

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME:SCANNELL-NEWBURGH COMMERCE CENTERPROJECT NO.:2021-21PROJECT LOCATION:SECTION 95, BLOCK 1, LOT 58REVIEW DATE:14 JANUARY 2022MEETING DATE:20 JANUARY 2022PROJECT REPRESENTATIVE:LANGAN ENGINEERING

- This office previously circulated Notice of Intent for Lead Agency for the SEQRA review of the project. This notice was sent on 26 October 2021 and has timed out for any additional responses. Coordination with the NYSDEC and US Fish and Wildlife Service regarding potential impacts to protected Bat Species and the Upland Sandpiper are required.
- 2. A City of Newburgh Flow Acceptance letter is required for the project.
- 3. Status of review from the Jurisdictional Emergency Services should be received. It is noted the facility only has one point of access from NYS Route 17K.
- 4. The applicants are requested to provide preliminary analysis to determine that adequate flow and pressure exists such that a fire suppression water tank is not needed on the site.
- 5. All correspondence with NYSDOT should be submitted to the Planning Board as well. NYSDOT input on the access drive and utilities within the DOT right-of-way should be provided. A copy of the 17 December 2021 DOT application has been provided.
- 6. Appendix 17, 18 & 19 appear to be missing from the document. No information beyond the Traffic Study is provided.
- 7. Future submissions should provide tabs in the voluminous report provided to assist in review.
- 8. Noise Study should document the benefits of the sound attenuating wall proposed along the front of the parcel between the residential parcels and the subject property. In addition, a sound attenuating wall is provided along the easterly portion of the access drive.
- 9. A Stormwater Facilities Maintenance Agreement will be required to be executed and filed with the Town and with County Property records.
- 10. Two bio-retention areas are proposed for water quality control. Bio-retention area #1 is identified as having a liner while Bio-Retention area #2 is identified as not being lined. Bio-retention area #1 addresses the hot spot areas of the site while bio-retention area #2 takes on a roof and passenger vehicle parking. Two separate details should be provided on the plans.

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- 11. It is noted in the Stormwater Model that bio-retention area #1 identifies a .25 inches per hour exfiltration in the calculation. This is a lined pond which also then takes credit for the six inch vertical underdrain.
- 12. The Narrative portion of the SWPPP should identify the use of the proprietary pre-treatment units prior to discharge to the bio-retention basins.
- 13. The location of the natural discharge for headwall #17 should be identified on the plans. The drainage course between this point discharge and the natural stream should be provided. The velocity of this discharge point should be evaluated as the pipe slopes are approximately 5% to 5.5% grades along the 17K corridor.
- 14. NYSDOT comments regarding placement of the storm drainage facilities within the driving lane of NYS Route 17K should be received.
- 15. The location of the 60 inch diameter pipe identified in the SWPPP narrative should be identified on the plans.
- 16. It is requested the Erosion & Sediment Control Plan address interim drainage condition along the easterly and westerly property lines existing and proposed grades.
- 17. It is unclear if temporary sediment traps are proposed on the plan. No detail or discussion of the same are provided. Volume of the temporary sediment traps should be calculated and identified.
- 18. It is requested the applicant evaluate the amount of flow directed towards Catch Basin #24 at the entrance drive. It appears that water traveling from west to east as well as the entire access road discharges to this single catch basin.
- 19. Limits of disturbance along residential property should be demarcated in the field with orange construction fence. Proposed grading in several locations butts the residential properties.
- 20. A detail for connection to existing manholes should be provided. Paved inverts for the connection within the manhole should be identified and core drilling of any town owned manhole is required.

Respectfully submitted,

MHE Engineering, D.P.C.

Patient & Afones

Patrick J. Hines Principal

PJH/kbw

SITE PLAN APPROVAL DOCUMENTS FOR NEWBURGH COMMERCE CENTER TOWN OF NEWBURGH



		DRAWING LIST		
DRAWING NO.	SHEET NO.	DRAWING TITLE	DATE	LATEST REVISION
CS001	1 OF 14	COVER SHEET	8/19/2021	1/7/2022
CD101	2 OF 14	EXISTING CONDITIONS AND SITE REMOVALS PLAN	8/19/2021	1/7/2022
CS101	3 OF 14	SITE PLAN	8/19/2021	1/7/2022
CS201	4 OF 14	TRUCK TURNING MOVEMENT PLAN	1/7/2022	
CG201	5 OF 14	GRADING AND DRAINAGE PLAN	11/29/2021	1/7/2022
CU101	6 OF 14	UTILITY PLAN	10/8/2021	1/7/2022
CE101	7 OF 14	EROSION AND SEDIMENT CONTROL PLAN	11/29/2021	11/29/2022
CS501	8 OF 14	DETAILS (1 OF 3)	11/29/2021	1/7/2022
CS502	9 OF 14	DETAILS (2 OF 3)	11/29/2021	11/29/2021
CS503	10 OF 14	DETAILS (3 OF 3)	1/7/2022	
LL101	11 OF 14	SITE LIGHTING PLAN	12/30/2021	1/7/2022
LL501	12 OF 14	SITE LIGHTING NOTES AND DETAILS	12/30/2021	1/7/2022
LP101	13 OF 14	PLANTING PLAN	8/19/2021	1/7/2022
LP501	14 OF 14	PLANTING NOTES AND DETAILS	8/19/2021	1/7/2022

