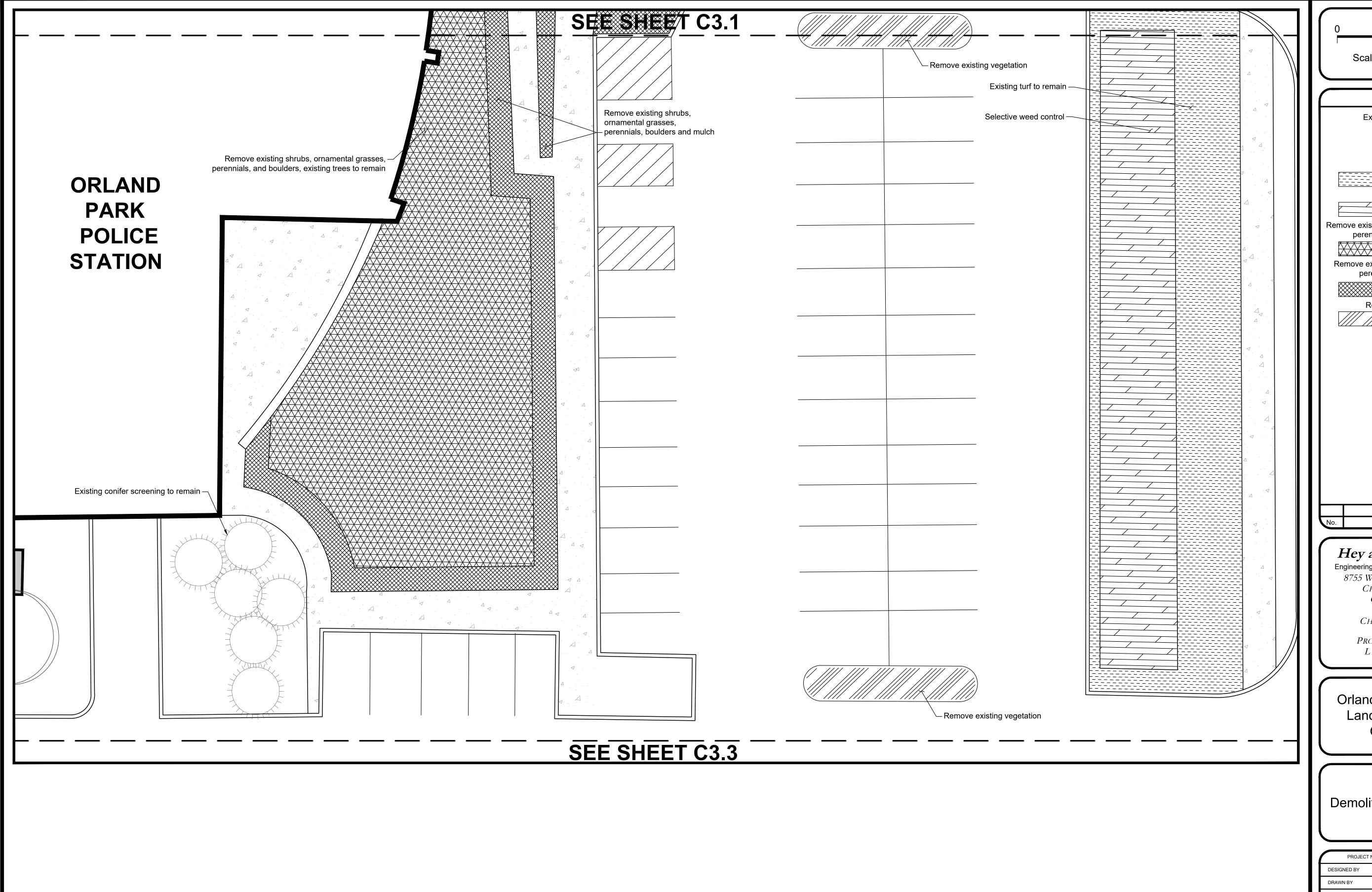
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Engineering, Ecology and Landscape Architecture 8755 W. HIGGINS ROAD, SUITE 835 Chicago, Illinois 60631 Office (773) 693-9200 FAX (847) 740-2888 CHICAGO@HEYASSOC.COM

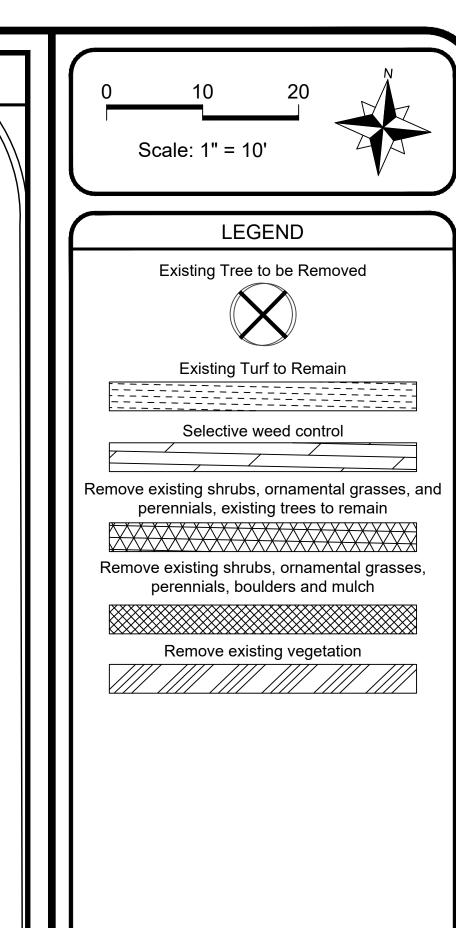
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Orland Park Police Station Landscape Renovation Orland Park, IL

