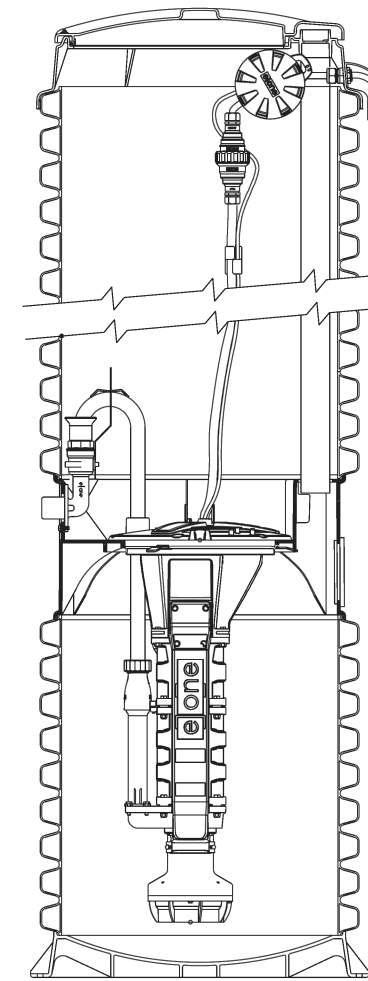




DH071/DR071



General Features

The model DH071 or DR071 grinder pump station is a complete unit that includes: the grinder pump, check valve, HDPE (high density polyethylene) tank, controls, and alarm panel. A single DH071 or DR071 is a popular choice for one, average single-family home and can also be used for up to two average single-family homes where codes allow and with consent of the factory.

- Rated for flows of 700 gpd (2650 lpd)
- 70 gallons (265 liters) of capacity
- Indoor or outdoor installation
- Standard outdoor heights range from 61 inches to 160 inches

The DH071 is the "hardwired," or "wired," model where a cable connects the motor controls to the level controls through watertight penetrations.

The DR071 is the "radio frequency identification" (RFID), or "wireless," model that uses wireless technology to communicate between the level controls and the motor controls.

Operational Information

Motor

1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

Inlet Connections

4-inch inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

Discharge Connections

Pump discharge terminates in 1.25-inch NPT female thread. Can easily be adapted to 1.25-inch PVC pipe or any other material required by local codes.

Discharge

15 gpm at 0 psig (0.95 lps at 0 m)
11 gpm at 40 psig (0.69 lps at 28 m)
7.8 gpm at 80 psig (0.49 lps at 56 m)

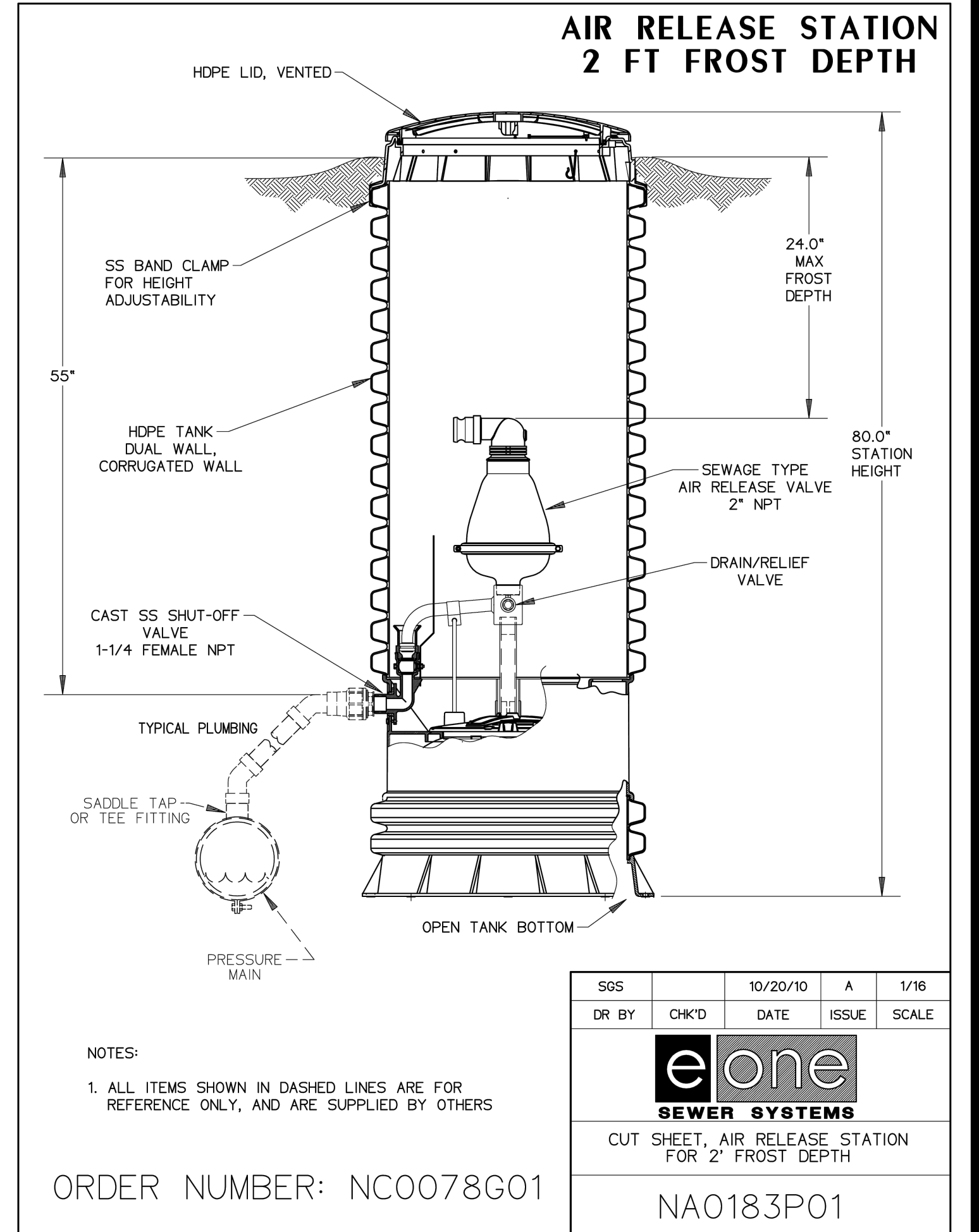
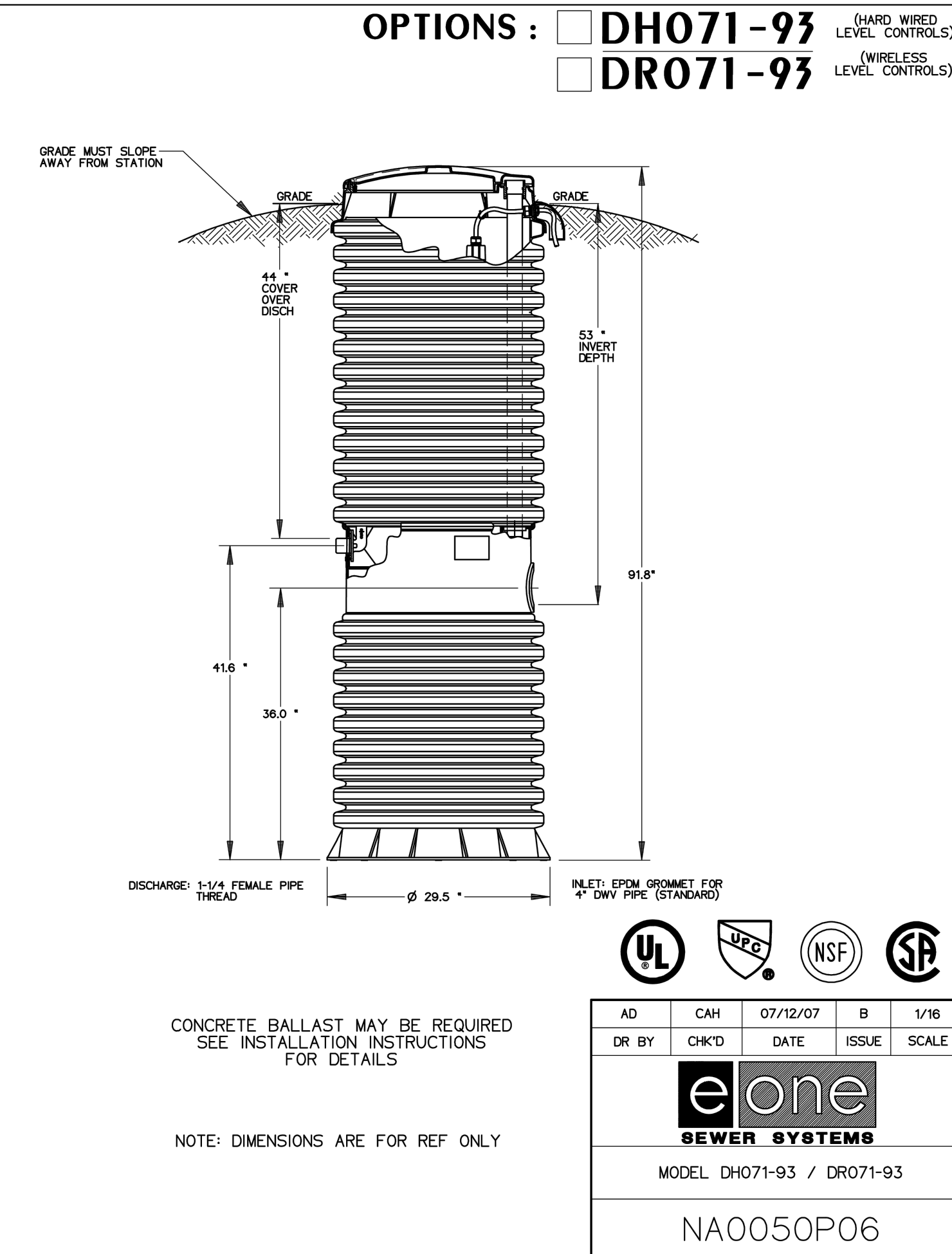
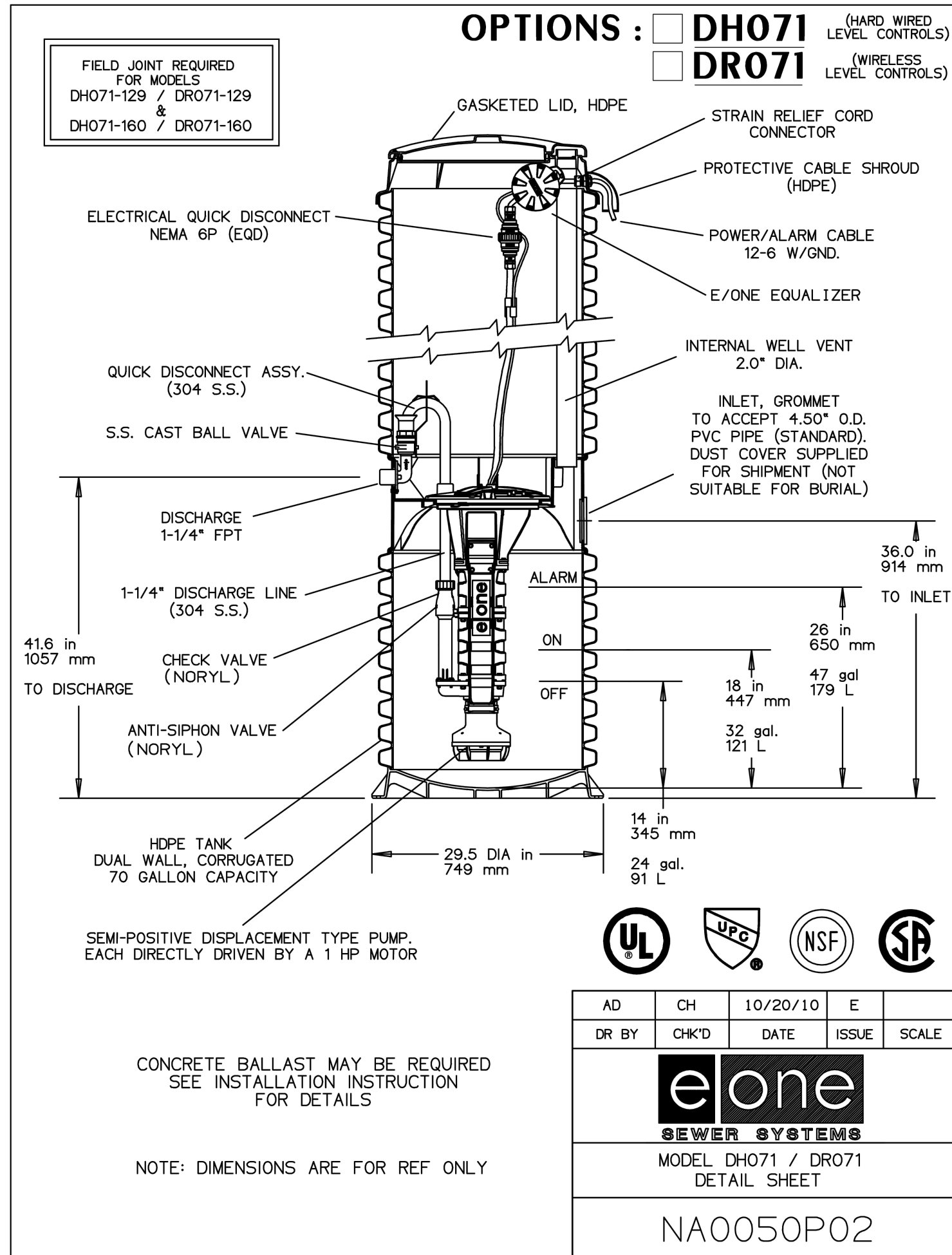
Accessories

E/One requires that the Uni-Lateral, E/One's own stainless steel check valve, be installed between the grinder pump station and the street main for added protection against backflow.

Alarm panels are available with a variety of options, from basic monitoring to advanced notice of service requirements.

The Remote Sentry is ideal for installations where the alarm panel may be hidden from view.

NA0050P01 Rev D



E/One Sentry™

Alarm Panel — Basic Package



Description

The E/One Sentry panels are custom designed for use with Environment One grinder pump stations. They can be configured to meet the needs of your application, from basic alarm indication to advanced warning of pending service requirements.

E/One Sentry panels are supplied with audible and visual high level alarms. They are easily installed in accordance with relevant national and local codes. Standard panels are approved by UL, CSA, CE and NSF to ensure high quality and safety.

The panel features a corrosion-proof, NEMA 4X-rated, thermoplastic enclosure. A padlock is provided to prevent unauthorized entry (safety front).

Standard Features

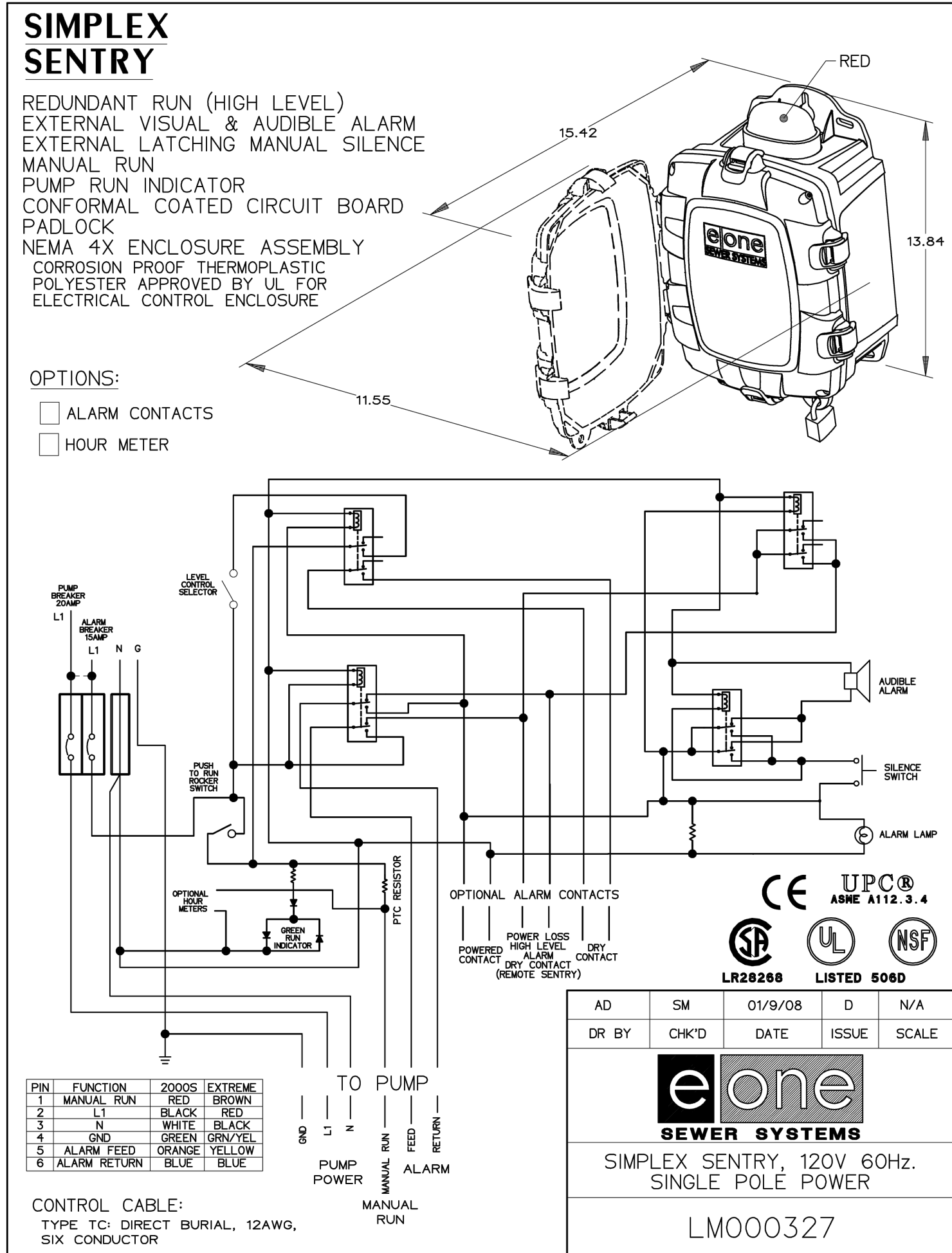
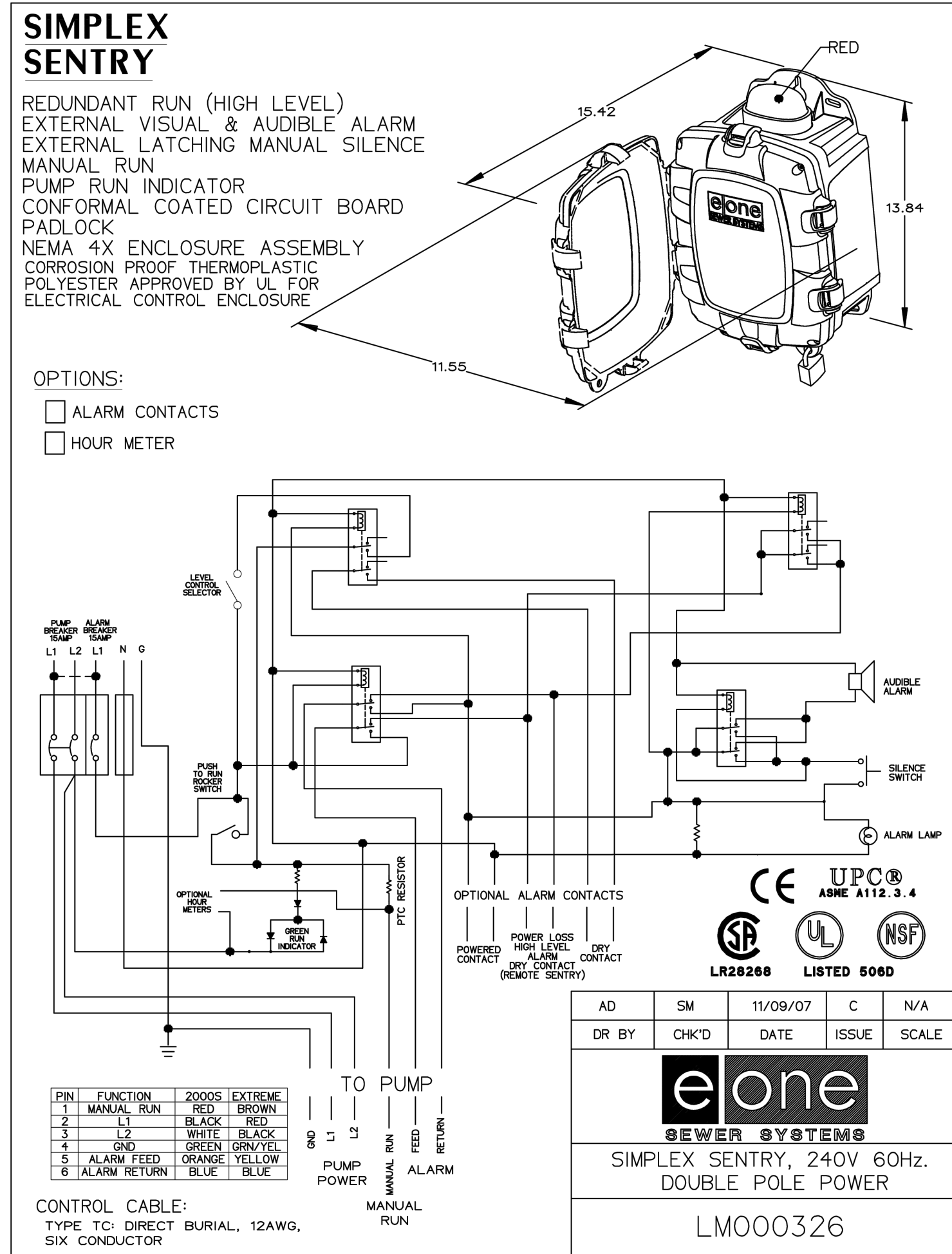
- Circuit breakers, 240 or 120 VAC service
- Terminal blocks and ground lugs
- Audible alarm with manual silence
- Manual run feature and run indicator
- Redundant "Start" function with high level alarm
- Conformal-coated alarm board (both sides)
- Alarm board overload protection

Optional Features

- Contact group (dry, powered and Remote Sentry)
- Inner cover (dead front)
- Hour meter
- Generator receptacle with auto transfer
- GFCI
- Main service disconnect
- Brownout protection

Please consult factory for special applications.