09/09/21

Date

ORANGE COUNTY, NEW YORK SECTION 95, BLOCK 1, LOT 58 PLANNING BOARD PROJECT No: 2021-21



AERIAL MAP SCALE: 1 INCH = 250 FEET

13. 95-1-1.1 Northeast Business Center 3 Manhattanville Road Purchase, NY 10577

95-1-79.2 Matrix Newburgh I, LLC 14. CN 4000 Forsgate Drive Cranbury, NJ 08512

15. 89-1-79 NYS Department of Transportation Albany, NY 12201 **APPLICANT:**

OWNER:





PROJECT CONTACTS

SCANNELL PROPERTIES, LLC 8801 RIVER CROSSING BOULEVARD, SUITE 300 INDIANAPOLIS, IN 46240

RED OAK SOS, LLC 1400 E 66TH AVENUE **DENVER, CO 80229**

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WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

NEWBURGH **COMMERCE CENTER**

5, BLOCK No. 1, LOT I	NO. 58
N OF NEWBURGH	
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LOADING & OFF-STR	EET PARKING REQUIREMENTS SECTION (185-13)	
Zone: IB (Interchange Business)		
Loading Requirements	Required	Proposed
2 spaces up to initial 40,000 SF and 1 additional space for each 40,000 square feet in addition to the first 40,000 square feet	Initial 40,000 SF Building = 2 spaces 92,000 SF Remaining Building / 40,000 SF = 2.3 spaces 2 spaces + 3 spaces = 5 loading spaces required	>5 spaces provided
Off-Street Parking Requirements (Warehouse)		
2 per 3 employees on duty or on the premises at any one time (minimum 2 spaces)	88 employees per shift / 3 employees = 29.3 spaces 29.3 spaces * 2 spaces = 59 spaces required	107 spaces provided
Off-Street Parking Requirements (Manufacturing or inc	dustrial establishment, research institute or laboratory)	
Parking area reservation equivalent to the total ground coverage of the building, with a minimum of 2 improved spaces per 3 employees on the premises at any 1 period of time (minimum 2 spaces)	128 employees per shift / 3 employees = 42.7 spaces 42.7 spaces * 2 spaces = 86 spaces required 130,000 SF of parking area reservation equivalent required	107 spaces provided 132,000 SF of parking area reservation equivalent provided (see insert)

INTERCHANGE BUSINESS (IB) ZONING DISTRICT						
SECTION No. 95, BLOCK No. 1, LOT No. 58						
CODE REF.	BULK REGULATION	REQUIRED	PROPOSED	COMPLIANCE		
Schedule 8	PRINCIPAL USE	Use subject to site plan review by Planning Board	Various ⁽¹⁾	ous ⁽¹⁾ YES		
Schedule 8	MIN. LOT AREA 40,000 SF ±602,542 SF (13.8 AC)		YES			
Schedule 8	MIN. LOT WIDTH	150 FT	416 FT	YES		
Schedule 8	MIN. LOT DEPTH	150 FT	1,053 FT	YES		
Sect. 185-18	MIN. FRONT YARD (STATE ROAD)	60 FT	381.0 FT	YES		
Schedule 8	MIN. SETBACK FROM ROUTE 17K ⁽¹⁾	500 FT	381.0 FT	VARIANCE GRANTED ⁽²⁾		
Schedule 8	MIN. REAR YARD	60 FT	80.8 FT	YES		
Schedule 8	MIN. SIDE YARD (ONE SIDE)	30 FT	106.1 FT	YES		
Schedule 8	MIN. SIDE YARD (BOTH SIDES)	80 FT	317.9 FT	YES		
Schedule 8	MAX. LOT BUILDING COVERAGE	40%	21.9%	YES		
Schedule 8	MAX. BUILDING HEIGHT	40 FT	< 40 FT	YES		
Schedule 8	MAX. LOT SURFACE COVERAGE	80%	52.4%	YES		
	LANDSCAPE	REQUIREMENTS				
Sect. 185-18	FRONT YARD LANDSCAPE BUFFER ALONG ROUTE 17K	35 FT	35 FT	YES		
Sect. 185-13	PARKING AREA LANDSCAPING	5% OF PARKING AREA	5.1%	YES		









OUTSIDE SWEPT PATH (Ref) 45.5 4.5 ft WB—67 AASHTO 2018 (US) [ft] © 201 Found Bolders In: A fight wavest STEERING LOCK ANGLE = 28.4 deg. ACHIEVED STEERING ANGLE: 30 deg. SWEEP ANGLE: 18.3 deg. 60 deg. SWEEP ANGLE: 24.7 deg. 90 deg. SWEEP ANGLE: 27.0 deg. 120 deg. SWEEP ANGLE: 27.9 deg. 150 deg. SWEEP ANGLE: 28.3 deg. 180 deg. SWEEP ANGLE: 28.4 deg. VEHICLE TURNING TEMPLATE $\langle \circ \rangle$ **WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY. Drawing Title Drawing No. roject No. 190071901 NEWBURGH TRUCK TURNING ate **CS201** JANUARY 7, 2022 COMMERCE CENTER MOVEMENT PLAN Drawn By IN SECTION No. 95, BLOCK No. 1, LOT No. 58 Checked By

