TOWN OF SEABROOK ISLAND

Planning Commission Regular Meeting January 11, 2023 – 1:30PM

Town Hall, Council Chambers 2001 Seabrook Island Road Seabrook Island, SC 29455

Watch Live Stream (YouTube)



Virtual Participation: Individuals who wish to participate in the meeting via Zoom may call (843) 7689121 or email kwatkins@townofseabrookisland.org for log-in information prior to the meeting.

AGENDA

CALL TO ORDER

APPROVAL OF MINUTES

1. Regular Meeting: December 14, 2022

OLD BUSINESS ITEMS

There are no old business items

NEW BUSINESS ITEMS

- 1. Swearing in of New Planning Commission Member Tom Hund
- 2. Election of Chair and Vice Chair
- **3.** Commercial Site Plan Review: Seabrook Island Racquet Club Phase **1** B [pages 4 39] Improvements:

Request from Donny Podany, on behalf of The Club at Seabrook Island, for Phase 1B improvements at the Seabrook Island Racquet Club.

ITEMS FOR INFORMATION / DISCUSSION

There are no items for information/discussion

ADJOURN

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TOWN OF SEABROOK ISLAND

Planning Commission Regular Meeting December 14, 2022

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MINUTES

Present: Stan Ullner (Chair), Wayne Billian (Vice Chair), Jim Newton, Ken Otstot, Sharon Welch, Joe Cronin (Town Administrator), Tyler Newman (Zoning Administrator), Katharine Watkins (Town Clerk)

Absent: None.

Guests: Mayor John Gregg

Chair Ullner called the meeting to order at 1:30PM.

APPROVAL OF MINUTES

1. Regular Meeting: October 12, 2022

Mr. Newton moved to approve the previous meeting minutes of October 12th; Mr. Otstot seconded. All voted in favor.

The previous meeting minutes of October 12th were approved.

OLD BUSINESS ITEMS

The Commission inquired about the construction project at the tennis courts and the lights at the courts being on after hours. Zoning Administrator Newman summarized the project.

The Commission inquired about the sign located in the right-of-way at Landfall Way for the French restaurant. Zoning Administrator Newman updated the Commission on the status of the sign.

The Commission inquired about the Seabrook Island Club parking of LSV's in the parking lot at the amenity office. Town Administrator Cronin and Zoning Administrator Newman clarified the zoning of the amenity office and the various uses in the commercial district.

The Commission inquired about the status of the potential annexation for the parcel located next to Bohicket Marina. Zoning Administrator Newman updated the Commission on the status and next steps for this potential annexation.

NEW BUSINESS ITEMS

1. Presentation of Certificate of Community Service to Kenneth Otstot

Mayor Gregg presented Kenneth Otstot a plaque for his years of service on the Planning Commission since 2014.

The Commission commented on the newest member appointed to the Planning Commission Tom Hund and will welcome him at the next meeting in January.

ITEMS FOR INFORMATION / DISCUSSION

None.

ADJOURN

Mr. Billian moved to adjourn the meeting; Mr. Newton seconded. All voted in favor.

The meeting adjourned at 1:49PM.

Date: December 14th, 2022

Prepared by: Katharine &. Watkins Town Clerk/Treasurer



MEMORANDUM

то:	Planning Commission Members
FROM:	Tyler Newman, Zoning Administrator
SUBJECT:	Commercial Plan Review: Seabrook Island Racquet Club Phase 1B Improvements
MEETING DATE:	January 11, 2023
DATE:	5011001 y 11, 2023

The Planning Commission is asked to review and approve a request from Donny Podany, on behalf of The Club at Seabrook Island, for Phase 1B improvements at the Seabrook Island Racquet Club which include the addition of four new pickleball courts, two bocce ball courts, an outdoor fire pit, trellises, and a sidewalk connecting these uses to the existing pro shop on site. The project will be located at 1710 Long Bend Drive with a Charleston County Tax Map Number of 149-01-00-001.

According to the applicant, this phase of improvements at the Seabrook Island Racquet Club is at the request of the club members who enjoy the game of pickleball.

The property is zoned Recreation (RC), and Open-Air Recreation is an approved conditional use. Per DSO § 9.4.1.1 the condition associated with an unlighted athletic court is that "unlighted athletic courts shall provide a level "B" buffer adjacent to any residential zoning boundary". This condition is not applicable to the approval in question because the proposed pickleball and bocce courts are not directly adjacent to a residential zoning district boundary therefore the buffer isn't required.

Copies of the applicant's narrative, plans, and photos of the existing site are included for review.

Staff Recommendation

The proposed pickleball courts, bocce ball courts, fire pit, and trellises all comply with the required 20' front setback from Seabrook Island Road and Long Bend Drive. Per the applicant's parking summary, the addition of the four pickleball courts and two bocce ball courts will not result in the need for any additional parking on site. It should also be noted that there is no maximum lot coverage requirement in the RC zoning district. Finally, based on the plans provided with the submittal the applicant is not proposing to remove any grand or heritage trees and the tree protection details outlined in the plans meet DSO requirements.

Both the material and height of the proposed 8' tall chain link fencing surrounding each of the pickleball courts are not allowable per DSO § 2.5.B.1.c, Fence Material, and DSO § 2.5.B.1.g, Fence Height, however on December 28, 2022 the Town of Seabrook Island Board of Zoning Appeals approved Variance #179 to allow the construction of the proposed 8' tall chain link fencing.

Based on this information, staff recommends in favor of **APPROVAL** of the request, subject to the Planning Commission's review and approval of proposed material and colors.

Respectfully submitted,

3/V

Tyler Newman Zoning Administrator



TOWN OF SEABROOK ISLAND

Zoning Permit Application

2001 Seabrook Island Road Seabrook Island, SC 29455 (843) 768-9121 <u>USE THIS FORM FOR</u>: New Construction, Additions, Renovations, Minor Repairs/Maintenance, Accessory Uses/Structures

1. PROPERTY INFORMATION				
Property Address	1701 Long Bend [Drive		
Tax Map Number	1490100001	Block #	Lot #	
Total Project Value	anei(2,5)			
Is this property subject to an O	CRM critical line? (eg. Marshf	ront or Beachfront Lots)	Yes	🖌 No
Is this property subject to priva	ate restrictions or covenants?	(eg. SIPOA and/or Regime	e) 🖌 Yes	No

2. APPLICANT INFORMATION			
Please provide information rega	rding the individual(s) who	is (are) submitting the Zoning Permit Application.	
Applicant Name(s)	John Fitzpatrick		
Applicant Address	2890 Seabrook Island	Road	
Applicant Phone Number	620-762-3489		
Applicant Email Address	jfitzpatrick@seabrool	klsland.com	
If the Applicant is <u>NOT</u> an owner the Applicant's relationship to the	r of the property, what is ne Property Owner(s)?	Director of Engineering	

3. PROPERTY OWNER INFORMATI	ON
If the Applicant(s) is (are) NOT the I	Property Owner(s), please provide information for the Property Owner(s).
Property Owner Name(s)	The Club at Seabrook Island
Property Owner Address	1002 Landfall Way
Property Owner Phone Number	843-768-2000
Property Owner Email Address	jfitzpatrick@seabrookIsland.com

4. BUILDER/CONTRACTOR INFORM	ATION		
Please provide information regarding	g the Builder or Contractor who will be completing the work, if applicable.		
Builder/Contractor Name N/A			
Builder/Contractor Address	N/A		
Builder/Contractor Phone Number	N/A		
Builder/Contractor Email Address	N/A		

5. Please provide a brief description of the proposed scope of work

The Raquet Club at Seabrook Island would like to add four pickleball courts, two boccee ball courts, sidewwalks, fire pit and trellises to the north east quadrant of the property

6. CERTIFICATION

Under penalty of perjury, I (we) hereby certify that the information contained in this application, including all supplemental materials, is true and accurate to the best of my (our) knowledge.

Applicant Signatura(s)	(panton Marthan Marthan	Date	12-30-22
Applicant Signature(s)		Date	

		OFFICE USE ONLY	11 Detail Indiana Marka	C. W.
Date Received	Status	Permit #	Issue Date	

Zoning Permit Application (Rev. 07/2022)



PROJECT NARRATIVE

То:	Tyler Newman, Zoning Administrator – Town of Seabrook Island
From:	Donny Podany, ASLA
Date	December 30,2022
Re:	22-01 Seabrook Island Racquet Club – Phase 1B

PROJECT DESCRIPTION:

This is the second phase of a potential multi-year improvement plan for the Seabrook Island Racquet Club. Subsequent phases will be determined by the membership's prioritization and funding availability. Anticipated construction cost of this phase is \$662,000 including contingencies and material cost escalation. Each stage of the long-term implementation will be submitted through the appropriate prosses as directed by the Zoning Administrator's office.

This phase is proposed to add 4 pickleball courts, 2 bocce ball courts, shade trellises, outdoor fire pit area and a sidewalk connecting these uses with the Pro Shop. In addition to the hardscape improvements, landscape and irrigation will be installed in areas around the new sidewalk and pickleball courts. This project phase is at the request of the members who enjoy the growing game of pickleball.

The pickleball courts are arranged to avoid the site's existing oak trees and mitigation for impacted trees is provided in the phase 1A of the project and through preserving trees meeting the preserved tree credit criteria provided in the D.S.O. Minor grading will occur to provide drainage from the courts and utilize the existing topography. The landscape material will consist of plants included on the approved species list found in the Town of Seabrook Development Standards Ordinance and will include trees, shrubs, and groundcovers. The existing irrigation system will be expanded to efficiently apply water to landscape areas and may be adjusted to shorter operational times after a period of plant establishment. We look forward to working with the Town on this project and future phases.

Thank you,

Donald E. Podany Jr.

Donny Podany, ASLA ELM | Ervin Lovett Miller

cc: file













KEY MAP

elm

planning

ELM Stu

TREE MITIGATION SUMMARY

TOTAL REMOVED	REPLACEMENT REQUIRED
203 IN	194 IN

RETAINED OR REPLACEMENT TREES PROVIDED

TREE REQUIREMENT	LIVE OAK (DBH)	PALM (DBH)
RETAINED TREES (6" - 12" DBH)	151	42
PLANTED TREES (DBH)	12	816
TOTAL	163	858

TREE MITIGATION TABULATION

TREE TO BE REMOVED	MITIGATION RATIO	REPLACEMENT	REPLACEMENT SIZE	LIVE OAKS	PALMS	REMOVED INCHES	REPLACEMENT REQUIRED	
LESS THAN 12 INCH DBH	50%	1 INCH FOR EVERY 2 INCH REMOVED	4 INCH DBH	8	11	19	10	
12 INCH BUT LESS THAN 24 INCH	100%	1 INCH FOR EVERY ONE INCH REMOVED	MULTI-STEMMED - 1 INCH ON ANY CANE	41	143	184	184	E
24 INCH OR GREATER	150%	1 1/2 INCH FOR EVERY INCH REMOVED	6 INCH DBH	0	0	0	0	E
			TOTAL	49	154	203	194	=

Tree Mitigation General Notes

- TREES PLAYED GOK MITGATION OF REMOVED TREES SHALL MEET THE PERFORMANCE STANDARDS OF THE TOWN OF SARBOOK BLAND DEVELOPMENT STANDARDS OEDINANCE. MITGATION SHALL BEARDD ON REFLACION DE SPECIES OF THE THAN THAN SEMOVED WITH THE SAME SPECIES; PROVIDED, SPECIES LISTED SANDARDS OF ROMAINED SECTION 3.9 J PHONOLOG SHALL DOPE LEDD.
- ANT TREE AT LEAST SX (6) INCHES DBH BUT LESS THAN 12 INCHES DBH RETAINED WITHIN THE AREA OF DISTURBANCE MAY BE REFAINED TO CONTRIBUTE, INCH-FOR INCH, TO A TREE MIIICATION REQUIREMENT; PROVIDED, THE TREE DOES NOT STAND IN A WETLAND, ANY REQUIRED BUFFER OR DESIGNATED OPEN SIACE. GO OTHER ALE NI WITCH THE TREE WOULD OTHERWISE ER REQUIRED TO BE CONSERVED.
- TREE SPECIES LISTED AS INVASIVE OR PROHIBITED IN SECTION D.3. APPENDIX D. MAY BE REMOVED AND MITIGATED AT ONE-HALF. THE RATE OTHER. ISE REQUIRED, PROVIDED, THE REPLACEMENT TREES SHALL BE OF A NON-PROHIBITED SPECIES.
- TREES PLANTED FOR MITIGATION SHALL BE IN ADDITION TO THOSE REQUIRED FOR STREETSCAPES, BUFFERING, AND PARKING LOTS.
- IN LEU OF PLANTING TREES REQURED FOR MITIGATION. THE DEVELOPER MAY, FLAPPROVED BY THE PLANING COMMISSION OR ZONING ADMINISTRATOR, AS APPRICABLE, PM A FEE PER CULFERINCI IN AN AMOUNT SET BY TOWN COLUNCI. THE FEE SHALL BE ASSED ON THE CUBERIT COST, AT WINGLISM, VILLUE OF INSTALLING A REQURED TREE TO THE STADARDS OF THE AMERICAN INFORMATION OF PUBLIC LANDS, AND BIGHTS OF WAY WILLIG OF INSTALLING A REQURED TREE TO THE STADARDS OF THE AMERICAN INFORMATION OF PUBLIC LANDS, AND BIGHTS OF WAY WILLIG OF INSTALLING A REQURED TREE TO THE STADARDS OF THE STADARDS
- 6. SEE SHEET LOOI FOR DETAIL MITIGATION PLAN AND SHEETS LSOI LSOS FOR TREES PLANTED IN PHASE 1A THAT ARE USED TO SATISFY PHASE 1B TREE REPLACEMENT REQUIREMENT