NA0324P01 Rev. -



HAEGER ENGINEERING
consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6600 • Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003152
www.haegerengineering.com

STANDARD DETAILS
PHILIP ESTATES SUBDIVISION
SITE IMPROVEMENT PLANS
LONG GROVE, ILLINOIS

Project Manager: P L
Engineer: K M L
Date: 05-27-2022
Project No. 22001
Sheet **C9.1** / C9

PHILIP ESTATES SUBDIVISION STORMWATER POLLUTION PREVENTION PLAN CUBA ROAD

SECTION 26 TOWNSHIP 43 NORTH RANGE 10 EAST
LONG GROVE, ILLINOIS
COUNTY

OWNER:
Philip Estates, LLC
8150 159th Street
Orland Park, IL 60462

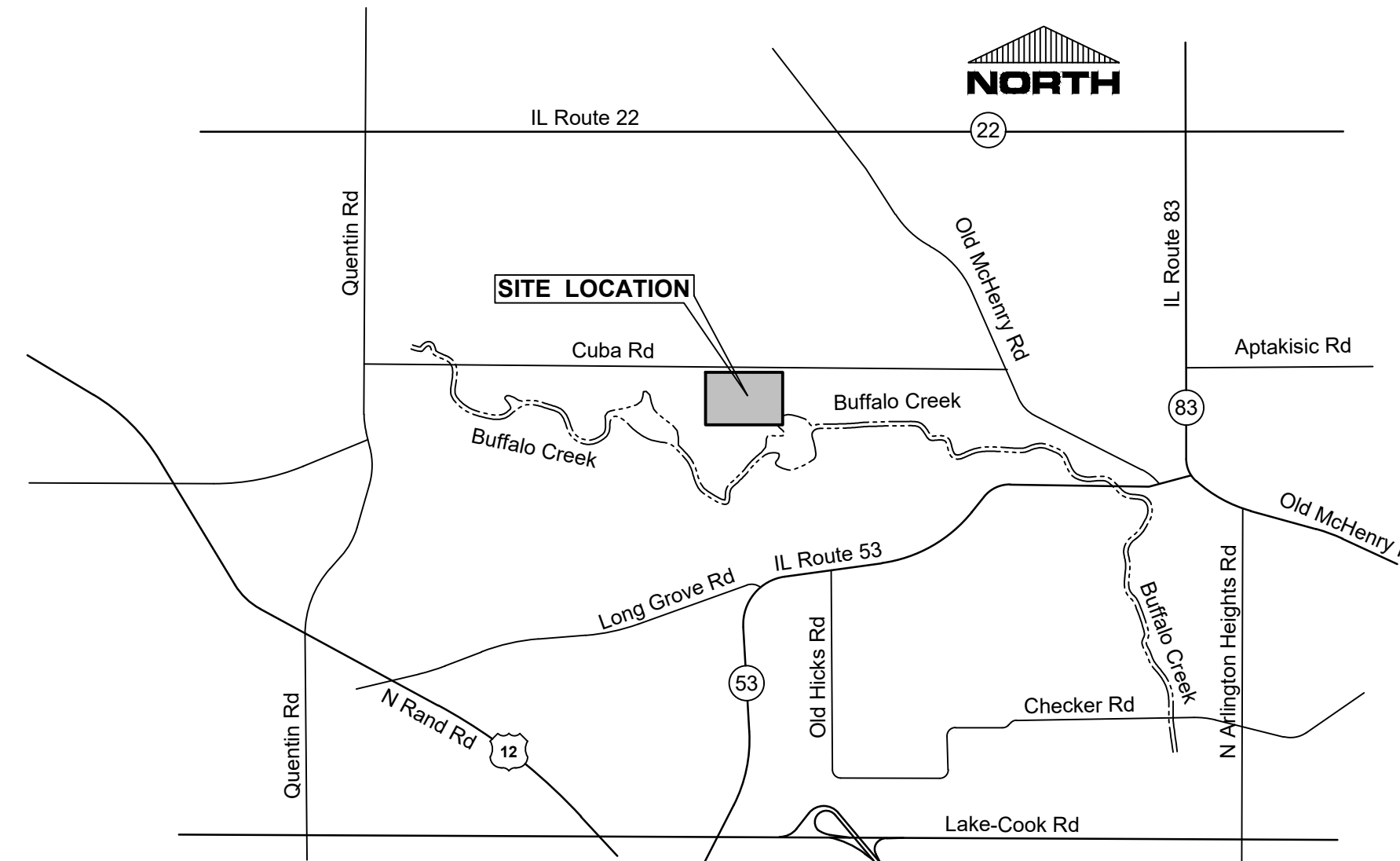
PREPARED BY:
Haeger Engineering LLC
Illinois Prof. Design Firm #184-003152
100 E. State Parkway
Schaumburg, IL 60173
Tel: 847-394-6600
Fax: 847-394-6608
www.haegerengineering.com

VILLAGE OF LONG GROVE
3110 Old McHenry Road, Long Grove, IL 60047
Tel: 847-634-9440
Fax: 847-634-9408

BENCHMARKS:
Source Benchmark:
Lake County Benchmark 6-20a, Being A Chiseled Square On Top Of The East End Of A Culvert Located At The Northeast Corner Of A Driveway And East Cuba Road Approximately 1.4 Miles West Of Old McHenry Road. Measured NAVD 1988 Datum Elevation = 740.41 (Record NGVD 1929 Datum Elevation = 740.46)

Lake County Benchmark 6-20, Being A Railroad Spike In The North Face Of A Utility Pole On South Side Of Cuba Road Approximately 1.05 Miles West Of Old McHenry Road And Being The First Utility Pole West Of Canterbury Drive. Measured NAVD 1988 Datum Elevation = 756.38 (Record NGVD 1929 Datum Elevation = 756.66)

Site Benchmark:
BM #1: (Same As Source Bm 6-21 Above.)
NAVD 1988 Elevation = 756.38
BM #2: Railroad Spike In Fourth Utility Pole West Of Canterbury Drive On The South Side Of East Cuba Road.
NAVD 1988 Elevation = 755.36



LOCATION MAP
Not To Scale

INDEX TO STORM WATER POLLUTION PREVENTION PLAN SHEETS	
NO.	DESCRIPTION
EC-0	SWPPP TITLE SHEET
EC-1	SWPPP GENERAL NOTES AND SPECIFICATIONS
EC-2	STORMWATER POLLUTION PREVENTION PLAN
EC-3	SWPPP DETAILS



Know what's below.
Call before you dig.

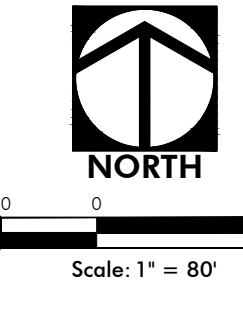
Note:
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.

Date	Revision
09-30-2022	PROJECT PLANS SUBMITTAL SET
08-12-2022	PROJECT COORDINATION

HAEGER ENGINEERING
consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003152
www.haegerengineering.com

SWPPP TITLE SHEET
PHILIP ESTATES SUBDIVISION
SITE IMPROVEMENT PLANS
LONG GROVE, ILLINOIS

Project Manager: P L
Engineer: K M L
Date: 05-27-2022
Project No. 22001
Sheet **EC-1** / C9



LEGEND	
	Temporary Silt Basin
	Stabilized Construction Entrance
	Standard Seed & Blanket <ul style="list-style-type: none"> • 6" Topsoil (min.) • IDOT Seed Mixture 2A • North American Green DS75 Blanket
	Erosion blanket North American Green Eronet P 300 or Equal
	Silt Fence
	Inlet Filter Basket
	See Landscape Plans
	Ditch Check