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TELEPHONE NOTES	SEWER NOTES
1. ALL UNDERGROUND TELEPHONE RELATED INSTALLATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE TELEPHONE COMPANY.	1. ALL CONSTRUCTION TO COMPLY WITH CURRENT TOWN OF NEWBURGH
2. TELEPHONE CONDUIT SHALL BE SCH. 40 PVC OR AS REQUIRED BY THE	SPECIFICATIONS AND ORDINANCES.
3. MINIMUM TELEPHONE CONDUIT BURIAL DEPTH SHALL BE TWO FEET, OR	 CONTRACTOR SHALL SECORE ALL PERMITS AT HIS OWN EXPENSE. MATERIALS FOR SANITARY SEWER:
GREATER IF REQUIRED BY THE TELEPHONE COMPANY.	A. POLYVINYL CHLORIDE (P.V.C) SANITARY SEWER PIPE WITH
4. BOILDING CONTRACTOR SHALL ROUTE TELEPHONE SERVICE INSIDE OF THE BUILDING TO ONE COMMON POINT FOR CONNECTION TO THE SITE TELEPHONE CONDUIT.	INTEGRAL BELL AND SPIGOT JOINTS, PIPE SHALL CONFORM TO ASTM D3034, SPECIFICATION LATEST REVISION. GRAVITY SEWER SHALL BE PVC SDR—35
ELECTRICAL SERVICE NOTES	B. EQUAL APPROVED BY TOWN ENGINEER.
1. ALL ABOVEGROUND AND UNDERGROUND ELECTRICAL SERVICE RELATED	4. HORIZONTAL SEPARATION: SEWERS SHALL BE LAID AT LEAST 10'
ELECTRIC COMPANY, CENTRAL HUDSON.	THE DISTANCE SHALL BE FROM EDGE TO EDGE. WHERE NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, THE
2. ELECTRICAL CONDUIT SHALL BE SCH. 80 PVC OR AS REQUIRED BY THE ELECTRIC COMPANY.	APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN
3. MINIMUM ELECTRICAL CONDUIT BURIAL DEPTH SHALL BE THREE FEET, OR	ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH. OR ON AN UNDISTURBED EARTH
GAS NOTES	SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18"
1. ALL UNDERGROUND GAS SERVICE RELATED INSTALLATIONS SHALL BE	ABOVE THE TOP OF THE SEWER.
HUDSON.	PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER.
2. GAS PIPING (SIZE AND MATERIAL) SHALL BE AS REQUIRED BY THE GAS COMPANY.	THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE, OR BELOW THE SEWER. THE CROSSINGS SHALL BE
3. MINIMUM GAS PIPING BURIAL DEPTH SHALL BE THREE FEET, OR GREATER	ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM WATERMAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT
	SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.
	6. ALL TRENCHING IN THE ROW SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
	7. NOTWITHSTANDING SATISFACTORY TEST RESULTS, IF EXCESSIVE
	THE SEWER SYSTEM, THE CONTRACTOR WILL BE REQUIRED TO CORRECT THE SITUATION. THE CONTRACTOR SHALL, UPON WRITTEN
	NOTICE FROM THE ENGINEER, TAKE THE NECESSARY STEPS TO CORRECT THE LEAK AT NO ADDITIONAL COST TO THE OWNER. SUCH
	WORK SHALL BE ACCOMPLISHED WITHIN TWO WEEKS OF THE DATE OF NOTIFICATION.
	8. GRAVITY SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS AND ASTM F-1417,
	LATEST VERSION.
	9. SEWER MANHOLES SHALL BE TESTED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS AND ASTM C-1244, LATEST VERSION.
	1. ALL CONSTRUCTION TO COMPLY WITH CURRENT TOWN OF NEWBURGH
	SPECIFICATIONS AND ORDINANCES.
	2. CONTRACTOR SHALL SECURE ALL PERMITS AT HIS OWN EXPENSE.
	A) CEMENT LINED DUCTILE IRON PIPE MINIMUM THICKNESS CLASS
	52 WITH 150 PSI WORKING PRESSURE AND SHALL CONFORM TO AWWA SPECIFICATION C 151 LATEST REVISION FOR HYDRANT ASSEMBLIES. THE PIPE SHALL BE ENCASED WITH A MINIMUM 8
	MIL. POLYETHYLENE WRAP, AS PER AWWA C 105 SPECIFICATION. TYPE MECHANICAL JOINT TEES AND NIPPLES. HYDRANTS SHALL
	BE PLACED A MAXIMUM OF $500\pm$ APART. HYDRANTS SHALL BE "BAGGED" UNTIL READY FOR USE. HYDRANTS SHALL OPEN
	COUNTERCLOCKWISE LEFT, AND CLOSE CLOCKWISE RIGHT.
	ZINC ANODES.
	5. CONTRACTOR WILL BE RESPONSIBLE TO FURNISH AND INSTALL TEST POINTS AT THE APPROXIMATE LOCATIONS AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE TOWN ENGINEER. THE TEST
	POINTS SHALL CONSIST OF A 1" OR 2" CORPORATION STOP, AND THE NECESSARY 1" OR 2" COPPER PIPE TO ADEQUATELY
	CONDUCT THE REQUIRED TESTS. AFTER TESTING HAS BEEN COMPLETED AND APPROVED, THE CONTRACTOR SHALL REMOVE
	THE CORPORATION STOPS AND INSTALL STANDARD AWWA FACTORY THREADED BRASS PLUGS. SAMPLE POINTS SHALL BE LOCATED AT THE BEGINNING AND END OF EACH LINE WITH A MAXIMUM SPACING
	OF 1000 FEET.
	ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION, AND FLUSHING SHALL BE COORDINATED
	WITH THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO PUTTING THE WATER MAIN IN SERVICE. SATISFACTORY TESTING
	TOWN OF NEWBURGH WATER DEPARTMENT AND ORANGE COUNTY HEALTH DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY
	A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE
	7. PRESSURE AND LEAKAGE TEST SHALL BE DONE IN ACCORDANCE
	WITH AWWA C-600 STANDARDS.
	C651, LATEST REVISION. THE TABLET METHOD IS NOT ALLOWED.
	9. INSTALLATION SHALL COMPLY WITH THE 2018 "TEN STATES STANDARDS." HORIZONTAL SEPARATION-WATERMAIN SHALL BE LAID
	AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN. THE DISTANCE SHALL BE FROM EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT
	SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA
	INSTALLATION OF THE WATERMAIN CLOSER TO A SEWER MAIN, PROVIDED THAT THE WATERMAIN IS IN A SEPARATE TRENCH. OR
	ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER
LEGEIND	10. WATERMAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A
SANITARY LATERAL	MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE
-W	CASE WHERE THE WATER MAIN IS ETTHER ABOVE, OR BELOW THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE WATERMAIN JOINTS WILL BE FOUIDISTANT AND AS FAR AS POSSIBLE
	FROM SEWER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE
	MAIN.
See WATER VALVE	
SANITARY SEWER MANHOLE	
-O- UTILITY POLE	WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION
	OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.
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EROSION & SEDIMENT CONTROL NOTES