1701 LONG BEND DRIVE SEABROOK ISLAND, SC 29455 SEABROOK ISLAND CLUB RACQUET CLUB PHASE 1B IMPROVEMENTS

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OVERALL TREE MITIGATION PLAN TABULATION & NOTES







	ABBREVIATIONS								PRODUCTS AND MATERIAL NOTES			
	A @	ANGLE C	CHW CHILLED WATER CYD CUBIC YARD	FTG FURR B/T	FOOTING FURRED[ING]	MISC MISCELLANEOUS MM MULLIMETER MO MUSCARY OPENING	REG REGLET REINF REINFORCEMENT REIN DEVINIT	1. CONTRAC	TOR SHALL SUBMIT SAMPLES, SHOP DI	AWINGS AND APPROPRIATE CUT SHEETS FOR ALL MATERIALS FOR APPROVAL PRIOR TO ORDER AND/OR FARRICANON, ADDITIONAL SUBMITIALS FOR TEMS NOT REPRESENTED ON THE LIST MAY BE REQUIRED	CONTACT HE LANDSCAPE ARCHITECT IF ANY DISCREPANCIES OCCUR.	
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	AVE BD	AVERAGE D' BOARD	WG DRAWING WR DRAWER	HCORE HDR HDW	HOLLOW CORE HEADER HARDWARE	OBS OBSCURE (GLASS) OC ON CENTER OD OUTSIDE DIAMETER	SGD SLIDING GLASS DOOR SH SHELVES SHT SHEET			INSTALL FER MANNFACTURES RECOMMENDATIONS. REF DETAIL 1/L401, 7/L401, 8/L401, 9/L401 LANDSCARE FORMS	LANDSCAPEFORNS.COM	visual communication
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	BRG BRK BS	BEARING EL BROCK EL BOTTOM OF STEP EP BOTTOM	LEV ELEVATION (DRAWING) LEV ELEVATOR EMER EMERGENCY	HVAC HW	"HEATING, VENT.& AIR COND." HOT WATER	OPT OPTIONAL OSB ORENED STRAND BOARD OZ OUNCE	TCMU TOP OF CMU TF TOP OF FOOTING TOB TOP OF BANK		SLEEVE LOCATION	REINEL PRE MARKENELLINES RECUMMENDATIONS, REFLEMENT, MARK 3° SCH 40 PVC 0° ENGINES TP. VEREFLEMENTES REQUIRED FOR CROSSING LONGER THAN 6°	PHUNE NUMBER BUUASUSZUS X1322	Jacksonville, FL 32207 t 904 296 8066
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				~	11. THERE WILL BE NO SUBSTITUTIONS OF ASCHRECT TO DETERMINE EQUIVAL	EMATERIALS WHERE A MANUFACTURER ESPECTIED, WHERE TH LENCE BASED ON INFORMATION SUBMITTED BY THE CONTRACT	IE IBMG 'EQUIVALENT OF OR 'APPROVED EQUIVALENT ARE USE TOR.	HE				ISSUE DATES
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 Marked Control (Control (Contro) (Control (Contro) (Control (Contro) (Contro) (Cont(LEGAL PARCE	SUBSCRIPTION PER ROD BOOK K204 PAGE 032: L THREE (PACQUET CLUB)			23. PROMDE ALL NECESSARY CUT-DUS	SFOR THE INSTALLATION OF ELECTRICAL AND VORCE/DATA OU	REIS THERMOSTATS SATCHES AND OTHER DEVICES.					THIS DRAWING IS AN INSTRUMENT OF SERVICE AND
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	PAU ALO DE HARCICARE PLANS, ANY DECEMBACES ENVIENT INSE PLANS SHULL EL RECICIONT DI DE INVECTION CO PIE DIMENSI DARIS ADDRE AND HE LANDICARE ARCHECT PROR TO PROCEEDING WITH HE WORK, POSITIVE DRAMAGE SHULL BE MANTAND IN ALL ABBAL.			41.				PROJ. #: <u>22-01</u> DATE: 11 11 2022				
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Scale I' = 100-0' Scale I' = 100-0' Scale I' = 100-0' Scale I' = 100-0'	Md 26				 CONTRACTOR SHALL COORDIT UTILITIES AT LEAST 24 TO 48 HOU CONTRACTOR SHALL FURNISH 5 	INALE WITH A LOCAL UTILITY LOCATION SERVICE AND U URS PROR TO DIGGING. SHOP DRAWINGS TO THE LANDSCAPE ARCHITECT INDU	CATING MATERIALS AND MANNER OF INSTALLATION FOR			, Γ ΡΙ ΔΝ		SHEET NUMBER
	02234				COMPONENTS OF THIS PROJEC 33. THE CONTRACTOR SHALL FURN	CT, PRIOR TO PURCHASE OF MATERIALS AND CONSTRU- IGH CERTIFIED "AS-BUILTS" AS REQUIRED BY DIVISION 1 S	ICTION. SPECIFICATIONS AND CIVIL ENGINEERING PLANS.	(1)	SCALE: 1" = 200'-0"		SCALF: 1" = 100'-0'	1100
	12/28/2				34. CONTRACTOR SHALL VERIFY AT INDICATED FOR CONSTRUCTIO TREES THAT SHALL BE PROTECTE	ND PROTECT ALL EXISTING TREES AND NATURAL VEGET. IN SHALL BE CLEARED AND GRUBBED TO REMOVE ALL R ED FROM DAMAGE DURING CONSTRUCTION WITH THE	ATION THAT ARE TO REMAIN UNDISTURBED. THE AREAS RODIS AND MISCELLANEOUS VEGETATION, EXCEPT SPEC USE OF TREE BARRIERS.	<u></u>				





























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 Control-or occurrently of peolitications, general conditions, and the dowings. The intent of these documents is to include all labor, materials, and shall be abbriding of is called for in all parts. The work. The docurrent's are to be considered as one. Whatever is called for by any parts and the abbriding of is called for in all parts.
- Drawings and general provisions of co work of this section. and supplementary conditions and Division I specifications, apply to
- 2. Related Specification Section a. Section 32 92 00 Turf and Grasses b. Section 32 93 00 Planting
- Believen to service and the service of the service of the operated and the service of the paragraph form a part of the Reference. The following participations and tandards of the operated and the fact equivalent of the following participation of the and participations and the service of the participation of the following references that and is on a participation confiler with each of the following the regulations of the service of th

- ASTM: American Society of Testing Materials cited section numbers.
 U.S. Department of Agriculture, Natural Resources Conservation Service, 2003. National Soil Survey Handbook, Itile 450-VI. Available Online. US Composting Council www.compostingcouncil.org and http://compostingcouncil.org/admin.wp-commit/ptugins/wp-pdfupload/pdf/191/LandscapeArch_Specs.pdf.
- Methods of Soil Analysis, as published by the Soil Science Society of America (http://www.soils.org/).
 Up by Roots: healthy soils and trees in the built environment. 2008. J. Urban. International Society of Arbanculture, Champaign, IL. A strategister of the drawing pre-approximate. Before proceeding with any work, the Contractor that contribute characterial contractions and approximate and the contract strategister of any acceptone to the contract on the international termination of any acceptone to a solution. International termination of any acceptone to a solution the contract conditions, inflaming for any acceptone to a solution. The contract conditions are approximate and the activat conditions, inflaming for any acceptone to a solution.
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- A. Pla Controls indi obtani andi por ori a pamih alebida thi section of the work units perivoking excludes united provision of the origination of the port of pamih and the port of the
- C. In case of conflict among any whereneed standards or codes to camong any referenced standards and to the more exercises translation and particular control of the standards and the standards and the RROTECION OF WORK, RROTERTY AND PERSON A. The Carried and the decayed particular the standards and the public, and shall be responsible for any control of the standard standards.
- A the Owner's Representative may order changes in the work, and the contract sum adjusted accordingly. All such orders and adjust plus claims by the Contractor for exite compensation must be made and approved in writing before executing the work invelved. B all changes in the work indications and compensations ensured to information (BB) kind (continue to the contract anearcian condition
- B.All changes in requirements. ORRECTION OF WORK
- -- me common smaller-learning any work mar was to contorn to the requirements of the contract and shall kenedy defects due to fourly moterials or workmanthip upon written notice from the Owner's Representative, at the sconety possible time that can be coordinated with other work and searchid weather demands but not more than 180 (one hundred and weight) days after notification.
- A Acceptible drainage: Drainage rate is sifticient to the plants to be grown. Not too fast and not too idw. Typical rates for installed to the plants to the grown. Not too fast and not too idw. Typical rates for installed to the rate of the plant to the plant to
- Amandment: material added to Topical to produce Planting Soil Mix Amendments are classified as general soil omendments, fart biological, and pH amendments.
- biological and pirl amenament. Elodojcal ameninent. Ameniament zu han di kost na kycontibal additive, compost tea ar other producti interded to change the sal biologi 2. Composted sols coll where the denily of the sal is greater than the thrended to not firming, and further defined in this specification. Composite will accomposed table against functioned and defined by the IS Compositer, deficience and this specification. Dianoparate hyraits contraction and the sal is proteined and the salt of the salt of
- Separation of a Pollowing hydroxic biologing in the Owner's Representative accepts that the plants and work in this section meet all the requirements of the woranty. It is intended that the materials and workmaniship warranty for Planting, Planting Sail, and Irrigation (if applicable) work run concurrent with each other, and further defined in this specification. 4. Briding Solt Mineral cell existing of the locations of proposed planning planning model. CELER.
 4. Briding Solt Mineral cell existing of the locations of proposed planning area for solt models after on und/or planning, and further defined in this specification.
- I. The grading: The find grading of the soil to achieve exact controls and positive drainage, after accomplished by hand rakes, drag rake or other subble devices and human defined in the specification. K. Finished grade: surface or elevation of Planting Soil after final grading and 12 months of settlement of the soil, and further defined in this specification.
- . Graded skill Sol where the A horizon has been stripped and relocated or re-spread; cuts and fills deeper than 12 inches, and further adfread in this specification. na soil and existing site soil that is spread and or graded to form a planting soil, and further defined in this specification
- N. Minor disturbance: Minor grading as part of agricultural work that only adjusts the A halzon soil, minor surface compaction in the top 6 inches of the soil, applications of fertilizers, installation of utility pipes smaller than 18 inches in diameter thru the soil zone. In the sex diplectations to memory, thrustancing to damy paper singles many a finite in summary with a set annu-tive sector of the sector of end by populate by the Owner's to graver their interest in the relevance of a deposited of the work is separated by the sector of end by populate by the Owner's to graver their interest in the relevance of a deposited of the work of any or cold of a finited together by a combination of clays organic method, and fungal hyphoe, relating the original structure Approve any aspects Ped: a clump or clod is of the harvested soil.
- Q. Planting Soil: Topsoil, or Planting Soil Mees which are imported or existing at the site, or made from components that exist at the site, or are imported to the site; and further defined in this specification. Imposed to me tail, this turne densitie in the specification. R. Dord analogica: To disclope the tails show than the to which the prioritis can adopt. This is a wide range of metrics, but generatly if the R. Dord analogica: The specification of the specificat
- V. Sal Ripping: Lapsening the sall by dragging a ripping shark or chisel thru the sall to the depths and spacing specified, and further defined.
- Sol Ting: Lossening the surface of the soil to the depths specified with a rotary fine tiling machine, roto filer, (or spade filer), and further defined in this specification. Soit Renching: Cutting norrow trenches thru the soil at the depths and spacing specified to loosen the soil profile, and further defined in this specification. Ins specification. 5. subgrade: surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill, before pla Planting Soil
- I same a completion Acceptoment The dotte of the end of the Penting, Penning Sol, and Introduction (Explication) and the pencing sol, and Introduction (Explication) and the pencing sol, and Introduction (Explication) and the pencing sol and the p

Undisturbed soit Sols with the original A harbon inter that have not been graded or compacted. Soils that have bee jocked to fire a logged but not graded, and natural forested land will be considered as undisturbed.

See the contract General Conditions for policy and procedures related to submittals.

ubmit all product submittals eight weeks prior to the start of the soil work. Product data and certificates: For each type of manufactured product, submit data and certificates that the product meets the specification requirements, specification and use of manufactures, and complying with the following:

- Submit manufacturers or supplier's product data and literature certified analysis for stan with testing requirements and referenced standards and specific requested testing. a. For each Compact product submit the following analysis by a recoarised liaboratory.

- Saft concentration (electrical conductivity)
 Matsure content %, wat weight basis
 Particle size % possing a selected mesh size, dry weight basis
 Stability carbon dioxide evolution rate mg CO2-C per g OM per day
 Salvite methrith text
- 6.) Solvita maturity test
 7.) Physical contraminants (inerts) 5, dry weight basis
 8.) US EPA.C A d rd. 40CFR 503.13,1 l d3 C C
 5. For Coarse Sand product submit the following analysis by a recoarised laboratory:
- pH
 Particle size distribution (percent passing the following sieve sizes): 28 inch (8.5 mpt)

- ples: Submit samples of each product and material, where required by Part 2 of the specification, to the Owner's Rep and Label samples to indicate product absorber for and increases in the unit. Samples will be minimum for anoth
- . Submit samples a minimum of 8 weeks prior to the anticipated date of the start of call installation.
 1. Samples of all Topool, Coorse Sand, Compost and Planting Sal shall be submitted at the same time as the particle size and physical analysis of that installation.
- xisting Tapsoli, existing site soil to be modified as Planting Soil and Planting Soil Mixe Topsol, witting site soil and Planting Soil Mix testing: Submit soil test analysis report for each sample of Topsol, existing site soil and
- Submit Toppal, Pranting Sal, Compart, and Coarie Sand for testing at least 8 weeks before scheduled installation Mess, Submit Natring Sal Market no more than 2 weeks after the approved of the Toppal, Compart and Coarie Sand have b submit to the testing laboratory, Panting Sal Mass, for testing utili al Toppal, Compart and Coarie Sand have b J, testis tail somet the specifications, abdition diver scores of matchick lested and security and coaries for and have the submit to the testing laboratory. Panting Sal Mass, for testing utili al Toppal, Compart and Coarie Sand have b J, testis tail somet the specifications, abdition diver scores of matchick lested and security and coaries for and have the submit the submit that accepted by the score of matchick lested and security at the coaries for a for the submit that accepted by the score of the submit that accepted by the score of matchick lested and security at the score of matchick lested and the submit that accepted by the score of the score of the score of the score of matchick lested and the submit that accepted by the score of t
- . Il be at the expense of the Contractor.
- Provide a particle size analysis (\$ dry weight) and USDA soil texture analysis. Soil testing of Planting Soil Nixes shall also include USDA gradation (percentage) of gravel, coarse sand, medium sand, and fine sand in addition to sitt and clay.
- . Nutrient levels by parts per vision including phaspharus, potassium, magnesium, manganese, iron, zinc and calcium. Nutrient text shall include the testing laboratory recommendators for supplemental additions to the soil for optimum growth of the plantinas smartlent. 2.6 EXISTING SOIL (ACCEPTABLE FOR PLANTING WITH MINIMUM MODIFICATIONS)

- d. Soluble sait by electrical conductivity of a 1/2 sail water sample measured in Milliohm per cm. e. Cafion Exchange Capacity (CEC). EVAIDIO OF the WORK
- 4. The Owner's Representative may observe the work at any time. They may remove samples of materials for contamity to specifications. Rejected materials shall be immediately removed from the site and replaced at the Contractor's expense. The cost of testing materials not meeting specifications shall be paid by the Contractor.
- Returns a spectra control or point by INE CONTRACTOR.
 The Owner's Representative may utilize the Contractor's penetrometer and moisture meter at any time to check soil compaction and moisture meter at any time to check soil compaction and moisture meters.

2. Immediately install the Planting Soil. Protect the loosened area from traffic. DO NOT allow the loosened subgrade to be compacited.

E Where possible place large frees first and If Planting Soil around the root ball. 3. Justaling soil with soil or mulch blowers or soil singers shall not be permitted due to the over mixing and soil ped hote of equipment.

. that the losseneri area becomes averly compacted, lossen the area appin prior to installing the Planting Soil.

elm

planning architecture

landscape architecture

urban design

visual communication

Jacksonville ELM Studio

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Implan.com

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LANDSCAPE

SPECIFICATIONS

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PROJ. #:

CHECKED BY:

DATE

SCALE:

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PHASE

CLUB

RACQUET

ISSUE DATES

DESCRIPTION

Listal the Planting Sol in 12 - 18 inch lifts to the required depths. Apply compacting forces to each lift as required to attain the required compactors. Scally the top of each lift pier to adding more Planting Soil by dragging the teeth of a loader bucket or backhoe across th sol where the required to a track the end of the second s

Enase work such that equipment to deliver or grade soil does not have to operate over previously installed Planting Soil. Work in rows of lifts the width of the estension of the bucket on the loader, instal all lifts in one row before proceeding to the next. Work out from the furthest part of each bad from this soil delivery part to the edge of the each bad area.

• Hyber of exploration. Hyber travel over installed soil is unaveidable, limit paths of traffic to reduce the impact of compaction in Planting Soil. Each time equipment passes over the installed soil it shall reveale out of the area along the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the same path with the teeth of the bucket dropped to a start of the same path with the teeth of the bucket dropped to a start of the bucket dropped to bucket dropped to bucket dropped to a start of the bucket dropped to bucket dropped to bucket dropped to bucket dropped to a start of the bucket dropped to bucket The depth and grades shown on the drawings are the find grades after sattlement and thrikage of the compact material. The Contractor shall shall the Planting Sol at a higher level to anticipate this reduction of Manting Sol volume. A minimum sattlement of approximgle() = 1.55 of the sol depth is expected. A grade increases are assumd to be at measured prior to addition of sunface.

some to a metal a material. Existing solit hat is maddled by tilling, ripping or fracturing shall have a density to the depth of the modification, after completion of the lossening, such that the penetromater neaks approximately 75 to 250 pi at soil matisture approximately the mid-point between willing point and field connectly. This will be premained by these 75 and 850 at morismum day, density changing function

. Installed Planting Soil Mix and re-spread existing soil shall have a soil density through the required depth of the installed layers of soil, such that the penetrometer reads opproximately 75 to 250 psi at soil makiture approximately the mid-point between will point and field capacity. This will be approximately be thereas.

Dearing Sel compaction in stills besided of each III was used with intermentary available to the state of the state of

Provide adequate equipment to achieve consider on uniform compaction of the Planting Sole. Use the smallest equipment that can gragorophy perform the task of spreading and compaction. Use the same equipment and methods of compaction used to construct the planting Sol more use.

OVER COMPACTION REDUCTION
A Any soil from the specified density and/or the density in the approved mackup shall be
adjugged and installab. This requirement includes compaction caused by other sub-contractors often the Planting Soil is installed and
adjugged and installab. This requirement includes compaction caused by other sub-contractors often the Planting Soil is installed and

provinc. Inface roto filling shall not be considered adequate to reduce over compaction at levels 6 inches or greater below finished grade.