PT. LOT 1
HACKBERRY HILLS PART "A"
DOCUMENT NO. 1108669
PT. LOT 2
PT. LOT 3

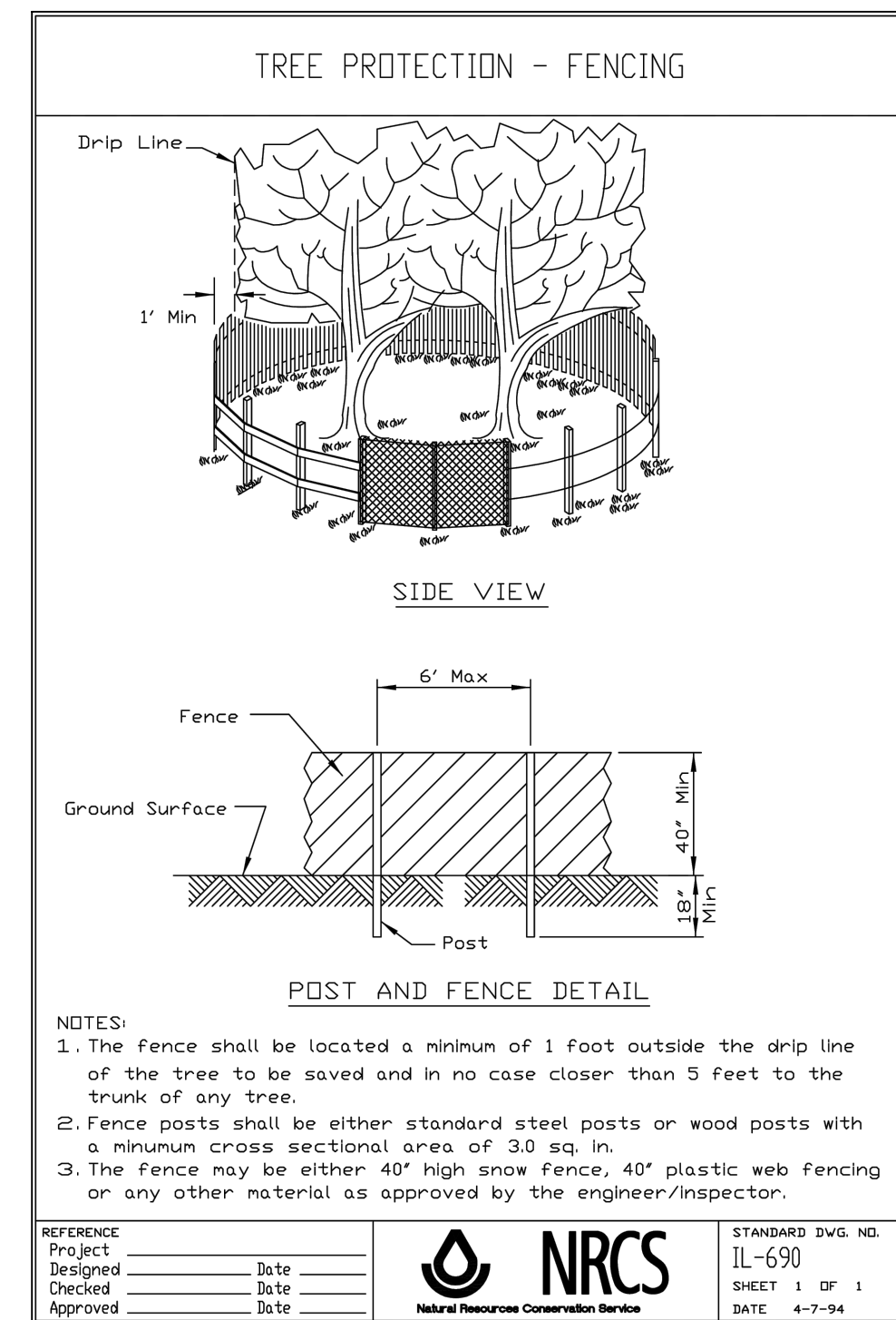
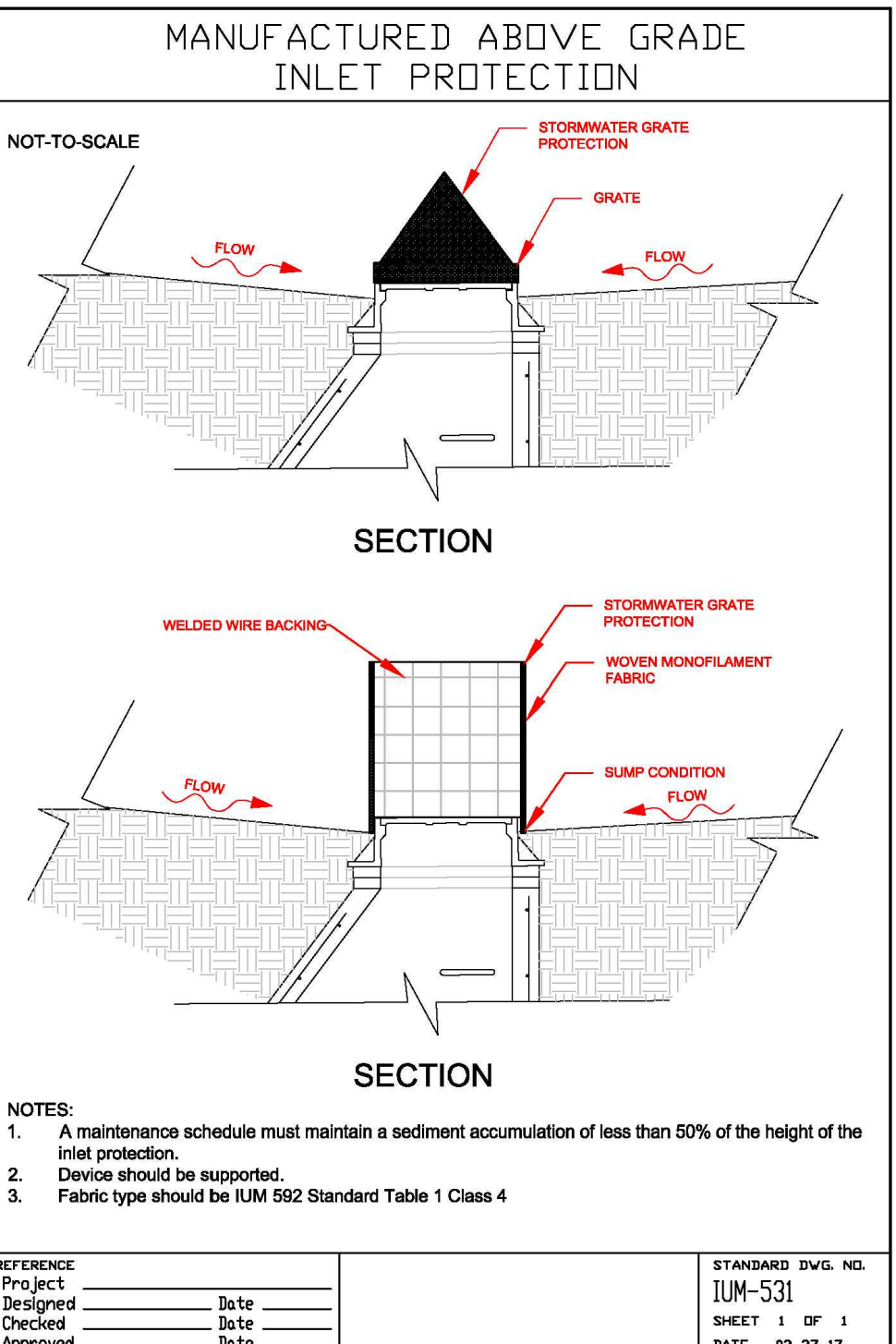
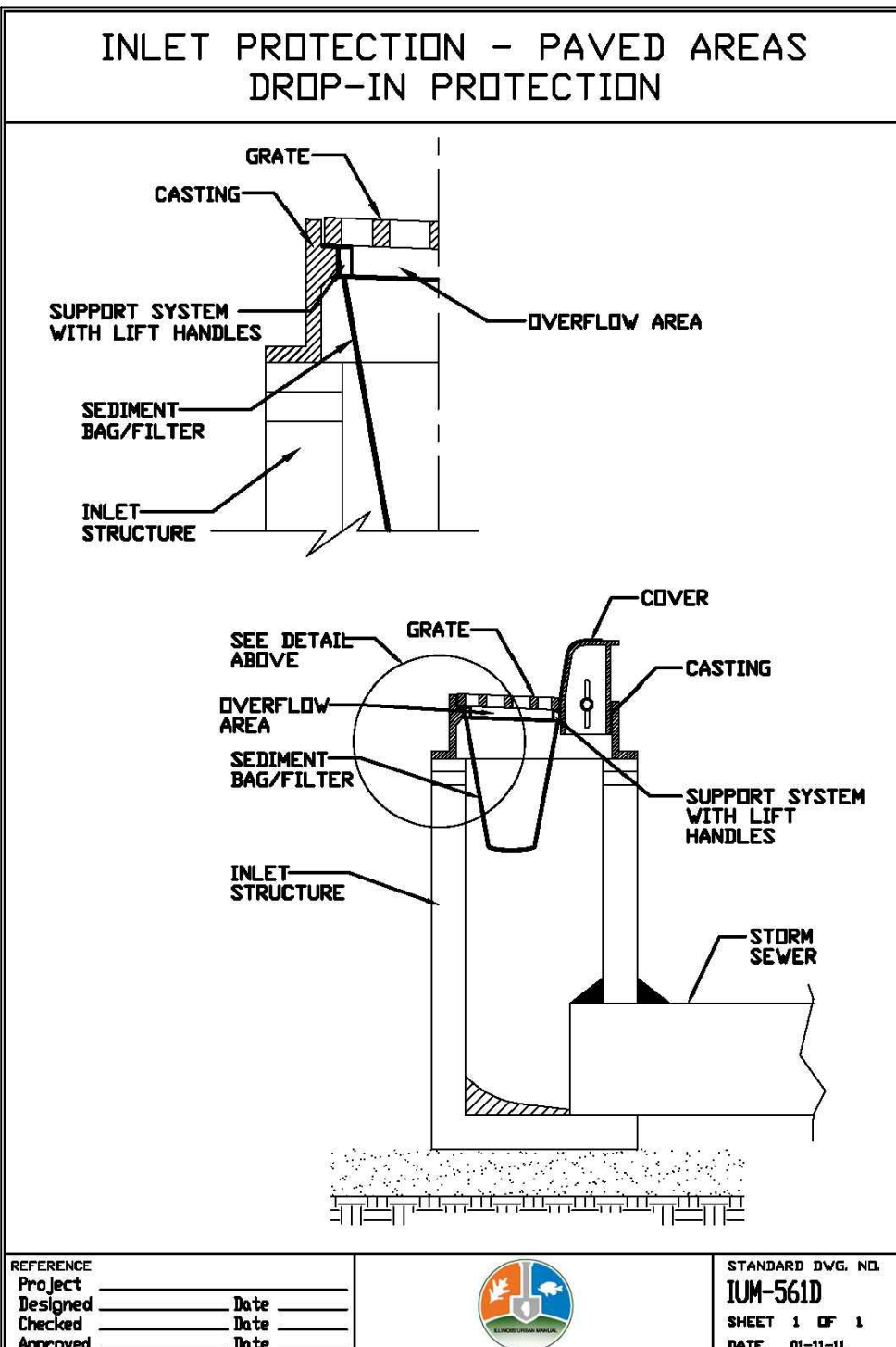
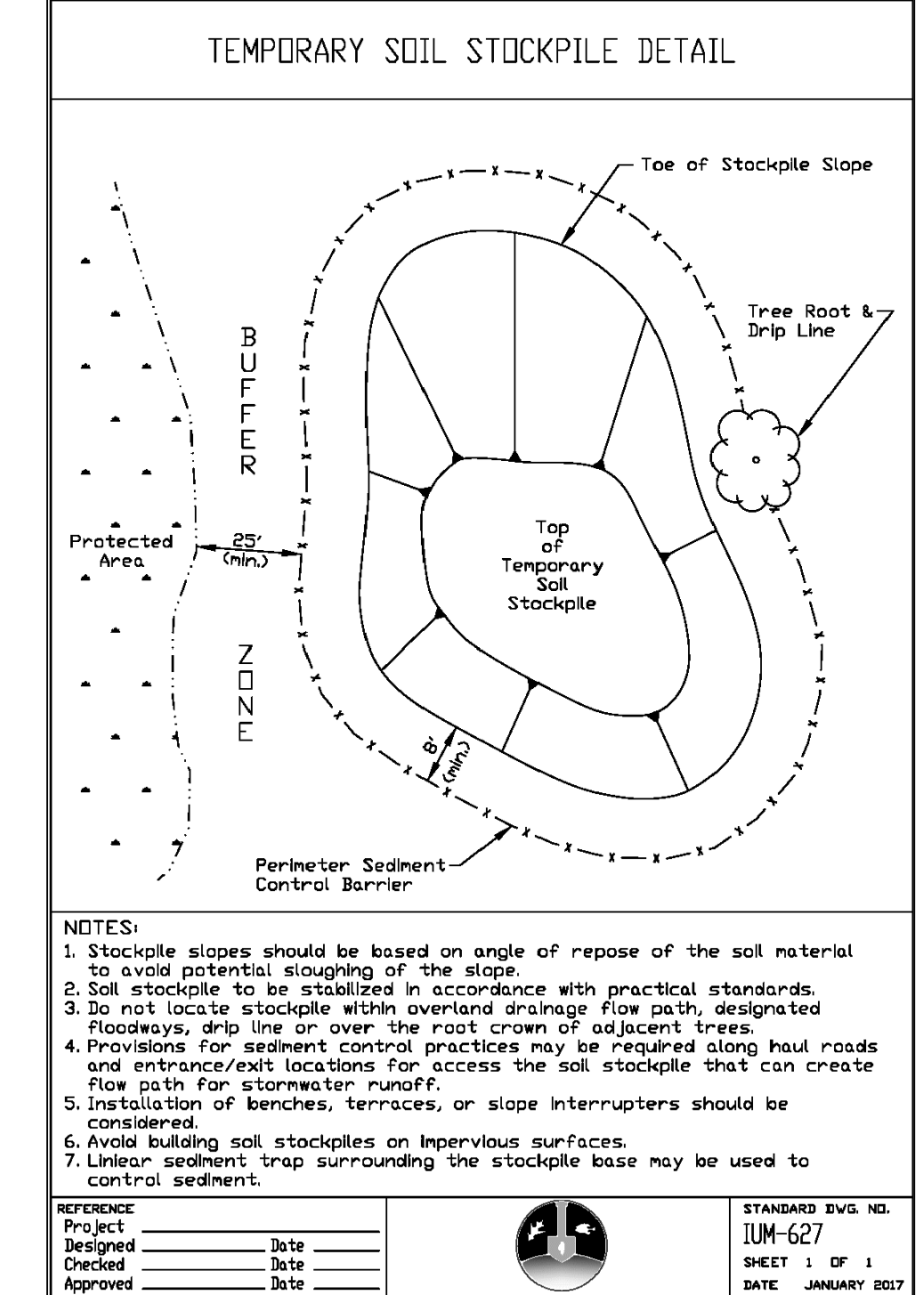
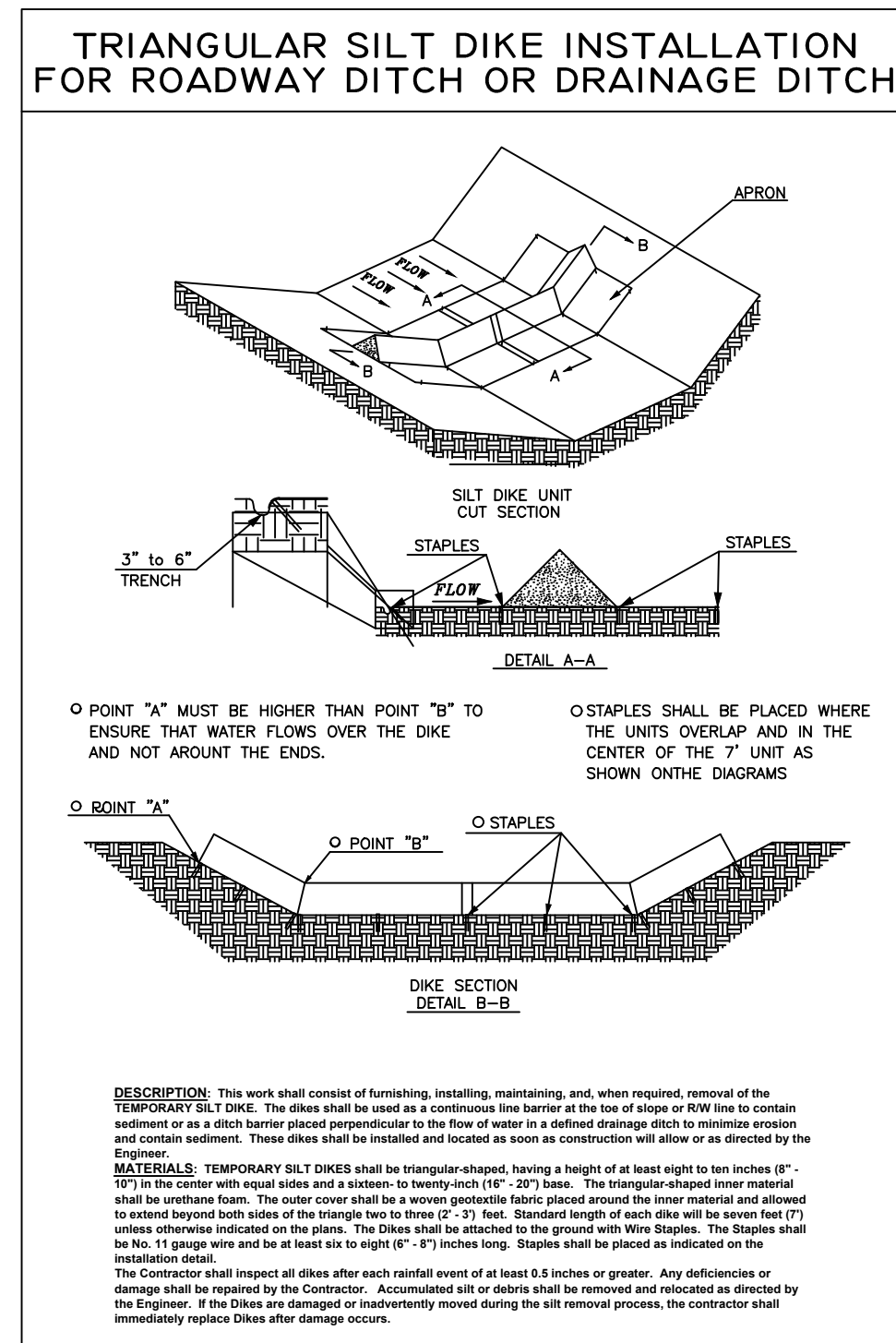
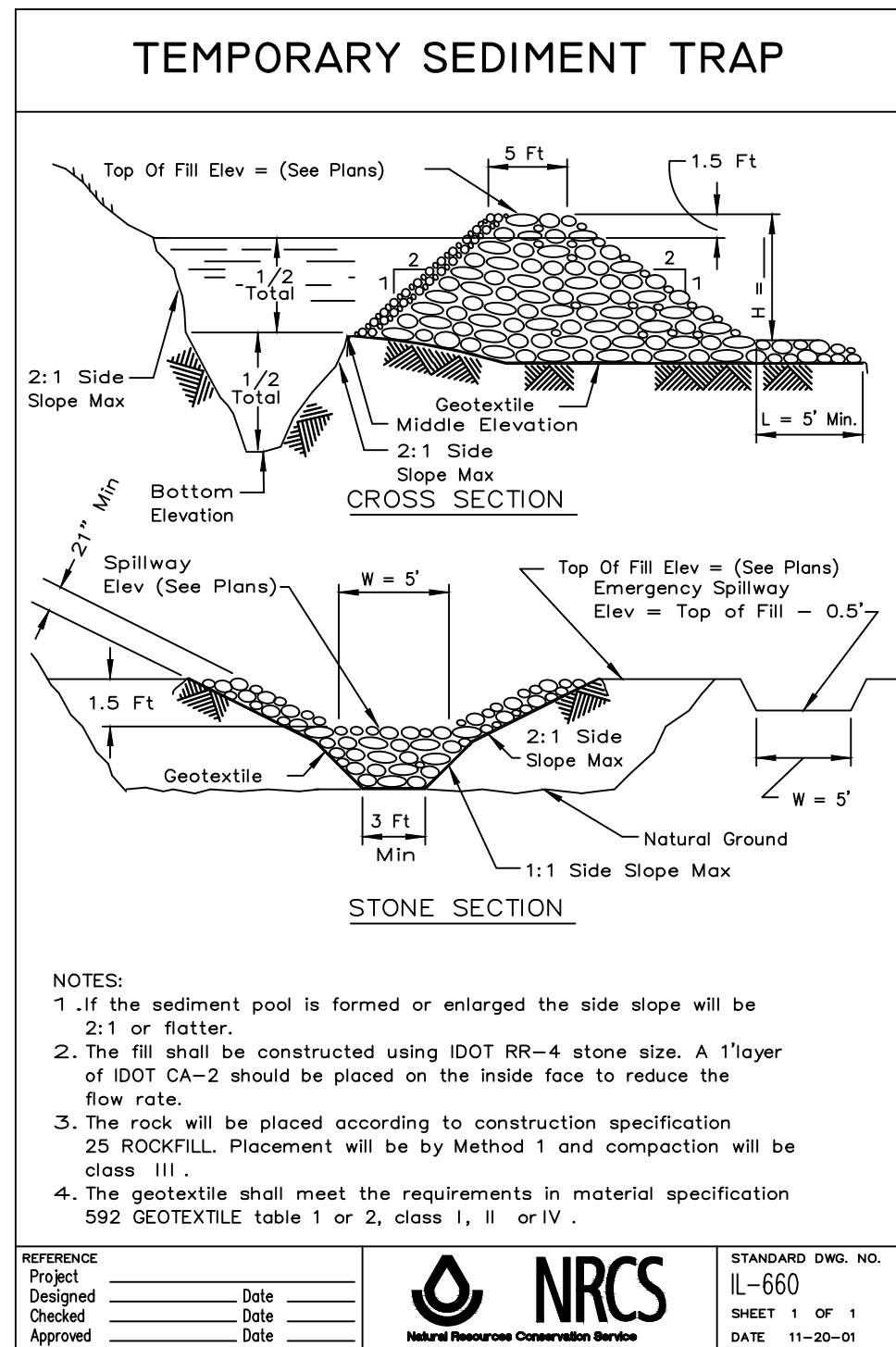
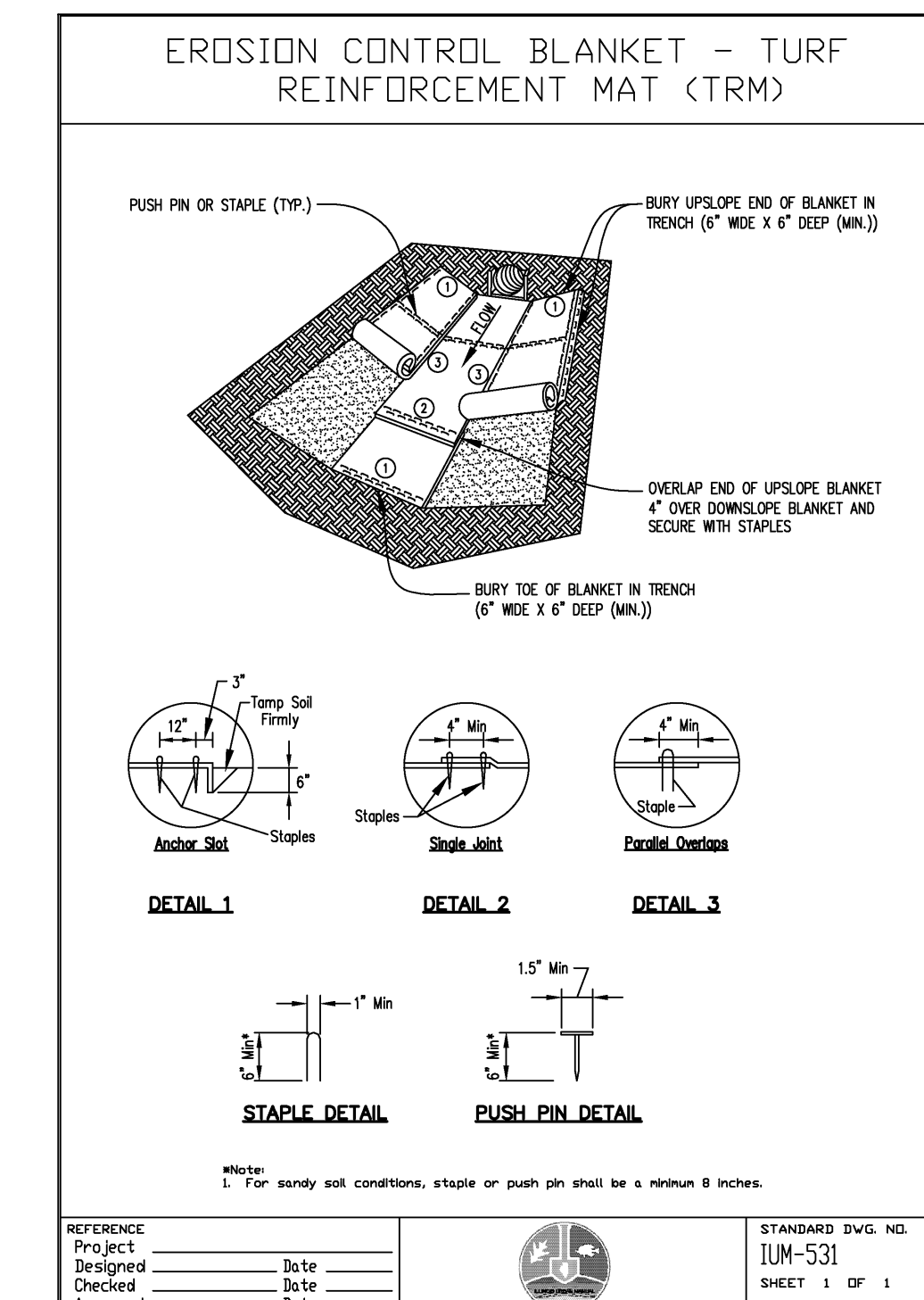
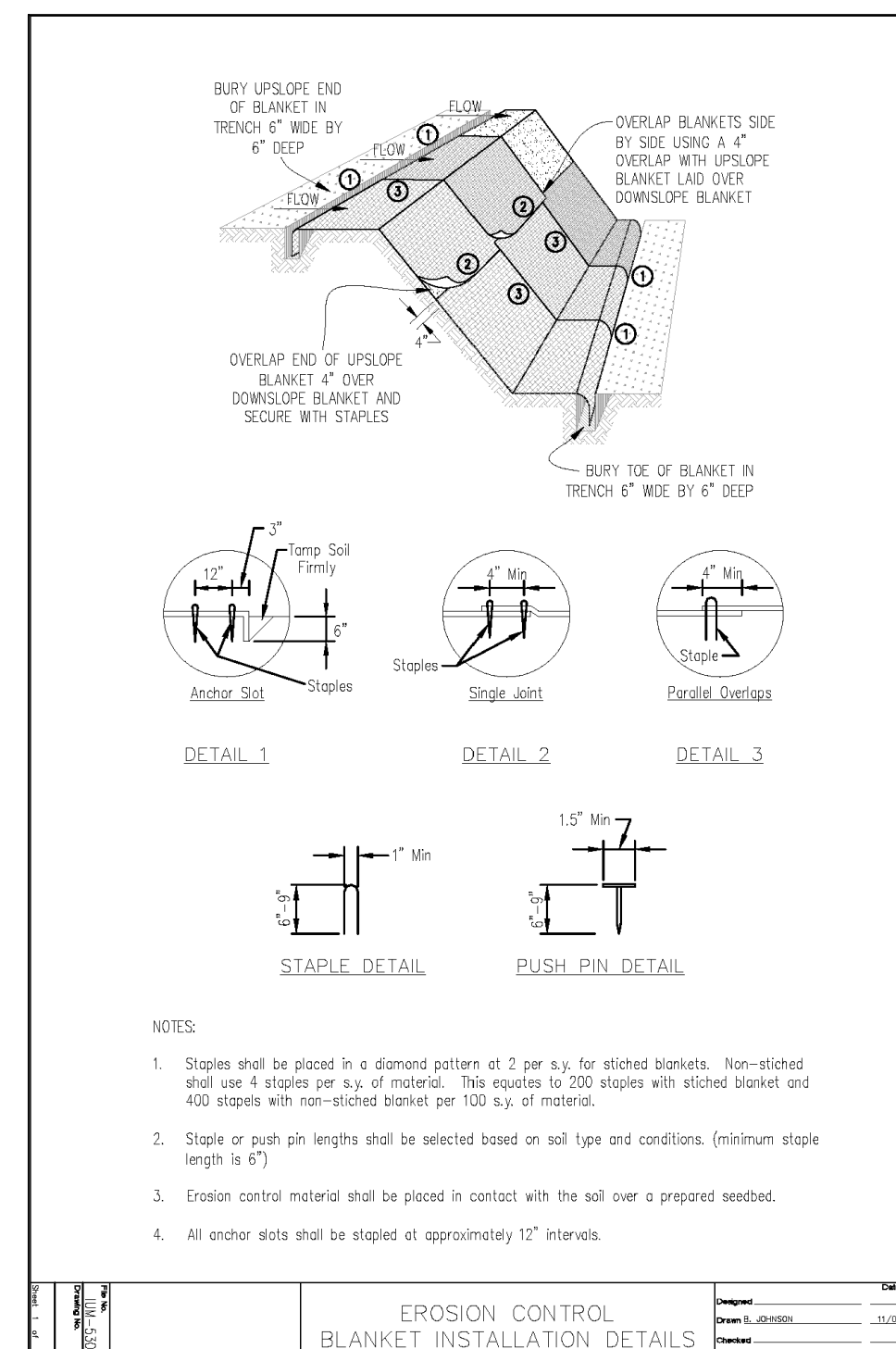
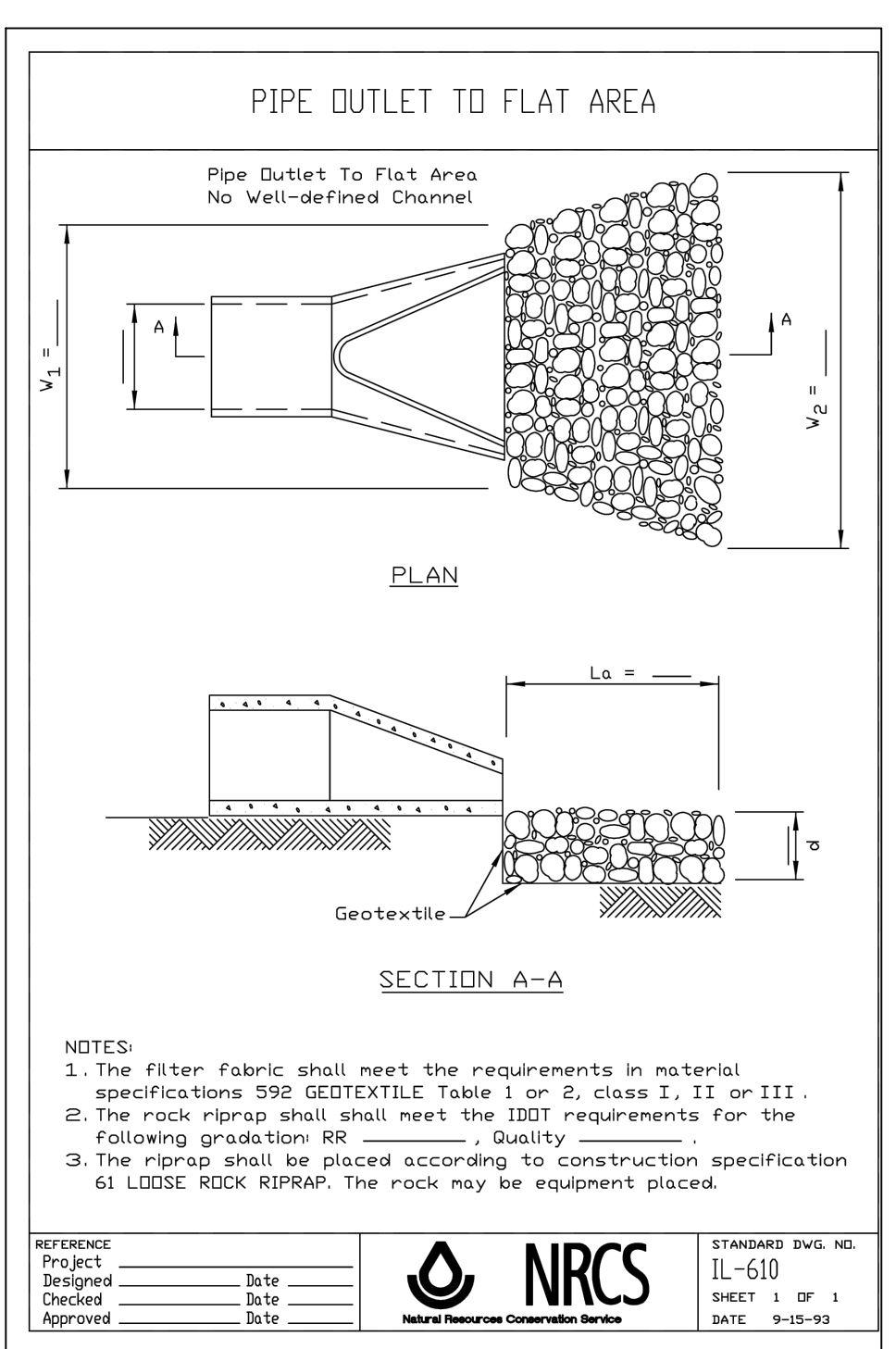
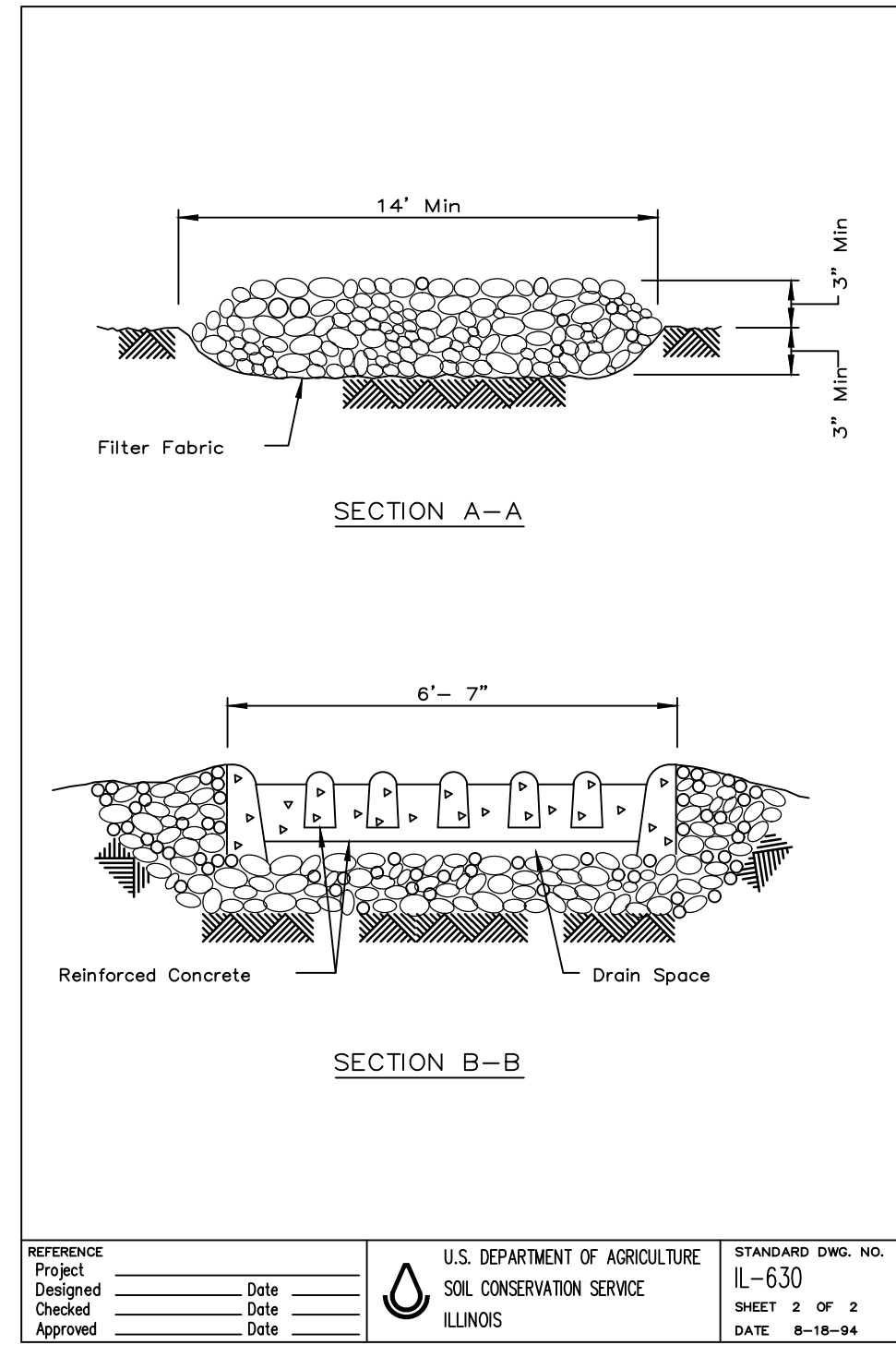
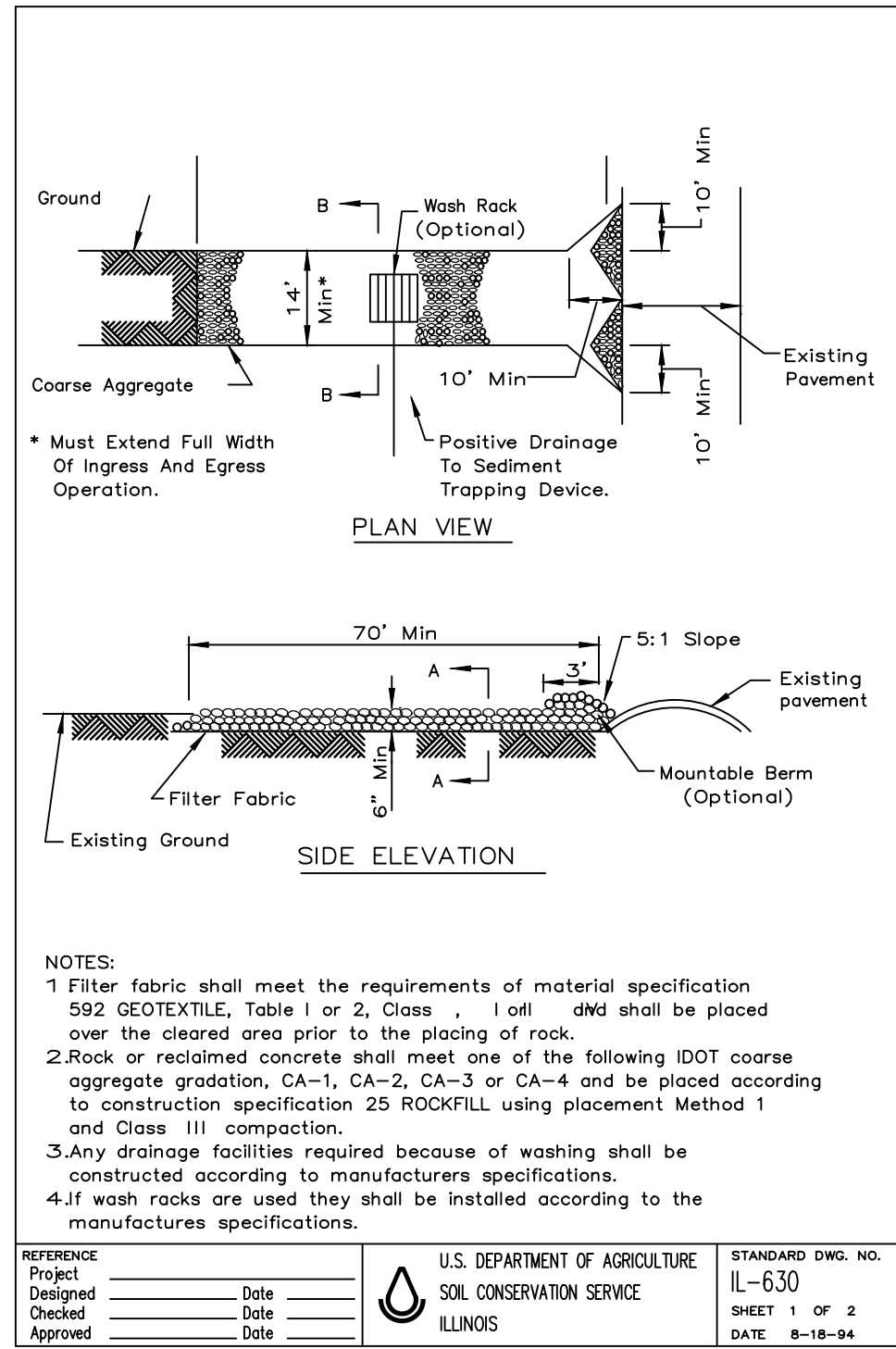
LOT 1
SPRING VALLEY NEUMAN
RESUBDIVISION
DOCUMENT NO. 22014.12