Demolitions and Removals 2

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Revision/Issue

Date

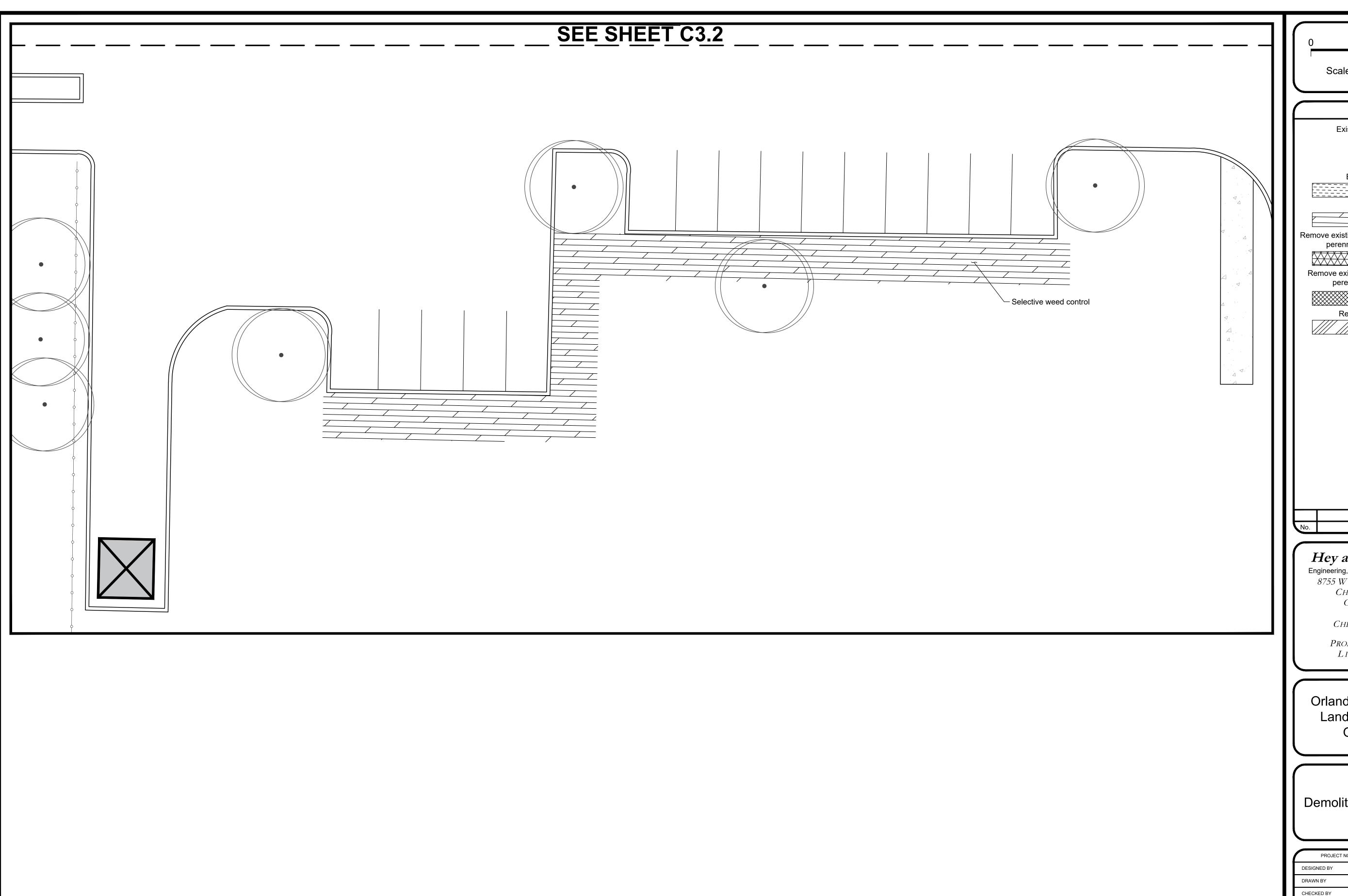
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Orland Park Police Station Landscape Renovation Orland Park, IL

Demolitions and Removals 3

PROJECT NO:	19-0240 V	SHEET NO:
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	•	



LEGEND

Existing Tree to be Removed

Existing Turf to Remain

Selective weed control

Remove existing shrubs, ornamental grasses, and perennials, existing trees to remain

Remove existing shrubs, ornamental grasses, perennials, boulders and mulch

Remove existing vegetation

Date Revision/Issue

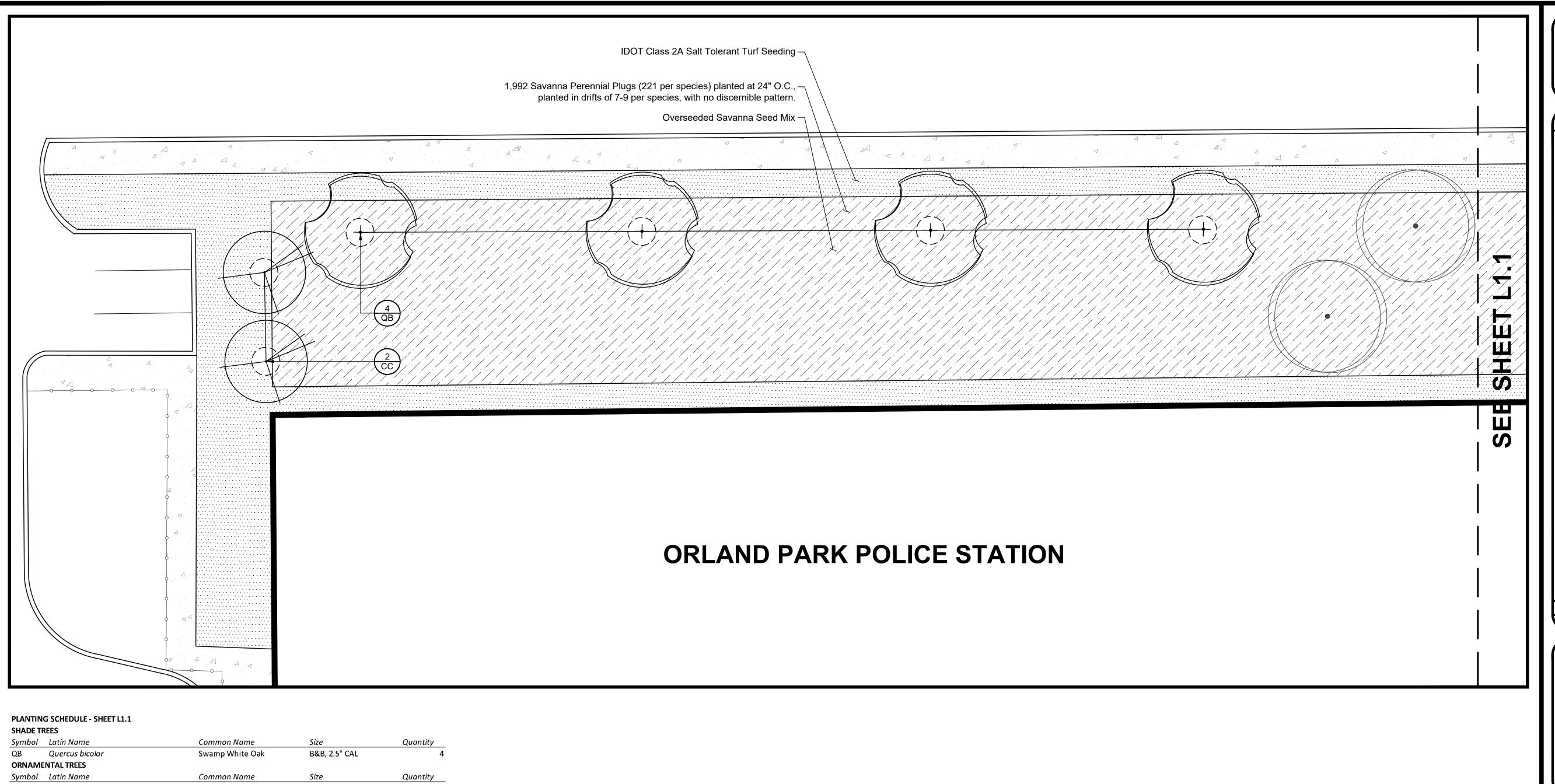
Hey and Associates, Inc.
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CHICAGO @ HEYASSOC.COM