- 1. REFER TO THE SPDES GENERAL PERMIT COMPLIANCE NOTES FOR ADDITIONAL REQUIREMENTS.
- 2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", LATEST REVISIONS.
- 3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION. EXISTING VEGETATION SHALL BE PRESERVED AS MUCH AS IS PRACTICAL.
- 4. THE CONTRACTOR AND THEIR SUBCONTRACTOR(S) SHALL IDENTIFY THE TRAINED INDIVIDUAL THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
- PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.
- 6. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
- STOCKPILED TOPSOIL SHALL BE TEMPORARILY SEEDED, MULCHED, AND ENCLOSED WITH SILT FENCING. ALL GRASS SEED WILL CONTAIN AT LEAST 25 PERCENT RAPID GERMINATING PERENNIAL RYE GRASS.
 EROSION AND SEDIMENT CONTROL INSPECTIONS:
- A. THE TRAINED INDIVIDUAL SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS TO ENSURE PROPER PERFORMANCE. ANY SEDIMENT BUILD-UP SHALL BE CLEANED. ALL DAMAGES TO EROSION AND SEDIMENT CONTROLS SHALL BE REPAIRED EITHER AT THE BEGINNING OR AT THE END OF EACH WORKING DAY.
- B. THE QUALIFIED INSPECTOR SHALL CONDUCT SITE INSPECTIONS EVERY 7 DAYS DURING CONSTRUCTION. ANY DEFICIENCIES NOTED IN THE REPORTS SHALL BE CORRECTED IMMEDIATELY BY THE CONTRACTOR.
- C. IF SOIL DISTURBANCE ACTIVITIES ARE SUSPENDED FOR WINTER SHUTDOWN, TEMPORARY STABILIZATION MEASURES WILL BE APPLIED TO ALL DISTURBED AREAS. IN THIS CASE AND SUBJECT TO THE APPROVAL OF THE NYSDEC AND THE TOWN, THE FREQUENCY OF INSPECTIONS BY THE QUALIFIED PROFESSIONAL MAY BE REDUCED TO AT LEAST ONE INSPECTION EVERY 30 CALENDAR DAYS.
- D. IF NYSDEC OR THE TOWN AUTHORIZES SOIL DISTURBANCES GREATER THAN 5-ACRES, THE QUALIFIED PROFESSIONAL WILL CONDUCT AT LEAST 2 SITE INSPECTIONS, SEPARATED BY AT LEAST 2 CALENDAR DAYS, EVERY 7 CALENDAR DAYS TO ENSURE THE STABILITY AND EFFECTIVENESS OF ALL PROTECTIVE MEASURES AND PRACTICES UNTIL SUCH TIME THAT LESS THAN 5-ACRES OF SOIL REMAIN DISTURBED.