HAEGER ENGINEERING
consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6698
Illinois Professional Design Firm License No. 184-003132 www.haegerengineering.com

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
PHILIP ESTATES SUBDIVISION SITE IMPROVEMENT PLANS
LONG GROVE, ILLINOIS

Project Manager: P L
Engineer: K M L
Date: 05-27-2022
Project No. 22001
Sheet **EC-3** of C9

No.	Date	Revision
1	09-30-2022	PROJECT PLANS SUBMITTAL SET
2	08-12-2022	PROJECT COORDINATION



CONSTRUCTION SEQUENCE

CONSTRUCTION SEQUENCE AND RESPONSIBLE CONTRACTOR	GRAVING CONTRACTOR	UNDERGROUND CONTRACTOR	PAVING CONTRACTOR	LANDSCAPE CONTRACTOR
1. INSTALL SEDIMENT CONTROL MEASURES - DITCH CHECKS - EROSION CONTROL FENCE - SEDIMENT BASIN - STABILIZED CONSTRUCTION ENTRANCE - TEMPORARY SCALES - SPECIFIED STORM SEWER LINES	=====	=====	=====	=====
2. GRADE SITE/STOCKPILE TOPSOIL	=====	=====	=====	=====
3. INSTALL STORMWATER MANAGEMENT MEASURES - STORM SEWER - SEDIMENT TRAP (INLET PROTECTION) - DITCH/SWALES	=====	=====	=====	=====
4. TEMPORARY VEGETATIVE STABILIZATION CONTROL MEASURES - TEMPORARY SEEDING - MULCHING	=====	=====	=====	=====
5. INSTALL ROAD SURFPAVE - AGGREGATE COVER	=====	=====	=====	=====
6. SITE CONSTRUCTION WORK - CURB AND GUTTER - PAVING (WALKS & BIKEPATHS)	=====	=====	=====	=====
7. VEGETATIVE COVER ON ALL AREAS TO BE EXPOSED LONGER THAN 60 DAYS - TEMPORARY SEEDING	=====	=====	=====	=====
8. SURFACE ROADS - PAVING	=====	=====	=====	=====
9. PERMANENT VEGETATIVE STABILIZATION OF ALL EXPOSED AREAS - PERMANENT SEEDING - SODDING	=====	=====	=====	=====
10. INSTALL PERMANENT LANDSCAPING	=====	=====	=====	=====
11. PERFORM CONTINUING MAINTENANCE	=====	=====	=====	=====

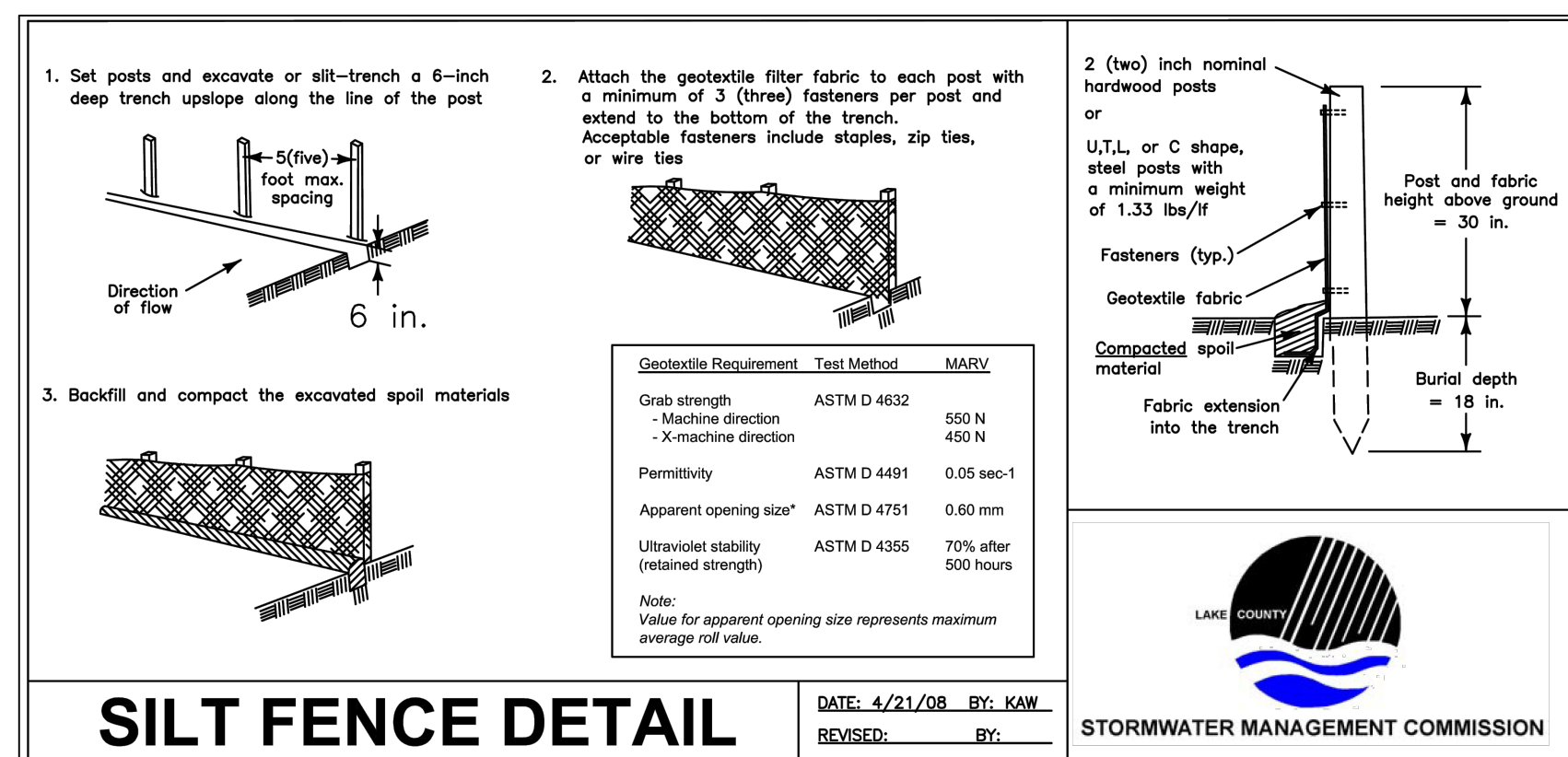
SOIL PROTECTION CHART

Soil Protection Chart	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding			A									
Dormant Seeding												B
Temporary Seeding			C			D						
Sodding			E**									
Mulching												

KEY:

- A KENTUCKY BLUEGRASS 90 LBS/AC MIXED WITH PERENNIAL RYE GRASS 30 LBS/AC
- B WHEAT OR CEREAL RYE 150 LBS/AC
- C SPRING OATS 100 LBS/AC
- D WHEAT OR CEREAL RYE 150 LBS/AC
- E SOD
- F STRAW MULCH 2 TONS/AC

IRRIGATION NEEDED DURING JUNE, JULY AND SEPTEMBER
**** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SODDING**

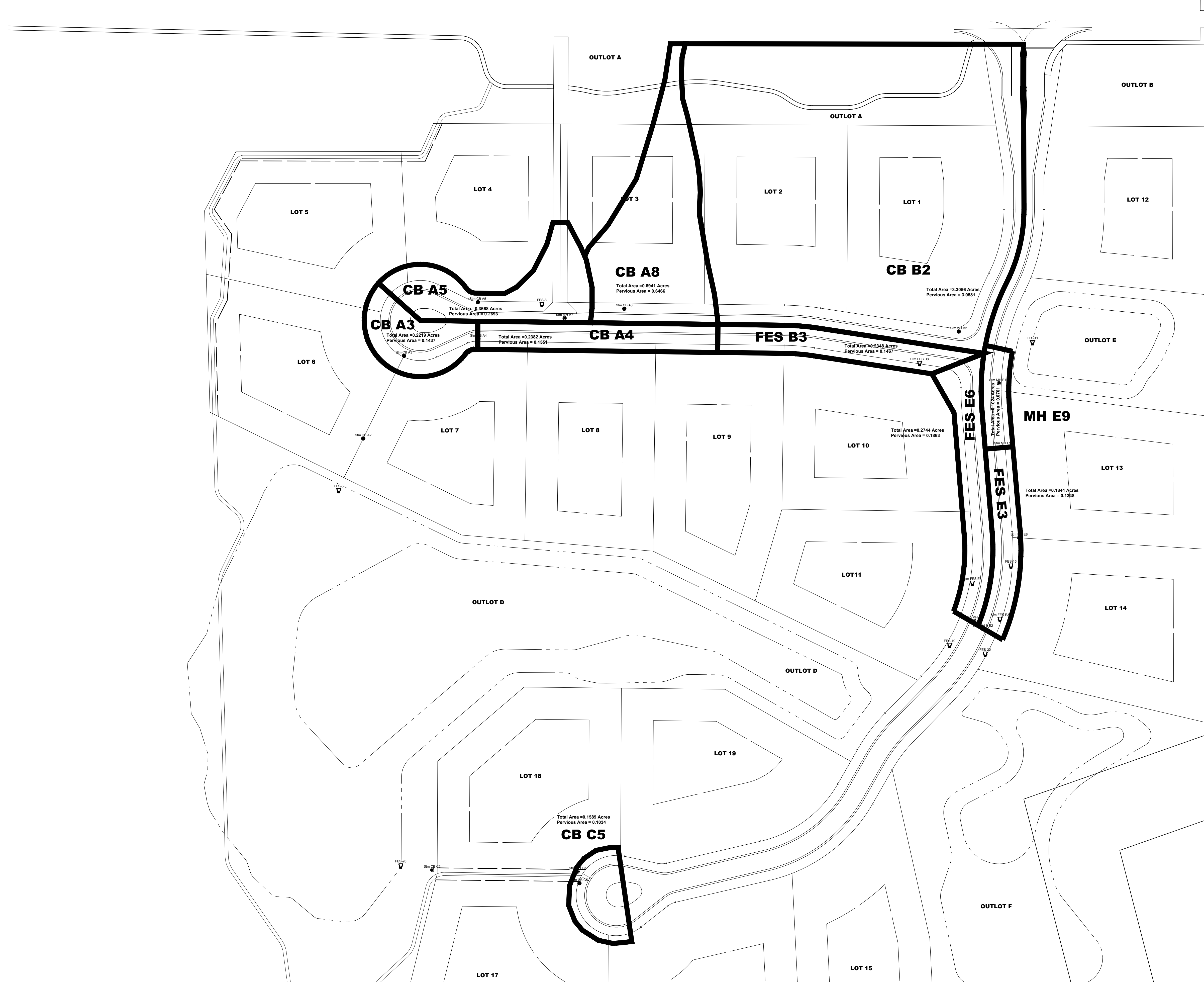
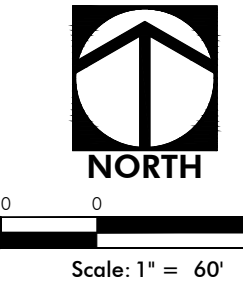


STORM SEWER COMPUTATION SHEET

Prepared By		Date		Return Period		10-Year		Project Name								
Checked BY		Date						Job Number								
STRUCTURE		LENGTH (feet)	DRAINAGE AREA (Acres)		RUNOFF COEFFICIENT	C x A		FLOW TIME (Min.)		RAINFALL INTENSITY (Inche/Hour)	TOTAL RUNOFF Q = C x I x A (c.f.s)	PIPE DIAMETER (Inches)	FULL CAPACITY (c.f.s.)	VELOCITY (f.p.s.)		SLOPE OF SEWER (Percent %)
FROM	TO		INCREMENT	TOTAL		INCREMENT	TOTAL	INLET	SYSTEM					FLOWING FULL	DESIGN FLOW	
Stm CB A5	Stm CB A4	46	0.37	0.37	0.51	0.19	0.19	10	10	6.48	2.99	12	10.506	13.377	11.526	8.6957
Stm CB A4	Stm CB A3	95	0.24	0.61	0.55	0.132	0.322	10	10.06	6.47	3.84	12	3.655	4.654	5.271	1.0526
Stm CB A3	Stm CB A2	115	0.22	0.83	0.57	0.125	0.447	10	10.4	6.41	4.62	15	11.269	9.183	8.728	3.0435
Stm CB A2	FES-5	69	0	0.83	0	0	0.447	0	10.4	6.41	4.62	15	9.524	7.761	7.702	2.1739
Stm CB A8	Stm MH A7	75	0.69	0.69	0.39	0.272	0.272	10	10	6.48	1.76	12	4.114	5.238	5.034	1.3333
Stm MH A7	FES-8	34	0	0.69	0	0	0.272	0	10	6.48	1.76	12	6.408	8.159	6.962	3.2353
Stm FES B3	Stm CB B2	61	0.23	0.23	0.56	0.129	0.129	10	10	6.48	0.83	12	7.901	10.06	6.526	4.918
Stm CB B2	FES-11	93	3.31	3.54	0.4	1.309	1.437	30	30.1	3.82	5.48	18	10.892	6.164	6.174	1.0753
Stm MH E10	Stm MH E9	79	0.1	0.1	0.35	0.035	0.035	10	10	6.48	1.23	12	3.585	4.565	4.139	1.0127
Stm MH E9	Stm MH E8	116	0.1	0.2	0.53	0.053	0.088	10	10.29	6.43	1.57	12	2.339	2.978	3.193	0.431
Stm MH E8	FES-16	34	0	0.2	0	0	0.088	0	10.29	6.43	1.57	12	2.733	3.479	3.6	0.5882
Stm FES E6	Stm MH E5	50	0.27	0.27	0	0	0	10	10	6.48	0	12	7.558	9.623	0.04	4.5
Stm FES E3	Stm MH B E2	26	0.18	0.18	0.55	0.099	0.099	10	10	6.48	2.58	12	6.555	8.346	7.848	3.3846
Stm MH B E2	FES-22	29	0	0.18	0	0	0.099	0	10	6.48	2.58	12	6.311	8.036	7.632	3.1379
Stm CB C5	Stm MH C3	15	0.16	0.16	0.58	0.092	0.092	10	10	6.48	0.6	12	3.563	4.536	3.373	1
Stm MH C3	Stm CB C2	181	0	0.16	0	0	0.092	0	10	6.48	0.6	12	7.348	9.356	5.639	4.2541
Stm CB C2	FES-26	40	0	0.16	0	0	0.092	0	10	6.48	0.6	12	5.039	6.415	4.317	2

COMBINED PIPE /NODE STORM SEWER REPORT

Pipe Node		Len (ft)	Drainage Area		Rnoff Coeff	Area x C		Tc		Rain (in/hr) Inty	Known Flow (cfs)	Total Flow (cfs)	Cap Full (cfs)	Vel (ft/sc)	n Value	Pipe		Inv. Elev.		HGL Elev		Rim Elev (ft)
Up	Down		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Sys (min)							Size (in)	Slope (%)	Up (ft)	Down (ft)	Up (ft)	Down (ft)	
Stm CB A5	Stm CB A4	46	0.37	0.37	0.51	0.19	0.19	10	10	6.48	1.76	2.99	10.51	11.53	0.013	12	8.7	744.5	740.5	744.87	741.48	744
Stm CB A4	Stm CB A3	95	0.24	0.61	0.55	0.132	0.322	10	10.06	6.47	1.76	3.84	3.66	5.27	0.013	12	1.05	740.5	739.5	741.48	740.37	744.5
Stm CB A3	Stm CB A2	115	0.22	0.83	0.57	0.125	0.447	10	10.4	6.41	1.76	4.62	11.27	8.73	0.013	15	3.04	739.5	736	740.06	736.56	742.95
Stm CB A2	FES-5	69	0	0.83	0	0	0.447	0	10.4	6.41	1.76	4.62	9.52	7.7	0.013	15	2.17	735.5	734	736.11	734.61	739
Stm CB A8	Stm MH A7	75	0.69	0.69	0.39	0.272	0.272	10	10	6.48	0	1.76	4.11	5.03	0.013	12	1.33	747.5	746.5	747.96	746.96	750
Stm MH A7	FES-8	34	0	0.69	0	0	0.272	0	10	6.48	0	1.76	6.41	6.96	0.013	12	3.24	746.5	745.4	746.86	745.76	749.51
Stm FES B3	Stm CB B2	61	0.23	0.23	0.56	0.129	0.129	10	10	6.48	0	0.83	7.9	6.53	0.013	12	4.92	748	745	748.22	745.75	745.95
Stm CB B2	FES-11	93	3.31	3.54	0.4	1.309	1.437	30	30.1	3.82	0	5.48	10.89	6.17	0.013	18	1.08	745	744	745.75	744.75	747.85
Stm MH E10	Stm MH E9	79	0.1	0.1	0.35	0.035	0.035	10	10	6.48	1	1.23	3.59	4.14	0.013	12	1.01	744	743.2	744.4	743.8	748.62
Stm MH E9	Stm MH E8	116	0.1	0.2	0.53	0.053	0.088	10	10.29	6.43	1	1.57	2.34	3.19	0.013	12	0.43	743.2	742.7	743.8	743.3	746
Stm MH E8	FES-16	34	0	0.2	0	0	0.088	0	10.29	6.43	1	1.57	2.73	3.6	0.013	12	0.59	742.7	742.5	743.24	743.04	747.33
Stm FES E6	Stm MH E5	50	0.27	0.27	0	0	0	10	10	6.48	0	0	7.56	0.04	0.013	12	4.5	742	739.75	742	739.75	743.25
Stm FES E3	Stm MH B E2	26	0.18	0.18	0.55	0.099	0.099	10	10	6.48	1.94	2.58	6.55	7.85	0.013	12	3.38	740.08	739.2	740.52	739.65	741.33
Stm MH B E2	FES-22	29	0	0.18	0	0	0.099	0	10	6.48	1.94	2.58	6.31	7.63	0.013	12	3.14	739.2	738.29	739.65	738.74	741.31
Stm CB C5	Stm MH C3	15	0.16	0.16	0.58	0.092	0.092	10	10	6.48	0	0.6	3.56	3.37	0.013	12	1	743.65	743.5	743.93	743.78	747
Stm MH C3	Stm CB C2	181	0	0.16	0	0	0.092	0	10	6.48	0	0.6	7.35	5.64	0.013	12	4.25	743.5	735.8	743.69	736.03	748.2
Stm CB C2	FES-26	40	0	0.16	0	0	0.092	0	10	6.48	0	0.6	5.04	4.32	0.013	12	2	735.8	735	736.03	735.23	739.8

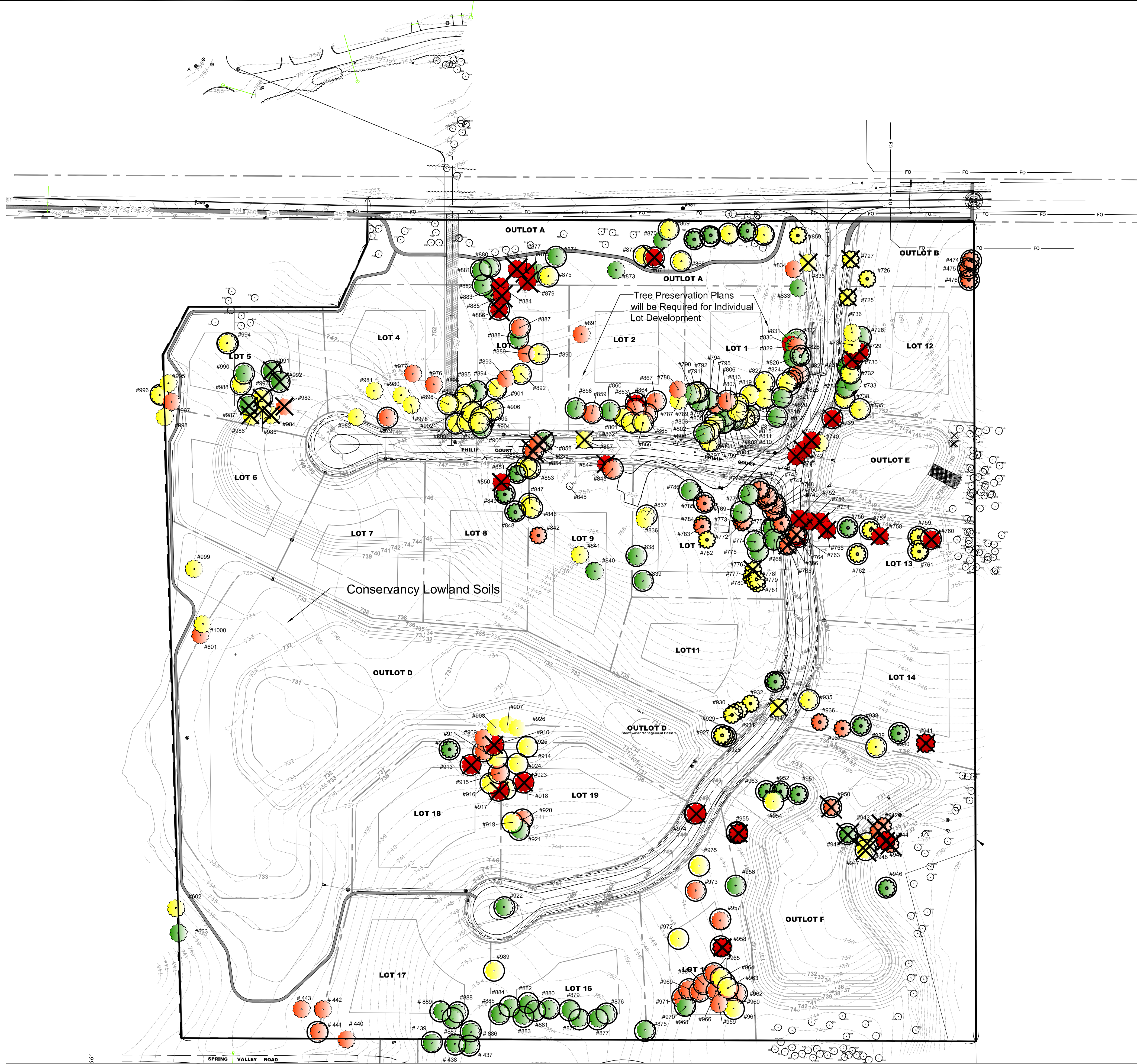


No.	Date	Revision

HAEGER ENGINEERING
 consulting engineers • land surveyors
 100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608
 Illinois Professional Design Firm License No. 184-003132
 www.haegerengineering.com

STORM SEWER EXHIBIT
PHILIP ESTATES SUBDIVISION
SITE IMPROVEMENT PLANS
 LONG GROVE, ILLINOIS

Project Manager: P L
 Engineer: K M L
 Date: 02-16-2023
 Project No. 22001
 Sheet 1



1 EXISTING TREE SURVEY & PRESERVATION PLAN
SCALE: 1"=80'

Existing Tree Legend:

- GOOD TREE
- FAIR TREE
- POOR TREE
- DEAD TREE
- PROTECTED TREE per Village Ordinance
- TREE to be REMOVED
- SURVEYED TREES OUTSIDE GRADING & DEVELOPMENT AREA

GENERAL NOTES:

Existing trees were inventoried on October 17, December 23, 2019, October 27, 2020 and June 2, 2021. A total of 308 trees were identified on the property that had a minimum diameter at breast height of 8".

Trees were measured for diameter, and identified to their respective genus and species, as well as their general health condition. Trees that are identified as Protected Trees comply with Chapter 10, Tree Preservation ordinance as a Protected Tree in size and species. Tree were evaluated according to common horticultural standards and given a general description of the general health and structure, i.e., good, fair, poor. Tree locations are not exact in some areas. A complete tree survey will be completed during final engineering.

Good: Healthy branches and full crown, no major limbs in crown dead or dying, leaves healthy, no apparent wounds or diseases, no apparent hollow spots or gaps in the bark of the main trunk or major limbs. Good structure, few weak crotches, trunk not leaning excessively.

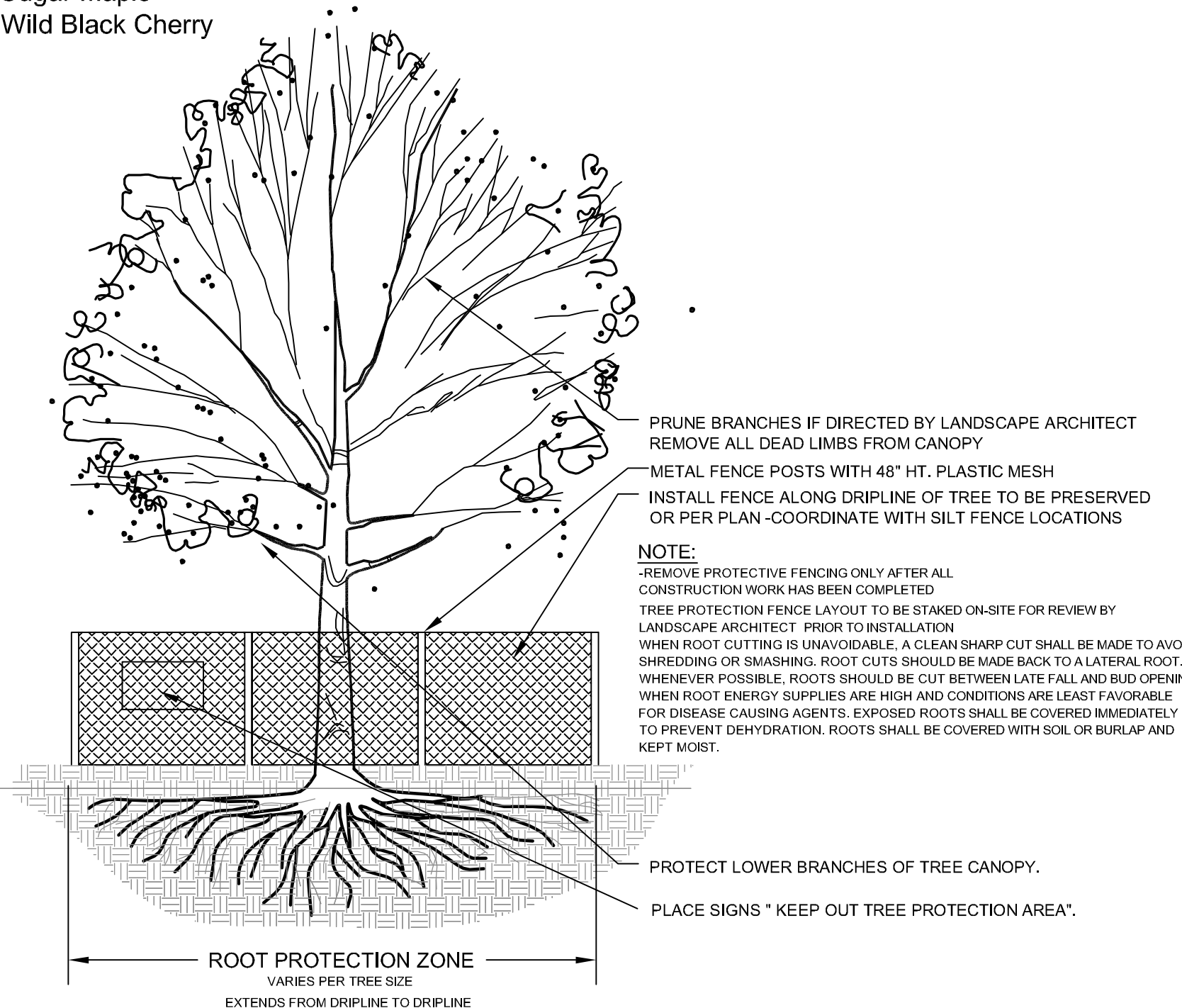
Fair: One or more of the following defects: Some major branches in crown dead or dying (but at least 50% still alive), apparent wounding, gaps in bark, oozing sap, areas of light colored or yellowed foliage, weak crotches, excessively leaning trunk, some broken major limbs or missing / broken or headed back central leader.

Poor: Over 50% of the tree is dead, major wounding, major disease, weak spots, hollow base, may result in imminent collapse of the tree, excessive lean of trunk, broken trunk, or partial/ complete uprooting of tree.

Dead: Tree is completely dead, no display of foliage, tree has fallen to the ground.

Protected Tree: Tree (s) designated in the Village Ordinance of having a minimum diameter at breast height of 8"-10" or greater and consist of the following species:

- Basswood / Linden
- Black Walnut
- Hackberry
- Hickory
- Ironwood
- Black Oak / Bur Oak / Hill's Oak / Red Oak / Swamp White Oak / White Oak
- Sugar Maple
- Wild Black Cherry



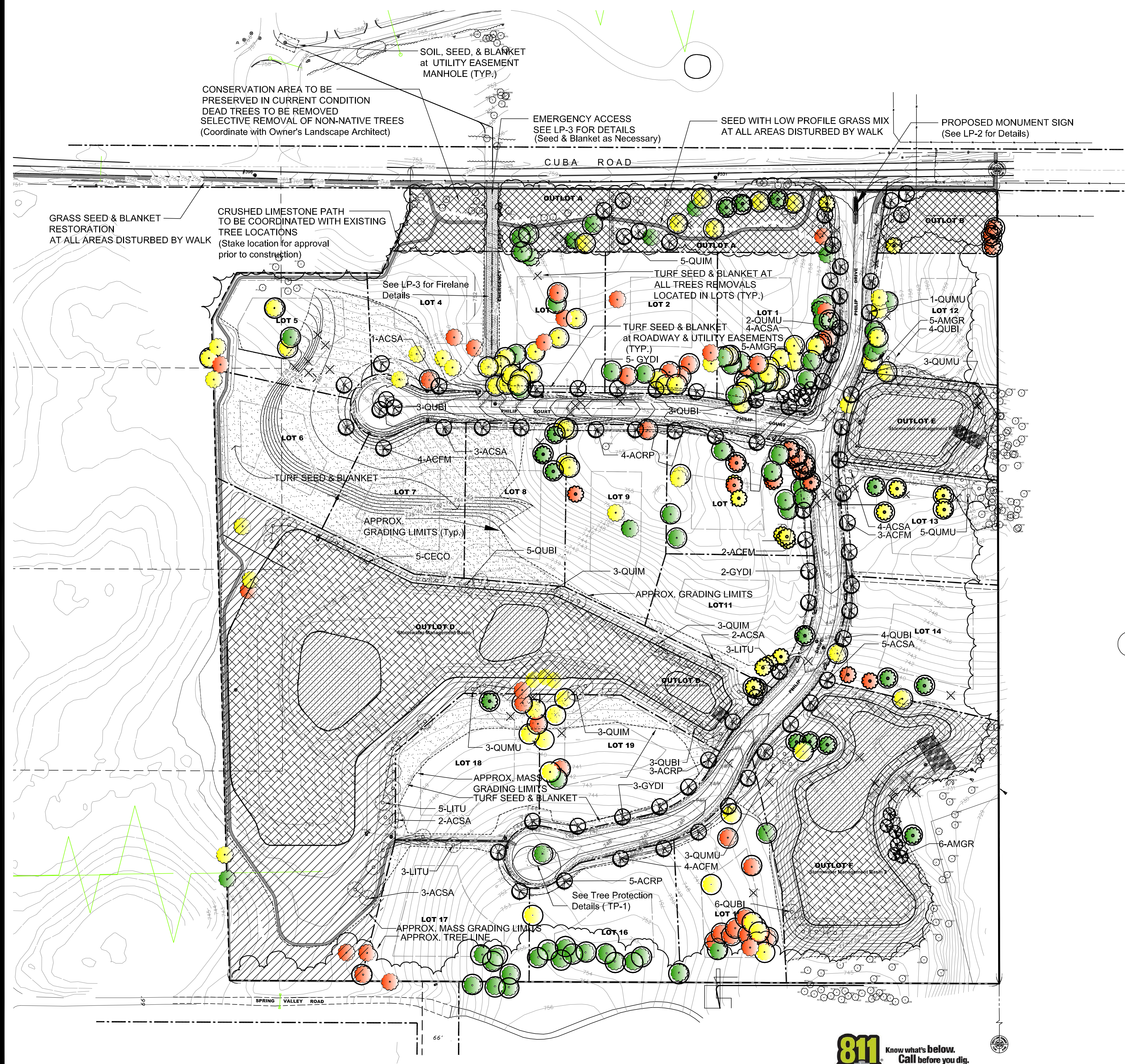
2 TYPICAL TREE PROTECTION FENCE
SCALE: NTS

ISSUED FOR: _____ DATE: _____	
Village Submittal 4-17-2023	
REV Tree Survey-Village Submittal 11-10-20	
Village Submittal 3-9-2020	
PRINCIPAL: _____	
PROJECT NUMBER: 202310	DESIGNED BY: LD
SCALE: AS NOTED	REVIEWED BY: LD
DATE: 2-1-2020	PROJECT MANAGER: LD
SHEET NUMBER: TS-1	

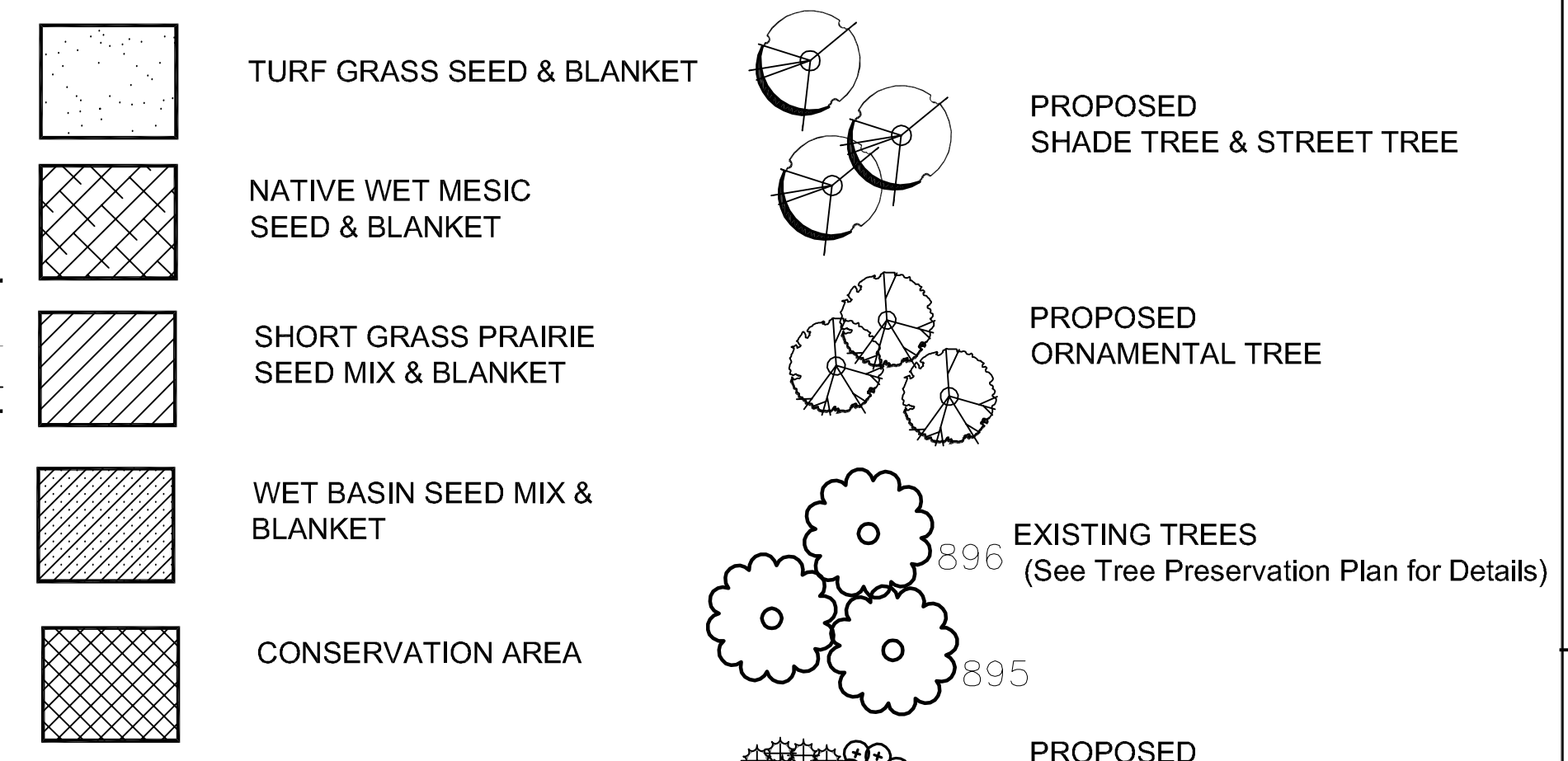
TAG NO.	SIZE	TYPE	Scientific Name	Common Name	Condition	Heritage Tree
31	18"	Deciduous	Quercus rubra	Red Oak	Good	X
32	18"	Deciduous	Acer saccharum	Sugar Maple	Good	X
33	36"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
34	18"	Deciduous	Quercus rubra	Red Oak	Good	X
35	24"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
437	18"	Deciduous	Prunus serotina	Black Cherry	Good	X
438	14"	Deciduous	Prunus serotina	Black Cherry	Good	X
439	12"	Deciduous	Prunus serotina	Black Cherry	Good	X
440	14"	Deciduous	Acer negundo	Boxelder	Poor	
441	24"	Deciduous	Acer saccharum	Sugar Maple	Poor	X
442	18"	Deciduous	Gleditsia tricanthos	Honeylocust	Poor	
443	18"	Deciduous	Gleditsia tricanthos	Honeylocust	Poor	
474	22"	Deciduous	Prunus serotina	Black Cherry	Poor	X
475	18"	Deciduous	Prunus serotina	Black Cherry	Poor	X
476	18"	Deciduous	Prunus serotina	Black Cherry	Poor	X
601	13"	Deciduous	Acer negundo	Boxelder	Poor	
602	26"	Deciduous	Acer platanoides	Norway Maple	Fair	
603	23"	Deciduous	Acer platanoides	Norway Maple	Good	
725	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	Remove
726	21"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	
727	21"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	Remove
728	36"	Deciduous	Quercus palustris	Pin Oak	Good	X
729	CLUMP 3-8"	Deciduous	Crataegus mollis	Downy Hawthorn	Dead	Remove
730	CLUMP 2-8"	Deciduous	Crataegus mollis	Downy Hawthorn	Dead	Remove
731	27"	Deciduous	Quercus palustris	Pin Oak	Good	X
732	15"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
733	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
734	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
735	24"	Deciduous	Quercus rubra	Red Oak	Fair	X
736	CLUMP 3-6"	Deciduous	Euonymus atropurpureus	Eastern Wahoo	Fair	
737	CLUMP 5-6"	Deciduous	Euonymus atropurpureus	Eastern Wahoo	Fair	
738	CLUMP 5-4"	Deciduous	Euonymus atropurpureus	Eastern Wahoo	Fair	
739	18"	Deciduous	Acer saccharum	Sugar Maple	Dead	Remove
740	10"	Deciduous	Malus Sp.	Crabapple	Fair	
741	8"	Deciduous	Malus Sp.	Crabapple	Dead	Remove
742	CLUMP 2-10"	Deciduous	Malus Sp.	Crabapple	Dead	Remove
743	CLUMP 3-6"	Deciduous	Malus Sp.	Crabapple	Dead	Remove
744	10"	Deciduous	Prunus serotina	Black Cherry	Fair	X
745	8"	Deciduous	Prunus serotina	Black Cherry	Fair	X
746	8"	Deciduous	Prunus serotina	Black Cherry	Fair	Remove
747	10"	Deciduous	Ginkgo biloba	Ginkgo	Fair	
748	12"	Deciduous	Prunus serotina	Black Cherry	Fair	X
749	12"	Deciduous	Prunus serotina	Black Cherry	Fair	X
750	CLUMP 2-8"	Deciduous	Prunus serotina	Black Cherry	Fair	X
751	CLUMP 2-10"	Deciduous	Prunus serotina	Black Cherry	Fair	X
752	CLUMP 3-6"	Deciduous	Crataegus mollis	Downy Hawthorn	Dead	Remove
753	CLUMP 2-6"	Deciduous	Crataegus mollis	Downy Hawthorn	Dead	Remove
754	CLUMP 2-6"	Deciduous	Crataegus mollis	Downy Hawthorn	Dead	Remove
755	15"	Deciduous	Celtis occidentalis	Common Hackberry	Dead	Remove
756	18"	Deciduous	Celtis occidentalis	Common Hackberry	Good	X
757	15"	Deciduous	Ulmus americana	American Elm	Fair	X
758	24"	Deciduous	Tilia americana	Linden / Basswood	Dead	Remove
759	27"	Deciduous	Tilia americana	Linden / Basswood	Fair	X
760	8"	Deciduous	Ulmus americana	American Elm	Dead	Remove
761	8"	Deciduous	Prunus serotina	Black Cherry	Fair	X
762	27"	Deciduous	Celtis occidentalis	Common Hackberry	Fair	X
763	6"	Deciduous	Acer saccharum	Sugar Maple	Fair	Remove
764	8"	Deciduous	Prunus serotina	Black Cherry	Dead	Remove
765	8"	Deciduous	Prunus serotina	Black Cherry	Poor	Remove
766	15"	Deciduous	Celtis occidentalis	Common Hackberry	Poor	Remove
767	18"	Deciduous	Quercus rubra	Red Oak	Good	X
768	18"	Deciduous	Quercus rubra	Red oak	Good	X
769	CLUMP 5-12"	Deciduous	Prunus serotina	Black Cherry	Good	X
770	Deciduous	Acer saccharum	Sugar Maple	Good	X	
771	12"	Deciduous	Acer saccharum	Sugar Maple	Good	X
772	15"	Deciduous	Morus alba	White Mulberry	Fair	
773	21"	Deciduous	Morus alba	White Mulberry	Fair	
774	27"	Deciduous	Quercus palustris	Pin Oak	Good	X
775	21"	Deciduous	Quercus palustris	Pin Oak	Good	X
776	10"	Deciduous	Acer negundo	Boxelder	Fair	
777	10"	Deciduous	Prunus serotina	Black Cherry	Fair	X
778	8"	Deciduous	Prunus serotina	Black Cherry	Fair	X
779	12"	Deciduous	Acer negundo	Boxelder	Fair	
780	15"	Deciduous	Prunus serotina	Black Cherry	Fair	X
781	12"	Deciduous	Acer negundo	Box Elder	Fair	
782	CLUMP 3-6"	Deciduous	Prunus serotina	Box Elder	Fair	
783	15"	Deciduous	Acer negundo	Box Elder	Poor	
784	8"	Deciduous	Malus Sp.	Crabapple	Fair	
785	10"	Deciduous	Celtis occidentalis	Common Hackberry	Fair / Poor	
786	24"	Deciduous	Celtis occidentalis	Common Hackberry	Good	X
787	10"	Deciduous	Juglans nigra	Black Walnut	Fair	
788	8"	Deciduous	Malus Sp.	Crabapple	Poor	
789	10"	Deciduous	Acer saccharum	Sugar Maple	Good	X
790	12"	Deciduous	Acer saccharum	Sugar Maple	Good	X
791	15"	Deciduous	Prunus serotina	Black Cherry	Fair	
792	8"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
793	10"	Deciduous	Acer saccharum	Sugar Maple	Good	X
794	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
795	8"	Deciduous	Prunus serotina	Black Cherry	Poor	X
796	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
797	12"	Deciduous	Prunus serotina	Black Cherry	Fair	X
798	UNUSED	Deciduous				
799	CLUMP 4-12"	Deciduous	Prunus serotina	Black Cherry	Fair	X
800	12"	Deciduous	Prunus serotina	Black Cherry	Fair	X
801	12"	Deciduous	Acer saccharum	Sugar Maple	Good	X
802	10"	Deciduous	Acer saccharum	Sugar Maple	Good	X
803	8"	Deciduous	Acer saccharum	Sugar Maple	Good	X
804	12"	Deciduous	Acer saccharum	Sugar Maple	Good	X
805	8"	Deciduous	Acer saccharum	Sugar Maple	Good	X

806	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
807	8"	Deciduous	Acer saccharum	Sugar Maple	Good	X
808	8"	Deciduous	Acer saccharum	Sugar Maple	Good	X
809	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
810	12"	Deciduous	Acer saccharum	Sugar Maple	Good	X
811	8"	Deciduous	Acer saccharum	Sugar Maple	Good	X
812	8"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
813	8"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
814	10"	Deciduous	Acer saccharum	Sugar Maple	Good	X
815	6"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
816	6"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
817	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
818	36"	Deciduous	Acer saccharum	Sugar Maple	Good	X
819	24"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
820	15"	Deciduous	Prunus serotina	Black Cherry	Fair	
821	21"	Deciduous	Acer saccharum	Sugar Maple	Good	X
822	21"	Deciduous	Quercus palustris	Pin Oak	Fair	X
823	18"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
824	18"	Deciduous	Acer saccharum	Sugar Maple	Good	X
825	15"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
826	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
827	12"	Deciduous	Acer saccharum	Sugar Maple	Good	X
828	15"	Deciduous	Acer saccharum	Sugar Maple	Poor	X
829	21"	Deciduous	Ulmus americana	American Elm	Good	X
830	6"	Deciduous	Prunus serotina	Black Cherry	Dead	
831	24"	Deciduous	Fraxinus pennsylvanica	Green Ash	Good	
832	10"	Deciduous	Acer saccharum	Sugar Maple	Good	X
833	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	
834	CLUMP 2-10"	Deciduous	Malus Sp.	Crabapple	Poor	
835	15"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	Remove
836	8"	Deciduous	Morus alba	Mulberry	Fair	
837	6"	Deciduous	Tilia americana	American Linden/ Basswood	Fair	X
838	24"	Deciduous	Quercus rubra	Red Oak	Good	X
839	24"	Deciduous	Quercus palustris	Pin Oak	Good	X
840	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Good	
841	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	
842	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Poor	
843	12"	Deciduous	Quercus alba	White Oak	Fair	X
844	CLUMP 3-10"	Deciduous	Acer ginnala	Amur Maple	Dead	Remove
845	24"	Deciduous	Quercus robur	English Oak	Dead	
846	CLUMP 2-15"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
847	10"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
848	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
849	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
850	15"	Deciduous	Fraxinus pennsylvanica	Green Ash	Dead	Remove
851	18"	Deciduous	Acer saccharum	Sugar Maple	Good	X
852	12"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
853	10"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
854	8"	Deciduous	Prunus serotina	Black Cherry	Poor	Remove
855	CLUMP 10"/16"	Deciduous	Malus Sp.	Crabapple	Poor	Remove
856	15"	Deciduous	Acer saccharum	Sugar Maple	Good	Remove
857	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	Remove
858	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
859	15"	Deciduous	Quercus palustris	Pin Oak	Poor	X
860	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
861	21"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
862	12"	Deciduous	Prunus serotina	Black Cherry	Fair	
863	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
864	12"	Deciduous	Acer saccharum	Sugar Maple	Dead	Remove
865	18"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
866	8"	Deciduous	Prunus serotina	Black Cherry	Fair	
867	8"	Deciduous	Prunus serotina	Black Cherry	Poor	
868	10"	Deciduous	Tilia americana	Linden / Basswood	Fair	
869	24"	Deciduous	Ginkgo biloba	Ginkgo	Fair	
870	36"	Deciduous	Aver plantanoides	Norway Maple	Good	
871	10"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Dead	Remove
872	18"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Fair	
873	8"	Deciduous	Pyrus calleryana	Common Ornamental Pear	Good	
874	15"	Deciduous	Acer saccharum	Sugar Maple	Good	X
875	8"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
876	15"	Deciduous	Gleditsia tricanthos	Common Honeylocust	Good	
877	CLUMP 2-10"	Deciduous	Crataegus mollis	Downy Hawthorn	Dead	Remove
878	CLUMP 10"/16"	Deciduous	Crataegus mollis	Downy Hawthorn	Dead	Remove
879	CLUMP 3-10"	Deciduous	Malus Sp.	Crabapple	Dead	Remove
880	15"	Deciduous	Quercus palustris	Pin Oak	Good	X
881	18"	Deciduous	Quercus bicolor	Swamp White Oak	Good	X
882	21"	Deciduous	Quercus palustris	Pin Oak	Good	X
883	18"	Deciduous	Tilia americana	Linden / Basswood	Good	X
884	CLUMP 3-8"	Deciduous	Malus Sp.	Crabapple	Dead	Remove
885	CLUMP 2-8"	Deciduous	Malus Sp.	Crabapple	Dead	Remove
886	15"	Deciduous	Prunus serotina	Black Cherry	Dead	Remove
887	CLUMP 2-15"	Deciduous	Prunus serotina	Black Cherry	Poor	X
888	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
889	18"	Deciduous	Ostra virginiana	Ironwood	Poor	X
890	21"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
891	CLUMP 2-6"	Deciduous	Pyrus calleryana	Common Ornamental Pear	Fair	
892	18"	Deciduous	Acer saccharum	Sugar Maple	Good	X
893	8"	Deciduous	Rhamnus cathartica	Common Buckthorn	Poor	
894	21"	Deciduous	Acer saccharum	Sugar Maple	Fair	X
895	24"	Deciduous	Acer saccharum	Sugar Maple	Good	X
896	24"	Deciduous	Quercus palustris	Pin Oak	Fair	X
897	18"	Deciduous	Quercus palustris	Pin Oak	Fair	Remove
898	18"	Deciduous	Quercus palustris	Pin Oak	Fair	Remove
899	15"	Deciduous	Quercus palustris	Pin Oak	Fair	Remove
900	15"	Deciduous	Quercus palustris	Pin Oak	Fair	X
901	12"	Deciduous	Quercus palustris	Pin Oak	Fair	X
902	18"	Deciduous	Quercus palustris	Pin Oak	Fair	X
903	18"	Deciduous	Quercus palustris	Pin Oak	Good	X
904	8"	Deciduous	Betula Species	White Birch	Fair	
905	12"	Deciduous	Quercus palustris	Pin Oak	Fair	X
906	10"	Deciduous	Prunus serotina	Black Cherry	Fair	X
907	CLUMP 3-15"	Deciduous	Betula nigra	River Birch	Fair	
908	CLUMP 10"/18"	Deciduous	Betula nigra	River Birch	Fair	
909	10"	Deciduous	Morus alba	Mulberry	Poor	
910	36"	Deciduous	Acer negundo	Boxelder	Dead	Remove
911	10"	Deciduous	Prunus serotina	Black Cherry	Poor	X
912	8"	Deciduous	Prunus serotina	Black Cherry	Good	X

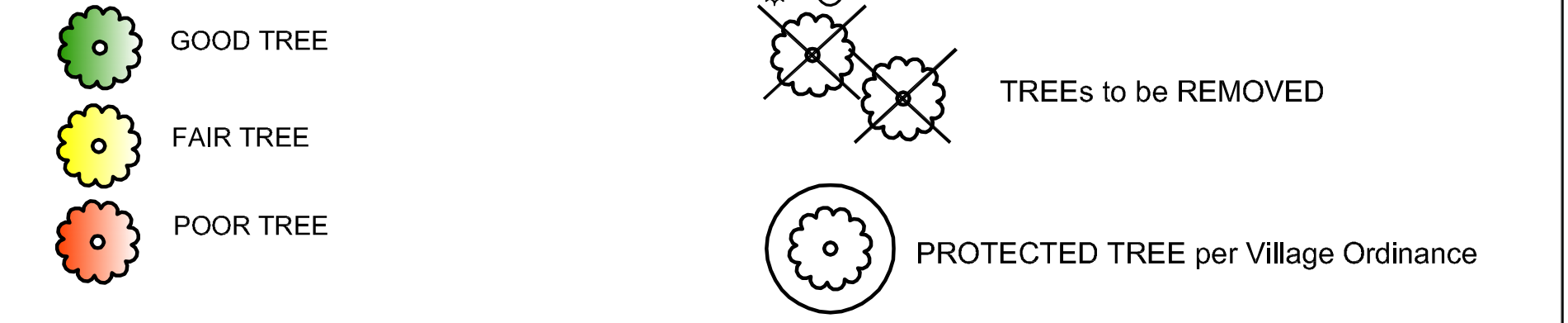
913	36"	Deciduous	Acer negundo	Boxelder	Dead	Remove
914	8"	Deciduous	Prunus serotina	Black Cherry	Fair	X
915	8"	Deciduous	Rhamus cathartica	Common Buckthorn	Poor	
916	6"	Deciduous	Prunus serotina	Black Cherry	Fair	X
917	CLUMP 4-15"	Deciduous	Alnus negundo	Box Elder	Dead	Remove
918	8"	Deciduous	Prunus serotina	Black Cherry	Fair	X
919	18"	Deciduous	Quercus coccinea	Scarlet oak	Fair	X
920	8"	Coniferous	Juniperus	Cypress	Poor	
921	21"	Deciduous	Quercus coccinea	Scarlet Oak	Fair	X
922	21"	Deciduous	Quercus			



Planting Legend:



Existing Tree Legend:



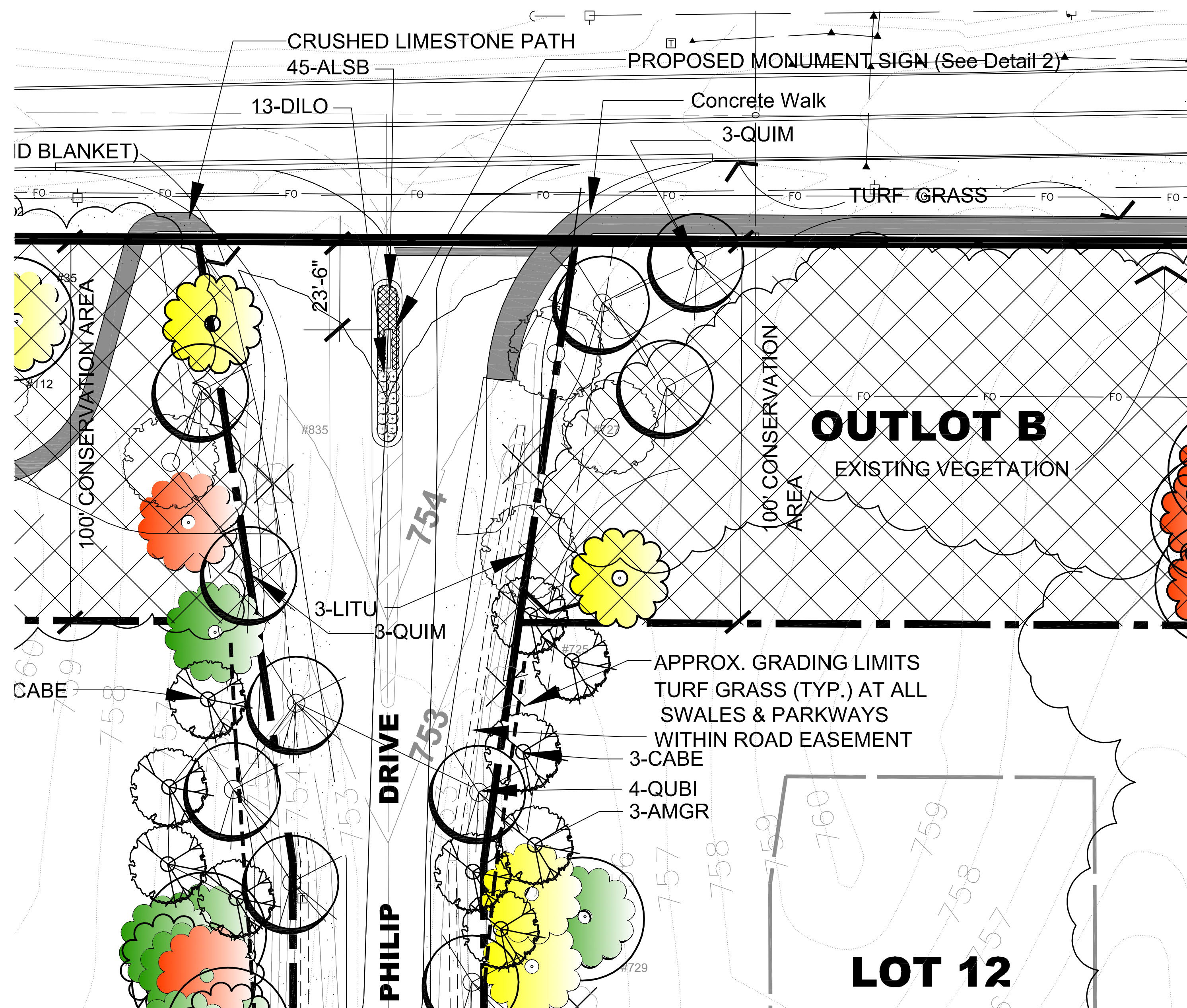
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
QUIM	20	Quercus imbricaria	Shingle Oak	2.5" Cal.	BRANCHED AT 6'
QUMU	20	Quercus muehlenbergii	Chinquapin Oak	2.5" Cal.	
QUBI	29	Quercus bicolor	Swamp White Oak	2.5" Cal.	
ACRP	12	Acer rubrum 'Redpointe'	Redpointe Red Maple	2.5" Cal.	
ACFM	13	Acer freemanii 'Marmo'	Marmo Freeman Maple	2.5" Cal.	
CEOC	7	Celtis occidentalis	Common Hackberry	2.5" Cal.	
GYDI	10	Gymnocladus dioica	Kentucky Coffeetree	2.5" Cal.	
LITU	14	Liriodendron tulipifera	Tuliptree	2.5" Cal.	
ACSA	24	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2.5" Cal.	BRANCHED AT 6'
ORNAMENTAL TREES & PERENNIALS, SHRUBS					
AMGR	19	Amelanchier grandiflora 'Autumn Brilliance'	Serviceberry	6' ht. Clump	Heavy Specimen
CABE	7	Carpinus caroliniana	American Hornbeam	6-8' ht. Clump	Heavy Specimen
DILO	13	DierVilla lonicera	Dwarf Bush Honeysuckle	#5 Cont.	
ALSB	45	Allium 'Summer Beauty'	Dwarf Bush Honeysuckle	#1	

2 PLANT LIST -

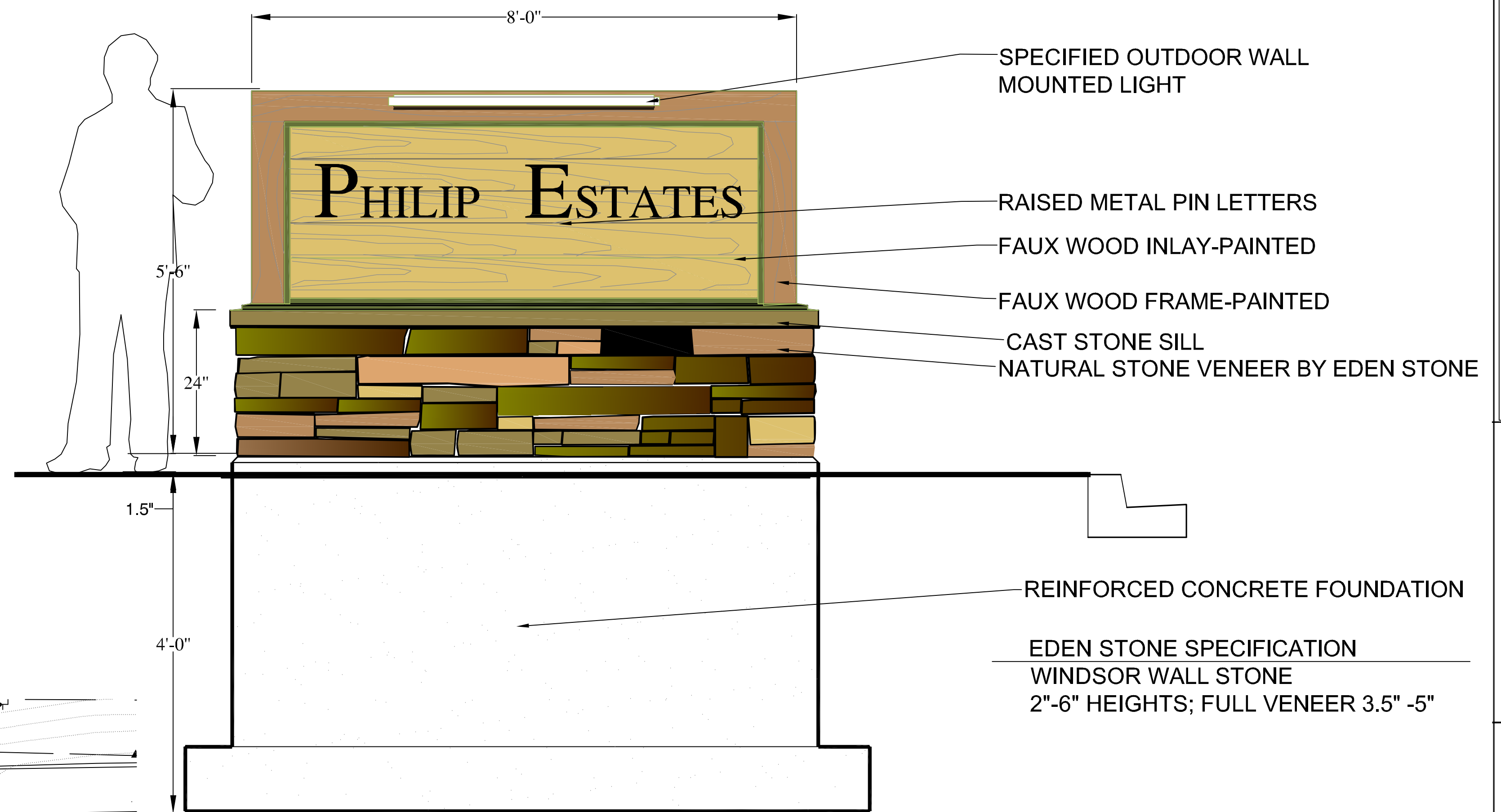
- GENERAL NOTES:**
- THE LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT J.U.L.I.E., THE COUNTY PUBLIC WORKS DEPARTMENT, THE VILLAGE OF LONG GROVE, AND ANY OTHER PUBLIC OR PRIVATE AGENCY NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION.
 - THIS DRAWING IS PART OF A COMPLETE SET OF BID DOCUMENTS, SPECIFICATIONS, ADDITIONAL DRAWINGS, AND EXHIBITS. UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON SITE, AND REVIEWING ALL RELATED DOCUMENTS MENTIONED HEREIN, INCLUDING ANY RELATED DOCUMENTS PREPARED BY THE PROJECT ENGINEERS, HAEGER & CROSS ENGINEERING.
 - THE LANDSCAPE ARCHITECT AND CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE WORK PRODUCT THEREIN BEYOND A REASONABLE STANDARD OF PROFESSIONAL CARE.
 - IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITH THE WORK PRODUCT, THE LANDSCAPE ARCHITECT SHALL BE PROMPTLY NOTIFIED SO THAT THEY MAY HAVE THE OPPORTUNITY TO TAKE ANY STEPS NECESSARY TO RESOLVE THE ISSUE. FAILURE TO PROMPTLY NOTIFY THE OWNER AND THE LANDSCAPE ARCHITECT OF SUCH CONDITIONS SHALL ABSOLVE THEM FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE.
 - ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE OWNER AND THE LANDSCAPE ARCHITECT OR IN CONTRADICTION TO THE OWNER AND THE LANDSCAPE ARCHITECT'S WORK PRODUCT OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE OWNER AND THE LANDSCAPE ARCHITECT BUT FOR THE PARTIES RESPONSIBLE FOR THE TAKING OF SUCH ACTION.
 - THE LOCATION OF THE UNDERGROUND UTILITIES AND/OR DRIVEWAYS ARE LOCATED ON ENGINEERING DRAWINGS PREPARED BY THE PROJECT ENGINEER, HAEGER & CROSS ENGINEERING AND ARE PRELIMINARY. THE MOST CURRENT REVISIONS ARE HEREIN MADE PART OF THIS DOCUMENT.
 - UNDERGROUND UTILITIES EXIST THROUGHOUT THIS SITE AND MUST BE LOCATED PRIOR TO CONSTRUCTION.
 - WHERE UNDERGROUND UTILITIES EXIST, FIELD ADJUSTMENT MUST BE APPROVED BY A REPRESENTATIVE OF THE OWNER PRIOR TO INSTALLATION.
 - NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT ASSUMES RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE CONTRACTOR'S ACCURACY IN LOCATING THE INDICATED PLANT MATERIAL.
 - UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED WITHOUT REFERENCING THE ABOVE MENTIONED DOCUMENTS.
 - CIVIL ENGINEERING BASE INFORMATION HAS BEEN PROVIDED BY CROSS ENGINEERING. SEE CROSS ENGINEERING DRAWINGS FOR UTILITY LOCATIONS. THE LOCATIONS OF VARIOUS UTILITIES ON THIS SET OF DRAWINGS IS ONLY PRELIMINARY AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES.
 - REFER TO CIVIL ENGINEERING DOCUMENTS FOR DETAILED INFORMATION REGARDING SIZE, LOCATION, DEPTH AND TYPE OF UTILITIES.
 - LOCATIONS OF ALL PLANT MATERIAL ILLUSTRATED ON THE LANDSCAPE PLANS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD.
 - THE PLANS CONTAINED HEREIN HAVE BEEN PREPARED TO MEET CERTAIN LANDSCAPING ORDINANCE REQUIREMENTS. ANY DEVIATION FROM THESE PLANS MAY RENDER THEM IN NON-COMPLIANCE WITH THE VILLAGE OF LONG GROVE LANDSCAPING ORDINANCE.



