ITEM 193 LANDSCAPE ESTABLISHMENT REQUIREMENTS

After completion of the Item 192 maintenance period, as shown in the plans and approved by the engineer, begin Item 193 establishment activities and continue for the duration of time shown in the plans.
Reference Item 193 of the Texas Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges 2014 for specifications, dimensions, volumes and measurements that are not shown.
All establishment work is paid for separately in accordance with Item 193 unless otherwise shown on plans.
Notify engineer prior to each site visit, determination of the completeness of work will be done in the presence of the engineer same day as work activity.

TIMELINE (Days) - (1 - 365 = Month 1 thru 12
366 - 726 = Month 13 thru 24)

DESCRIPTION OF WORK	0(366)				30(396)				60(426)				90(456)				120(486)				150(516)				180(546)				210(576)				240(606)				270(636)				300(666)				330(696)			365
	1 Thru 7	8 Thru 15	16 Thru 22	23 Thru 30	31 Thru 37	38 Thru 45	46 Thru 52	53 Thru 60	61 Thru 67	68 Thru 75	76 Thru 82	83 Thru 90	91 Thru 97	98 Thru 105	106 Thru 112	113 Thru 120	121 Thru 127	128 Thru 135	136 Thru 142	143 Thru 150	151 Thru 157	158 Thru 165	166 Thru 172	173 Thru 180	181 Thru 187	188 Thru 195	196 Thru 202	203 Thru 210	211 Thru 217	218 Thru 225	226 Thru 232	233 Thru 240	241 Thru 247	248 Thru 255	256 Thru 262	263 Thru 270	271 Thru 277	278 Thru 285	286 Thru 292	293 Thru 300	301 Thru 307	308 Thru 315	316 Thru 322	323 Thru 330	331 Thru 338	339 Thru 346	347 Thru 354	355 Thru 365
193.3.1.1. **PRUNING** (Includes palm plant material and dead, diseased, or damaged palm fronds.)				✓				✓				✓				✓				✓				✓				✓				✓				✓				✓				✓				✓
193.3.1.2. **INSECT, DISEASE, AND ANIMAL CONTROL** (Exterminate all active ant colonies in bed preparation areas)		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
193.3.1.3. **FERTILIZATION** (Only when Item 192 Palm Material is part of the contract, see PLANTING AND ESTABLISHMENT SHEET 2 of 8, REQUIREMENTS AFTER PLANTING)																✓																✓																✓
193.3.1.4. **MULCHING, PLANT BASIN, AND PLANT BED MAINTENANCE** (Includes keeping all inlets within or near the bed preparation areas free of compost. Maintain bed preparation areas as shown below and reshape beds every 30 days or as site conditions and weather require. If no requirement is selected below, maintain per Item 193.3.1.4) **WEED CONTROL REQUIREMENT** ☐ Maintain weed-free per Item 193.3.1.4. Cord trimmers are not allowed. Replace damaged plants per Item 193.3.2. INVASIVE VINES MUST BE CHEMICALLY TREATED, NOT MANUALLY REMOVED. ☑ Maintain grasses and weeds at 24" maximum height. Eradicate all vines regardless of height, VINES MUST BE CHEMICALLY TREATED, NOT MANUALLY REMOVED. Eradicate invasive shrubs and trees as directed. Method must be either a spot-treatment chemical application such as a wick applicator or manual hand pulling of weeds. Hand-pull previously treated dead plants over 24" tall.		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
193.3.1.5. **MOWING, TRIMMING, AND EDGING** (From back of curb, retaining wall, barrier, and riprap to bed preparation areas, otherwise 6' width around outside edge of bed preparation areas, around and between planting bed preparation areas, including areas around any structures within the outer limits adjacent to the roadway) DO NOT MOW, TRIM, OR EDGE WITHIN 3' of ANY TREE	MOW EIGHT TIMES PER 365 DAY PERIOD, ONCE PER MONTH, DURING THE LAST WEEK OF: APRIL, MAY, JUNE, JULY, AUGUST, SEPTEMBER, OCTOBER, NOVEMBER																																															
193.3.1.6. **STAKING, GUYING, AND BRACING OF PLANTS** (Remove plant stakes and all appurtenances within last 30 days of this schedule, unless otherwise directed by engineer)		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
193.3.2. **PLANT REPLACEMENT***				✓				✓				✓				✓				✓				✓				✓				✓				✓				✓				✓				✓
193.3.3. **VEGETATIVE WATERING** (See PLANTING AND ESTABLISHMENT SHEET 1 of 8, VEGETATIVE WATERING SCHEDULE FOR TREES, SHRUBS, VINES) and/or (See PLANTING AND ESTABLISHMENT SHEET 2 of 8 VEGETATIVE WATERING SCHEDULE FOR PALMS ONLY)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
193.3.4. **IRRIGATION SYSTEM OPERATION AND MAINTENANCE**		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓
1006-6004 **SOIL AMENDMENT (TYPE IV)** (PLANTING AND ESTABLISHMENT SHEETS 4 AND 5 of 8, each application will be paid for separately)	SEE PREVIOUS SHEET FOR FOLIAR APPLICATION SCHEDULE.																																															
1006-6005 **SOIL AMENDMENT (TYPE V)** (PLANTING AND ESTABLISHMENT SHEETS 4 AND 5 of 8, each application will be paid for separately)																																									✓							
LITTER AND DEBRIS COLLECTION AND DISPOSAL (Includes planting bed preparation areas and designated mowing limits. In addition, keep all inlets within or near planting bed preparation areas free of debris and litter)		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓

* Remove any materials damaged by actions described in Item 7.18.1.
Removal and disposal of damaged materials is incidental to Item 193.

✓ = Work required during defined period of timeline.
All work must be completed for entire project.

NOTES:
1. Reference Item 5.10 Inspection of the Texas Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges 2014. At any time during all phases of the contract, any materials or work performed not in accordance with the plans and specifications will be replaced and/or reworked until in compliance.
2. Any adjustments due to the failure to comply with plans and specifications shown will be at contractors expense.

Texas Department of Transportation
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HOUSTON DISTRICT

PLANTING AND ESTABLISHMENT

SHEET 8 of 8

ESTABLISHMENT

FILE:	FED DIV	STATE	PROJECT NUMBER			SHEET
	6	TEXAS				
REVISIONS: FEB 2015 for 2014 specs	DIST	COUNTY	CONTROL	SECT	JOB	HIGHWAY
	12					

STD K-4