- 9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
- 10. EARTHWORK ACTIVITIES SHALL BE CONSISTENT WITH THE PLANS. THE. EARTHWORK OPERATION AREAS SHALL BE STABILIZED ON AN ONGOING BASIS WITH NO AREAS, WHICH ARE NOT CURRENTLY UNDER CONSTRUCTION, LEFT WITHOUT AT LEAST TEMPORARY COVER FOR MORE THAN 48 HOURS.
- 11. EROSIVE MATERIAL TEMPORARILY STOCKPILED ON THE SITE DURING THE CONSTRUCTION PROCESS SHALL BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE AND SHALL BE PROPERLY PROTECTED BY A SURROUNDING SILT FENCE BARRIER.
- 12. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED LANDSCAPE SOILS.
- 13. IF CONSTRUCTION TAKES PLACE IN "WET SOILS", CURTAIN DRAINS OR SUBSURFACE DRAINAGE SHALL BE INSTALLED TO DEWATER THE SOILS. DEWATERING DISCHARGES WILL NOT BE DIRECTED INTO WETLANDS, WATER COURSES, WATER-BODIES, OR STORM SEWER SYSTEMS.
- 14. TEMPORARY DRAINAGE SWALES WITH A MINIMUM GRADE OF ONE PERCENT SHALL BE INSTALLED TO DIRECT RUNOFF AWAY FROM EXCAVATED AREAS. SWALES SHALL BE INSTALLED WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWNSTREAM SILTATION. LOCATION OF THE DRAINAGE SWALES AND HAY BALES WILL BE AT THE DIRECTION OF THE DESIGN ENGINEER. SILT FENCE SHALL BE PROPERLY INSTALLED DOWN GRADE OF ALL DISTURBED AREAS. SILT FENCE SHALL BE INSTALLED ALONG CONTOURS TO FILTER SEDIMENT FROM RUNOFF. INSPECTION BY CONTRACTOR SHOULD BE FREQUENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. SILT FENCE SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 15. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WHEN ALL DISTURBED AREAS HAVE UNDERGONE FINAL STABILIZATION, UPGRADIENT SURFACES HAVE BEEN PROPERLY STABILIZED, AND ALL STORMWATER MANAGEMENT SYSTEMS ARE IN PLACE AND OPERABLE. ALL AREAS DISTURBED BY THE REMOVAL OF THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FILLED IN, TOPSOILED, SEEDED, AND MULCHED. FINAL STABILIZATION IS ACHIEVED WHEN ALL SOIL DISTURBING ACTIVITIES ARE COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80 PERCENT COVERAGE IS ESTABLISHED, OR EQUIVALENT STABILIZATION MEASURES, SUCH AS PLACEMENT OF MULCH OR GEOTEXTILE, IS COMPLETED ON ALL AREAS NOT PAVED OR COVERED BY PERMANENT STRUCTURES. ENSURE THAT FINAL STABILIZATION OF ALL TRIBUTARY AREAS IS ACHIEVED PRIOR TO THE CONSTRUCTION OF THE BIORETENTION BASINS.

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	PROPERTY LINE
xx	SILT FENCE
₽_₽_₽_₽ _₽_	TREE PROTECTION
\bigotimes	INLET PROTECTION
2008299002990029900	STABILIZED CONSTRUCTION ENTRANCE
	LIMIT OF DISTURBANCE

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NEWBURGH COMMERCE CENTER

SECTION No. 95, BLOCK No. 1, LOT No. 58 TOWN OF NEWBURGH GE COUNTY NEW YORK

EROSION AND SEDIMENT CONTROL PLAN

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190071901 Date **NOVEMBER 29, 2021** Drawn By **JN**

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Drawing No.

CE101

ROJECT NO. 1900719

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PLANNING BOARD SUBMISSION	1	
Description	No.	
REVISIONS		

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REVISIONS PROFESSIONAL ENCLESSION Lic. No. 062303

s	LUMENS	LLF	FIXTURE CATALOGUE NO.	POLE MANUFACTURER	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO.	REMARKS
WITH NTROL E SIDE D	20,835	0.90	GALN-SA4C-730-U-SL4 -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 -D218-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
WITH NTROL E SIDE D	20,952	0.90	GALN-SA4C-730-U-SL3 -HSS-BK	НАРСО	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 -D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
WITH NTROL E SIDE D	20,835	0.90	GALN-SA4C-730-U-SL4 -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
WITH NTROL E SIDE D	20,730	0.90	GALN-SA4C-730-U-SL2 -HSS-BK	HAPCO	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
RWARD WITH SIDE D	18,239	0.90	GALN-SA4C-730-U-T4FT -HSS-BK	НАРСО	ROUND TAPERED STEEL POLE; COLOR: BLACK	27' (MOUNTED ON 3' HEIGHT BASE)	RTS30B90-4 D190-BA	POLE TO BE FACTORY CUT TO LENGTH OF 27'; MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
RWARD W	31,993	0.90	GALN-SA5C-730-U-T4FT -WM-BK	N/A	N/A	N/A	N/A	N/A
WITH NTROL	25,283	0.90	GALN-SA4C-730-U-SL2 -WM-BK	N/A	N/A	N/A	N/A	N/A
2	4,576	0.90	ISS-SA1C-730-U-T2 -BK	N/A	N/A	N/A	N/A	N/A