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Orland Park Police Station Landscape Renovation Orland Park, IL

Demolitions and Removals 4

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ISSUE DATE	11/13/2023	7 OF 13



Eastern Redbud

Cercis canadensis

B&B, 6' H

LEGEND Proposed Shrub Proposed Ornamental Tree Proposed Shade Tree **Existing Shade Tree** IDOT Class 2A Salt Tolerant Turf Seeding IDOT Class 2A Salt Tolerant Turf Seeding w/ ECB Overseeded Prairie Seed Mix and Prairie Perennial Plugs Overseeded Savanna Seed Mix and Savanna Perennial Plugs Savanna Perennial Plugs Ornamental Grass Planting Mulch Ring / Bed Date Revision/Issue

Hey and Associates, Inc.

Engineering, Ecology and Landscape Architecture

8755 W. HIGGINS ROAD, SUITE 835

CHICAGO, ILLINOIS 60631

OFFICE (773) 693-9200

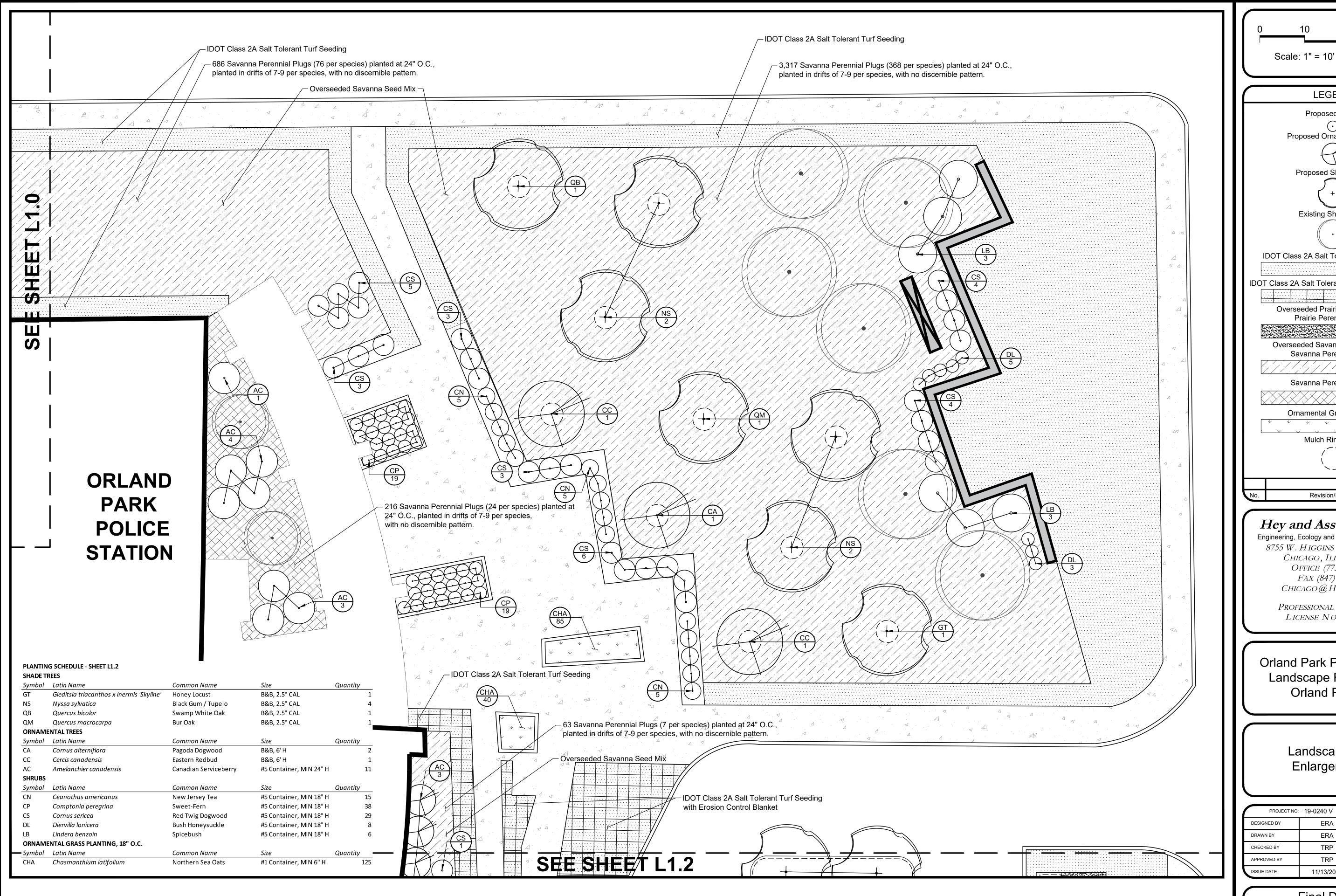
FAX (847) 740-2888 CHICAGO@HEYASSOC.COM

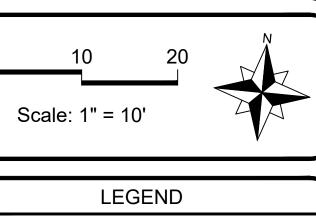
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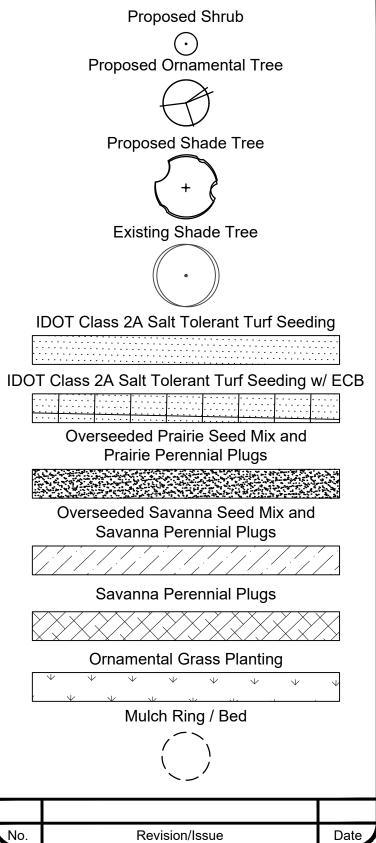
Orland Park Police Station Landscape Renovation Orland Park, IL

> Landscape Plan Enlargement 1

PROJECT NO: 19-0240 V		SHEET NO:		
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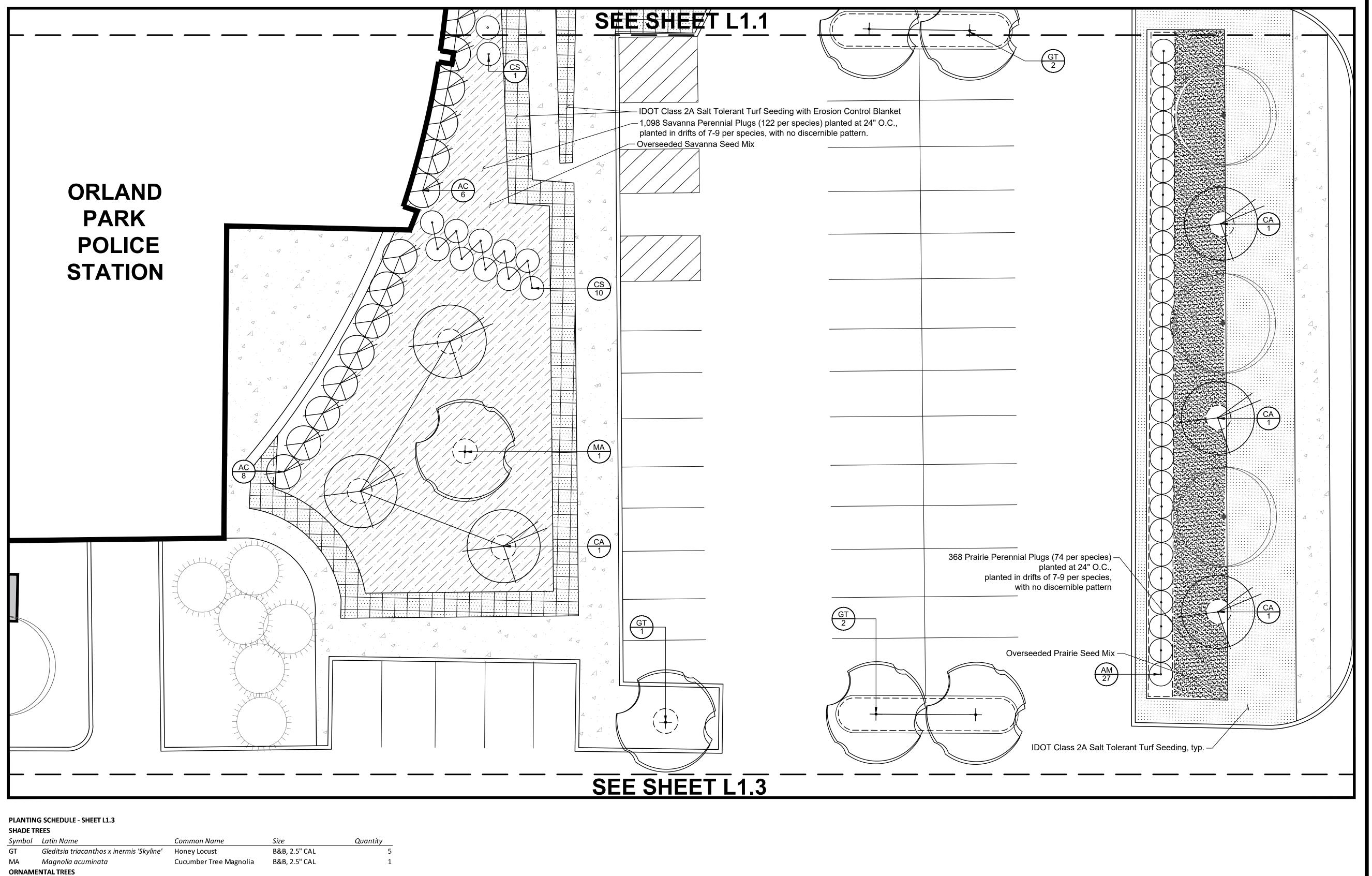
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Orland Park Police Station Landscape Renovation Orland Park, IL

> Landscape Plan Enlargement 2

DESIGNED BY	ERA	
DRAWN BY	ERA	│
CHECKED BY	TRP	
APPROVED BY	TRP	PAGE NO:
ISSUE DATE	11/13/2023	9 OF 13



Common Name

Common Name

Black Chokeberry

Red Twig Dogwood

Pagoda Dogwood Canadian Serviceberry

Cornus alterniflora

Aronia melanocarpa

Cornus sericea

SHRUBS

Amelanchier canadensis

Quantity

Quantity

B&B, 6' H

#5 Container, MIN 24" H

#5 Container, MIN 18" H

#5 Container, MIN 18" H

LEGEND Proposed Shrub **Proposed Ornamental Tree** Proposed Shade Tree **Existing Shade Tree** IDOT Class 2A Salt Tolerant Turf Seeding IDOT Class 2A Salt Tolerant Turf Seeding w/ ECB Overseeded Prairie Seed Mix and Prairie Perennial Plugs Overseeded Savanna Seed Mix and Savanna Perennial Plugs Savanna Perennial Plugs Ornamental Grass Planting Mulch Ring / Bed

Revision/Issue

Date

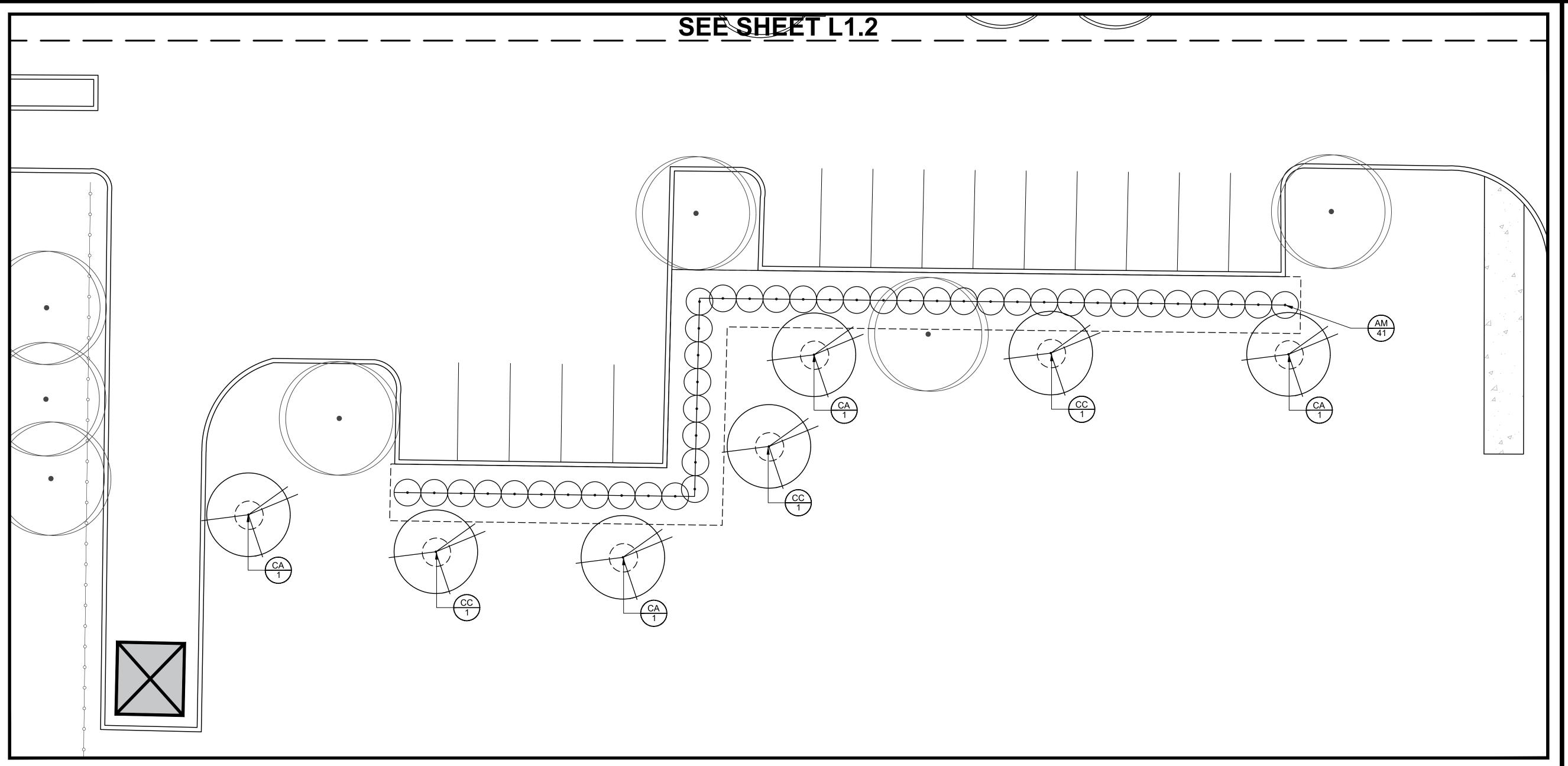
Hey and Associates, Inc.
Engineering, Ecology and Landscape Architecture 8755 W. HIGGINS ROAD, SUITE 835 Chicago, Illinois 60631 Office (773) 693-9200 FAX (847) 740-2888 CHICAGO @ HEYASSOC.COM

> Professional Design Firm License No.~184-002429

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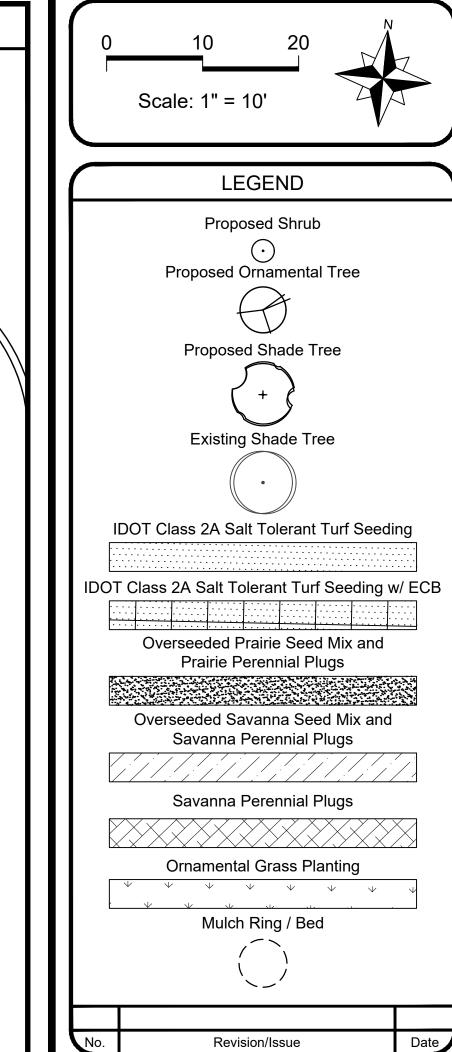
> Landscape Plan Enlargement 3

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OMINAINIE	INTAL TREES			
Symbol	Latin Name	Common Name	Size	Quantit
CA	Cornus alterniflora	Pagoda Dogwood	B&B, 6' H	
CC	Cercis canadensis	Eastern Redbud	B&B, 6' H	
SHRUBS				
Symbol	Latin Name	Common Name	Size	Quantit
AM	Aronia melanocarpa	Black Chokeberry	#5 Container, MIN 18" H	



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Landscape Plan Enlargement 4

PROJECT NO. 19-0240 V		SHEET NO:
DESIGNED BY	ERA	
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Latin Name	- Common Name	Oz/Acre
Allium cernuum	Nodding Onion	6
Amorpha canescens	Leadplant	2.5
Asclepias tuberosa	Butterfly Weed	1.5
Symphyotrichum azureus	Sky Blue Aster	1.5
Symphyotrichum laeve	Smooth Blue Aster	1.5
Symphyotrichum novae-angliae	New England Aster	0.5
Chamaecrista fasciculata	Patridge Pea	10
Coreopsis palmata	Prairie Coreopsis	6
Dalea candida	White Prairie Clover	4
Dale purpurea	Purple Prairie Clover	3
Echinacea pallida	Pale Purple Coneflower	2.5
Echinacea purpurea	Purple Coneflower	6
Eryngium yuccifolium	Rattlesnake Master	3
Heliopsis helianthoides	Early Sunflower	10
Liatris pycnostachya	Prairie Blazing Star	2.5
Monarda fistulosa	Wild Bergamot	1.5
Penstemon digitalis	Foxglove Beard Tongue	0.5
Potentilla arguta	Prairie Cinquefoil	0.2
Pycnanthemum virginianum	Mountain Mint	0.2
Ratibida pinnata	Yellow Coneflower	4
Rudbeckia hirta	Black-Eyed Susan	2.5
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	2
Silphium laciniatum	Compass Plant	0.5
Solidago speciosa	Showy Goldenrod	1
Tradescantia ohiensis	Ohio Spiderwort	1.5
Veronicastrum virginicum	Culver's Root	0.1
Grasses, Sedges and Rushes	_	
Latin Name	Common Name	Oz/Acre
Bouteloua curtipendula	Side Oats Grama	42
Carex bicknellii	Copper-Shouldered Ova	1
Elymus canadensis	Canada Wild Rye	32
Elymus virginicus	Virginia Wild Rye	32
Koeleria cristata	June Grass	2
Schizachyrium scoparium	Little Bluestem	32
	Total Oz/Acre	215.5

Forbs Latin Name	— Common Name	07/4000
Agastache scrophulariaefolia	Purple Giant Hyssop	Oz/Acre
Allium cernuum	Nodding Onion	
Aquilegia canadensis	Wild Columbine	1.5
Symphyotrichum laeve	Smooth Blue Aster	Д.,
Chamaecrista fasciculata	Partridge Pea	1:
Coreopsis lanceolata	Lance-Leaf Coreopsis	
Coreopsis lanceolata Coreopsis palmata	Prairie Coreopsis	1.
Echinacea pallida	Pale Purple Coneflower	1.
Eupatorium purpureum	Purple Joe Pye Weed	0.7
Heliopsis helianthoides	Early Sunflower	0.7
Kuhnia eupatorioides	False Boneset	1
Monarda fistulosa	Wild Bergamot	1.
Penstemon digitalis	Foxglove Beard Tongue	1.
Ratibidia pinnata	Yellow Coneflower	
Rudbeckia hirta	Black-Eyed Susan	
Solidago speciosa	Showy Goldenrod	0.7
Tradescantia ohiensis	Ohio Spiderwort	0.7
Veronicastrum virginicum	Culver's Root	0.
Zizia aurea	Golden Alexanders	U.
Grasses, Sedges and Rushes	Golden Alexanders	
Latin Name	— Common Name	Oz/Acre
Bouteloua curtipendula	Side Oats Grama	1
Bromus ciliatus	Fringed Brome	_
Bromus kalmii	Prairie Brome	1
Elymus canadensis	Canada Wild Rye	6
Elymus villosus	Silky Wild Rye	1
Hystrix patula	Bottlebrush Grass	1
Schizachyrium scoparium	Little Bluestem	_
Sorghastrum nutans	Indian Grass	1
	TOTAL OZ/ACRE	210.

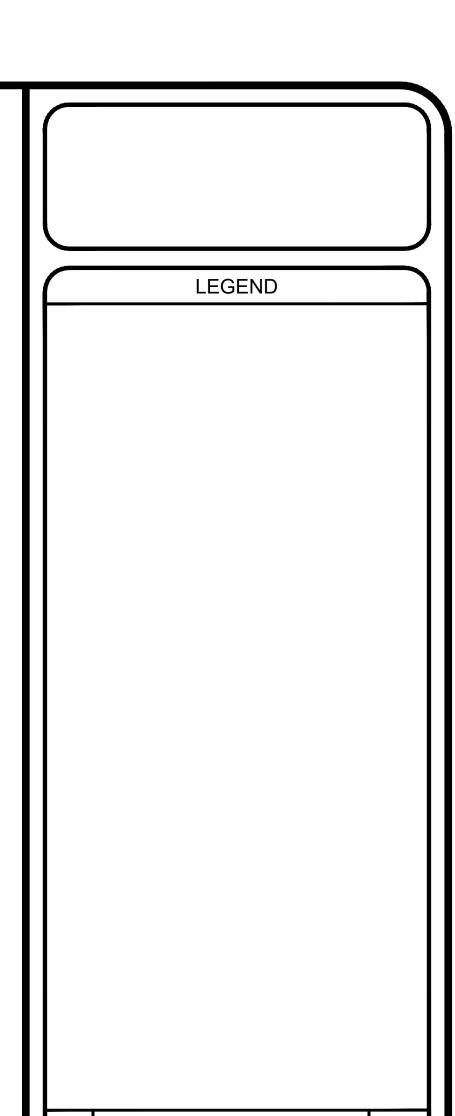
	G SCHEDULE			
SHADE TE		C 4/	C '	0 1"
Symbol	Latin Name	Common Name	Size	Quantity
GT	Gleditsia triacanthos x inermis 'Skyline'	Honey Locust	B&B, 2.5" CAL	
MA	Magnolia acuminata	Cucumber Tree Magnolia	B&B, 2.5" CAL	
NS	Nyssa sylvatica	Black Gum / Tupelo	B&B, 2.5" CAL	
QB	Quercus bicolor	Swamp White Oak	B&B, 2.5" CAL	
QM	Quercus macrocarpa	Bur Oak	B&B, 2.5" CAL	
	INTAL TREES			
Symbol	Latin Name	Common Name	Size	Quantity
CA	Cornus alterniflora	Pagoda Dogwood	B&B, 6' H	
CC	Cercis canadensis	Eastern Redbud	B&B, 6' H	
AC	Amelanchier canadensis	Canadian Serviceberry	#5 Container, MIN 24" H	
SHRUBS				
Symbol	Latin Name	Common Name	Size	Quantity
AM	Aronia melanocarpa	Black Chokeberry	#5 Container, MIN 18" H	
CN	Ceanothus americanus	New Jersey Tea	#5 Container, MIN 18" H	
CP	Comptonia peregrina	Sweet-Fern	#5 Container, MIN 18" H	
CS	Cornus sericea	Red Twig Dogwood	#5 Container, MIN 18" H	
DL	Diervilla lonicera	Bush Honeysuckle	#5 Container, MIN 18" H	
LB	Lindera benzoin	Spicebush	#5 Container, MIN 18" H	
ORNAME	NTAL GRASS PLANTING, 12" O.C.			
Symbol	Latin Name	Common Name	Size	Quantity
CHA	Chasmanthium latifolium	Northern Sea Oats	#1 Container, MIN 6" H	2
SAVANN	A PERNNIAL PLUGS, 24" O.C.			
Symbol	Latin Name	Common Name	Size	Quantity
ASP	Asclepias purpurescens	Purple Milkweed	Plant Plug, 2" dia., 4" ht.	8
CAR	Carex pensylvanica	Oak Sedge	Plant Plug, 2" dia., 4" ht.	8
ECH	Echinacea pallida	Pale Purple Coneflower	Plant Plug, 2" dia., 4" ht.	8
ERA	Eragrostis spectabilis	Purple Love Grass	Plant Plug, 2" dia., 4" ht.	8
GER	Geranium maculatum	Wild Geranium	Plant Plug, 2" dia., 4" ht.	8
KOE	Koeleria macrantha	June Grass	Plant Plug, 2" dia., 4" ht.	8
LIA	Liatris aspera	Rough Blazing Star	Plant Plug, 2" dia., 4" ht.	8
PAN	Panicum virgatum	Switch Grass	Plant Plug, 2" dia., 4" ht.	8
PEN	Penstemon digitalis	Foxglove Beard Tongue	Plant Plug, 2" dia., 4" ht.	8
PRAIRIE F	PERNNIAL PLUGS, 24" O.C.			
Symbol	Latin Name	Common Name	Size	Quantity
DES	Desmodium canadense	Showy Tick-Trefoil	Plant Plug, 2" dia., 4" ht.	<u> </u>
MON	Monarda fistulosa	Wild Bergamot	Plant Plug, 2" dia., 4" ht.	
PAN	Panicum virgatum	Switch Grass	Plant Plug, 2" dia., 4" ht.	
SPO	Sporobolus hererolepis	Prairie Dropseed	Plant Plug, 2" dia., 4" ht.	
SCH	Schizachyrium scoparium	Little Bluestem	Plant Plug, 2" dia., 4" ht.	
3CH	Schizach yhann Scopanan			