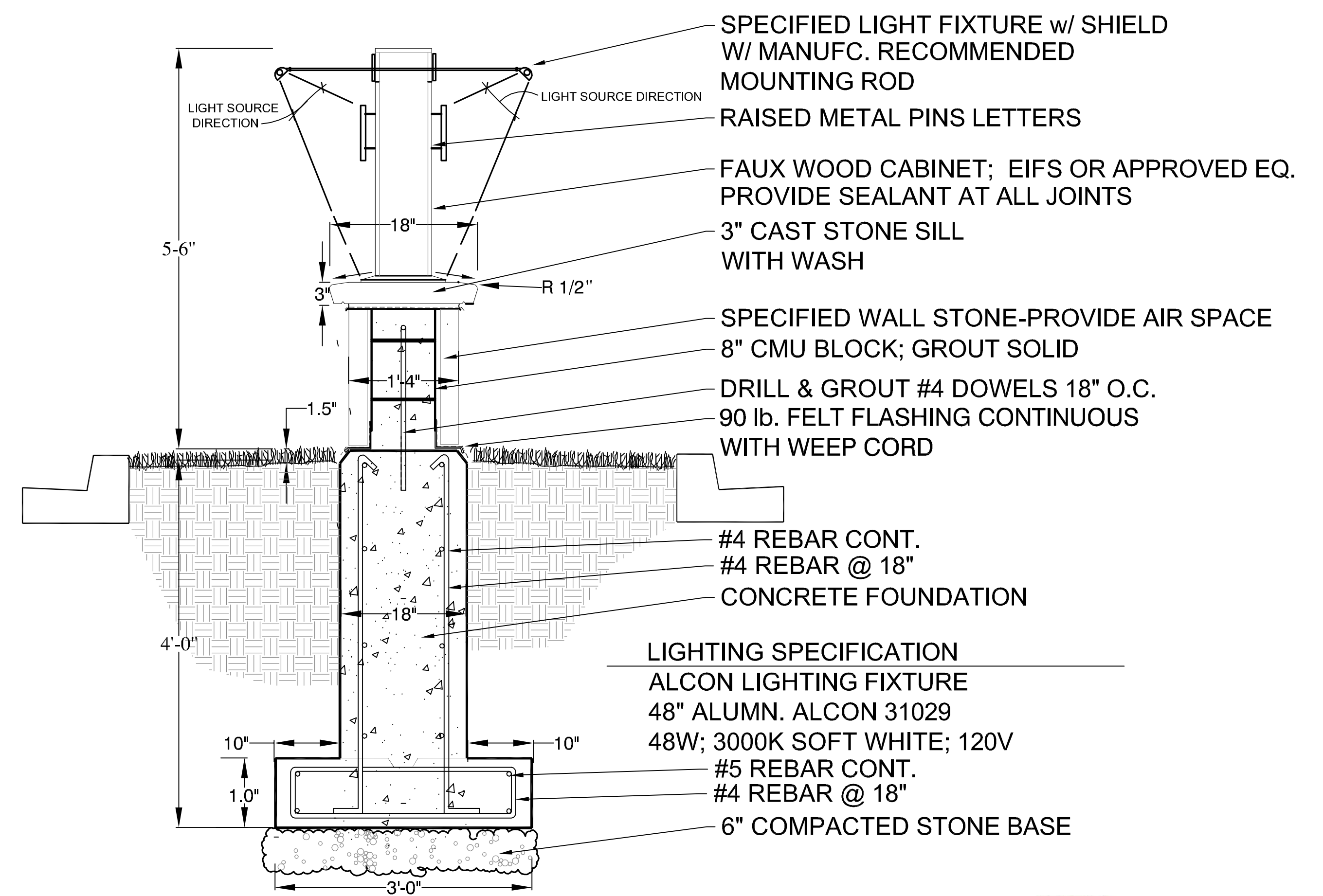
1 LANDSCAPE PLAN -
 Scale: 1"=80'



1 LANDSCAPE PLAN AT ENTRANCE -
 Scale:NTS



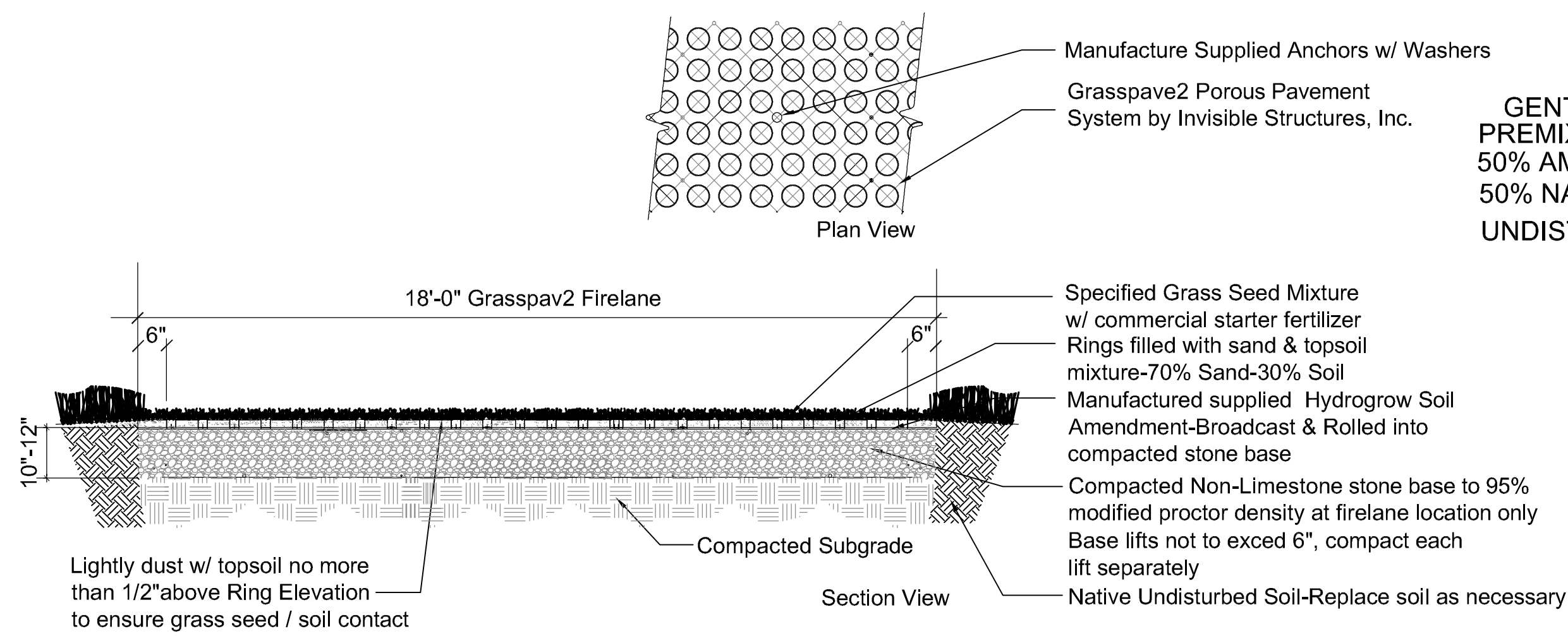
2 MONUMENT SIGN ELEVATION -
 Scale:NTS



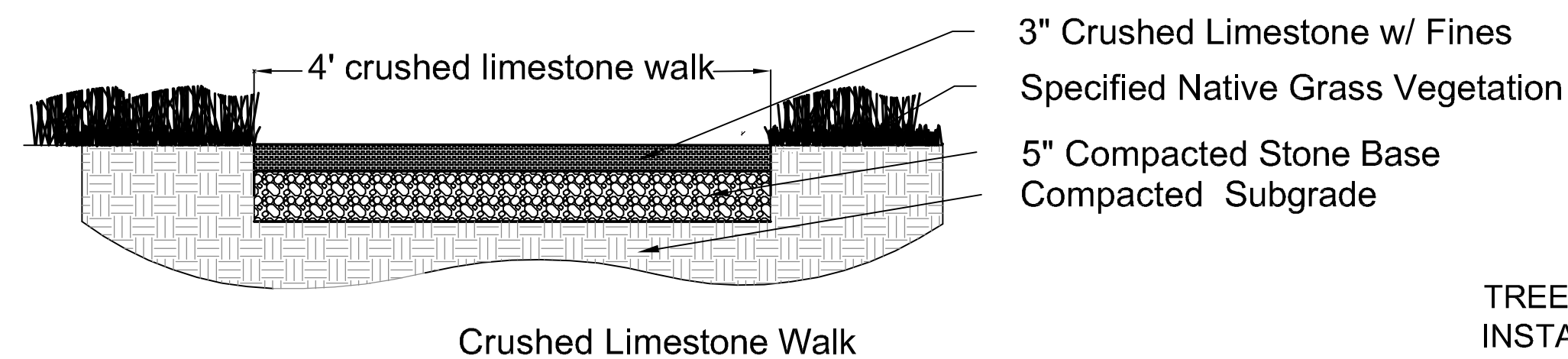
3 MONUMENT SIGN SECTION -
 Scale:NTS

ISSUED FOR:	DATE:
Village Submittal	4-17-2020
REV Tree Survey-Village Submittal	11-10-20
Village Submittal	3-9-2020
PROJECT NUMBER:	DESIGNED BY:
202310	LD
SCALE:	REVIEWED BY:
AS NOTED	LD
DATE:	PROJECT MANAGER:
2-1-2020	LD
SHEET NUMBER:	

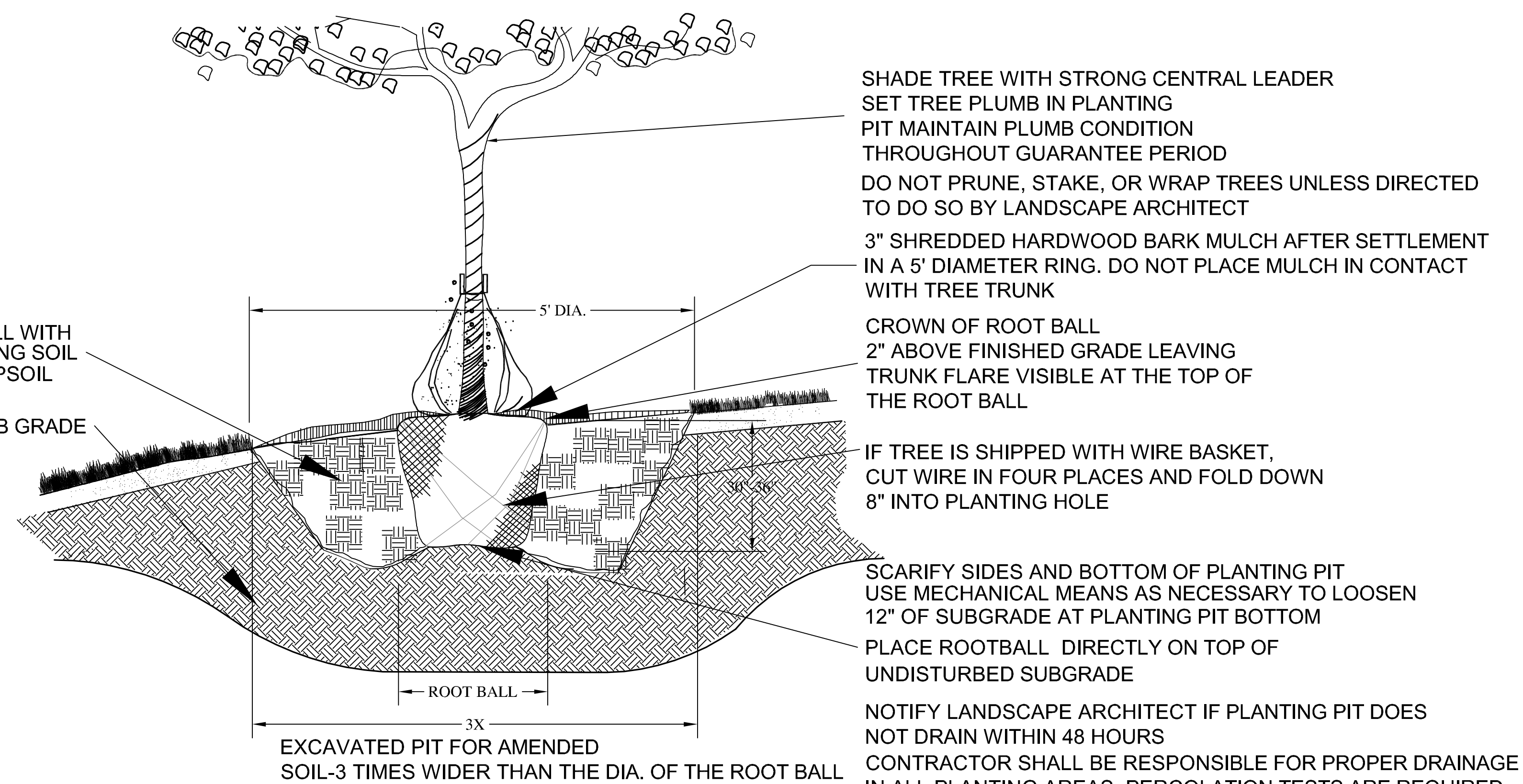




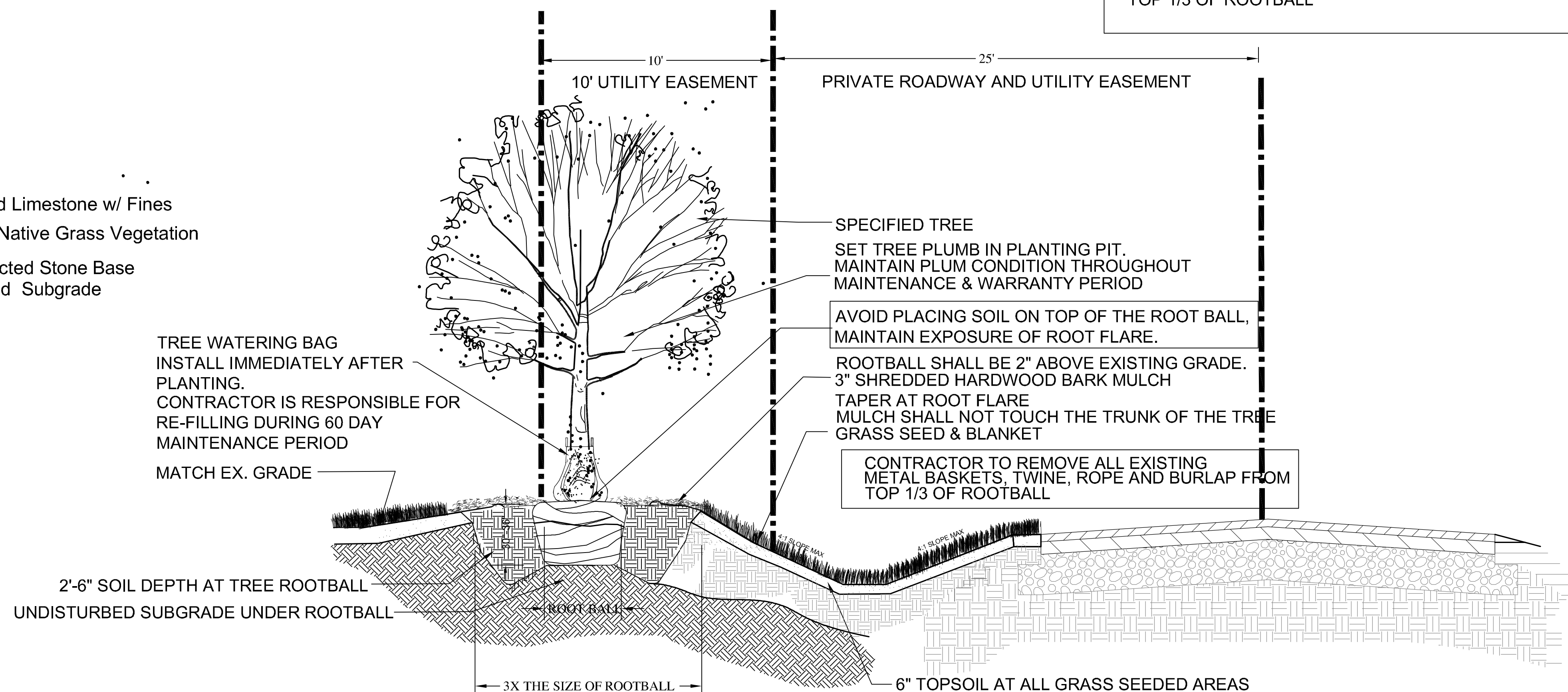
1 DETAIL AT FIRELANE
N.T.S.



3 LIMESTONE PATH DETAIL
N.T.S.



2 TYPICAL TREE PLANTING DETAIL
N.T.S.



4 TYPICAL PARKWAY TREE PLANTING DETAIL AT ROADWAY & UTILITY EASEMENT
N.T.S.

BHEET TITLE:	
ISSUED FOR:	DATE:
Village Submittal	4-17-2023
REV Time Survey-Village Submittal	11-10-20
Village Submittal	3-9-2020
PRINCIPAL:	
PROJECT NUMBER:	DESIGNED BY:
202310	LD
SCALE:	REVIEWED BY:
AS NOTED	LD
DATE:	PROJECT MANAGER:
2-1-2020	LD
SHEET NUMBER:	

Grasses, Sedges & Rushes		
Scientific Name	Common Name	OZ/Acre
Bouteloua curtipendula	SIDE-OATS GRAMA	192.0000
Lymus canadensis	CANADA WILD RYE	16.0000
Panicum virgatum	SWITCH GRASS	4.0000
Schizachyrium scoparium	LITTLE BLUESTEM GRASS	96.0000

Flowers & Other Broadleaves		
Scientific Name	Common Name	OZ/Acre
Allium cernuum	NODDING WILD ONION	3.0000
Amorpha canescens	LEAD PLANT	1.0000
Asclepias tuberosa	BUTTERFLY WEED	8.0000
Astragalus canadensis	CANADIAN MILK VETCH	1.0000
Baptisia alba	WHITE WILD INDIGO	4.0000
Chamaecrista fasciculata	PARTIDGE PEA	16.0000
Coreopsis palmata	PRAIRIE COREOPSIS	4.0000
Dalea purpurea	PURPLE PRAIRIE CLOVER	6.0000
Desmanthus illinoensis	ILLINOIS SENSITIVE PLANT	1.5000
Echinacea pallida	PALE PURPLE CONEFLOWER	16.0000
Echinacea purpurea	PURPLE CONEFLOWER	8.0000
Eryngium yuccifolium	RATTLESNAKE MASTER	2.0000
Euphorbia corollata	FLOWERING SPURGE	2.0000
Helopsis helianthoides	FALSE SUNFLOWER	4.0000
Lespedeza capitata	ROUND-HEADED BUSH CLOVER	4.0000
Liatris aspera	ROUGH BLAZING STAR	4.0000
Monarda fistulosa	WILD BERGAMOT	1.0000
Parthenium integrifolium	WILD QUININE	2.0000
Penstemon digitalis	FOGLOVE BEARD TONGUE	3.0000
Potentilla arguta	PRAIRIE CINQUEFOIL	0.2500
Pycnanthemum tenuifolium	SLENDER MOUNTAIN MINT	0.2500
Ratibida pinnata	YELLOW CONEFLOWER	2.0000
Rudbeckia fulgida var. sullivantii	SHOWY BLACK-EYED SUSAN	10.0000
Rudbeckia hirta	BLACK-EYED SUSAN	8.0000
Rudbeckia subtomentosa	SWEET BLACK-EYED SUSAN	0.7500
Solidago juncea	EARLY GOLDENROD	0.2500
Solidago rigida	STIFF GOLDENROD	0.5000
Symphotrichum ericoides	HEATH ASTER	0.2500
Symphotrichum laeve	SMOOTH BLUE ASTER	1.0000
Symphotrichum oolentangiense	SKY-BLUE ASTER	1.0000
Tradescantia ohiensis	COMMON SPIDERWORT	5.0000
Verbena stricta	HOARY Vervain	3.0000
Zizia aurea	GOLDEN ALEXANDERS	5.0000

Recommended Plug Species to Supplement Low Profile Prairie Seed Mix

Scientific Name	Common Name	PLUGS/FLAT	FLATS/ACRE
Anemone canadensis	MEADOW ANEMONE (1, 3)	38	43
Asclepias verticillata	WHORLED MILKWEED (2, 3)	38	20
Baptisia leucophaea	CREAM WILD INDIGO (1, 2, 3)	38	20
Ceanothus americanus	NEW JERSEY TEA (1, 3)	38	15
Dodecatheon meadia	SHOOTING STAR (1, 2)	38	86
Gentiana andrewsii	BOTTLE GENTIAN (1, 2, 4)	38	20
Gentiana flavida	YELLOWISH GENTIAN (1, 4)	38	15
Gentiana puberulenta	PRAIRIE GENTIAN (1, 2, 4, 5)	38	15
Geum triflorum	PRAIRIE SMOKE (1, 2)	38	86
Heuchera richardsonii	PRAIRIE ALUM ROOT (1, 2)	38	20
Liatris pycnostachya	PRAIRIE BLAZING STAR (1, 2)	38	86
Penstemon pallidus	PALE BEARD TONGUE (5)	38	20
Phlox pilosa	SAND PRAIRIE PHLOX (1, 2, 5)	38	20
Rosa blanda	EARLY WILD ROSE (1, 3)	1	15
Rosa carolina	PASTURE ROSE (1, 3)	1	25
Ruellia humilis	HAIKY RUELLIA (3)	38	20
Sisyrinchium albidum	COMMON BLUE-EYED GRASS (2)	38	43
Sporobolus heterolepis	PRAIRIE DROPSEED (1, 2)	38	86
Veronicastrum virginicum	COLVER'S ROOT (1)	38	43
Viola pedata lineariloba	BIRD'S FOOT VIOLET (1, 5)	38	86

1 LOW PROFILE GRASS SEED MATRIX

Grasses, Sedges, & Rushes				
SCIENTIFIC NAME	COMMON NAME	OZ/ACRE	LB/ACRE	
Carex comosa	BRISTLY SEDGE	8.0000	0.50	
Carex hystericina	PORCUPINE SEDGE	4.0000	0.25	
Carex lacustris	COMMON LAKE SEDGE	2.5000	0.16	
Carex lupulina	COMMON HOP SEDGE	8.0000	0.50	
Carex stricta	COMMON TUSsock SEDGE	1.0000	0.06	
Carex vulpinoidea	BROWN FOX SEDGE	4.0000	0.25	
Eleocharis erythropoda	RED-ROOTED SPIKE RUSH	1.0000	0.06	
Juncus effusus	COMMON RUSH	1.0000	0.06	
Leersia oryzoides	RICE CUT GRASS	6.0000	0.38	
Schoenoplectus tabernaemontani	GREAT BULRUSH	8.0000	0.50	
Scirpus atrovirens	DARK GREEN RUSH	4.0000	0.25	
Scirpus cyperinus	WOOL GRASS	2.0000	0.13	
	Grass/Sedge Subtotals		3.09	