STATISTICS					
DESCRIPTION	AVG.	MAX.	MIN.	MAX./MIN.	AVG./MIN.
BUILDING ENTRANCE - NORTH	12.7 fc	12.7 fc	12.7 fc	1.0:1	1.00:1
BUILDING ENTRANCE - SOUTH	19.3 fc	19.3 fc	19.3 fc	1.0:1	1.00:1
DRIVE AISLE - NORTH	2.62 fc	4.3 fc	1.0 fc	4.3:1	2.62:1
DRIVE AISLE - SOUTH	2.52 fc	7.8 fc	1.0 fc	7.8:1	2.52:1
LOADING	2.46 fc	4.8 fc	1.2 fc	4.0:1	2.05:1
OPEN TRUCK YARD	1.84 fc	6.3 fc	1.2 fc	5.2:1	1.53:1
PARKING	1.87 fc	6.2 fc	1.0 fc	6.2:1	1.87:1
SIDEWALK	5.35 fc	18.1 fc	1.0 fc	18.1:1	5.35:1
TRAILER STORAGE	4.34 fc	9.7 fc	1.4 fc	6.9:1	3.10:1

NOTE: 1. LIGHT PHOTOMETRY AND CALCULATIONS FOR EXISTING LIGHTING ARE NOT INCLUDED IN THE ABOVE STATISTICS.

PHOTOMETRIC LIGHTING TEMPLATE:

NOTE: THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.

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NEWBURGH **COMMERCE CENTER**

SECTION No. 95, BLOCK No. 1, LOT No. 58 TOWN OF NEWBURGH **NEW YORK**

SITE LIGHTING PLAN

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SITE LIGHTING NOTES:

GENERAL

- 1. POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/ DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS.NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE PI ANS
- 2. LIGHT LEVEL POINT SPACING IS 10 FT. LEFT TO RIGHT AND 10 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

COMPLIANCE

- 3. ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
- 4. LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

COORDINATION

- 5. CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
- 6. REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- 7. CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- 8. INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- 9. CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS

POLES AND FOOTINGS

- 10. PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
- 11. CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.
- 12. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.
- 13. ALL POLES HIGHER THAN 25 FT. SHALL BE EQUIPPED WITH FACTORY INSTALLED VIBRATION DAMPENERS.

WALL MOUNTED FIXTURES

- 14. CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
- 15. INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

ADJUSTMENT AND INSPECTION

- 16. CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- 17. CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- 18. CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE

REQUIREMENTS FOR ALTERNATES

- 19. ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS: A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER
- AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR
- B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOFOOTCANDLE. THE SYSTEM'S PERFORMANCE.
- C. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.
- D. POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- E. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED. THE

FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.

FOOTING ANCHOR BOLTS SHALL DIA. OF THE CIRCULAR REBA
3" CLR. FOR DRILLED P 2" CLR. FOR PRECAST
ROUND BASE
6" LAP 🦳 #3 TIES AT 10" O.C. W

Date

NOTE: SEE SHEET LL101 FOR LIGHTING PLAN, SCHEDULE AND STATISTICS

GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY. Drawing No. roject No. 190071901 **DECEMBER 30, 2021** M

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PLANT SCHEDULE						
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
SHADE	TREE(S)				•	
AR	13	ACER RUBRUM	RED MAPLE	2 1/2-3" CAL.	B+B	_
QA	18	QUERCUS ALBA	WHITE OAK	2 1/2-3" CAL.	B+B	_
ORNAM	ENTAL TREE(S)				•
AGAB	4	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	6-8'	B+B	_
BND	7	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	6-8'	B+B	_
C	2	CERCIS CANADENSIS	EASTERN REDBUD	6-8'	B+B	_
VERG	REEN TREE(S))		· · · · · · · · · · · · · · · · · · ·	•	-
BM	42	ABIES BALSAMEA	BALSAM FIR	6-8'	B+B	_
V	58	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8'	B+B	-
GL	46	PICEA GLAUCA	WHITE SPRUCE	6-8'	B+B	-
M	39	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6-8'	B+B	-
RS	43	PINUS RESINOSA	RED PINE	6-8'	B+B	-
۶S	60	PINUS STROBUS	EASTERN WHITE PINE	6-8'	B+B	_

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

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NEWBURGH COMMERCE CENTER

SECTION No. 95, BLOCK No. 1, LOT No. 58 TOWN OF NEWBURGH NEW YORK

PLANTING PLAN

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GENERAL LANDSCAPE PLANTING NOTES

- 1 NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES" 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE
- . ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.
- 3. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
- 4. STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION
- 5. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES.
- 6 THE CONTRACTOR SHALL VERIEV THE LOCATION OF ALL EXISTING LINDERGROUND LITULTY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
- 7. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL. 8. LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE
- ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED. 9. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE
- WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OF DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- 10. DELIVERY, STORAGE, AND HANDLING A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING
- DELIVERY, AND WHILE STORED AT SITE. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING
- C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOTBALL WRAPPING AND BINDING MATERIA MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO LOCATIONS.
- THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.
- 11. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING. 12. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE
- LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES. 13. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE
- 14. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
- 15. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.
- 16. THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.
- 17. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATIÓN
- 18. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
- 19. ALL FENCE INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN AND GRASSES, OR IRRIGATION WORK
- 20. FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN SHALL GOVERN.
- 21. PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED.
- 22. ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 JUNE 15 OR AUGUST 15 -NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DATES IN SEEDING NOTES.