ISIALIAN OF CHEMICAL ADDITIVES . Following the installation of each soil and prior to fine grading and installation of the Composit till layer, apply chemical additives as recomminised by the soil test, and appropriate to the soil and specific plants to be installed.

Representative shall approve all rough grading prior to the installation of Compost. The grading, planting, and m 8. Grade the finish surface of all planted areas to meet the grades shown on the drawings, allowing the finished grades to remain higher (10 -) 5% of depth of soll modification) than the grades on the grades allow, as defined in paragraph Pantina Soll Installation, to anti-based

settement over the first year. 2. Utilize hand expiriment, mail gorden tractors with rakes, or small garden tractors with buckets with teeth for fine grading to keep surface rough without further compaction. Do not use the fait bottom of a loader bucket to fine grade, as it will cause the finished grade to become users smarth and in or within compresent.

Devide for positive drainage from all areas toward the existing intert, drainage structures and or the edges of planting beds. Adjust grades as detected to reflect actual constructed field conditions of paving, will and inter seventions. Notify the Owner's Representative in the event into condition or provide or divide or

Provide smooth, rounded transitions between slopes of different gradients and direction. Modify the grade so that the finish grade before adding mulch and after settlement is one or two inches below all paying surfaces or as directed by the drawings. Fill digis and remove any barrys in the overal plane of the sizes. The bioterance for dispatched by the disowing. Fill digis and remove any barrys in the overal plane of the sizes. The bioterance for disp and barrys in shake and graund cover planting areas shall be a 2 inch deviation from the plane in 10 set. The followings and barrys in lown areas shall be a 1 inch deviation from the plane in 10 set.

All the means to be a set of the set of the

LLBAHuri A buring installation, keep the site free of train, powements reasonably clean and waik area in an orderly condition at the end of each db. Jaming installation, keep the site free of train, powements reasonably clean and waik area in an orderly condition at the end of each db. Jamingshaip clean up any galled or tracked usit, field of train or abirst deposited by the Contractor from all surfaces within the project or on publicity of the year and neighboring property.

project of or pack right of way and highborh graphysic. The second secon

In Contract training contraction of the CONTRACT And the Contract training contamination and over compaction due to offer an statistical, planting operations, and operations by other Contractor of training contamination and over compaction due to offer and statistical, planting operating, and operating by other Contractor of training and the Contract and the participation of the Contract and the Participation of the Contract and the Participation of the Contract and the Contract an

Locare comparative initiality.
 Locare comparative provide Pointing Soil and replace Planting Soil that has become contaminated as determined by the Owner's Representative
 Planting Soil shall be locared or replaced of an explane to the Owner.
 Diadre provide provide provide the planting soil that has become contaminated as determined by the Owner's Representative
 Diadre provide provide provide the planting soil and replace to the Owner.

NON DURING CONSTRUCTION orthoctor shall protect biomfing and related work and other site work from damage due to planting operations, operations to Corps or trainagester.

Maintain protection during installation until the date of plant acceptance (see specifications section - Planting). Treat, repair or replace damaged work immediately.

reproceeding of the second or the second or

Butting and instantial completion of the planting soil shall be the date when the Owner's Representative accepts that all work in Ple Planting Sol, and inigation installation sections is complete.

A non-generative set and a set of the set of

. Restore any soil settlement and or erosion areas to the grades shown on the drawings. When restoring soil grades remove plants and mulch and add soil before restoring the planting. Do not add soil over the root balls of plants or on top of mulch. 8.Failure to pass acceptance: If the work fails to pass final acceptance, any subsequent observations must be rescheduled as per above. The cost to the Owner for additional observations will be charged to the Contractor at the prevailing houry rate of the Owner's Persenentritie.

a. Its and restore grades to all soil that has been driven over or compacted during the installation of plants.
b. When modified existing cal has become contaminated and needs to be replaced, provide imported soil that is of similar compatibility of the driven that as resimoved.

Types, application rates and methods of application shall be approved by the Owner's Representative prior to any applications.

Let nor your indexident experiment such as tenching machines or motoribad wheel berrows is permitted to pass over finit 1. Light weight equipment such as tenching machines or motoribad wheel borrows is permitted to pass over finit 2. If work after the installation and compaction of sal compacts the sal to levels greater than the above require requirements of the paragraph Tover Compaction Reduction's below.

. MPOST THE LAYER

Contractor. TING SOIL AND MODIFIED EXISTING SOIL PROTECTION

arborst. Substantial Completion Acceptance A. Upon written notice from the Con-substantially complete.

END OF SECTION 32 91 00

A. Protect existing soil from compaction, contamination, and degradation during the construction process.
8. Unless otherwise instructed, remove all existing pipers, roat thatch, and non-soil debris from the surface of the soil using equipment that deer not increase compaction of both to not infing levels.

tedifications: When result of sail tests recommend chemical adjustments, till surface sail to sk inches or greater after chemical adjustments have been are applied.

A Green definition furthers sol in the energy related as worther Safety Sol has been shared and an greeded before or during the model for the sol processing the sol that and the sol has a solution of the solution of the

Jenetal requirements for at loal modifications: Take and anaptes, ten of channel appropriets, and make appropriate adjustments. Livies: administer for the channel of properties, and make appropriate adjustments. Livies: administer for the compaction in the fail. All out profiles and the compaction in the fail. All out profiles and the compaction in the fail. All out profiles and the compaction in the fail. All out of these, when the soll makes is below fails account. All out profiles the when suppresent.

minimis represented. d. Provide pre-emergent weed control after the soil work is complete and plants planted but prior to adding mulch to the surface, it indicated by weed type and degree of threat.

adfled existing soil - soil removed, stackpiled, and spread Description of condition to be modified: Baking soil that is suitable for reuse as Planting Soil but is in the wang place of elevation, or modifications indications.

Modifications: a. Excounce existing soil from the areas and to depths designated on the drawings. Stockpile in zones noted on the drawings or in areas proposed by the Contractor.

Liprepare a soil stock pine Contractory 1) Prepare a soil stock pine plan for approval. b. Executes soil using equipment and methods to preserve the clumps and peds in the soil. Generally this means using the largest piece of equipment that is practical for the project size and scope.

years or experiment must pructical torit the project isa and scope.
Protect stock pills from easion by compacting or taking the soil surface, covering with branchable fabric or planting with annual grasses or appropriate for the second location, and length of expected time of stolage.

Becarding and the second as a second second as a second se

Modification: a Bits is holder or designed the soli underse, with a prob Bits, Spaced 2 - 3 inches of Compart on the underse of the Bited soli and b. Bit of a holder or designed the soli underse and a strendth and grades with a degrades or degrade. Bits of the Compared is shown of the solitation of problem within a degrades or degrade. Bits of a holder or designed the solitation of the solitation of the solitation of the solitation of the Bited solitation of the solitation of the solitation of the Bited solitation of the Bited solitation of the solitation of t

December 2010 - Constant is microbial on lengence.
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Description - Description

Description of compaction, here the solit organic matter, pH and/or chemistry and holdon but solit in or compacted except for some micro subrace compaction. The solit organic matter, pH and/or chemistry are likely not subble for the proposed plants and should here maded or regulated.

Internet and a second of the second three and one allowed with a web tested out outfue. So is departed to allowed the second test of the second test of

. General definition: Mixes of Existing Soil or imported Topsoil, Coarse Sand, and or Compast to make a new soil that meets the project goals for the indicated planting area. These may be mixed off site or onsite, and will vary in Mix components and proportions as indicated

a. Not the Counts Sand and Compart together fart and then add to the Tapsal. Not With a loader bucket to loadly incorporate to the provident of the solution of the solutio

5. Provide a two gallon sample with testing data that includes recommendations for chemical additives for the types of plants to be arown. Samples and testing data shall be submitted at the same time.

Into the table, diddle thanking water. Remove invalidation franking from the factors are unless that the second of the second of

A. Provide grade and elevation control during installation of Planting Soli. Utilize grade stakes, surveying equipment, and other means and methods to assure that grades and contours conform to the grades indicated on the plans.

Bit High Audion) Accords to the proposed indexted Monthill of table list conjugate disposed of the addeced in motivate is it shown on the structure or a factorial to the proposed indexted body the addeced and provide and block the shown of the addeced or table add accords to the proposed indexted accords the addeced and provide and block the shown of the addeced Bit more ad contractions block on antirefactorizing any construction materials to the addeced and the addeced Bit more ad contractions block on antirefactorizing any construction materials to the addeced and the addeced

b In device history backgroups to be global concentration applicable to be provided in the concentration of the provided in the provided interpret of the provi

A. Volumetric sol maisture level, in both the Planting Soil and the root balls of all plants, prior to, during and after planting shall be above permanent will point and below field capacity for each type of soil texture within the following ranges.

A. Follow the requirements for modifying existing soil as indicated in Part 2 for the different types of soil modifications. The extent of the areas of different soil modification types are indicated on the Soils Pian or as directed by the Owner's Representative.

In the second set of the performance of the second set of the s

In alreas of sail installation above existing subsoil, scatly the subgrade material prior to installing Planting Soil. 1. Scatly the subsoil of the subgrade to a depth of 3 - 6 inches with the teeth of the back hoe or loader bucket, tiller or other suitable dericia.

PLAVIING SQL and planting soil mix INSTALLATION A. Plice to installing any Planting Soil item stockpiles or Planting Soil Mixes blended off site, the Owner's Representative shall approve the condition of the subgrade and the previously installed subgrade preparation and the installation of subsurface drainage.

Permanent witting point

5 - 8% 14 - 25% 11 - 22% 22 - 27%

Field copacity 12 - 18% 27 - 36% 31 - 36% 38 - 41%

Confirm that surface all areas to be filled with Planting Soil are free of construction debris, refuse, compressible or biodegradable materials, stones greater than 2 inches diameter, soil crusting films of all or alay, that reduces or stops drainage from the Planting Soil rich is subject fold(or stranding work). Remove numbers in materials materials and the stops drainage from the Planting Soil rich is subject of failed or standing work. Remove numbers in materials materials and the stops drainage from the Planting Soil rich subject of failed or standing work. Remove numbers in materials materials that planting soil in the stops of the stops

draining soil for trees and shrub beds Coarse Sand and Compost. The approximate Mix ratio shall be:

0% en 2.75 and 4% lby dry weight

A. Chemical herbicides are designed to prevent seeds of selective plants from germinating. Exact type of herb specific plants to be controlled and the most effective date of application.

oceeding. ORDHAIDON WITH PROJECT WORK the Contractor shall coordinate with all other work that may impact the completion of the for to the start of work, prepare a detailed schedule of the work for coordination with oth

Coordinate the relocation of any infgation lines, heads or the conduits of other utility lines that are in co hall not be altered to fit around lines. Notify the Owner's Representative of any conflicts encountered. ADE AND EXPAIDIN CONTROL

8. Submit report of expected weed problems and the recommendation of the most effective control for approval by Owner's Reversentitive. Provide emminificative's literative and independent certification that the provider meets the requirements.

I woldcare.
I woldcare.
a. Spead 3.4. A charts of Compart over the sufface of the soit and make chemical adjustment as recommended by the soit test.
b. If Compart into the top's intense of the soit.
B. Compart into the top's intense of the soit.
b. Baccepton of condition to be mediated. Sufface compart/soit need test.
B. Baccepton of condition to be mediated. Sufface compart/soit need to extend the result backet in the upper soit horten the result back?

tions: ve the tops of all plants to be i d plats to be removed.

Mix component % by maist volume Imported Topsal unscreened 45 - 50% Coarse sand 40 - 45% Compost 10%

Coarse sand 4 Compost 1 Final tested organic matter between

Soil texture Sand, Loamy sand, Sandy loam Loam, Sandy clay, Sandy clay loam Clay loam, Silt Joam Silty clay, Silty clay loam the Constructer shell confirm the real of

IG SOIL MIKES

PRE - EMERGENT HERBICIDES

r. turf thatch, ground cover plants and weeds. Provide pre-emergent weed control if indicated. Make chemical adjustment as recommended by the soil test.

MODIFIED FUSTING SOIL (SOIL SUITABLE FOR PLANTING WITH INDICATED MODIFICATION)

- Incourse: Representative shall be informed of the progress of the work so the work may be observed at the following key times in the construction process. The Owner's Representative shall be afforded sufficient time to schedule with the site. Failure of the Owner's Representative to movie fair (reservices while into advises the Controvict from meeting on the site result for failure of the Owner's Representative.
- specientifies to mais faile observations ratin of seleve the Contracts from meding of the angularisms of this specification." In EMICS DIS CONDENS ENRIFIES Not to the other of any of medication for selevation and the earling call. In ECAVADIS NEW With Deservations and elecandera parts the institution of any Proteing Sol. Contracts and the Contract of the Contract of the Contract of the Institution of any Proteing Sol. Contracts of the Contract of the Contrac
- Schedule a pre-construction meeting with the Owner's Representative at least seven (7) days before beginning work to review any questions the Contractor may have regarding the work, administrative procedures during construction and project work schedule.
- Installer Qualifications: The installer shall be a firm having at least 5 years of experience of a scope similar to that required for the work, including the preparation, maining and installation of sail mixes to support planting. The installer of the work in Section: Planting, shall be the ame firm installing the work in this section.
- and the instability time was in this account in a section state of section and the instability time was an excited in a section of the instability time was an excited in a section of the instability time was an excited in a section of the instability time was an excited in a section of the instability of the instability time was an excited in a section of the instability of the instability
- Insum security and applicable (Celland).
- Individual and not be before. If delivered and installed Planting Soil shall conform to the approved submittals sample color, texture and approved test analysis. The Owner's Representative may request samples of the delivered or installed soil be tested for analysis to confirm the Planting Soil confirms to the enconvert mederal.
- 2. All string while performed type for some soil lab that performed the original Planting Soil testing. 3. Testing results that be within 105 plus or mixus of the values measured in the approved Planting Soil Nelss. 4. Any Planting Soil that fails them the above criterial, increased by the Auren's Representations, rais be removed and new soil
- Solic compaction testing: following installation or modification of soil, test soil compaction with a penetrometer.
 . Maintain at the site at all times a soil cone penetrometer with pressure dial and a soil maisture meter to check soil compaction and soil maisture meter to check soil compaction and soil
- meter shall be AgraTronix Sail Compaction Meter distributed by Ben Meadows, <u>www.benmeadows.com or approved equal</u> r r d r r d r d B M d .<u>www.benmeadows.com or approved</u> b. M r equal.
- . It is the responsibility of the Contractor to be aware of all surface and subsurface conditions, and to notify the Owner's Representative, in writing, of any circuinstances that would negatively impact the health of plantings. Do not proceed with work until unsatisfactory a tasked notes been chosened. Should substrate drainage or soil conditions be encountered which would be detrimental to growth or survival of plant material, the Contractor shall notify the Owner's Representative in writing, stating the conditions and submit & proposit covering cost of corrections. If the Contractor for shall notify the Owner's Representative of such conditions and submit & propositive for plant material under the I the Contractor for shall notify the Owner's Representative of such conditions in your has termain reporting to the Owner's Representative of such conditions.
- Tris specification requires that all Planting Soil and Inigation (if applicable) work be completed and accepted prior to the installatio of one prior to CENERAL RECURRENT
- . Except where more stingent requirements are defined in this specification. The following parameters shall define the general description of the threshold points of solic compactants in existing, modified or installed soil and subsol.
- he following are threshold levels of compaction as determined by each method. . Acceptable Compaction: Good rooting anticipated, but increasing settlement expected as compaction a high argumic matter content.
- Chippi opgale indite contain. I als Darky Mark V Visits tyrolog hys as a Chort on page 31 in <u>B b Rob</u>, b als Darky Mark Visits tyrolog hys as a Chort on page 31 in <u>B b Rob</u>, also Darky Mark Visits tyrolog hys as a Chort on page 31 in <u>B b Rob</u>, chort Part Chort Page 31 in <u>B b Rob</u>, Chort Part Chort Page 31 in <u>B b Rob</u>, b Short And Chort Page 31 in <u>B b Rob</u>, b Short Page 31 in <u>B b Rob</u>, b Sh

- Bicessive Compaction: Roots not likely to grow but can penetrate sol when soil is above field capacity.
 But Density Method Varies by soil type see Chart on page 32 in <u>Up By Roots</u>.
 Standard Process Method. . Penetration Resistance Method - Approximately above 400 psi RY, STORAGE, AND HANDLING
- ND HANDLING ix, deliver, place or grade soils when frozen or with
- Protect soil and soil stockpiles, including the stockpiles at the soil blender's yard, from wind, rain and washing that can erode soil or separate free, and coarse material, and contamination by chemicals, dust and debits that may be detirmental to plants or soil drainage Cover stockpiles with plants: Indeeting or table and a locab workday. . All manufactured packaged products and material shall be delivered to the site in unopened containers and stored in a dry enclosed space suitable for the material and meeting all environmental regulations. Biological additives shall be protected from extreme cold and heat. All products shall be freely manufactured and dated for the year in which the products are to be used.
- Deliver al chemical amenément in ediginal, unopenand contrânse ter la ventar une producto de lo be utida. L'interplate la chemical amenément in ediginal, unopenand contrânse velt indiginal labés interat can la pible, which tate the guaranteed chemical amayé, store al chemicals in a vectorite protected enclasure. L'un reglatic Coordiginal delivery and decoge with Comers' Representative and confine material to neat pible in areas acceptable to Bulk material: Coord
- IG AROUND LITERP . Contractor shall construe within the civil, record, and survey drawings to become familiar with the existing undergrout before digging.
- . If an of underground utilities and perform work in a manner that will avoid damage. Hand excavate as required. Maintai If an other utilities concerned multiple concerns uncerned will grower answer are by one access patheas Concerned minibally agree upon removal. C. Notification of the local utility locator service. Sumhne 811, 1-800-432-4770, is required for all planting areas. The Contractor is responsible for nowing the location and avading utilities that are not covered by the local utility locator service.
- PART 2 PRODUCTS
 - IMPORTED TOPSOI In proported Topical isolation for failing include sol controlling late than 55 tobal volume of the combinition of ubuck, refuse provide any provide the provided topical isolation of the provided topical iso
 - soit teature: USDA loam, sandy clay loam or sandy loam with clay content between 15 and 25%. And a combined clay/sit content of non-more finan 55%.
 - no more than 55%. 2. pH value shall be botween 5.5 and 7.0. 3. Percent organic matter (OM): 20.50%, by dry weight. 4. Soluble soll level: Lass than 2 mmho/cm. 5. Soil chemistry suitable for growing the plants specified.

 - a. So characterized by during any part guard guard
 - Provide a two gallon sample from each imported Topsol source with required sol testing results. The sample shall be a mixture of the random sample taken around the source stockpile of field. The soil sample shall be delivered with soil pads intact that represent the see and quantity of expected pests in the final delivered sol.
 - . Compost: Blended and ground leaf, wood and other plant based material, composted for a minimum of 9 months and at temperature sufficient to break down all woody libers, seeds and leaf structures, free of toxic material at levels that are harmful to plants or humans.
 - Souce indentify that be yord works firmings blendade with other part of name of na endee of name of na
 - http://compostingcouncil.org/admin/wp-content/plugins/wp-pdtupload/pdt/191/LandscapeArch_Specs.pdt Compost shall comply with the following parameters:
 - a, pH: 55 8.0.
 b. Soil soit (electrical conductivity): maximum 5 d5/m (mmhos/cm).
 Mnisture content %, wet weight basis: 30 60.

to vice and got smaller with manufacturer's literature and material certification that the product RILIZER, BIOLOGICAL AND OTHER AMENDMENTS

Fertilizers and specially biological amendment products such as Myconhizal amendments or Compost Tea are not ge recommended at planting and are not included in this specification.

ial certification that the product meets the requirements

80 r r d r N.8.2.36- d 75 r r N.60

r permined. all be lower than 7.0. e Coarse Sand with the follow

1. C C T, 99 r (0.25-mm) sieve. 2. Provide lime in form of dolomitic limestone.

acturer's literature and mate

Sieve 3/8 inch (9.5 mm) No 4 (4.75 mm) No 8 (2.36 mm) No 30 (.40 mm) No 50 (.30 mm)

ASTMIC 602. r r

- 8 533.32(a) level requirements. de a one gallon sample with manufacturers illerature and material certification that the product meets the requirements.
- Howea is one galan sample with manufactures terranue and material centracation that DARES SAND Clean, wahred, sand, free of toxic materials 1. Coarse concertes sand, STM CA3 fine Aggregate, with a Fines Madulus Index of 28 at 2. Coarse's Sands that be clean, sharp, natural Coarse Sands free of limestone, shale and and be permitted.

	 Installer Gualincations: the installer shall be a trim having at least's years of successor expensions of a scope similar to that required for the work. 	8. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controllin the germination or growth of weeds within planted areas at
	1. The bidders list for work under this section shall be approved by the Owner's Representative.	The sol level directly below the mulch byer. C Prot-Emergent Herbicide Kelective and Manselective? Effective for controllin weed awath that has already aeminated
, equipment, facilities, transportation and services necessary for, and	Installer Field Supervision: When any planting work is in progress, installer shall maintain, on site, a full-time supervisor who can communicate in English with the Owner's Representative.	стоячны дептивление равсти или но велини, слести и соптов нее дионтны на оказу дептивно.
eng, derrery, ded establish of the deal grasse, compare of a soler of	3. Pesticide Applicator: State licensed, commercial.	2.8 EROSION CONTROL MATERIALS
e following:	E. 1.14 PLANT WARRANTY:	A. broson Control Blankets: Bodegradable wood excessor, straw, or coconut-tiber mat enclosed in a photodegradable prastic mesh. Include manufacturer's recommended steel wire staples, 6 inches long.
ana grasses.	 The Contractor agrees to replace defective work and defective plants. The Owner's Representative shall make the final determination if plants meet these specifications or that plants are defective. 	B. BRosion Control Fiber Mesh: Biodegradable burlap or spun cour mesh, a minimum of 0.92 lb/sy, with 50 to 65 percent open area. Include
	Plants warranty shall begin on the date of Substantial Completion Acceptance and continue for the following periods, classed by plant	manutacturers recommended steel wire stapses, & inches long.
ing of the warranty period.	type: o Sort- I Ventisi	PART3 EXECUTION
	b. Seed - I Year(s).	3.1 SITE EXAMINATION
	 When the work is accepted in parts, the warranty periods shall extend from each of the partial Substantial Completion Acceptances to the terminal date of the last warranty period. This, all warranty exclude for each class of pixel warranty, that terminate at one from 	A. Examine the surface grades and soil conditions to confirm that the requirements of the Specification Section - Planting Soil - and the soil and drainage modifications indicated on the hardscape grading and drainage plans have been completed. Notify the Owner's
d.	 All soci or seed shall be warrantied to meet all the requirements for soci and seed quality of installation in this specification. Defective 	Representative in writing of any unsatisfactory conditions.
anstruction drawings. The intent of these documents is to include all labor,	sod or seed shall be defined as sod or seed not meeting these requirements. The Owner's representative shall make the final determination that sod or seed is detective.	3.2 DELIVERY, STORAGE AND HANDLING
e work. The documents are to be considered as one. Whatever is called	4. Sod or seed determined to be defective shall be removed immediately upon notification by the Owner's Representative and replaced	 Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer,
	without cost to the Owner, as soon as weather conditions permit and within the specified planting period.	and indication of conformance with state and federal laws, as applicable.
al and sumiamentary conditions and Division I specifications apply to	5. Any work required by this specification of the Owners representative during the progress of the work, to connect so a seed detects shall not be considered as grounds to void any conditions of the warranty. In the event that the Contractor decides that such remediation work may comparise the future health of the sold or seed, the sold or seed in question shall be rejected and replaced	 Deliver fertilizer in secled waterproof bags, printed with manufacturer's name, weight, and guaranteed analysis. Sad
	with sod or seed that do not contain defects that require remediation or correction.	 Harvest, deliver, store, and handle sod according to requirements in "Specifications for Turtgross Sod Materials" and "Specifications for Turtgross Sort Turnsningtion and Installation" in TPIs Cubitation Specific atoms to Turtgross Sort/Time for alarting within
	 Ine contractor is exempt from repracing sod or seed, after substantial Completion Acceptance and during the warranty period, that is removed by others, last or damaged due to occupancy of project, last or damaged by a third party, vandalism, or any natural 	24 hours of harvesing. Protect sod from breakage and drying.
	disafter. 7. Reviewents theil closely match originant speciment of the same marker. Reviewents theil he whilet to all requirements stated.	C. Bulk Materials
	in this specification. Make all necessary repairs due to sod or seed replacements. Such repairs shall be done at no extra cost to the	Loo not dump or store built materials near structures, utilities, walkways and pavements, or on existing built areas or prants. Requires exorption control measurem to rescared exorption or direle compared to built materials. Exorptions of and
ganizations and documents listed in this paragraph form a part of the the event that the requirements of the following referenced standards	Owner. 9 The warmshuld all melanament and as read shall extend for an additional one war paried from the date of their assertance after	aribone dust reaching adjacent properties, water conveyance systems, or walkways.
irements of this specification shall prevail. In the event that the specifications conflict with each other the more stringent requirement	replacement. In the event that replacement sod or seed is not acceptable during or at the end of the sold extended warranty period, the Querce Representative may elect one mean sod or seed is not acceptable during or at the end of the sold extended warranty period,	Accompany each delivery of bulk fertilizers, lime, and soil amendments with appropriate certificates.
	protected under a warranty period.	3.3 PLANING SEASON A Breefer center for certified the all reactors accent on frame real
	F. End of Warranty Final Acceptance - Acceptance of sad or seed at the end of the warranty period.	B. Planting season for seed is preferred to be late summer or early fail.
proceeding with any work. The Contractor shall constrain check and wells	 At the end of the warranty period, the Owner's Representative shall observe all warranted work, upon written request of the Contractor. The request shall be received at least ten calendar days before the anticipated date for final observation. 	C. Planting shall only be performed when weather and soil condiditions are suitable for planting the material specified in accordance with
Dwner's Representative of any discrepancies between the information on or work to fail and the presentative of any discrepancies between the information on or work to add the presentation operation of the data of the the operation of the second	2. End of Warranty Final Acceptance will be given only when all the requirements of the work under this specification and in specification	locally accepted practice.
ny wate in sala areas unit given approval to do so by the owner's	sections Planting Soil, Planting and Infgation have been met.	A No planting shall take place during extremely hot, dry, windy or freezing weather.
een the plan drawings and the plant call outs, list or plant schedule, the	1.15 SEEC INVEATO OBSETVATION OF THE A GRASSES A. The Owner's Representative may review all soci or seed subject to approval of size, health, quality, character, etc. Review or approval of	3.5 COORDINATION WITH PROJECT WORK
control and provide	any sod or seed during the process of selection, delivery, installation and establishment period shall not prevent that sod or seed from inter relaction in the event that the and or seed quality changes or previously existing delects become appropriet that were not observed.	A. The Contractor shall coordinate with all other work that may impact the completion of the work.
s section of the work unless previously excluded under provision of the	B. The Contractor shall bear all cost related to plant corrections.	B. Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades.
n all laws and ordinances bearing on the operation or conduct of the conflict exists between permit requirements and the work outlined in the	C. All turf or grass that is rejected shall be immediately removed from the site and acceptable replacement turf or grass provided at no cost	3.6 WATERING
wher's Representative in writing including a description of any necessary taes in the work.	to the Owner.	At the contractor shall be only reportible to endue include one water is provided to all solid and seeiing inclume point or includion until the date of Substantial Completion Acceptance. The Contractor shall adjust the automatic inigation system, if available, and apply
dance with which work is to be performed or tested, the edition or revision	legible and clearly depict the plant specimen. Each submitted image shall contain a height reference, such as a measuring stick. The	adamonal or adjust for less water using holes as required.
contract shall apply, unless otherwise expressly set forth.	approval or plans by the owners representative via protograph does not precider the owners representatives right to repair individual while on site.	 A. Examine areas to be planted for compliance with requiements and other conditions affecting installation and performance of the Work.
ive shall determine which shall govern.	1.16 PLANT SUBSTITUTIONS FOR PLANTS NOT AVAILABLE	1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slury, concrete layers or chunks, cement,
	 Submit all requests for substitutions of soci or seed species, or size to the Owner's Representative, for approval, prior to purchasing the proposed substitution. Request for substitution shall be accompanied with a list of nurseries contacted in the search for the required sod 	praster, oils gasaine, diesei tuel, pant thinner, turpentine, tar rooning compound, or acia has been deposited in soi within a planting area.
perty, and the public, and shall be responsible for any damages or injury	or seed and a recard of other attempts to locate the required material.	2. Suspend planting operation during periods of excessive sail moisure until the moisture content reaches acceptable levels to attain the
	1.17 Sile CONDITIONS A. If it the respectivity of the Contractor to be owner of all referes and rule referes conditions, and to write the Owner's Respectivity in in	required results. 3. Uniformity molitan avvassively, dry soil that is not waterable or which is dusty.
d the contract sum should be adjusted accordingly. All such orders and on must be more and anonywerd in writing before execution the work	withing, of any circumstances that would negatively impact the health of sod or seed. Do not proceed with work until unsatisfactory	 Proceed with installation only after unsatisfactory conditions have been corrected.
	 Should subsidiate dminone or soll conditions be encountered which would be detrimented to repart or survival of and or seed 	C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as
or information (RFI) shall conform to the contract general condition	Instantial substrates data spin to be contactor be in contactor and when when we are became or growth as we are a substrated with a substrate of a substrate of substrates and substrates are and and a substrates of a substrates and substrates are and and and are are and and and are are are are and and are are are are are are are and are	directed by Achitect and replace with new planting sol. 38 PREPARATION
	seed material under the warranty clause of the specifications.	A. Protect structures; utilifies; sidewalks; pavements; and other facilities, trees, shurbs, and plantings from damage caused by planting
t fails to conform to the requirements of the contract and shall remedy	B. It is the responsibility of the Contractor to be familiar with the local growing conditions, and if any specified sod or seed will be in conflict with these conditions. Report any advatial conflicts is willing to the Owner's Representative.	operations.
tice from the Owner's Representative, at the soonest as possible time that nands.	C. This specification requires that all Planting Soil and irrigation (if applicable) work be completed and accepted prior to the installation of	 Protect adjacent and adjaining areas. Protect awrise stokes set by others until directed to remove them
	any sod or seed.	B. Install erasion-control measures to prevent erasion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to
Arbaricultural Terms" or as modified below.	 Planting operations shall not begin unit such time that the impation system is completely operational for the area(s) to be sodded or seeded, and the impation system for that area has been preliminarily observed and approved by the Owner's Representative. 	adjacent properties and walkways.
the threshold for root limiting, and lutther defined in section 32.91 UU.	D. Actual sodding or seeding shall be performed during those periods when weather and soil conditions are suitable in accordance with locally accorded bedieveloperations.	 TURF AREA PREPARATION General: Prename planting area for soil planement and mix planting soil occurring to Section 32.91 (0.P) ANTING SOIL
	 Do not install sort or seen into sofurnited or traten solis. Do not install sort or seenth union inclement weather, such as min or snow or 	 R. Gentino. R. Gentino.
yin, repelling, or mitigating a pest. Pesticides include insecticides, a include substances or mixtures intended for use as a plant regulator.	during extremely hot, cold or windy conditions.	 Newly Graded Subgrades: Contractor shall loosen subgrade to a minimum depth of 6 inches. Remove stones larger than 1 inch in any
	 PLANTING AROUND UTUTIES Contractor shall control the chill record, and support downloar to become families with the existing underground conditions 	dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property. a. Contractor shall annix fertilizer directly to subrane hefere lossening.
that cause damage to plants, animals, or people. These include insects, and mice], unwanted plants (weeds), fungi, bacteria, and viruses.	before digging.	b. Contractor shall thoroughly blend planting soil off-site before spreading or spread topsoil, apply soil amendments and fertilizer on
existing at the site, or made from components that exist at the site, or are	 Determine location of underground utilities and perform work in a manner that will avoid possible damage. Hand excavate, as required. Meletaia and a thiose cells of the others will perfer according to the location areas on a manual. 	surface, and thoroughly blend planting soil. C. Contractor shall several planting soil to a depth of 4 inches but not less than required to meet finish amount softer light rolling and
ring sol. Receiver to the end of the closely and work in this section meet all	C. Notification of Surshine 811, 1-800-432-4770, is required for all planting greats. The Contractor is responsible for knowing the location and	natural settlement. Do not spread if planting soil or subgrade is frazen, muddy, or excessively wet.
is and workmanship warranty for Planting, Planting Soil, and Irrigation work	avoiding utilities that are not covered by the Local Utility Locator Service.	 Reduce elevation of planting soil to allow for soil thickness of sod. Hechanaed Subarades: If hef is to be elevated in amountables of sublimited by accounting, another, or ruthors call this lange
after installation and as defined in this specification.	PART 2 PRODUCTS	operations, preapare surface soil as follows:
ation, which the Contractor is to provide maintenance.	2.1 SEED	a. Contractor shall remove existing grass, vegetation, and turf. Do not mix into surface soil.
represent their interest in the review and approval of the work and to	A. Grass Seed Standards: Fresh, clean, dry, new-cop seed complying with AOSA's "Rules for Testing Seeds" for purity and germination	a. Contractor sharlocken sorticle sortio a deptil of all reliate 6 inches, Apply sort amendments and remains a decorang to planning sort mix proportions and mix thoroughly into top 4 inshes of soil. Till the soil to a homogeneous mixture of fine texture.
er's Representative may appoint other persons to review and approve	toeronos. 8. Seed Species:	 Contractor shall apply fertilizer directly to surface soil before loosening. Contractor shall apply fertilizer directly to surface soil before loosening.
after completing excavation, or top surface of a fill or backfil, before	1. Quality: State-certified seed of grass species as listed below for solar exposure.	a. Contractor shall remove stories larger than 1 inch in any amerision and sticks, roots, trash, and other extraheous matter. e. Contractor shall leadly dispose of waste material, including grass, vegetation, and turf, off Owner's property.
e Plantina. Plantina Sail, and Infaction installation where the Owner's	2. Quality: Seed of grass species as listed below for solar exposure, with not less that 85 percent germination, not less than 95 percent	3. Finish Grading: Contractor shall grade planting areas to a smooth, uniform surface plane with loose, uniformly line texture. Grade to
te and the Warranty period has begun. This date may be different than	pure seed, and not more than 0.5 % weed seed.	within plus or minus 1/2 inch of finish elevation. Rall and rake, remove ridges, and fill depressions to meet finish grades. Limit finish grading to areas that can be planted in the immediate future.
her lawn type seeds, lawn type sod or meadow seed plants that has the	2.2 TURFGRASS SOD	4. Moisten prepared area before planting it soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy
	A. Number 1 Quality / Premium, including limitation on thathc, weeds, diseases, nematodes, and insects, complying with	soli. 5. Refere Plantino. Contractor shall obtain Design Professional and/or Project Manager accentance of finish anadian reache planting.
nd to a sharifficia	color, and texture that is strongly rooted and capable of vigorous growth and development when planted.	areas if eroded ar otherwise disturbed after finish grading.
fings.	B. Turf Grass Species:	3.10 SEEDING
describing all products required by this section to the Owner's	 Quality: Seed of grass species as listed below for solar exposure, with not less that 85 percent germination, not less than 95 percent pure seed, and not more than 0.5 % weed seed. 	 Sow seed with spreader of seeding machine. Do not produces an archip seed when which veroally exceeds 5 mpm. Evenly distribute seed by sowing equal purphilities in two directions of initial purphilities to each other.
we me insraection of plants. Ch grass-seed monostand or mixture, station the hotonical and common	2. St. Augustine Grass (Stenotaphrum secundatum)	 Do not use wet seed or seed that is moldy or otherwise damaged.
percentage of purity, germination, and weed seed, to the Owner's	C. Sod shall be nursery grown on cultivated mineral agricultural sails. Sod shall have been mowed regularly and carefully, and otherwise maintained from alenting to barriet.	3. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
is before the installation of plants.	D. Thickness of Cut: Sod shall be machine cut at a uniform soil thickness per the supplier's standard.	8. Sow seed at a total rate of Sb/1000 sf
plication instructions specific to project.	E. Section Size: Individual pieces of sod shall be cut to the supplier's standard width and length. Broken stips and torn and uneven ends will	C. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with line spary.
pprovat.	nor be acceptable. F. Strendt of Sed Stiny: a strender's section of sed is feet in length, shall be strend ency which to support it was which and which it ring and	 consect awarded device were sequenced to a stability of the second control brankets and 126 with erasion control toer mesh installed and stability of a manufacturer's written instructions.
www.oy.ownee.comanisencance or ion along a caendar year. Submit	shape during installation.	E. Protect seeded areas with slopes not exceeding 1% by spreading straw mulch. Spread uniformly at a minimu rate of 2 tans/acre to form a continuous highlight 1.1/2 incluses in longer thickness over seeded areas. Spread thy how in blower, or other in tables and international strategies and the second strategies and the second strategies are seeded areas. Spread the how in tables are international strategies are international strategies and the second strategies are international strategies and the second strategies are international strategies are international strategies and the second strategies are international strategies and the second strategies are international strategies are international strategies and the second strategies are international strategies and the second strategies are international strategies and the second strategies are international strategies are internationare internationare internationare strategie
	G. Mokture Content: Sod shall not be harvested or transplanted when moliter content (excessively dry or wet) may adversely affects its survival.	 Anchor straw mulch by alimping into soil with suitable mechanical equipment.
mey may remove samples of materials for conformity to specifications. and replaced at the Contractor's expense. The cost of testing materials	H. Time Limitations: Sod shall be harvested, delivered, and transplanted within 24 to 30 hours from time of harvest unless a suitable	2. Bond straw mulch by spraying with asphalt emution at a rate of 10 gal/1000 st. Take precautions to prevent damage or staining of
the work to the work may be observed at the following in the second	preservation method is approved prior to delivery or as weather conditions warrant.	F. Protect seeded areas from hot, dry weather or drying winds by applying compatition within 24 hours offer convolution seering.
sed sufficient time to schedule visit to the site. Failure of the Owner's	2.3 FERTILIZERS	operations. Sook areas, scatter mulch uniformly to a thickness of 3/16 inch, and roll surface smooth.
comparison worth meaning all the requirements of this specification.		ALL NEEDING

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast and slow release nitrogen, 50 percent derived from natural organic sources of urea formaldeyed, phosphorous, and potasium in the followin composition:

1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory

Slow-Release Feithar: Canudar or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phophonus, and potassium in the tollowing compositor:

2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing labo

A. Planting Soil as used in this specification means the soil at the planting site, or imported as modified and defined in specification Section Planting Soil. If there is no Planting Soil specification, the term Planting Soil shall mean the soil at the planting site within the planting hole.

Mulch shall be uniform in size, shape, feature and free from weeds, mass, sticks, and other debris and deleterious materials. Mi is specified in section 32 93 00 Planting, Mulch for Seeding shall be arganic and may cansist at the following:

B. Compast Mulch: Well-compasted, stable, and weed-free organic matter 50 to 60 percent of weight; pH range of 5.5 to 8; mail content 35 to 55 percent by weight; 100 percent passing through 1 inch sieve: stubile salt content of 2 to 5 decisiemens/m; no 0.5 percent their contaminants and these of studentones toxic to planting or animals.

A. Straw or Hay Mulch: Provide air-dry, clean, mildew and seed free, salt hay or threshed straw of wheat, rye, oats, or barley

hault Emulsion: ASTM D 977, Grade SS-1; non taxic and free of plant growth or germination inhibitors.

2.5 PLANTING SOIL

and the beginning of the warranty period and plant maintenance period if plant maintenance is included).

SECTION 32 92 00 - TURF & GRASSES

- The scope of work includes all labor, materials, appliances, tools, incidential to performing all operations in connection with furnish the drawings and as specified herein.
 The scope of work in this section includes, but is not limited to, fin 1. Locate, purchase, deliver and seed and sod all specified turf
- 2. Water turf and grasses.

3. Mulch, fertilize, stake, and mow all specified turf and moved 4. Maintenance of all specified turf and arasses until the beain

- Turf and Grass warranty.
 Clean up and disposal of all excess and surplus mo
- 7. Maintenance of all specified plants during the warranty peri

PART I GENERAL

1.2 CONTRACT DOCUMENTS

CONINCLI DOCUMENTS
A. Shall consist of specifications and general conditions and the materials, and services necessary for the proper execution of for by any parts shall be as binding as if called for in all parts.

- 1.3 RELATED DOCUMENTS AND REFERENCES

 Drawings and general provisions of contra work of this section 2. Related Specification Section

- a. Section 32 91 00 Planting Soil b. Section - 32 93 00 Planting
- c. Section Intraction

c. Section impation 8. References: The following specifications and standards of the o specification to the extent required by the references thereto. I and specification conflict with this specification section the reg requirements of any of the following referenced standards and shall preval or as determined by the Onemas Representative.

1. American Society for Testing and Materials (ASTM)

1.4 VERIFICATION

At scated amensions on the drawings are approximate. Before all dimensions and quantities, and shall immediately inform the the drawings and the actual conditions, retraining from doing r Representative.

B. In the case of a discrepancy in the sod or seed quantities between square footage of the seed or sod actually drawn on the plan of the seed or sod actually drawn on the seed or sod actually drawn on the plan of the seed or sod actually drawn on the plan of the seed or sod actually drawn on the seed or sod actually drawn on the seed or sod actually drawn on the seed or sod actually

- Isopice tootage of the lased or indicativally determine the plane of 19 FBMME 300 effectual ADMS 11 FBMME 300 effectual ADMS 11 FBMME 300 effectual and the contract or planet disordinary on the contract or planet disordinary. In a contract or planet disordinary the contract or planet disordinary the contract or planet disordinary to the contract or planet disordinary. In a contract the relative disordinary to the contract or planet disordinary to the contract of the contract or planet disordinary to the contract of the contract or planet disordinary to the contract of the contract or planet disordinary to the contract of the contract of planet disordinary to the contract of the contract of planet disordinary to the contract of the contract of the contract on the discher beaution of the disordinary of the disordinary to the contract of the disordinary of

- C. In case of conflict among any referenced standards or codes of the more restrictive standard shall apply or Owner's Representa PROTECTION OF WORK, PROPERTY AND PERSON
- A. The Contractor shall adequately protect the work, adjacent pr due to his/her actions.
- 1.7 CHANGES IN THE WORK

A. The Owner's Representative may order changes in the work, and adjustments plus claims by the Contractor for extra compensatio involved. All changes in the work, notifications and contractor's request for requirements.

- 1.8 CORRECTION OF WORK
- A. The Contractor, at their own cost, shall re-execute any work the defects due to faulty materials or workmanship upon written no can be contributed with other work and second weather der
- 9 DEENITIONS
- All terms in this specification shall be as defined in the "Glossary of

A. Compacted soit soil where the density of the soil is greater that Finish Grade: surface or elevation of Planting Soil after final grad 32 91 00.

C. Pesticide: A substance or misture intended for preventing, destoy herbicides, fungicides, rodenticides, and mollusicides. They also defoliant, or desiccant.

D. Pests: Living arganisms that occur where they are not desired or mites, grubs, molusis (snalls and slugs), rodents (gophers, moles,

- E. Planting Soil: Topsoil, or Planting Soil Mixes which are imported or imported to the site; and further defined in Section 32 91 00 Plan
- F. End of Warranty Final Acceptance: The date when the Owner's the requirements of the warranty. It is intended that the material run concurrent with each other.
 G. Maintenance: Actions that preserve the health of seed and sod

H. Maintenance period: The time period, as defined in this specific Owner's Representative: The person appointed by the Owner to serve as the contracting authority with the Contractor. The Own any aspects of the work.

Subgrade: Subgrade: surface or elevation of subsoil remaining placing Planting Soil.

K. Substantial Completion Acceptance: The date at the end of this Representative accepts that all work in these sections is complet the date of substantial completion for the other sections of the p L. Tufgrass. A configuous community of grass established from eith ability to withstand moving.

GDIery

A. See contract general conditions for policy and procedure relate B. Submit all product submittals 8 weeks prior to installation of plan

B. Submit all product submittels & weeks plor to installation of plant. C. Phoduct data: Submit manufactures product data and Biestnere Representative for opported. Hovide submitted eight weeks bate D. Certificate of Grass Seed: Submit seed vendor certificate for a comme, percentage by weight aced, pacelas and validy, and a Representative for opported. Include the identification of source, production and date of pacelaging. Previola submitted legith weeks production and date of pacelaging. Previola submitted legith weight production and date of pacelaging. Previola submitted legith weight production and table of pacelaging. Previola submitted legith weight production and table of pacelaging. Previola submitted legith weight production and table of pacelaging. Previola submitted legith weight previolation and table of pacelaging. Previola submitted legith weight previolation and table of pacelaging. Previolat submitted legith weight previolation and table of pacelaging. Previolat submitted legith weight previolation and table of pacelaging. Previolat submitted legith weight previolation and table of pacelaging. Previolat submitted legith weight previolation and table of pacelaging. Previolation and table pacelaging.

E. Pesticides and Herbicides: Product label and manufacturer's a

- F. Close out submittals: Submit to the Owner's Representative for
- Maintenance Data: Recommended procedures to be estat before expiration of required maintenance periods.
- 11 OBSERVATION OF THE WORK
- A. The Owner's Representative may observe the work at any time Rejected materials shall be immediately removed from the site not meeting specifications shall be paid by the Contractor.
- B. The Owner's Representative shall be informed of the progress of the construction process. The Owner's Representative shall be afford Representative shall not relieve the Cr.
- ractor from meeting all the requirements of this specification. 1. SITE CONDITIONS PRIOR TO THE START OF PLANTING: review the soil and drainage conditions.
- and Committee Transmission of a chiral or the chiral or the chiral of the
- 4. COMPLETION OF THE PLANTING: Review the completed planting.

12. PRE-CONSTRUCTION CONFERENCE

- A. Schedule a pre-construction meeting with the Owner's Representative at least seven (7) days before beginning work to review any question: the Contractor may have regarding the work, administrative procedures during construction and project work schedule. 1.13 QUALITY ASSURANCE A. Substantial Completion Acceptance - Acceptance of the work prior to the start of the warranty period:
- Substantia Competition Acceptance Acceptance at the work prior to the bard of the workstrep period: 1. Once the Controller complexition in indication of all three in the substantianee, the owner the generation will observe all works for Substantial Competition Acceptance upon wittlen request of the Contractor. The ways at generation will observe all works for Substantial Competition Acceptance upon wittlen request of the Contractor. The ways at generation will be received to that the calendardory blocks the anticipation all double of the accentration will be the generation of the contract to period the acceptance to period the acceptance of the contract on the contract of the contract period. 2. Auditardia Competition Acceptance by the Chevins' Representative shall be for general contomance to pecified size, character and gainly or and in their the Contract of the contract of the contract baccument, including contract pecies.
- 3. Any plants that are deemed defective as defined under the provisions below shall not be accepted. The Owner's Representative will provide the Contractor with written acknowledgment of the date of Substantial Completion Acceptance
 2.7 PESICIDES

. D. Use specified materials to reestablish turt that does not comply with requirements and continue maintenance until turt is satisfactory

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SPECIFICATIONS

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PROJ. #:

RAWN BY:

CHECKED BY: SCALE:

DATE:

PHASE

CLUB F

RACQUET

ISSUE DATES

DESCRIPTION

3.14 PESTICIDE APPLICATION

work. Notify Owner's Representative before each application is performed

A. Turf installations shall meet the following criteria as determined by the Owner's Res

3.13 SATISFACTORY TURF

3.24 SUBSTANTIAL COMPLETION ACCEPTANCE

END OF SECTION 32 92 00

PART 1 GENERAL 1.1 SUMMARY

5. Plant warranty.

1. Drawings and gener work of this section

2. Related Specification Sections

A. Apply pesificides and other chemical products and biological control agents according to requirements of authorities having justiciden and manufacturer's written reacommendations. Coadridee applications with Owner's operations and others in provinity to the Work. Natify Owner before each application is performed. Post-Imergent Herbicides (Selective and Non-Selective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's within recommendations. 232 (CEANLP)

Immediately clean up any spilled or tracked soil, fuel, all, trash or debris deposited by the Contractor from all surfaces within the project or on public right of ways and neighboring property.

B. Once installation is complete, wall all call from povements and other structures. Make all repairs to grades, ruts, and damage by the plant installer to the work or other work of the site.

partir instalant to the work of one work of the site. C. Remove and dispose of of the excess planning soil, subsoil, mulch, sod, packaging, and other material brought to the site by the Contractor. 3.22 PROTECTION DURING CONSTRUCTION

A. The Contractor shall erect temporary fencing or barricades or warning signs as required to protect newly planted areas from traffic. Maintain protection during installation until Substantial Completion Acceptance. Treat, repair or replace damaged work immediately

Norma posterion aurgi matatoria una scatanta compania Acceptora. Insert aport e lapoca anomação exer interactar E. Domoça deva poste Contractor, ora y de insu constructor ta subiça a instala de la poste, a filles, tipring, algostar, otrar infraeda evas as filosadas to encore, inclusivação dos tunas de banchas dos postes de la poste, al filles, tipring, algostar, other tinhad evas as tendemas de la poste tendemas de la poste de la

A. Upon witten notice from the Contractor, the Owners Representative shall review the work and make a determination if the work is substantially complete.

In anny sait, and ingition in statution leadons a company. Chi ne have threadons privated leage of and a when indifficult of statistical completion from the Owner Representative. The date of statistical completion may be allivent throm the date of statistical completion for the other actions of the prepare. 3.25 Multitude: California California California California California California California California California A Refer to Course Maniferrounds Specifications 3.26 to Or Hawakeemistical California California California California California California California California 3.26 to Or Hawakeemistical California 3.26 to Or Hawakeemistical California Ca

Re date of substantial completion of the planting the date when the Owner's Representative accepts that all work in Planting
Planting Sol, and trigation installation sections is complete.

a rad of memory of memory and accurate presentation and a memory of the presentative shall observe the work and establish that all provisions of the contract are complete and the work is statisticatory. Here existing a statisticatory are defined and an existing and an existing and a statisticatory.

If the work is deemed unsatisfactory, the maintenance period will continue at no additional expense to the Owner until the work has been completed, observed, and approved by the Owner's Representative.

werr companies, coursevel, and approved by the Owner's Representative.
8. FALURE TO PASS DSSERVATION: If the work fails to pass final observation, any subsequent observations must be rescheduled as per
above. The cost to the Owner for additional observations will be charged to the Contractor of the prevailing houry rate of the Owner

SECTION 32 93 00 - PLANTING

A. The scope of work includes all labor, materials, appliances, tools, equipment, facilities, transportation and services necessary for, and incidental to performing all operations in connection with lumitiling, delivery, and installation of plants, (also known as "landscoping") complete as shown on the diverging and as specified herein.

4. Clear on ord disposed of all leases and supplimitation.
X. Notherence of all peopling plants during the warrantly perform.
CONING: CONTRACT CONTRACT: CONTRACT CONT

C. sector-ingutori B. Reterece: The low-large specifications and standards of the aganitations and documents listed in this paragraph form a part of the specification to the advert required by the references therein. In the event that the requirement of the following reference ad brandards and generatication and the write regional sectors have exercised and the requirement of the following reference ad brandards and generatication and participations and/on the requirement to this generation and participations and part

1. ANSI A 300 - Standard Practices for Tree. Shrub and other Woody Plant Maintenance, most current edition and part Peologic addressed standards the Nursey Stock, current relation (Figure addressed), into addressed with relation to point.
 Peologic addressed standards the Nursey Stock, current relation (Figure addressed).
 Interpretation of piont nomes and descriptions shall reference the following documents. Where the names or piont description disagree between the several document, the most current document relation (Figure addressed).

a. USDA - The Germplaam Resources information Network (<u>GRE)</u>) <u>http://www.ast-arin.acv/near/searcharin.html</u> b. Manual of Woody Landicape Plantix Michael Din; Stees Publishing, Chempagin, Linok: Mod Current Edition. c. The Netw Same Western Graden Book, Ownore House, mod current edition.

6. Pr r r d Sr r Pr AG d F rT Or I d r rr d published by Urban Tiree Foundation, Visalia, California.

publicate by taken the Foundation, Viola, Callonia, O. Gasary of Modulania lime, Interfactoria sciel of Modulanue, Champaign I, most current edition. EBERCADO EA calcad deministration on the disaving area approximate, Balos proceeding with any work, the Contractor and carefully check and the disarry on of the actual conditions, establing from dating any work in said seasu until green approval to do to by the Downer's Regresentation.

8. In the case of a discipancy in the plot a particle behavior the plant abareging and the plant case of a discipance of the plant abareging and the plant case of the plant case of the plant abareging and the plant case of the plant case of the plant abareging and the plant case of the plant abareging and the plant case of the plant case of the plant tase of th

C. In case of conflict among any referenced standards or codes or between any referenced standards and codes and the specifications, the more restrictive standard shall apply or Owner's Representative shall determine which shall govern.

nerever references are made to standards or codes in accordance with which work is to be performed or tested, the edition or revisio the standards and codes current on the effective date of this contract shall apply, unless otherwise expressly set forth.

B. The scope of work in this section includes, but is not limited to, the following:

4. Maintenance of all specified plants until the beginning of the warranty period.

I. Locate, putchase, deliver and install all specified plants.
 Water all specified plants.
 Mulch, fertilize, stake, and prune all specified plants.

Clean up and disposal of all excess and subjus material

A. ANSI Z60.1 American Standard for Nursery Stock. most current edition.

LATED DOCUMENTS AND REFERENCES Related Documents:

a. Section - 32 91 00 Planting Soil b. Section - 32 92 00 Turt and Grasses c. Section - Irrigation

Notification shall be at least 7 dows prior to the date the contractor is requestion the review.

A. During the project work period and prior to Substantial Completion Acceptance, the Contractor shall maintain all plants. A contrg mp page warp page output to standard compation Acceptance (in a contract or burning and page). The standard is paged in the standard is p

Satisfactory Seeded Turf: At end of maintenacne period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with ocverage exceeding 90 percent over any 10 st and bare spots not exceeding 5 by 5 inches.

C. Satisfactory Sodded Turt: At end of maintenance period, a healthy, well-rooted, even-colored, viable turt has been established, free of weeds, open joints, bare areas, and surface irregularities.

- ing Soil and the soil A. During introllation, keep the site free of traits, povements reasonably clean and work area in an orderly condition at the day. Remove trash and debris in containers from the site no less than ance a week.

A. General: Pesticide, registered and approved by the EPA, acceptable to authofiles having jurisdiction, and of type rec manufacturer for each specific problem and as required for project condictins and application. Do not use restricted a authoficide in writing by authorized in writing two undivides having insufactives.

- nd "Specifications for
- oter support, and

- rs or chunks, cement ail within a planting
- sed by planting
- off or airborne dust to
- ger than 1 inch in an
- ments and fertilize
- after light rolling and

Successful A. Contractor shall key load within 34 hours of harvesting. Do not key sold if domant or if groun is treaten or muddy, 8. Loyrado to term a sold mass with gathyr theorigenic, that ends and sales of sold on or thethor or events. Reager sold stips or pace forthall print in object crosses, Avid domanges to subgrade core during installation. They may and sold typic the subgrades, eliminate air pockets, and form a smooth muddae. Weik stifted sold or the sand into minor caccis between pieces of so

E. Contractor shall saturate sod with fine water spray within two hours of planting. During first week after planting, water daily or more frequently as necessary to maintain mais soil to a minimum death of 1-1/2 inches below sod.

Utility Auditabancie A. Contractor train and estabilith and/my, viable Mr. B. Ku, regards, and regarding, mowing. Terming, replanting, and performing other operations are regarded to establish healthry, viable Mr. B. Ku, regards, and regards those or encoded dreas and remarked to produce a utilitarity income. The Howide material constraintation me ream area throus used in the adjust initialization. B. Contractor that more Mr as some a top growth is tal encough to act. Respect moving to materiate height appropriate to repeate suffig more than 1.14 grant length: Remarker on more than 1.15 grant lengt and in the adjust appropriate to repeate and the suffig more than 1.14 grant length: Remarker on more than 1.15 grant lengt and in the adjust appropriate to repeate the suffig more than 1.14 grant length: Remarker on more than 1.15 grant lengther in their adjust appropriate to repeate with.

C. Contractor shall apply petiticides and other chemical products and biological control agents in accordance with authorities having isriticician and manufacturer's written recommendations. Coordinate applications with Owner's coerdinate and others in proximity to the product of the second s

tractor shall anchor sod on slopes exceeding 1:6 with wood pegs spaces as recommended by sod manufacturer but not less than on per sod strip to prevent slippage.

C Low sort across andle of sinces exceeding 13.

SECTION 32 93 00 - PLANTING (CONTINUED)

1.6 PROTECTION OF WORK, PROPERTY AND PERSO work, adjacent property, and the public, and shall be responsible for any damac

- A. The Contractor shall adequate injury due to his/her actions. CHANGES IN THE WORK
- The Owner's Representative may order changes in the work, and the contract sum should be adjusted accordingly. All such order and adjustments plus claims by the Contractor for estra compensation must be made and approved in writing before executing the work involved.
- All changes in the work, notifications and contractor's request for information (RFI) shall conform to the contract general condition are immediately in the work. RRECTION OF WORK
- A. The Contractor, at their pwn cost, shall re-execute any work that fails to conform to the requirements of the contract and shall remedy defacts due to faulty materials or workmaning upon written notice from the Owner's Representative, at the sconest as possible from that can be conditionated with other work raid seasonal weather demands.
- 2 Extension
 A formation
 A formati
- 2. End of Warranty Enal Acceptance: The date when the Owner's Representative accepts that the plants and work in this section meet at the requirements of the warranty, it is intended that the materials and workmaning warranty for Planting, Planting Sol, and impation warr un concurrent with each other.
- eld grown trees (B&B): Trees growing in field soil for at least 12 months prior to harvest. F. Healthy: Plants that are growing in a condition that expresses leaf size, crown density, color; and with annual growth rates typical of the species and cultiver's horticultural descliption, adjusted for the planting size soil, drainage and weather conditions.
- The generation of an estimate interactional barrier parts of the second parts of the second and the second of the

- C. Owner's Representative: The person appointed by the Owner to represent their interest in the review and approval of the work and be serve as the contracting authority with the Contractor. The Owner's Representative may appoint other persons to review and any owner's representative may appoint other persons to review and any owner's representative may appoint other persons to review and any owner's representative may appoint other persons to review and approximately appoint other persons to review and appoint other persons to review and appoint other persons to review appoint other persons to review appoint other persons to review and appoint other persons to review appoint other persons to rev Resonable and reaconably. When used in this specification relative to plant quality, it is interded to mean that the conditions will not offsct the acticultiment or long term tabality, health a growth of the plant. This specification recorporas that it is not produce by black the plant.
- When reaconable or executely is used in relation to other issues such or weight, diseased, meant, it shaft mean of levels low enough When reaconable controls and the state of the state of
- ball: The mass of roots including any soil or substrate that is shipped with the tree within the root ball backs 4. Root ball, the max or roots including any solid subsidier marks supplea with the new minimum mercer ball package 4. Root ball package. The material that sumounds the root ball during shipping. The root package may include the r the plant was grown, or new packaging placed around the root ball for shipping.
- D. Root color (root crown, not fare, truit fare, fare): The region at the base of the truit where the majority of the structural roots join the plant site, would of an energy ground level. Shrub: Woody plants with mature height approximately less than 15 feet.
- Q. Spade harvested and transplanted: Field grown trees that are mechanically harvested and growing site without being removed from the digging machine. edictely transplanted to the final R. Stem: The trunk of the tree
- Substantial Completion Acceptance: The date at the end of the Planting, Planting Sol, and Inigation installation where the Owner's Representative accepts that all work in these sections is complete and the Warrahy period has begun. This date may be different than the date of substantial completion for the other sections of the project.
- S rd ' A fragment of the second secon
- U. Structural root: One of the largest roots emerging from the root collar. V. Tree: Single and multi-stemmed plants with mature height approximately greater than 15 feet
- UBMITTALS . See contract general conditions for policy and procedure related to submittals . Submit all product submittals 8 weeks prior to installation of plantings
- C. Product data: Submit manufacturer product data and literature describing all products required by this section to the Owner's Representative for approval. Provide submittal eight weeks before the installation of plants. D. Sampler: Submit samples of each product and material where required by the specification to the Owner's Representative for approval. Label samples to indicate product, characteristics, and locations in the work. Samples will be reviewed for appearance only. Complicatione with all other requirements is the eacurise reportibility of the Contractor. Plant sources: Submit sources of all plants as required by Article - "Selection of Plants" to the Owner's Representative for approva
- F. Close out submittals: Submit to the Owner's Representative for approval.
- Plant maintenance data and requirements.
 SERVATION OF THE WORK
- backTVallation of the mode. The Owner's Representative may observe the work of any time. They may remove samples of materials for conformity to specifications. Rejected materials shall be primediately removed from the site and replaced at the Contractor's expense. The cost of backtory working in of meeting is address to address the Contractor. The Owner's Representative shall be informed of the progress of the work so the work may be observed of the following key times in the construction process. The Owner's Representative shall be afforded sufficient time to include visit to the site. Follie of the Owner's Representative to prevent the owner in the content of the Contract of the previous of this.
- Dwner's Representative to make field observations shall not relieve the Contractor from meeting pecification. SITE CONDITIONS PRIOR TO THE START OF PLANTING: review the sail and drainage conditions.
- and Contracted in the PLANT Local Development with an and analogy Exclusion.
 COMPETION OF THE PLANT LOCAL STANDARS Review of the plant byout.
 PLANT QUALITY: Review of plant quality of the time of delivery and prior to installation. Review thee quality prior to unloading where pacifies but in all cases plant of plant plant.
- 4. COMPLETION OF THE PLANTING: Review the completed planting. 12 PRE-CONSTRUCTION CONFERENCE
- A. Schedule a pre-construction meeting with the Owner's Representative at least seven (7) days before beginning work to review any questions the Contractor may have legarating the work, administrative procedures during construction and project work schedule.
- ion Acceptance Acceptance of the work prior to the start of the warranty pe Latestrid Comparison Acceptores - Acceptores of the work port to the start of the warrow particle. Once the cytocoloc comparison is an industria or a latest on the start of the acceptore and acceptore and work to does before the cytocoloc comparison in the comparison of the start of the acceptore and the industria does before the cytocoloc and acceptore and the comparison of the acceptore acceptore acceptore and acceptore acceptore and the comparison of the acceptore acceptore acceptore acceptore acceptore acceptore and control program acceptore and the Comparison of the acceptore accep
- 3. The Owner's Representative will provide the Contractor with written acknowledgment of the date of Substantial Completion Acceptance and the beginning of the warranty period and plant maintenance period (if plant maintenance is included).
- 2. Installer Qualifications: The installer shall be a firm having at least 5 years of successful experience of a scope similar to that required for the work, including the handling and planting of large specimen trees and pairs in utban areas. The same firm shall install planting soil (where applicable) and plant material.
- The bidders list for work under this section shall be approved by the Owner's Representative Installer Field Supervision: When any planting work is in progress, installer shall maintain, on site, a full-time supervisor who can communicate in English with the Owner's Representative.
- Installer's field supervisor shall have a minimum of five years experience as a field supervisor installing plants and trees of the quality and scale of the proposed project, and can communicate in English with the Owner's Representative.
- 4. The installar's crew shall have a minimum of 3 years experienced in the installation of Planting Sall, Plantings, and Inigation (when applicable) and Integrates and inigation (when submitted and initiation of a planting contractors made shares and initiation of the above Submitted and a submitte Submit references of past projects, employee training certi installer qualifications and applicable licensures.
- The Contractor agrees to replace defective work and defective plants. The Owner's Representative shall make the final determination it clants meet these specifications or that plants are defective. Plants warranty shall begin on the date of Substantial Completion Acceptance and continue for the following periods, classed by plant type:
- d. Trees 1 Year(s).
 e. Shrubs 1 Year(s).
 f. Ground cover an
- . When the work is accepted in parts, the warranty periods shall extend from each of the partial Substantial Completion Acceptances to the terminal date of the last warranty period. Thus, all warranty periods for each class of plant warranty, shall terminate and non-fitne.
- All plants that be warentied to meeting there requirements for plant quality at installation in this specification. Defactive plants what be defined as plants not meeting these requirements. The Owner's representative shall make the final determination that promis are carective. Plants determined to be defective shall be removed immediately upon notification by the Owner's Representative and replaced without cash to the Owner, as soon as weather conditions permit and within the specified planting period.
- Juny wate required by this specification or the Owner's Representative during the program of the work, to correct plant indexts including the model of the plant plant the plant plant indext of the plant plant plant. In the event that the constraints or plant plant indext plant plant indext of the plant plant plant indext plant plant.
- The Contraction is exempt from replacing plants, after substantial Completion Acceptance and during the waranty period. It are removed by others, lot or damaged due to accupancy of project, lot or damaged by a third party, vandalism, or any
- Replacements that closely match adjacent specimens of the same species. Replacements shall be subject to all requirements stated in this specification. Make all necessary repairs due to plant replacements. Such repairs shall be done at no extra cost to the Owner.
- placement plants that actend for an activitient are-special from the date of their acceptome after when that in explorement plants in an acceptome date along or at the end of the scied submede variance in the presentative may elect one male replacement items or credit for each item. These tertiary replacement for under a variantity period.
- Items are not protected under a wallening period. During and by the end of the waronthy period, remove all free wrap, files, and guying unless agreed to by the Owner's Representative to remain in place. All heas that do not have sufficient caliper to remain update, at those requiring addit ancharoge in windy locations, it hall be staked or remain staked. If required by the Owner's Representative.
- Calcification of the warmship elicity and we indexed of terminal is advantage in deplete up ying Crimit a request interve. Ind of Warmship Kind Acceptance of Acceptance of terminal is advantage in deplete up ying elicity. At the end of the warmship elicit, the Owner's Representative shall believe and warmshid work, upon written request of the Controctor. The request shall be received of least in a calcing of copy believe that is believe that of the observation. End of Warrenty Final Acceptance will be given only when all the requirements of the work under this specification and specification sectors Planing Soil and Higdlion have been met.
- - Statistica Multi Disarvanta IG-PHANS A Bio disprint planta in the heart first the planta disprint planta disprint planta disprint planta disprint planta disprint planta disprint planta disprint disprint

- The Owner's Representative may make invasive observation of the plant's root system in the area of the root color and the top of the root boll in general in order to determine that the plant meets the quality requirements for depth of the root color and presence of roots above the root color. Such observations will not harm the plant.
- Conectors are to be undertaken at the nurser pilor to shipping.
 Che Contracturate and two of instants to plant connectors.
 Che Contracturate and two of instants to plant connectors.
 The Contracturate and the pilor of instants and the pilor of instants and acceptable replacement plants provided at no cost to the Contracturate and the pilor of the Contracturate and the pilor of the Contracturate and the pilor of the Contracturate and the Contracturate and the pilor of the Contracturate and the pilor of the Contracturate and the Contracturate and the pilor of the pilor of the pilor of the pilor of the Contracturate and the pilor of the pilo
- E. Submit to the Owner's Representative, for approval, plant sources including the names and locations of nurseles proposed as sources of acceptable plants, and a list of the plants they will provide. The plant list shall include the botanical and a common name orgging ease at the time of selection. Observe of a lunsery materials in a determine that the materials meant the requirements of this.
- Automatic F. The Contractor shall require the grower or re-wholesale supplier to permit the Owner's Representative to observe the root system of plants of the nuturey or pb site prior to planting including random removal of soll or substrate around the base. Observation may be as frequent and as determine as needed to writh that the plants meet the requirements of the goad.
- el point of the ready of point period is pointing inclusing inclusion relations of point and a start of the point of the ready of the point of the ready of the point of the p
- Submit of equations for substitutions of plant species, or site to the Overs' Representative. For approved, plant to purchasing the proposed substitution in Repuest for substitution in the lace companying with the lat of nursense controlled in the special mathematic. Becaust and call for the request of the formation of the request rest of the request of the reques
- 8. It is the responsibility of the Contractor to be aware of all surface and sub-surface conditions, and to notify the Owner's Representative, in writing, of any circumstances that would negatively impact the health of plantings. Do not proceed with work until unsatisfactory conditions to leve been conceived.
- Brould schuldse draininge or joil conditions be encountered which waiks be detrimented to growth or survival of plant matter corrections. If the Controlotor tails to notify the Owner's Representative of such conditions, heylite shall remain responsible for plant matterial under the warrantly clause of the generalizations
- 8. It is the responsibility of the Contractor to be familiar with the local growing conditions, and it any specified plants will be in conflict.
 3. It is the responsibility of the Contractor to be familiar with the local growing conditions, and it any specified plants will be in conflict.
 3. It is the responsibility of the Contractor to be familiar with the local growing conditions, and it any specified plants will be in conflict.
 3. It is the responsibility of the Contractor to be familiar withing to the Complete Total Contractor to the responsibility of the Contractor to the
- reaction of any partial. I. Porting operations shall not begin until such time that the irrigation system is completely operational for the area(i) to be planted, and the irrigation system for that area has been preliminarly observed and opproved by the Owner's Representative Actual planting and be performed uning those periods when weather and sol conditions are skitable in accordance with load D. Actual planting shall be performe accepted borticultural practices.
- Do not install plants into saturated or frazen solis. Do not install plants during inclement weather, such as rain or snow or durina extremely hot, cold or windy conditions. 1.18 PLANTING AROUND LITURE
- A. Contractor shall carefully examine the civil, record, and survey drawings to become familiar with the existing underground conditions before digging. Determine location of underground utilities and perform work in a manner that will avoid possible damage. Hand excavate, as
 required. Maintain grade stakes set by others until parties concerned mutually agree upon removal.
- C. Notification of Sunshine 811, 1-800-432-4770, is required for all planting areas: The Contractor's responsible for knowing the location and avaiding utilities that are not covered by the Local Utility Locator's revice.
- - 2.1 PLANTS: GENERA A. Standards and measurement: Provide plants of quantity, size, genus, species, and variety or cultivars as shown and scheduled in contract documents. All plants including the root ball dimensions or container size to trunk caliper ratio shall conform to ANSI Z60.1 "American Standard for Nutsery Stock" latest edition, unless modified by provisions in this specification. When there is a conflict between this specification and ANSI Z60.1 his specification section shall be considered correct. Points larger than specified may be used if acceptable to the Owner's Representative. Use of such plants shall not increase the contract price. If larger plants are accepted the root ball see had be in acceptance with ANSI 2-60.1. Larger plants may not be corrected by the resident operations approximately accepted by the resident operations accepted by the resident operations approximately accepted by the resident operations approximately accepted by the resident operations approximately accepted by the resident operations accepted by
 - 3. If a range of size is given, no plant shall be less than the minimum size and not less than 50 percent of the plants shall be as large at the maximum size specified are the minimum and maximum size acceptable and are the measurements after pluring, where pruning is required. Proper identification: All trees shall be true to name as ordered or shown on planting plans and shall be labeled individually or in amounts by genus, species, writery and culture.
 - C. Compliance: All trees shall comply with federal and state laws and regulations requiring observation for plant disease, pests, and weeds. Observation cartificates required by law shall accompany each shipment of plants. Clearance from the local county agricultural commissioner, if required, shall be obtained before planting trees originating outside the county in which they are to be planted.
 - D. Plant Qualit General: Provide healthy stock, grown in a nursery and reasonably free of die-back, disease, insects, eggs, bores, and lanvae. At the time of planting all plants shall have a root system, stem, and branch form that will not restrict normal growth, stability and benefits for the event ten Bite of the event.
 - Plant quality above the coll line: a. Plants that be healthy with the color, shape, size and distribution of trunk, stems, branches, buds and leaves normal to the plant type special Line quality above the soil line shall comply with the Ronda Grades and Standards, the grade Ronda
 - Crown The form and density of the crown shall be typical for a young specimen of the species or cultivar pruned to a central and densiting of the crown shall be typical for a young specimen of the species or cultivar pruned to a
 - a.) Crown specifications do not apply to plants that have been specifically trained in the nursery as topiary, espailer, multi-stern, clump, or unique selections such as contorted or weeping cultivars.
 - Leaves: The size, color, and oppearance of leaves shall be typical for the time of year and stage of growth of the species a cultivar. Trees shall not show signs of prolonged moisture stress or over watering as indicated by wilted, shriveled, or dead Branches: Shoot growth (length and diameter) throughout the crown should be appropriate for the age and size of the species or cultivar. Trees shall not have dead, diseased, broken, distorted, or otherwise injured branches.
 - a) Moin branche shall be delitabuted doing the central leader not clustered together. They shall form a balanced crown oppropriate for the cuthral reposed.
 b) Branch, diameter shall be no larger than they-thirds (pone-hall is preferred) the diameter of the central leader measured in a share that the leader that the leader that the leader measured in a share that the leader that the leader measured in a share that the leader the leader that the leader the leader that the leader the le
 - 4.) Trunk: The free trunk shall be relatively straight, vertical, and free of wounds that penetrate to the wood (properly made purping cuts, closed or not, ore acceptable and are not considered wound), surplumed release, conker (lunged flutting, bodies), wood cracks, spalealage, sign of boring intexts, galls, cartierius, artilling are, or leasons (mechanical injury). Temporary branches, unless otherwise specified, can be present along the lower hunk below the lowest main (scaffold) branch, particulary for trees less than 1 inch in caliper. These branches should be no greater than 3% of the fold height of the tree it a clear think height is not specified in the plant schee
 - b. Trees shall have one central leader. If the leader was headed, a new leader (with a live terminal bud) at least one-half the diameter of the puning cut shall be oresent. comment or me promp can shall be present. 1). All trees are assumed to have one central leader trees unless a different form is specified in the plant schedule or drawings. c. All graft unless, where applicable, shall be completely closed without visible sign of graft rejection. All grafts shall be visible advert the solitine.
 - d. Trunk caller and taper shall be sufficient so that the lower five feet of the trunk remains vertical without a stake. Auxiliary stake may be used to maintain a straight leader in the upper halt of the tee.
 - can go be been in a source. . Plant roots shall be normal to the plant type specified. Root observations shall take place without impacting tree health. Root quality of the below the soil line shall camply with the following:
 - I.) The roots shall be reasonably free of scrapes, broken or spit wood.
 2.) The root system shall be reasonably free of high room bioSc (e.g., inects and pathogers) and abioSc (e.g., herbicide toxicity and said high root system are not toxicity and said high root system are not
 - 3.) A minimum of three structural roots reasonably distributed around the trunk (not clustered on one side) shall be found in each plant. Root distribution shall be uniform throughout the root ball, and growth shall be appropriate for the species.
 - bal near the top surface of the root ball. The grower may request a modification to this requirement for species with roots that rapidly decend, provided that the grower removes all stem grading roots above the shuctural roots across the top of 5.) The root system shall be reasonably free of stem girdling roots over the root calar or kinked roots from nursery production protections.
 - practicions. a) Port Cover CollColor: The find plant growth that be responsible to have determined that the plants have been not proved a local have in the plant plants proved to the responsible to the plants plant growth and local have been not proved a local have in the plant plants and the response to the response to the plant plant and the plant coll response to the plant set of the respirate plant have the plants and the respirate plants and the respirate plants and the respirate plant have the plants and the respirate plants and the respirate plants and the respirate plant have plants and the respirate plants and the respirate plant have plants and the respirate plants and the respirate plant have plants and the respirate plants and the respirate plant have plants and the respirate plants and the respirate plants and the respirate plants and plants and the respirate plants and the respirate plants and the respirate plants and plants and the respirate plants and the respirate plants and the respirate plants and plants and the respirate plants and the respirate plants and plants a
 - 6.) At time of observations and delivery, the root ball shall be most throughout. Roots shall not show signs of excess soil mosture conditions as indicated by shufled, discolared, distorted, or dead roots. E. Submittais: Submittais: Submittais are to be purchased, for each plant specifications from the grower where plants are to be purchased, for each plant type. The certification must state that each plant meets all the above plant quality requirements.
 - The grower's certification of plant quality does not prohibit the Owner's Representative from observing any plant or rejecting the plant if it is found to not meet the specification requirements. ROOT BALL PACKAGE OPTIONS: The following root ball packages are permitted. Specific root ball packages shall be required where indicated on the plant schedule or in this specification. Any type of root ball packages that is not specifically defined in this specification shall not be permitted.
 - BALLED AND BURLAPPED PLANTS
 All Balled and Burlapped Plants shall be field grown, and the root ball packaged in a burlap and twine and/or burlap and backet package.
 - De text cabor noi no bernagin municipati on antico cabo mana tapa ni municipati ne uticatado nois. En esta de la cabor de la c
 - If we baskets are used to support the root ball, a r basket shall be used. A low profile basket is defined as having the top of the highest bops on the basket no less than 4 inches and no greater than 8 inches below the shoulder of the root ball advance. 1.) A r r r d r top, are allowable.
 - vs.) Low solverstax. I lives and burburb used for wropping the root ball package shall be natural, biodegradable material. If the burburb decomposes after digrading the tree their the root ball shall be re-wrapped plor to shapping if roots have not yet grown to keep not ball into: I balling if the plan.
 - not boll intert any Bipping, the the second and a rememperature in the registry in company in our new new point to be RADE HARVESTED AND TRANSPARTED I. Refer to Plan The Relaccion Specifications for Polins transplanted from Mirto Nursey. 2. Space Harvested and Tompinghene Plants that meet all the requirements for their grown trees. Root ball diameters shall be of smiler size and Nad 2014. The advirement to belide and scheroper plants.
 - The share the research is equivariant to solve and strategies plants. It results have have been plants and the share the sh
 - 4. Trees usable moved and planted within 4 hours of the hild hourseting and shall remain in the space machine until planted.
 C. CONTANER (PLANTER) AND ALCOUNT ARRES (AND BOXES) PLANTS
 1. Contraining plants may be permitted only when indicated on the diswide, in this specification, or approved by the Owner's
 Representations.
 - tablished and well rooted in removable o

againg and too bat. When digging out the root bat, no evacuation shall be done closer than 6 inches to the trunk at ground level and the excavation shall astend below the major root system to a minimum depth of 3.5 feet. The bottom of the root bat shall be cut off square and perpendicular to the trunk below the major root system. D. The Contractor shall not free-fail, drag, roll or abuse the tree or put a strain on the crown (bud area) at any time. A protective device shall be used around the trunk of the tree while lifting and relocating so as not to injure the bud, or scor or skin the trunk in non-way. A. Planting Soil as used in this specification means the soil at the planting site, or imported as modified and defined in specification. Section Planting Soil. If there is no Planting Soil specification, the term Planting Soil shall mean the soil at the planting site within the elements here. Mulch shall be uniform in size, shape, texture and free from weeds, mass, sticks, and other debris and deleterious materials. Organic Mulches shall be "Mulch & Soil Council Certified." Mulch types shall consist of the following and be specified on the plant schedule:

Container class size shall conform to ANSI 260.1 for container plants for each size and type of plant. NHIUM. ROWERNG AND SEASONAL COLOR PLANTS
 Container of the regrow plants should be sized an antedar in the planting plan. Plants shall be well-rooted and healthy.

A. Except as modified below or where the requirements are not appropriate to the specification of paims, paims shall meet all the requirements of the plant quality section above.

2. All remaining frands above halizantal shall be lifted up and tied together around the crown in an upright position. Up to 2/3 of the alast live frands can be removed, all fonds can be removed on Sabal parms. Do not file too Sglith, find or higher the bud, Jule binder twine half be used in tyring up the francis, wire will not be permitted. Frands shall be united immediately after participation.

2.3

2.4 PALNO

B. Defronding, tying, and hedging:
 I. In preparing paim trees for relocation, all dead

C. Shredded Melaleuca (organic mulch) D. Graund Shells (non-organic mulch) E. White Pea Gravel (non-organic mulch

E STAKING AND GUYING MATERIAL

3.6 LAYOUT AND PLANTING SEQUENCE A. Relative positions of all plants and trees are

ART 3 EXECUTION

PERMITTED ROOT BALL PACKAGES AND SPECIAL PLANTING REQUIREMENTS A The following are permitted root ball packages and special planting re-in addition to the above General planting requirements.

C. SPADE HARVESTED AND TRANSPLANTED PLANTS

G. Spread any excess soil around in the spaces between plants

rd rr

Plants shall stand plumb after staking or guying.
 Stakes shall be driven to sufficient depth to hold the tree rigid.

B. Do not straighten plants by pulling the trunk with guys. INSTALLATION OF FERTILIZER AND OTHER CHEMICAL ADDITIVES

All pruning shall be performed by a person experie

D. Do not cover root ball with mulch or topsoil.

G AND GUYING

Controlled release fertilizers s
 PRUNING OF TREES AND SHRUBS

3.13 STRAIGHT NING PLANTS

d,

of the basket wires just before the final backfling of the tree.

After the root ball has been backfilled, remove all twine and burkap from the top of the root ball. Cut the burkap away; do not told down anto the Planting Sall.

Earth root balls shall be kept intact except for any modifications required by the Owner's Representative to make root package comply with the requirement in Part 2 Products.

use vege equation the dometer of the discrete reserve setures. The experimental pairs and use of the dometer of the discrete reserve setures the reserved pairs and the discrete reserved and the seture reserved and the discrete reserved reserved and the discrete reserved re After installing the tree, lossen the soil along the seam between the root ball and the surrounding soil out to a radius from the root ball edge equal to the diameter of the root ball to a depth of 8 - 10 inches by hand digging to disturb the soil interface.

Reform to the calculation of provide the second of the seco

6. Using a hose, power washer or air excavation device, wash out the substrate from around the trunk and top of the remaining rootball and find and remove all stem griding roots within the root ball above the top of the structural roots.

The groups is the local set of the planting to accur prior to application of the mulch. If the bed is already mulched, pull the mulch from around the hole and plant into the soil. Do not plant the root system in the mulch. Pull mulch back so it is not on the root ball surface. P. Perss soil to bring the root system in a context with the soil.

B. The hees shall be placed with their vertical axis in a plumb position. Curved pains, it specified shall be placed with their vertical axis of the pain head in a plumb position as the pain hee originally stood and traviality that trute, curve as it was grown in the nutsey. C. All back!! In the back fill.

E. Provide a watering bern at each paim. Berns shall extend a minimum of 18 inches out from the trunk all around and shall be a minimum of (6) inches high.

A. Donot take a g w free unies uper locally regulard by the Contract Document, or in the event that the Contractor feel that
 by the Contract Document, or in the event that the Contractor feel that
 by the Owners Representative influences the authority to provide that these are staked or to reject staking as an alternative way to
 booke the the owners.

C. Tree guing shall utilize the tree staking and guing materials specified. Guing to be field in such a manner as to create a minimum 12-inch loop to prevent gridling. Refer to manufacturer's recommendations and the planting detail for installation.

D. For trees planted in planting mix over waterproofed membrane, use dead men buried 24 inches to the top of the dead man, in the soil. The the guy to the dead man with a double wrap of line around the dead man followed by a double hard hitch. When guys are removed, beyone the dead man in place and cut the guy tape 12 inches above the ground teaching that pape and cutthe guy tape.

A. Maintain all plants in a plumb position throughout the warranty period. Straighten all trees that move out of plumb including those not staked. Plants to be straightened shall be excavated and the root ball moved to a plumb position, and then re-backfilled.

A. Do not apply any soluble fertilizer to plantings during the first year after transplanting unless soil test determines that fertilizer or chemical additives is required. Apply chemical additives only upon the approval of the Owner's Representativo

C. Lift all leaves, low hanging stems and other green partiens of small plants out of the mulch it covered. PLANTING BED FINISHING

. Make all repairs to grades, ruts, and damage by the plant installer to the work or other work at the site

Immediately clean up any spilled or tracked soil, fuel, oil, trash or debris dep project or on public right of ways and neighboring property.

SUBSTANTIAL COMPLETION ACCEPTANCE A. Upon written notice from the Contractor, the Owners Representative shall review the w substantiative complete.

ance Specifications 3.24 END OF WARRANTY FINAL ACCEPTANCE / MAINTENANCE OBSERVATION

CE DURING THE WARRA

A. Refer to Ground Mair

substantiatly complete. 1. Notification shall be at least 7 days prior to the date the contractor's requesting the review. 8. The date of substantial completion of the planting shall be the date when the Owner's Represe Planting. Reprinting Soll, and Historian installation sectors's complete.

A. Prune plants a directed by the Owner's Representative. Pruning trees shall be limited to addressing structural defects as shown in d Sr Pr A G d FrT Gr I d r d thr Tr F d , V

Building of large trees shall be done using pole pruners or if needed, from a ladder or hydraulic lift to gain access to the top of the tree. Do not climb in newly planted trees, Small trees can be structurally pruned by laying them over before planting. Pluning may also be performed at the nutriesy plant or singing.

Letterois and repose accelletely provide the dispersion of the second second second second second accellence of the nonsey of other. The terrois and repose accellence yound or material stack resulting than improper pruning that accurate in the nonsey or after. The terrois and the accellence will be used. All othe second or that accellence of the second s

A. Apply 3.1/2 inches of mulch before settlement, covering the entire planting bed area. Install no more than 1 inch of mulch over the top of the root balls of all plants. Taper to 2 inches when abutting pavement.

B. For trees planted in Jawn areas at a minimum the mulch shall extend to the full width of the tree planting hole or to a 3 foot radius around the tree, whichever is greater.

8. Separate the edges of planting bett and two means that small status with a model, termed edge cut into the turk with the bed mulch level signify lower, I and 2 indnes, than the adjacent turk sod or as directed by the Owner's Representative. Bed edge lines shall be a depicted on the drawing.

A. The Contractor shall be fully responsible to ensure that adequate water is provided to all plants from the point of installation until it date of Substantial Completion Acceptance. The Contractor shall adjust the automatic ingation system, it available, and apply additional or adjust for this work units plants are required.

8. Hand water root balls of all plants to assure that the root balls have moisture above will point and below field capacity. Test the most water content in each root ball and the sail outside the root ball to determine the water content.

A. During installation, keep the site free of trash, pavements reasonably clean and work area in an orderly condition at the end of each day. Remove trash and debts in containers from the site no less than once a week.

8. Once installation is complete, wash all solitiom povements and other structures. Ensure that mulch is confined to planting beds and that at logs and flogging tops are removed from the site. The Owner's Representative's seals are to remain on the trees and removed of the end of the warranty period.

A. The Contractor shall protect planting and related work and other site work from damage due to planting operations, operations by other Contractors or terposars, Marintan protection during installation until Substantial Completion Accelptance. Treat, repair or relations domaged work immediately. tendor during the period period of the period of the set of t

C. The Plant Warranty period begins at date of written notification of substantial completion from the Owner's Representative. The date of substantial completion may be different than the date of substantial completion for the other sections of the project.

table Dr. Wankknith Holl, ALCLEHARLE, I MAIRENARCE COBENVALINE A AT the end of the Meaning hand information participation and the series is satisfication, provident of the contract de a comparison and the work is satisfication. If it has work is indicationly, the maintenance participation and in the date of the final observation. 2. If the work is desired and dates participation and the adde of the final observation.

B. FAILURE TO PASS OBSERVATION: If the work fails to pass final observation, any subsequent observations must be rescheduled as per above. The cast to the Owner for additional observations will be charged to the Contractor at the prevailing hourly rate of the Owner Reservations.

osited by the Contractor from all surfaces within the

zoace me nee.

 Toes that cayled heavily modified not balls to meet the root quality standards may become unstable. The Owner's
 persentative may choose to reject these these rather than utilities taking to temporary separate the tree.
 Tees that are purple that have the gays and states innoved after are full growing account or at their times are require

d r

ball that does not

C. Plants shall be planted in even, triangularly spaced rows, at the intervals called out for on the drawings, unless other lists row of Annual lower plants shall be 6 inches from the bed edge unless otherwise directed. D. Dig planting holes sufficiently large enough to insert the root system without deforming the roots. Set the top of the root system at the grade of the sol.

A sensor of waters are source in respective Definition ports. I. A page multi-the base belowing users of too write the got of the plots with or the tops of the cost ball with mulch. I. Water soci-the plotting rate as isons the plotting is completed. Apply additional water to keep the coll molitare is PLAIS A NUMBER of the plotted of the plotted of goads making user and to plant the the only deeper in the ground than the plant he has a family and the plotted of goads making user and to plant the the any deeper in the ground than the plant he

3.10 GROUND COVER, PERENNAL AND ANNUAL PLANTS A. Assure that sol mositure is within the required levels prior to planting. Ingation, if required, shall be app planting to avoid planting in muddy sols.

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elm

planning

architecture

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H. It is undestood that mulch quality will vary significantly from supplier to supplier and region to region. The above requirements may be modified to conform to the source material from locally reliable suppliers as approved by the Owner's Representative.

A. Tree guying to be flat wave notipropylene material, 3/4 inch wide, and 900 lb. break strength. Color to be Green. Product to be Arbonne manufactured by Deep Root Partners, LP, or approved equal.

B. Stakes shall be lodge pole stakes free of knots and of diameters and lengths appropriate to the size of plant as required to adequable support the plant.

C. Below ground anchorage systems to be constructed of 2 x 2 dimensional untreated wood securing (using 3 inch long screws) horizontal partiants to 4 feet long vertical stakes driven straight into the ground outside the root ball.

A Bramine the surface grades and soil conditions to confirm that the requirements of the Specification Section - Planting Soil - and the soil and drainage modifications indicated on the Planting Soil Plan and Detaits (if applicable) have been completed. Notify the Owner's Representative in whiting of any unacticatory constitute.

Protect materials from deterioration during delivery and storage. Adequately protect plants from drying out, exposure of roots to sur, whild or externess of head and cald demperatures. It planting is delayed more than 24 hours after delivery, set plants in a location protected from sur and wind. Provide adequate water to the root bal package during the intipping and storage period

Do not deliver more plants to the site than there is space with adequate storage conditions. Provide a suitable remote sta for plants and other supplies.

2. Using a soil moisture meter, periodically check the soll moisture in the root balls of all plants to assure that the plants are being adequately watered. Volumetric soil moisture shall be maintained above willing point and below field capacity for the root ball within the root.

supplies. resentative or Contractor shall approve the duration, method and location of storage of pignts.

A. Planting shall only be performed when weather and soil conditions are suitable for planting the materials specified in accordance with locally accepted practice.

C. Coordinate the relocation of any inigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be aftered to fit around lines. Notify the Owner's Representative of any conflicts encountered.

B. Holdy the Owner's Representative, one [1] week prior to knywit, Loyout of individual tree and shub locations. Race plants above strates at planting location or place a lobeled ables of prioring location. Loyout bed inves with paint for the Owner's Representative's approval. Secure the Owner's Representative's acceptance before digging and start of planting work. C. When opplicable, just these before other plant and are intelled.

In a material parameter year reveal water to the para to an MORDEL.
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Where possible deliver and plant trees that require the use of heavy mechanized equipment prior to final soil preparation and tilling. Where possible, restrict the driving lanes to one area instead of driving over and compacting a large area of soil.

A. Observe each plant after delivery and prior to installation for damage of other characteristics that may cause rejection of the plant Notify the Owner's Representative of any condition observed.

C. The poll system of each plant, regardless of red ball package hore, shall be observed by the Contractor. If the fine of planting to a characteristic system required by the Contractor. If the fine of planting of the planting of the fine of planting, of modifications to the root system required by the Owner's Representative to meet these quality dandards.

ually standards. Notalizations, at the time of planting, to meet the specifications for the depth of the root collar and removal of stem girdling roots and circling roots may make the plant unstable or stress the plant to the point that the Owner's Representative may choose to reject the plant rather than permitting the machingcation.

Any modifications required by the Overen's Representation to make the root system contom to the plant quality standards outlined in Post 2 Products Parts General: Quality, or other requirements related to the permitted root ball packase, shall we have considered as growing to modify or volid the plant warranty.

The resulting root ball may need additional staking and water after planting. The Owner's Representative may reject the plant if the root modification process makes the tree unstable or if the tree is not healthy at the end of the warranty period. Such plants shall still be overweld under the warranty.

4. The Contractor remains responsible to confirm that the grower has made all required root modifications noted during any industry.

conservators. Container Root Ball Snaving: The outer surfaces of ALL plants in containers, including the top, sides and bottom of the noot ball sinc be shared to remove all clining, discounting, and inclinat noot. Sharing shall be genformed using soons, trives, sharp thores or main of using to 2 shares as required to remove all noot segments that are not growing reasonably radial to the trunk.

Exposed Stem Tisse offer ModRodow The required not bell modRodown may reall in term Save that has not home of terms a function of the stem in a protective wrapping with a bell developed and a bell protective wrapping with a material filter (balls, Seven the bank, with teodegradable mosting tape. DO NOT USE titing, twins, green nutriery list a carry other material filter (balls).

Encovation of the Planting Space: Using hand tools or tracked mini-excavator, excavate the planting hole into the Planting Soil to the depth of the root ball measured after any root ball modification to correct root problems, and wide enough for working room around the root ball or to the size indicated on the diawing or can note below.

For trees and shrubs planted in soil areas that are NOT tilled or otherwise modified to a depth of at least 12 inches over a distance of more than 10 teet radius from each tree, or 5 feet radius from each strub, the soil around the root ball shall be lossened as defined helpine or as indirated on the rowings.

ammed below or as indicated of the arawings.
The area of loosening shall be a minimum of 3 times the diameter of the root ball at the surface sloping to 2 times the diameter
of the cost beliat the deshed the root ball.

b. Lossening is defined as diging into the soil and turning the soil to reduce the compaction. The soil does not have to be removed from the hole, just dog, ifted and turned. Utting and turning may be accomplished with a tracked mini excavator, or hand showing.

In for root ball depth shall be the average height of the outer edge of the root ball after any required root ball If motorized equipment is used to deliver plants to the planting area over exposed planting beds, or used to loosen the soil or dig the planting holes, all soil that has been driven over shall be filled to a depth of 6 inches.

If an auger is used to dig the initial planting hale, the soil around the auger hale shall be loosened as defined above for trees and strubs planted in soil areas that are NOT filed or otherwise modified.

H. For these to be planted in prepared Planting Soil that is deeper than the root ball depth, compact the soil under the root ball using a machanical tamper to assue a firm badding for the root ball. If there is more than 12 inches of planting soil under the root ball excervite and form the clanting soil under the root ball.

Set top outer edge of the root ball at the average elevation of the proposed finith. Set the plant plumb and upright in the center of the planting hole. The tree graft, if applicable, shall be visible above the grade. Do not place sol on top of the root ball.

K. Backfill the space around the root ball with the same planting soil or existing soil that was excavated for the planting space. See Specification Section Planting Soil, for requirements to modify the soil within the planting bed.

Let us a contract by tomport the second the lower profession of the root built. Proce cashinoir Perinting Sciences and the lower and the lo

When the planting hole has been backfilled to three quarters of its depth, water shall be pound around the root ball and allowed to scar into the soil to settle the soil. Do not freed the planting space. If the soil is above field capacity, allow the soil to aroun to belevin teld capacity before insting the planting. At pockets that the eliminated and backfill continue unit the

M. Where indicated on the drawings, build a 4 inch high, level berm of Planting Soil around the outside of the root ball to retain wate Tamp the berm to reduce leaking and erosion of the saucer.

O. Remove all nursery plant identification tags and ribbons as per Owner's Representative instructions. The Owner's Representative's seals are to remain an plants until the end of the warranty period.

N. Thoroughly water the Planting Soil and root ball immediately after planting.

move corrugated cardboard trunk protection after planting. low additional requirements for the permitted root ball packages

ative may request that plants orientation be rotated when planted based on the form of the plant

ubmit supplier's product specification data sheet and a one gallon sample for approva

with DioDy locapital junction. 3. A ADVESE WeithER CONDITION A hop jointing that take place during extremely hot, dy, windy or freezing weather. 3. COORDANIC WHIT RPDLCFL WORK A. The Contractor shall coordinate with all after work that may impact the completion of the work for contractor shall coordinate with all after work that may impact the completion of the work to contract the contractor shall coordinate with all after work that may impact the completion of the work to contract the contractor shall coordinate with all after work that may impact the completion with after the contract the contractor shall be also be contracted and with all after the shall be also be contracted and the contract the completion with after the shall be also be contracted and the shall be contracted and the shall be also be al

Till to a depth of 6 inches, all soil that has been driven over during the installation of plants