OVERSEEDED SAVANNA SEED MIX

OVERSEEDED PRAIRIE SEED MIX

2950 SQ. YD.

157 SQ. YD.



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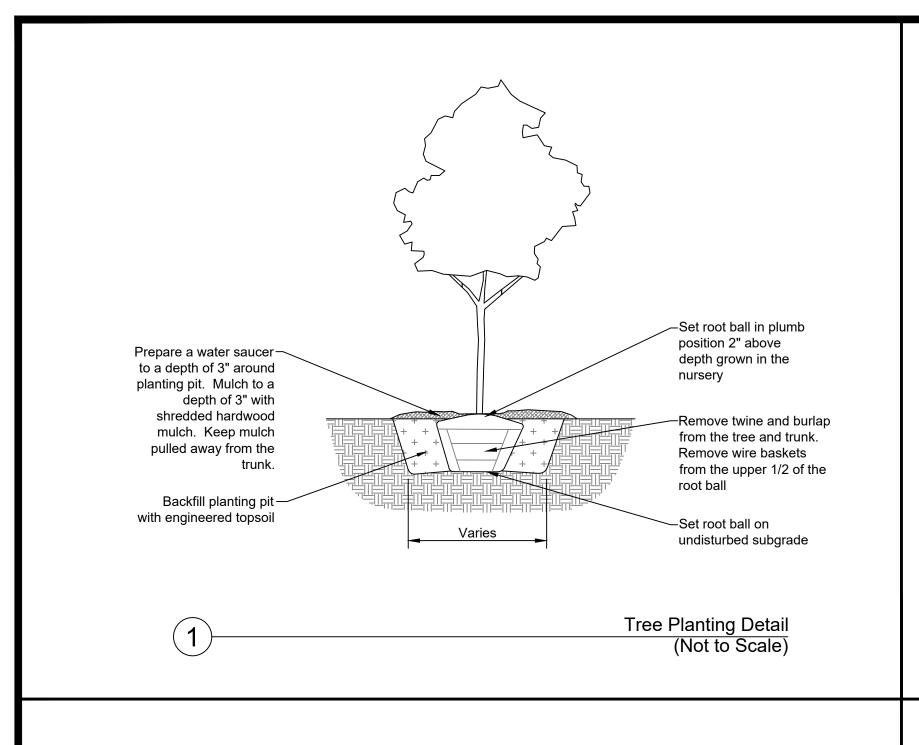
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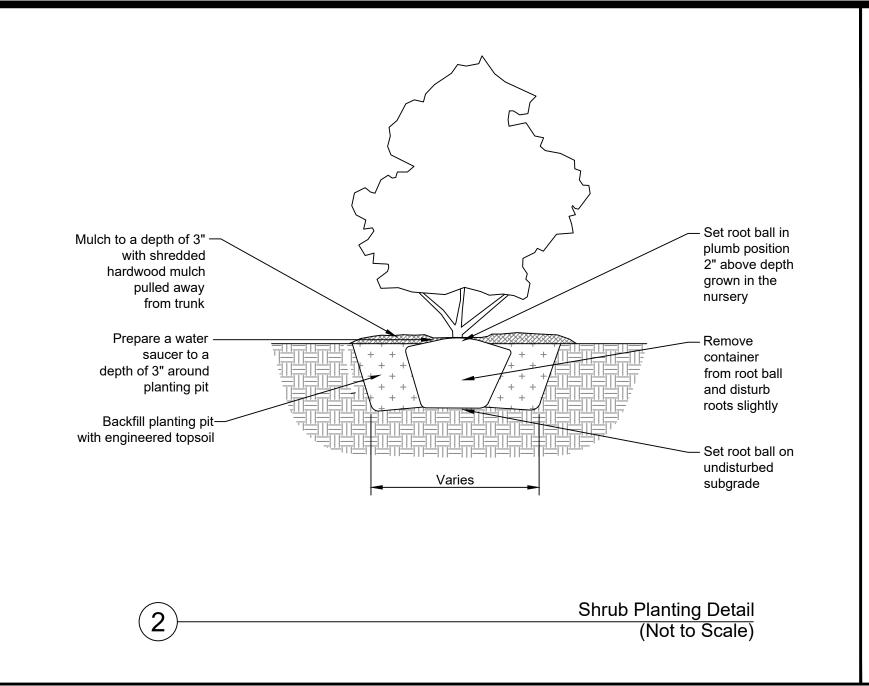
Seed Mixes and Planting Schedule

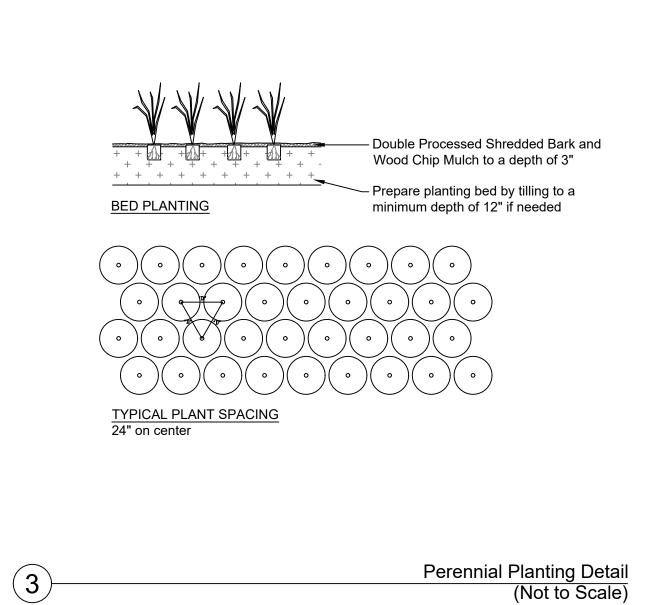
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Final Design

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Scale bar measures 1" at full scale

LEGEND

Date Revision/Issue

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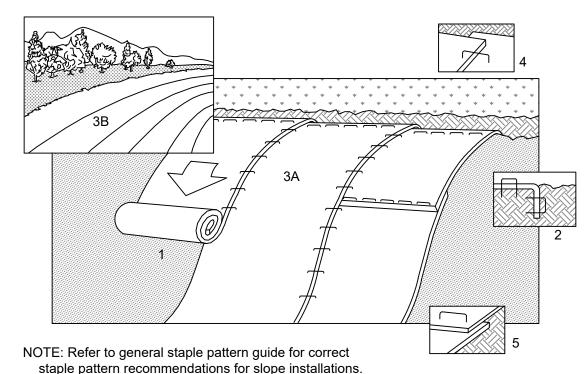
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Orland Park Police Station Landscape Renovation Orland Park, IL

Details

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SUE DATE	11/13/2023	13 OF 13

Final Design



- staple pattern recommendations for slope installations.
- 1. Prepare soil before installing blankets, including application of lime, fertilizer, and seed. Note: when using Cell-O-Seed do not seed prepared area. Cell-O-Seed must be installed with paper side down.
- 2. Begin at the top of the slope by anchoring the blanket in 6" deep x 6" wide trench. Backfill and compact the trench after stapling.
- 3. Roll the blankets (A.) down or (B.) horizontally across the slope.
- 4. The edges of parallel blankets must be stapled with approximately 2" overlap.
- 5. When blankets must be spliced down the slope, place blankets end over end (shingle style) with approximately 4" overlap. Staple through overlapped area, approximately 12"

Erosion Control Blanket Detail (Not to Scale)