LAWN WATERING SCHEDULE

THE FOLLOWING WATERING SCHEDULE COVERS ROUGHLY 8 WEEKS TO ESTABLISH A HEALTHY STAND OF GRASS FROM SEED. THE CONTRACTOR SHALL BE OBLIGATED TO ENSURE A HEALTHY STAND OF GRASS AT THE END OF THE MAINTENANCE / BOND PERIOD. ANY BARE OR DEAD AREAS IN THE LAWN SHALL BE PREPARED. RESERDED AND REESTABLISHED PRIOR TO THE END OF THE MAINTENANCE/BOND PERIOD AND TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER.

IMPORTANT ASPECTS TO ATTAINING AND SUSTAINING A HEALTHY STAND OF GRASS ARE THE INSTALLATION OF TOPSOIL, SEED BED PREPARATION, ATTAINING OPTIMAL $_{\rm PH}$ FOR THE INTENDED PLANT SPECIES, FERTILIZING, MULCH COVERING, AND SUFFICIENT WATERING PER THESE NOTES AND/OR PROJECT SPECIFICATIONS. 1. SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT

- SPECIFICATIONS. 2 AFTER THE SEEDED IS PREPARED SEED IS INSTALLED AND MULCH IS APPLIED WATER LIGHTLY TO KEEP THE
- TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT NO TIME SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED. 3. DEPENDING ON SOIL TEMPERATURES, IT MAY TAKE SEVERAL WEEKS FOR GERMINATION TO OCCUR. DIFFERENT SPECIES WITHIN THE MIX GERMINATE AT DIFFERENT TIMES AND THEREFORE CONTRACTOR SHOULD CONTINUE THE
- LIGHT WATERING, AS DESCRIBED ABOVE, UNTIL THERE IS AT LEAST 2 INCHES OF GROWTH THROUGHOUT. 4. AT THIS POINT, WATERING FREQUENCY MAY BE REDUCED TO EVERY 3 TO 5 DAYS. WATER SHALL BE APPLIED
- TO WET A 6 INCH MINIMUM SOIL DEPTH TO PROMOTE HEALTHY DEEP ROOTS. 5. BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO LESS THAN 2-1/2 INCHES. AFTER 2 TO 3 WEEKS OF MOWING, CONTINUE TO WATER TO A 6 INCH MINIMUM SOIL DEPTH AS NECESSARY PER WEATHER CONDITIONS, AND SOIL MOISTURE SENSORS IF APPLICABLE.

LAWN SEED MIX

- 1. LAWN SEED MIX: LESCO GRASS SEED ALL PRO TRANSITION MIX (3 TURF-TYPE TALL-FESCUE GRASSES) NOTES: A) SEED RATE:
 -) NEW ESTABLISHMENT: SEED AT A RATE OF 6-8 LBS/1000 SQ FT RENOVATION: 20-50% EXISTING COVER: 5-7 LBS/1000 SQ FT 50-75% EXISTING COVER: 4-6 LBS/1000 SQ FT
- 2. GENERAL SEED NOTES:
- A) FINAL SEED MIXTURES, RATES, AND SPECIES TO BE DETERMINED BASED ON PROJECT LANDSCAPE ARCHITECT
- B) SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO OCTOBER 15).
- C) ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A GLYPHOSATE-BASED HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
- D) IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL SEEDER WHERE APPLICABLE.
- E) THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW FOR PROPER GERMINATION.

PLANTING SOIL SPECIFICATIONS

- 1. PLANTING SOIL, ALTERNATELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED FREE OF DEBRIS, TOXINS, TRASH AND STONES OVER 1/2" DIA., IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO NOXIOUS
- 2. PLANTING SOIL: REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING. TH CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND SPECIFICATIONS.
- SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR CONTAMINATED SITES.
- CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER MATERIAL COMPOSITION, MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR MENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL E PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE OVERED WITH A TARPAULIN UNTIL TIME OF ACTUAL USE.
- ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.
- A. THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR APPROVAL BEFORE INSTALLATION a. PARTICLE SIZE ANALYSIS - LOAMY SAND: 60-75% SAND, 25-40% SILT, AND 5-15% CLAY. b. FERTILITY ANALYSIS: pH (5.5-6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM CALCIUM AND MAGNESIUM c. ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS d. TOXIC SUBSTANCE ANALYSIS
- e. MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED f. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE
- 3. BIORETENTION SOIL MI a. BIORETENTION SOIL MIX IS TO BE USED IN ALL DETENTION BASINS AND RAIN GARDENS. b. MIX TO CONSIST OF 60% COARSE SAND, 40% SUBMITTED TOPSOIL/HORTICULTURAL SOIL MIX c. TOPSOIL/HORTICULTURAL SOIL MIX: REFER TO SPECIFICATIONS LISTED IN SECTION ABOVE

d. COARSE SAND 1) PARTICLE

NO 200

PARTICLE SIZE ANALYSIS
SIEVE
3/8 INCH (9.5 MM)
NO 4 (4.75 MM)
NO 8 (2.36 MM)
NO 16 (1.18 MM)
NO 30 (.60 MM)
NO 50 (.30 MM)
NO 100 (.15 MM)
NO 200 (0.75 MM