Flowers & Other Broadleaves				
SCIENTIFIC NAME	COMMON NAME	OZ/ACRE	LB/ACRE	
Acorus calamus	SWEET FLAG	12.0000	0.75	
Alisma subcordatum	COMMON WATER PLANTAIN	4.0000	0.25	
Asclepias incarnata	SWAMP MILKWEED	4.0000	0.25	
Bidens cernua	NODDING BUR MARIGOLD	4.0000	0.25	
Bidens caranata	TALL SWAMP MARIGOLD	2.0000	0.13	
Eutrochium maculatum	SPOTTED JOE PYE WEED	0.7500	0.05	
Hibiscus laevis	HALBERD-LEAVED ROSE MALLOW	6.0000	0.38	
Iris virginica shrevei	BLUE FLAG	16.0000	1.03	
Ludwigia alternifolia	SEEDBOX	0.1250	0.01	
Lythrum alatum	WINGED LOOSESTRIFE	0.1250	0.01	
Mimulus ringens	MONKEY FLOWER	0.5000	0.03	
Sagittaria latifolia	COMMON ARROWHEAD	8.0000	0.50	
Solidago riddellii	RIDDELL'S GOLDENROD	1.0000	0.06	
	Broadleaf Subtotals		3.66	
	SEED MIX TOTALS		6.75	

2 WET BASIN SEED MATRIX

Grasses, Sedges & Rushes		
Scientific Name	Common Name	OZ/Acre
Calamagrostis canadensis	BLUE JOINT GRASS	2.0000
Carex comosa	BRISTLY SEDGE	2.0000
Carex cristatella	CRESTED OVAL SEDGE	1.0000
Carex frankii	BRISTLY CATTAIL SEDGE	2.5000
Carex hystericina	PORCUPINE SEDGE	2.0000
Carex lupulina	COMMON HOP SEDGE	16.0000
Carex scoparia	LANCE-FRUITED OVAL SEDGE	3.0000
Carex stipata	COMMON FOX SEDGE	1.0000
Carex vulpinoidea	BROWN FOX SEDGE	4.0000
Eleocharis acicularis	NEEDLE SPIKE RUSH	0.7500
Eleocharis erythropoda	RED-ROOTED SPIKE RUSH	1.0000
Elymus virginicus	VIRGINIA WILD RYE	48.0000
Glyceria striata	FOWL MANNA GRASS	2.0000
Juncus dudleyi	DUDLEY'S RUSH	0.2500
Juncus effusus	COMMON RUSH	1.0000
Leersia oryzoides	RICE CUT GRASS	8.0000
Scirpus atrovirens	DARK GREEN RUSH	4.0000
Scirpus cyperinus	WOOL GRASS	2.0000
Spartina pectinata	PRAIRIE CORD GRASS	6.0000

Flowers & Other Broadleaves		
Scientific Name	Common Name	OZ/Acre
Alisma subcordatum	COMMON WATER PLANTAIN	2.0000
Asclepias incarnata	SWAMP MILKWEED	16.0000
Boltonia asteroides var. recognita	FALSE ASTER	0.7500
Cassia hebecarpa	WILD SENNA	1.0000
Chelone glabra	TURTLEHEAD	1.0000
Eupatorium perfoliatum	COMMON BONESET	1.0000
Euthamia graminifolia	COMMON GRASS-LEAVED GOLDENROD	0.5000
Eutrochium maculatum	SPOTTED JOE PYE WEED	3.0000
Helenium autumnale	SNEEZEWEED	2.0000
Hibiscus laevis	HALBERD-LEAVED ROSE MALLOW	4.0000
Iris virginica shrevei	BLUE FLAG	16.0000
Lobelia siphilitica	GREAT BLUE LOBELIA	0.5000
Lythrum alatum	WINGED LOOSESTRIFE	0.0625
Mentha arvensis villosa	WILD MINT	1.0000
Mimulus ringens	MONKEY FLOWER	0.2500
Penthorum sedoides	DITCH STONECROP	0.5000
Verbena hastata	BLUE VERVAIN	6.0000

Recommended Plug Species to Supplement Seed Mix

Scientific Name	Common Name	Plugs/Flat	Flats/Acre	Plugs/Acre
Carex lupulina	Common Hop Sedge (2,3)	38	20.0	760.00
Carex stricta	Common Tussock Sedge (2,3)	38	20.0	760.00
Cassia hebecarpa	Wild Senna (2,3)	38	15.0	570.00
Doellingeria umbellata	Flat-Top Aster (1,2)	38	20.0	760.00
Filipendula rubra	Queen of the Prairie (1,2,5)	38	20.0	760.00
Gentiana andrewsii	Bottle Gentian (1,2,4)	38	15.0	570.00
Juncus torreyi	Torrey's Rush (5)	38	20.0	760.00
Liatris spicata	Marsh Blazing Star (1,2)	38	20.0	760.00
Lobelia cardinalis	Cardinal Flower (1,2,4)	38	86.0	3,268.00
Lycopus americanus	Common Water Horehound (5)	38	86.0	3,268.00
Onoclea sensibilis	Sensitive Fern (5)	1	250.0	250.00
Pedicularis lanceolata	Fen Betony (1,2,5)	38	15.0	570.00
Peltandra virginica	Arrow Arum (2,3)	38	86.0	3,268.00
Physostegia virginiana	Obedient Plant (2,3)	38	86.0	3,268.00
Sparganium eurycarpum	Common Bur Reed (1)	38	86.0	3,268.00
Spiraea alba	Meadowsweet (1,5)	1	25.0	25.00

3 WET MESIC SEED MATRIX

GENERAL NOTES FOR NATIVE GRASS MAINTENANCE & INSTALLATION

- If present, areas with compacted soils shall be disked or raked prior to seeding by working the topsoil to a minimum depth of three inches (preferably six inches). Soil aggregates shall not exceed one inch in the largest diameter. Remove all rock, limestone, tree roots to allow for maximum soil seed contact. Soil depth is 6" for all seeded areas.
- Remove all weed and non-native herbaceous plants with an approved herbicide or by hand-pulling or other approved methods.
- The optimal window for seeding is between August 20 and September 30th. Spring seeding will only be permitted with Landscape Architects approval. Spring seeding will require supplemental watering. Fall seeding will require supplemental watering.

SEEDING METHODS

- Broadcast:** Covercrop; The amount of seed sown shall be 33 lbs per acre of Seed Oats. Broadcast applied seed will be either rolled or hand-raked into the soil to ensure good soil-seed contact. Within 12 hours, if conditions permit roll seeded areas at right angles to the slope runoff with an approved type roller or cultipacker to firm the seedbed and place the seed in contact with the soil. Install with biodegradable straw blanket.
 - Hydroseeding:** The operator shall direct the spray toward the ground such that the water shall drill the seed into the soil and shall not direct the spray outward and across the area being seeded, as this will prevent good seed-soil contact.
 - Disc:** The disc proposed for use shall be in a good state of repair with sound, unbroken blades. The disc shall be weighted if necessary to achieve the required tillage depth.
- MAINTENANCE**
- Mowing Schedule**
- At the end of the first growing season, (Fall) mow native grasses to a height of four to six inches. Mowing heights are approximate and can be adjusted to maximize control of weeds, but minimize damage to fescue grass species.
 - A mower that chops the plants to facilitate rapid drying will be used, such as a flail-type mower, or weed wacker. Rotary mowers and sickles bar mower will not be used, as they tend to cut the plants leaving large material that can smother the fescue seedlings. Mowing the vegetation to this height will improve the amount of sunlight reaching the developing native seedlings, thereby encouraging their growth. Additionally, mowing the weedy vegetation prior to the plants setting seed will further reduce weed coverage.

Chemical Control

- Management of the vegetation in the native grass areas may include selective herbicide applications to control cool season weeds and non-native plantings.
- Herbicides shall be best quality materials with original manufacturer's labels and containers labeled with proper identification and intended use.
- Use non-staining materials.
- Herbicide shall be non-toxic to animal and aquatic life.
- Maintenance contractor shall submit for review and approval of all proposed herbicides to association and apply it in an appropriate manner to prevent killing of native species that may be present in close proximity.

Performance Standards

- At the end of the first year of monitoring, at least 90% of the vegetative coverage will consist of native species, cover crop, or seeded species as measured by aerial coverage.
- No single area of more than 1.0 square meters in size shall be devoid of native vegetation at any time after the first full year of growth after seeding.
- By the end of the 4th full growing season, non-native or weed species shall not comprise more than 25% of the overall vegetative cover. By the end of the 5th full growing season, at least 75% of the vegetative coverage will consist of installed (seeded) native species, not including annual cover crop species.
- Monitoring: A meander search will be conducted throughout the no-mow areas to assess the establishment of the fescue grasses. All vegetation encountered will be identified to species, percent of permanent grass coverage, and percent of weed coverage. Monitor sampling shall be done in the fall, for 5 growing seasons. Representative photographs will be taken at the time of sampling at permanent locations throughout the buffer areas. An annual monitoring report will be submitted in conjunction with the developers wetland consultant's report on an annual basis by January 31st of the year following each management season. Recommended adaptive management activities will be indicated in the report for the following year.

4 NATIVE SEED & FORB MAINTENANCE NOTES

The J N L Design Group, Inc.
 Planning + Landscape Architecture
 1955 Raymond Drive
 Suite 119
 Northbrook, Illinois 60062
 224-269-4290

Prepared For:
 Philip Estates, LLC
 8150 W. 159th Street
 Orland Park, IL 60462

PHILIP ESTATES SUBDIVISION
 CUBA ROAD
 LONG GROVE, ILLINOIS

PLANT LIST & SEED SPECIFICATIONS

ISSUED FOR: _____ **DATE:** _____

SHEET NUMBER: **L-4**

PROJECT NUMBER: 202310	DESIGNED BY: LD
SCALE: AS NOTED	REVIEWED BY: LD
DATE: 2-1-2020	PROJECT MANAGER: LD

PRINCIPAL:

Village Submittal 4-17-2023
 REV Tree Survey-Village Submittal 11-10-20
 Village Submittal 3-9-2020

GENERAL PLANTING / ACCEPTANCE SPECIFICATIONS

1. Field Verification

The Contractor shall verify all existing conditions and dimensions in the field prior to bidding and report any discrepancies to the Owner or his representative.

2. Protection of Existing Site and Existing Site Features

The Contractor shall provide at his own expense, protection against trespassing and damage to seeded areas, planted areas and other construction areas until the preliminary acceptance. The Contractor shall provide barricades, temporary fencing, signs, written warning or policing as may be required to protect such areas.

The Contractor shall not be responsible for any damage caused by the Owner after such warning has been issued.

It shall be the Contractor's responsibility to locate and protect all existing above and below ground utilities when performing the work. The Contractor shall be responsible for the protection of crowns, trunks and roots of existing trees, shrubs, lawns, paved areas and other landscaped areas that are to remain.

Existing trees which may be subject to construction damage shall be boxed, fenced or otherwise protected before any work is started. Boxing or other protection will be removed at the end of construction. Do not locate heavy equipment or stockpiles within the drip-line of existing plants or on lawns.

Any damage to utilities, structures, plantings or lawn which results from the Contractor's work shall be repaired in kind at the Contractor's expense in a reasonably short period of time with as little inconvenience to the Owner as possible.

3. Planting Techniques

All planting techniques and methods shall be consistent with the latest edition of "Horticulture Standards of Nurserymen, Inc.", and as detailed on these drawings. All deciduous plant material shall be thin pruned to remove 1/3 interior branches, dead branches and broken branches. Pruning shall compliment plants natural form. Absolutely NO tip pruning is allowed, except hedges. Any plant that is tip pruned is subject to rejection by the Landscape Architect. Evergreen trees and shrubs shall be pruned of dead and broken branches and as directed by the Landscape Architect. All pruning work shall be done with hand pruners only.

4. Workmanship

A. All work shall be completed by qualified installers that are knowledgeable and experienced in operations they are performing.

B. Installation methods and procedures shall in accordance with the accepted industry practice and with standards of manufacturing and contracting associations applicable to all work.

5. Inspection of Plant Material

All plant materials shall be subject to inspection and approval. The Landscape Architect reserves the right to reject any plants which fail to meet this inspection. All rejected material shall be removed from the site by the Contractor. Height of evergreen trees are measured from the ground to the first lateral branch closest to the top. Height and/or width of other plants so specified are measured by the mass of the plant not the very tip of the branches.

6. Plant Material-On-Site

Upon delivery to the site, all nursery stock shall be planted as soon as possible. Plants shall not be exposed to excessive sun or drying winds. Nursery stock which is not satisfactory in the opinion of the Landscape Architect of Record, or Owners representatives shall immediately replace with acceptable stock at the expense of the Contractor.

7. Plant Substitution

Substitution from the specified list will be accepted only when evidence in writing is submitted to the Landscape Architect, showing that the plant specified is not available.

Requests for approval of substitute plant material shall include common and botanical names and size of substitute material. Only those substitutions of at least equivalent size and having essential characteristics similar to the originally specified material will be approved. Acceptance or rejection of substitute plant materials will be issued in writing by the Landscape Architect.

8. Planting Soil

A. Topsoil Testing

The Contractor shall engage an approved agronomic soil testing laboratory. The cost of topsoil testing to be borne by the Contractor. Landscape architect shall approve in writing contractor's proposed soil testing laboratory.

B. Required topsoil Tests

1. Chemical analysis indicating:
a. Chemical Analysis: pH, Phosphate phosphorous, potassium, calcium, magnesium, cation exchange capacity, organic matter, available phosphorous potassium, exchangeable magnesium, percent base saturation, soluble salts by saturation, extract, estimated nitrogen release, and sodium adsorption ratio.
b. Nutrient data to be given in parts per million (ppm).

2. Physical properties including:
a. Organic content
b. Particle size distribution including percentages of sand, silt, and clay; USDA textural class designation and sand fractionation by ASTM D 422-63

C. Landscape Architect shall approve the topsoil source prior to site delivery.

D. At the discretion of the Landscape Architect soil handling procedures and spreading operations will be demonstrated for conformance approval for conformance with industry standards

E. Planting soil mix shall be protected from water and wind erosion by some type of temporary vegetative cover. All erosion methods shall be approved by the landscape architect.

F. Topsoil for landscape work shall be furnished as specified below:

1. A fertile, friable, sandy, loamy surface soil without admixture of subsoil and free of stones, stumps, root, trash, debris, and other materials deleterious to plant growth.

a. Particle size distribution - Loam texture having the proper mix of sand, silt and clay distribution to give favorable fertility, water drainage, and water holding capacity for plant growth as well as soil strength.

2. The pH range shall be 6.8 to 7.4. Topsoil that does not meet this pH range will be amended by the addition of pH adjusters approved by the Landscape Architect.

3. Organic content shall not be less than 4% and not greater than 8% determined by loss through ignition.

9. Mulch

All shrub beds and individual trees shall be mulched with a minimum of 3" finely shredded hardwood or bark mulch. Perennial, groundcover and annual flower beds shall be mulched with 2" of decomposed compost.

10. Pre-emergent Herbicide

All shrub beds, individual tree rings and groundcover beds shall be treated with a pre-emergent herbicide prior to the mulch being installed. These areas shall be weed free prior to herbicide application.

11. Sodding (IF IDENTIFIED ON PLAN)

Sod shall be Kentucky Bluegrass and is required in all areas as noted on the landscape plan. Sod should be grown from at least four varieties of quality seed. Sodded slopes 3:1 or greater shall be staked to prevent erosion and washout. Watering shall continue until all sod areas are thoroughly knit to the ground.

12. Subgrade Preparation

A. The Contractor shall examine the subgrade and verify that elevations are correct per the Civil Plans. Contractor shall observe the conditions under which the work is to be performed and in a written form convey any and all concerns to the General Contractor.

B. The rough grade shall be reviewed by the General Contractor, Civil Engineer, Landscape Architect of Record, and Owners Representatives.

13. Finish Grade Preparation

A. Correct, adjust and / or repair rough graded areas including mounds and ridges. Fill gullies and depressional areas and perform other necessary repairs as needed for a smooth graded appearance.

B. Bring all subgrades to specified elevations, evenly and properly compacted along all hardscape edges and drainage structures.

C. Generally, finish grade shall be 1 1/4" -2" below top of adjacent curbs, walks, and concrete slabs. Finish Grade tolerances is 0.1 ft. plus / minus from indicated contours and or elevations. Finish grade shall be reviewed by the General Contractor, Civil Engineer, Landscape Architect of Record, Owner's Representative prior to installing plantings and mulch.

14. Seeding

All lawn areas on landscape plan specified to be seeded shall be treated as specified below:

A. Topsoil

Shall be spread over all areas to be seeded to a minimum depth of 6" when compacted (to be performed by those other than Landscape Contractor).

B. Seed Mixture Application Rate
Kentucky Bluegrass (4 varieties): 70%
Perennial Ryegrass: 10%
Redtop or Creeping Red Fescue: 20%

C. Fertilization

Apply fertilizers and conditioners at the rate specified per soil test findings. In lieu of soil test results, apply two tons ground agricultural limestone and 1,000 lbs. 10-10-10 or equivalent analysis fertilizer per acre. At least 40% of the fertilizer nitrogen shall be of an organic origin.

D. Watering

Seeded areas shall be watered to insure proper germination. Once seeds have germinated, watering may be decreased but the seedlings must never be allowed to dry out completely. Frequent watering should be continued for approximately four (4) weeks after germination or until grass has become sufficiently established to warrant watering on an "as needed" basis.

E. Establishment

Turf is being established on a variety of slope conditions. It shall be the contractor's responsibility to determine and implement whatever procedures he deems necessary to establish the turf as part of his work. Seeded areas will be accepted when all areas show a uniform stand of the specified grass in healthy condition and at least 60 days have elapsed since the completion of this work. The Contractor shall submit with his bid a description of the methods and procedures he intends to use.

15. Preliminary Acceptance

All plantings shall be maintained by the Contractor for a period of 60 days after preliminary acceptance by the Owner. Maintenance shall include, but is not limited to, mowing and edging turf, pulling weeds, watering turf and plant material, and annual flower maintenance. Grass germination rates must meet 85% or greater for acceptance.

16. Warranty

A. Warranty: Warrant that all work in this section shall be free from defects of materials and workmanship for a period of one (1) year from the date of Substantial Completion of the project. Warrant all plant materials, including pre-tagged or pre-purchased materials, for a period of one year from the date of acceptance to be a good, healthy and flourishing condition.

B. Acceptance Procedure:

1. Completion of Work: Upon completion of the work, a review will be made by the Landscape Architect upon written notice requesting such a review submitted by the Contractor at least (10) days in advance of the anticipated date. The purpose of the review shall be to determine whether or not the contractor has completed all the work of the contract, including maintenance of all planted areas.

2. Review for Substantial Completion: This review shall take place at the same time as the maintenance review. The Landscape Architect will make a review to begin the warranty of planting areas and initiate the 60 day maintenance period on the date requested, by the Contractor, as above specified, or as soon thereafter as possible. Of the work is found to be in compliance with the Contract Documents, the Landscape Architect will notify in writing the Contractor and owner of the beginning of the warranty period.

3. Warranty Period: Make periodic inspections during the warranty period to determine what changes should be made to the maintenance program. Submit in writing to the Landscape Architect any recommended changes. Upon completion of the warranty period submit a request for a review at least ten (10) days in advance of the anticipated date.

4. Review for Final Acceptance & 11-Month Walk-thru: The Landscape Architect will make a review for Final Acceptance of the Contract work, including maintenance and replacement material. If the work is found to be in compliance, the Architect will recommend acceptance by the Owner, exclusive of possible replacement of plants subject to warranty. If there are any deficiencies in the maintenance, the contractor will be notified of these deficiencies in writing and the work shall be subject to re-review before acceptance.

17. General Landscape Maintenance

A. Maintain trees and shrubs by pruning, cultivating, watering, weeding, fertilizing, restoring planting saucers, tightening and repairing stakes and guy supports, and resetting to proper grades or vertical position, as required to establish healthy, viable plantings. Spray as required to keep trees and shrubs free of insects and disease. Restore or replace damaged tree wrappings.

B. Maintenance Periods: Perform landscape maintenance, as specified hereunder, for the following periods:

1. Initial Maintenance: The Contractor is responsible for maintenance of each area until it has been granted preliminary acceptance by the Architect and the warranty period is formally started. Begin maintenance immediately upon delivery to the site and as each plant and each portion is planted, and continue until the end of the 60 day maintenance period.

2. Work Not Included: Maintenance of project after the 60 day required maintenance period performed by the Owner's work forces and are not apart of this Contract.

18. Natural Vegetated Areas General Maintenance (SEE LP-4 FOR MAINTENANCE REQUIREMENTS)

1. Maintenance of all detention pond and natural grass areas shall be carried out by a qualified ecological management company with experience with native landscapes.

2. The qualified contractor shall visit the site to monitor the progress and health of the native grass and stormwater naturalized areas.

3. A native maintenance plan shall be submitted to the Owner and Landscape Architect for approval. Plan shall include the following:

a) Invasive Non-native weeds: Purple Loosestrife, and other non-native weeds shall be controlled mechanically through the use of herbicide and / or hand pulling or a combination of these methods. If necessary additional native seeding or planting will be required to ensure 85% seed germination coverage.

b) Soil Erosion Control Management: All soil erosion control devices, structures and features shall be installed per Cross Engineering plans. Soil shall be permanently stabilized with blanket and fully rooted grass.

c) Monitoring: A meander search will be conducted throughout the native areas to assess establishment of the planted vegetation. All vegetation encountered will be identified to the species level. Search will be conducted in May/June or August / September. Overseeding may be necessary the following year to ensure complete establishment.

4) Control and removal of invasive woody and herbaceous plants is vital to the success of the native established areas. Specific recommendations for invasive plant removal will be made based on visual monitoring inspections.

The J N L Design Group, Inc.
Planning + Landscape Architecture
1955 Raymond Drive
Suite 119
Northbrook, Illinois 60062
224-269-4290

Prepared For:
Philip Estates, LLC
8150 W. 159th Street
Orland Park, IL 60462

LANDSCAPE SPECIFICATIONS

PHILIP ESTATES SUBDIVISION

CUBA ROAD
LONG GROVE, ILLINOIS

ISSUED FOR:	DATE:
Village Submittal	4-17-2023
REV Tree Survey-Village Submittal	11-10-20
Village Submittal	3-9-2020
PRINCIPAL:	
PROJECT NUMBER: 202310	DESIGNED BY: LD
SCALE: AS NOTED	REVIEWED BY: LD
DATE: 2-1-2020	PROJECT MANAGER: LD
SHEET NUMBER:	

LP-5