2) CHEMICAL ANALYSIS PH: LOWER THAN 7.0 TOXIC SUBSTANCE ANALYSIS

e. FINAL BIORETENTION MIX

- 1) PARTICLE SIZE ANALYSIS a) SAND - 80-85%
- b) SILT 10-15% c) CLAY - 2-5%
- NOT MORE THAN 1% OF MATERIAL TO BE RETAINED BY A #4 SIEVE
- 2) CHEMICAL ANALYSIS
- a) PH 5.5-6.5 b) SOLUBLE SALTS: LESS THAN 2 MMHO/CM
- 3) CONTRACTOR TO SUBMIT TOXIC SUBSTANCE ANALYSIS AND MATERIAL DRAINAGE RATE IN ADDITION TO INFORMATION LISTED ABOVE. DRAINAGE RATE OF MATERIAL TO EXCEED 1 INCH/HOUR

. SOIL AMENDMENT FOR PLANT MATERIAL IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER. ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8; MOISTURE CONTENT 35-55% BY WEIGHT 100% PASSING THROUGH 1" SIEVE; SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM; MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR CLEAN FILL

- A. ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOLD WITH 60-90% ORGANIC CONTENT BY WEIGHT. SHREDDED LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2", WOOD CHIPS OVER 1'
- B. SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL, SHOULD BE FRIABLI WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH.
- C. AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS: a. GROUND LIMESTONE (WITH A MIN. OF 88% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING
- RESULTS OF SOIL ANALYSIS. - BRING pH LEVELS TO 5.5 MIN. TO 6.5 FOR NON-ERICACEOUS PLANTS - BRING pH LEVELS TO 4.5 MIN. TO 5.5 FOR ERICACEOUS PLANTS b. TERRA-SORB BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN
- PLANTER BACKFILL MIXTURE WITH TREES AND SHRUBS c. MYCOR-ROOT SAVER BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.
- 5. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2%) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES.
- 6. CLEAN SOIL FILL IN LANDSCAPE AREAS: LANDSCAPE FILL MATERIAL, BELOW PLANTING SOILS, SHALL HAVE THE PHYSICAL PROPERTIES OF A SANDY LOAM WITH AN ORGANIC CONTENT OF LESS THAN 2% AND A PH BETWEEN 5 - 7 7. SOIL PLACEMENT:
- A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS, EIGHTEEN INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB AREAS, AND THIRTY-SIX INCHES (36") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE PLANTING AREAS.
- B. SCARIFY AND/OR TILL COMPACTED SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOLE FIGURATION DEL THOUS PLANTING SOIL AT THE DEPTHS INDICATED ABOVE. PLANTING SOIL SHALL BE PLACED IN 12–18" LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.
- C. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE PLANTING SOIL UTILIZED IN ALL PLANTING AREAS.
- SOIL CONDITIONING A. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER pI USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 88% CALCIUM AND MAGNESIUM CARBONATES AND SHALL HAVE TOTAL 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE.
- B. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S
- C. SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS): a. THOROUGHLY TILL ORGANIC MATTER (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE OMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS ORGANIC MATTER
- b. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.
- c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

MEADOW SEED NOTES

- IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL

- SOME OF THE MEADOW MIX MAY BE DAMAGED.

LANDSCAPE MAINTENANCE NOTES

- MAINTENANCE OPERATIONS BEFORE APPROVAL:
- ND SHALL CONTINUE THROUGHOUT THE LIFE OF THE CONTRACT UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- SAUCERS. MAINTAINING STAKES AND GUYS AS ORIGINALLY INSTALLED. WATERING WHEN NEEDED OR DIRECTED, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
- PLANTS AS REQUIRED BEFORE FINAL ACCEPTANCE.
- MULCHED, WEEDED, PRUNED, SPRAYED, FERTILIZED, CULTIVATED, AND OTHERWISI MAINTAINED AND PROTECTED UNTIL PROVISIONAL ACCEPTANCE. SETTLED PLANTS SHALL REAL RESET TO PROPER GRADE AND POSITION. PLANTING SAUCER RESTORED AND DEAD MATERIAL REMOVED. STAKES AND WIRES SHALL BE TIGHTENED AND REPAIRED DEFECTIVE WORK SHALL BE CORRECTED AS SOON AS POSSIBLE AFTER IT BECOMES
- B. IF A SUBSTANTIAL NUMBER OF PLANTS ARE SICKLY OR DEAD AT THE TIME OF INSPECTION, ACCEPTANCE SHALL NOT BE GRANTED AND THE CONTRACTOR'S
- PLANT LIST OR THAT WHICH WAS TO REMAIN OR BE RELOCATED. THEY SHALL BE FURNISHED AND PLANTED AS SPECIFIED. THE COST SHALL BE BORNE BY
- DURING THE NORMAL PLANTING SEASON.
- LAWN MAINTENANCE
- B. WATER TO KEEP SURFACE SOIL MOIST. REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL. LIMING. FERTILIZING AND RE-SEEDING: MOW TO 2 1/2 - 3 INCHES AFTER GRASS REACHES 3 1/2 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 3 1/2 INCHES. WEED BY LOCAL SPOT APPLICATION OF

TREE PROTECTION NOTES:

