

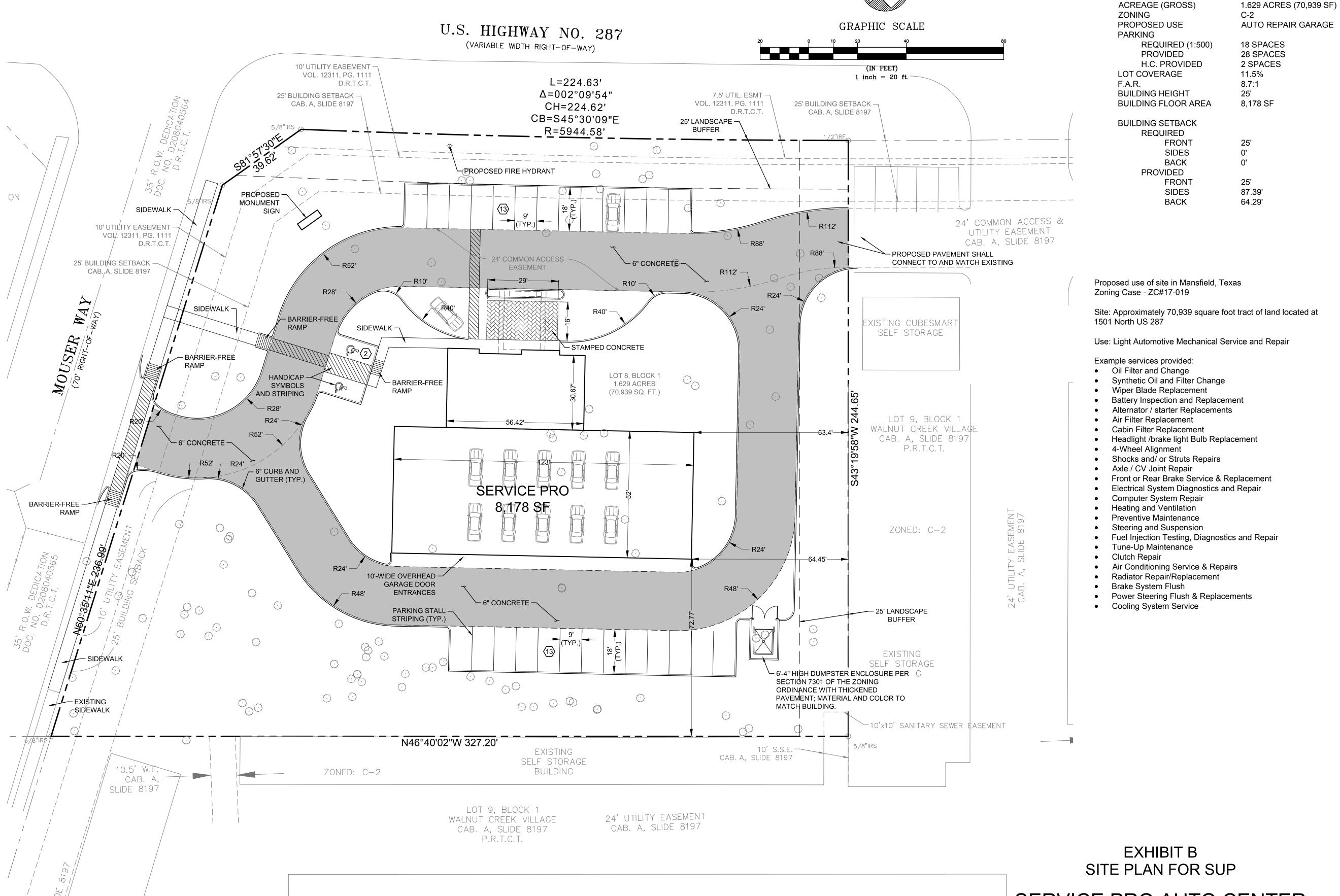
VICINITY MA N.T.S.

LEGEND

	PROPERTY BOUNDARY LINE
EXW	EXISTING WATER LINE
———EX—— OHE ———	EXISTING OVER HEAD ELECTRIC
——— EX—— SS———	EXISTING SANITARY SEWER LINE
ss	PROPOSED SANITARY SEWER LINE
w	PROPOSED WATER LINE
———— GAS ————	PROPOSED GAS LINE
	PROPOSED STORM SEWER
——— SF ———	SILT FENCE
	PROPOSED 6" CURB
	DRAINAGE AREA BASIN
	PROPOSED LANDSCAPE EDGE
	PROPOSED BUILDING SETBACK

NOTE:

- ALL PROPOSED PAVING IS CONCRETE.
- 2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 3. ALL CURB HEIGHTS ARE 6" UNLESS OTHERWISE NOTED.
- 4. NO PART OF THE PROPERTY LIES WITHIN THE 100-YEAR FLOODPLAIN AS SHOWN ON FIRM MAP NO. 48439C0460K, TARRANT COUNTY, EFFECTIVE DATE SEPTEMBER 25, 2009.
- 5. ALL SIGNAGE ON THE PROPERTY SHALL COMPLY WITH THE C-2 ZONING REQUIREMENTS



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FAX (817) 796-1042 EMAIL EDWARD@MAENGINEERING.NET SERVICE PRO AUTO CENTER LOT 8, BLOCK 1 WALNUT CREEK VILLAGE ADDITION 1.629 AC ZC#17-019

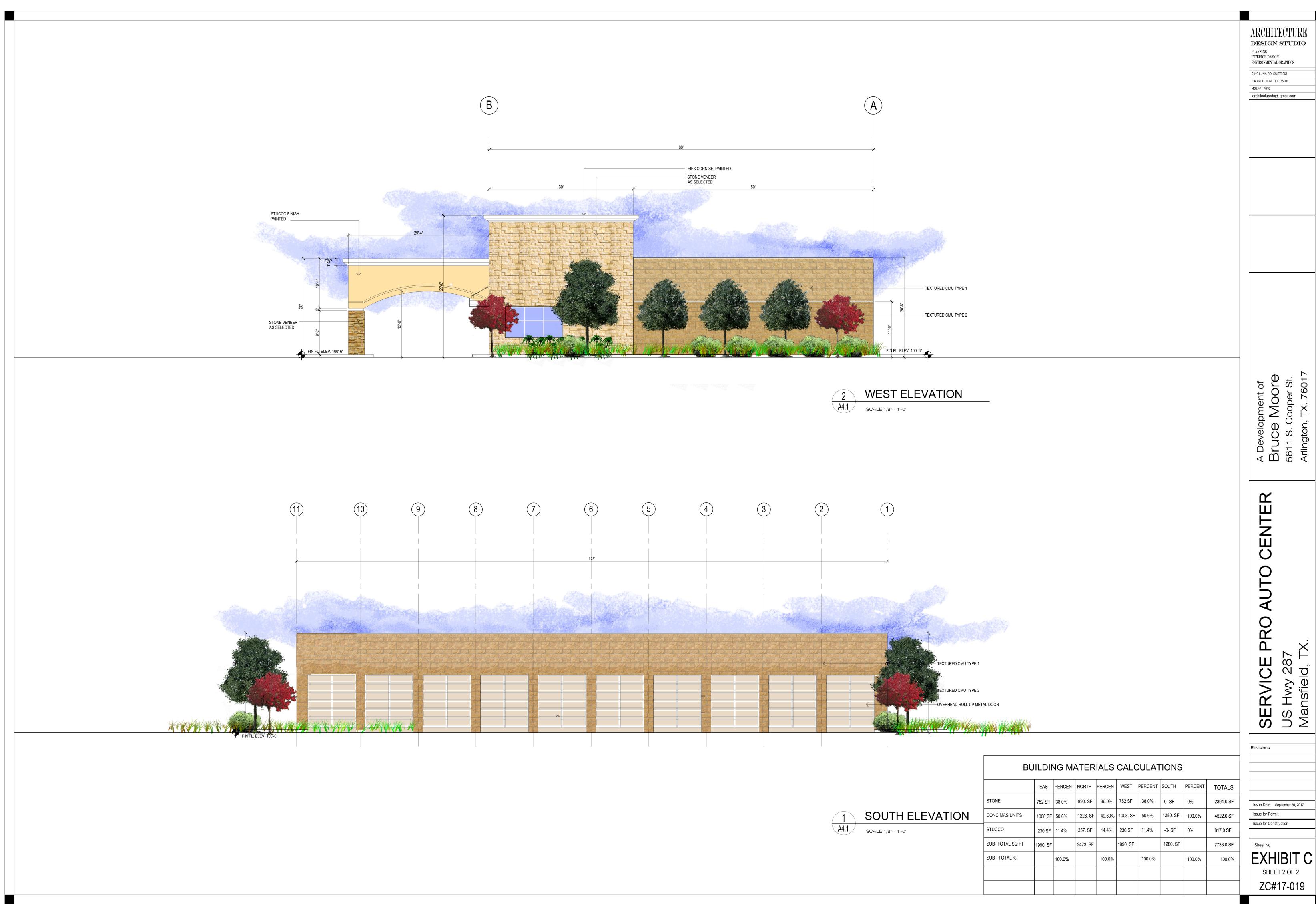
SITE DATA

CITY OF MANSFIELD, TARRANT COUNTY, TEXAS

1501 NORTH US 287

PREPARED ON 09/20/17





Issue Date September 20, 2017

GENERAL LAWN NOTES

EROSION CONTROL AND SOIL PREPARATION:
THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TOP SOIL AT THE CORRECT GRADES. CONTRACTOR TO FINE GRADE AREAS TO REACH FINAL CONTOURS AS SPECIFIED PER CIVIL PLANS. ALL CONTOURS SHOULD ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES. WATER SHOULD NOT BE ABLE TO POOL IN ANY AREAS UNLESS SPECIFIED OTHERWISE. EROSION FABRIC SUCH AS JUTE MATTING OR OPEN WEAVE TO

ANY LOSS OF TOPSOIL OR GRASS DUE TO EROSION IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL IT IS 100% ESTABLISHED.

CONTRACTOR TO REMOVE ANY ROCKS 3/4" AND LARGER, STICKS AND DEBRIS

PRIOR TO INSTALLATION OF TOPSOIL AND SOD. FOUR (4") OF TOPSOIL SHALL BE APPLIED TO AREAS DISTURBED BY CONSTRUCTION RECEIVING SOD. IF TOPSOIL IS NOT AVAILABLE ON SITE, THE

TOPSOIL SHALL BE FRIABLE, NATURAL LOAM, FREE OF ROCKS, WEEDS, BRUSH, CLAY LUMPS, ROOTS, TWIGS, LITTER AND ENVIRONMENTAL

CONTRACTOR SHALL BE RESPONSIBLE FOR SOD UNTIL ACCEPTANCE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: MOWING, WATERING, WEEDING, CULTIVATING, CLEANING AND REPLACING DEAD OR BARE AREAS TO KEEP PLANTS IN A VIGOROUS, HEALTHY CONDITION. SOD SHALL BE REPLACED IF

SOLID SOD:
SOLID SOD SHALL BE PLACED ALONG ALL IMPERVIOUS EDGES, AT A MINIMUM. THIS SHALL INCLUDE CURBS, WALKS, INLETS, MANHOLES AND PLANTING BED AREAS. SOD SHALL COVER OTHER AREAS COMPLETELY AS INDICATED BY PLAN.

SOD SHALL BE STRONGLY ROOTED DROUGHT RESISTANT SOD, NOT LESS THAN 2 YEARS OLD, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASS AND MACHINE CUT TO PAD THICKNESS OF 3/4" (+1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED.

DO NOT INSTALL SOD IF IT IS DORMANT OR GROUND IS FROZEN. LAY SOD WITH TIGHTLY FITTING JOINTS, NO OVERLAPS WITH STAGGERED STRIPS TO

SOD SHALL BE ROLLED TO CREATE A SMOOTH EVEN SURFACE. SOD SHOULD BE WATERED THOROUGHLY DURING INSTALLATION PROCESS.

SHOULD INSTALLATION OCCUR BETWEEN OCTOBER 1ST AND MARCH 1ST, SOD SHALL INCLUDE AN OVER-SEED OF ANNUAL RYE OR WINTER RYEGRASS AT A RATE OF FOUR POUNDS PER ONE THOUSAND SQUARE FEET FOR A GROWN-IN APPEARANCE. CONTRACTOR SHALL ENSURE CONFORMANCE TO §115.D OF TITLE 7, PART XXIX, HORTICULTURE COMMISSION CHAPTER 1.

SCARIFY SURFACE TO A MINIMUM OF 2" DEPTH PRIOR TO THE IMPORT TOPSOIL APPLICATION. TOP SOIL SHALL BE PLACED 2" IN DEPTH IN ALL AREAS TO BE SEEDED. CONTRACTOR TO SUPPLY HIGH QUALITY IMPORTED TOPSOIL HIGH IN HUMAS AND ORGANIC CONTENT FROM A LOCAL SUPPLY. IMPORTED TOPSOIL SHALL BE REASONABLY FREE OF CLAY LUMPS, COARSE SANDS, STONES, ROOTS AND OTHER FOREIGN

IF INADEQUATE MOISTURE IS PRESENT IN SOIL, APPLY WATER AS NECESSARY FOR OPTIMUM MOISTURE FOR SEED APPLICATION.

ALL SEED SHALL BE HIGH QUALITY, TREATED LAWN TYPE SEED AND IS FREE OF NOXIOUS GRASS SEEDS. THE SEED APPLICATION SHALL BE UNIFORMLY DISTRIBUTED ON THE AREAS INDICATED ON PLANS. HYDROMULCH WITH BERMUDA GRASS SEED AT A RATE OF TWO POUNDS PER ONE THOUSAND SQUARE FEET.

IF INSTALLATION OCCURS BETWEEN OCTOBER 1ST AND APRIL 1ST, ALL HYDORMULCH AREAS SHALL BE OVER-SEEDED WITH ANNUAL RYE GRASS AT A RATE OF FOUR POUNDS PER ONE THOUSAND SQUARE FEET. CONTRACTOR TO RE-HYDROMULCH WITH BERMUDA GRASS AT THE END OF THE ANNUAL RYE GROWING SEASON.

AFTER APPLICATION, NO EQUIPMENT SHALL OPERATE OVER APPLIED AREAS. WATER SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO

COVERAGE PRIOR TO FINAL ACCEPTANCE.

LANDSCAPE NOTES

NOTIFIED OF ANY CONFLICTS.

REFERENCE SITEWORK AND SPECIFICATIONS FOR INFORMATION NEEDED FOR

CONTRACTOR TO VERIFY AND LOCATE ALL PROPOSED AND EXISTING STRUCTURES. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE FOR ANY LAYOUT DISCREPANCIES OR ANY CONDITION THAT

WOULD PROHIBIT THE INSTALLATION AS SHOWN. CONTRACTOR SHALL CALL 811 TO VERIFY AND LOCATE ANY AND ALL UTILITIES ON SITE PRIOR TO COMMENCING WORK. LANDSCAPE ARCHITECT SHOULD BE

A MINIMUM OF 2% SLOPE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES.

LANDSCAPE ISLANDS SHALL BE CROWNED, AND UNIFORM THROUGHOUT THE

ALL PLANTING AREAS SHALL BE GRADED SMOOTH TO ACHIEVE FINAL CONTOURS AS INDICATED ON PLAN WITH 3" OF TOPSOIL AND 3" OF COMPOST AND CONSISTENTLY BLENDED TO A DEPTH OF 9". ALL BEDS SHALL BE CROWNED TO ANTICIPATE SETTLEMENT AND ENSURE PROPER DRAINAGE.

PLANTING AREAS AND SOD TO BE SEPARATED BY STEEL EDGING. EDGING TO

BE GREEN IN COLOR AND A MINIMUM OF 3/16" THICK. EDGING SHALL BE STAKED FROM THE INSIDE OF BED. EDGING NOT TO BE MORE THAN 1/2" ABOVE FINISHED GRADE.

MULCH SHALL BE INSTALLED AT 1/2" BELOW THE TOPS OF SIDEWALKS AND QUANTITIES ON THESE PLANS ARE FOR REFERENCE ONLY. THE SPACING OF

PLANTS SHOULD BE AS INDICATED ON PLANS OR OTHERWISE NOTED. ALL

TREES AND SHRUBS SHALL BE PLANTED PER DETAILS. CONTAINER GROWN PLANT MATERIAL IS PREFERRED HOWEVER BALL AND BURLAP PLANT MATERIAL CAN BE SUBSTITUTED IF NEED BE AND IS APPROPRIATE TO THE SIZE AND QUALITY INDICATED ON THE PLANT MATERIAL

TREES SHALL BE PLANTED AT A MINIMUM OF 5' FROM ANY UTILITY LINE, SIDEWALK OR CURB. TREES SHALL ALSO BE 10' CLEAR FROM FIRE HYDRANTS.

4" OF SHREDDED HARDWOOD MULCH (2" SETTLED THICKNESS) SHALL BE PLACED OVER 4.1 OZ WOVEN, WEED BÄRRIER FABRIC OR APPROVED EQUAL. WEED BARRIER FABRIC SHALL BE USED IN PLANT BEDS AND AROUND ALL TREES AND SHALL BE DE WITT 'WEED BARRIER' OR APPROVED EQUAL. MULCH SHALL BE SHREDDED BARK OR RUBBER LANDSCAPE MULCH, PINE STRAW MULCH IS PROHIBITED.

CONTRACTOR TO PROVIDE UNIT PRICING OF LANDSCAPE MATERIALS AND BE RESPONSIBLE FOR OBTAINING ALL LANDSCAPE AND IRRIGATION PERMITS.

IN THE ABSENCE OF AN IRRIGATION SYSTEM OR AREAS BEYOND THE COVERAGE LIMITS OF A PERMANENT IRRIGATION SYSTEM, CONTRACTOR SHALL WATER SOD TEMPORARILY, BY ANY MEANS AVAILABLE, TO DEVELOP ADEQUATE GROWTH. TURF SHALL BE IN 100% ESTABLISHMENT AT THE TIME OF

ALL PLANTING BEDS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM WITH A FREEZE/RAIN SENSOR. SYSTEM SHALL ALSO HAVE AN ET WEATHER BASED CONTROLLER AND BE DESIGNED AND INSTALLED BY A LICENSED IRRIGATOR.

MAINTENANCE REQUIREMENTS: VEGETATION SHOULD BE INSPECTED REGULARLY TO ENSURE THAT PLANT MATERIAL IS ESTABLISHING PROPERLY AND REMAINS IN A HEALTHY GROWING CONDITION APPROPRIATE FOR THE SEASON. IF DAMAGED OR REMOVED, PLANTS MUST BE REPLACED BY A SIMILAR VARIETY AND SIZE.

MOWING, TRIMMING, EDGING AND SUPERVISION OF WATER APPLICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER OR OWNER'S REPRESENTATIVE ACCEPTS AND ASSUMES REGULAR

ALL LANDSCAPE AREAS SHOULD BE CLEANED AND KEPT FREE OF TRASH, DEBRIS, WEEDS AND OTHER MATERIAL.

MISCELLANEOUS MATERIALS:

STEEL EDGING SHALL BE 3/16" X 4 X 16' DARK GREEN DURAEDGE STEEL

DECOMPOSED GRANITE SHALL CONSIST OF A NATURAL MIX OF GRANITE AGGREGATE NOT TO EXCEED 1/8" IN DIAMETER AND COMPOSED OF VARIOUS STAGES OF DECOMPOSED EARTH BASE. DG SHALL BE PLACED OVER FILTER FABRIC AT A MINIMUM OF 3" DEPTH.

QTY	LABEL	COMMON NAME	SCIENTIFIC NAME	SIZE	NOTES
		SHADE TREES			
3	CP	Chinese Pistache	Pistacia chinensis	3.5" cal.	12' ht., 4' spread, matching
3	LE	Lacebark Elm	Ulmus parvifolia 'Sempervirens'	3.5" cal.	12' ht., 4' spread
4 SO	so	Shumard Oak	Quercus shumardii	3.5" cal.	12' ht., 5' spread
		ORNAMENTAL TREE			
4	CM	Crepe Myrtle 'Watermelon Red'	Lagerstromia 'Watermelon Red'	30 gal.	8' ht. 3' spread, matching
6	6 YH	Yaupon Holly (Tree Form)	Ilex vomitoria	6' ht.	4' spread min. matching
		SHRUBS			
32	AS	Autumn Sage	Salvia greggii	3 gal.	full, 24" o.c.
34	DBH	Dwarf Burford Holly	llex cornuta ' Burford Nana'	5 gal.	full, 20" spread, 36" o.c.
28	DY	Dwarf Yaupon Holly	Ilex vomitoria 'Condeaux'	5 gal.	full, 24" sprd, 30" o.c.
69	MS	Morning Light Miscanthus	Miscanthus sinensis 'Morning Light'	5 gal.	full, 20" spread, 36" o.c.
15	RY	Red Yucca	Hesperaloe parvifolia	5 gal.	full, 24" sprd, 30" o.c.
18	SY	Softleaf Yucca	Yucca recurvifolia	5 gal.	full, 30" o.c.
25	TS	Texas Sage 'Green Cloud'	Leucophyllum frutescens 'Green Cloud'	5 gal.	full, 24" sprd, 36" o.c.
		GROUNDCOVER/VINES/GR	RASS		
		5	0 1 1 1 1		

Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. Trees shall have a strong central leader and be of matching specimens. All plant material shall meet or exceed remarks as indicated.

Cynodon dactylon

Cynodon dactylon

GRAPHIC SCALE

Bermuda Hydromulch

Bermuda Solid Sod

Sheet Title:

Drawn By: AWR

Checked By: AWR

Issue Date: 9.1.17

PR

LANDSCAPE PLAN EXHIBIT D

Sheet Number:

PAGE 1 OF 2

1.1 QUALIFICATIONS OF THE LANDSCAPE CONTRACTOR.

A. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE

1.2 REFERENCE DOCUMENTS

- A. REFER TO LANDSCAPE PLANS, NOTES, AND DETAILS FOR ADDITIONAL REQUIREMENTS 1.3 SCOPE OF WORK / DESCRIPTION OF WORK
- A. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT LICENSES. TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
- B. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL. STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS
- C. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START
- D. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY TO PROVIDE ALL WORK, COMPLETE IN PLACE AS SHOWN AND SPECIFIED. WORK SHOULD INCLUDE:
- E. PLANTING OF TREES, SHRUBS AND GRASSES
- B. BED PREPARATION AND FERTILIZATION C. WATER AND MAINTENANCE UNTIL FINAL ACCEPTANCE

D. WORK GUARANTEE 1.4 REFERENCES

- A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z60.1 NURSERY
- B. TEXAS STATE DEPARTMENT OF AGRICULTURE
- C. TEXAS ASSOCIATION OF NURSERYMEN, GRADES AND STANDARDS

1.5 SUBMITTALS

- A. PROVIDE REPRESENTATIVE QUANTITIES OF EACH SOIL, MULCH, BED MIX. GRAVEL AND STONE BEFORE INSTALLATION, SAMPLES TO BE APPROVED BY OWNER'S REPRESENTATIVE BEFORE USE.
- B. SOIL AMENDMENTS AND FERTILIZERS SHOULD BE RESEARCHED AND BASED ON THE SOILS IN THE AREA. C. BEFORE INSTALLATION, SUBMIT DOCUMENTATION THAT PLANT MATERIALS ARE AVAILABLE AND HAVE BEEN RESERVED. FOR ANY PLANT MATERIAL NOT AVAILABLE, SUBMIT REQUEST FOR

1.6 JOB CONDITIONS, DELIVERY, STORAGE AND HANDLING

- A. GENERAL CONTRACTOR TO COMPLETE WORK BEFORE LANDSCAPE CONTRACTOR TO COMMENCE. ALL PLANTING BED AREAS SHALL BE LEFT THREE INCHES BELOW FINAL GRADE OF SIDEWALKS. DRIVES AND CURBS, ALL AREAS TO RECEIVE SOLID SOD SHALL BE LEFT ONE INCH BELOW THE FINAL GRADE OF WALKS, DRIVES AND CURBS CONSTRUCTION DEBRIS SHALL BE REMOVED PRIOR TO LANDSCAPE CONTRACTOR BEGINNING WORK
- B. ALL PACKAGED MATERIALS SHALL BE SEALED IN CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. ALL MATERIALS SHALL BE PROTECTED FROM DETERIORATION IN TRANSIT AND WHILE STORED ON SITE.
- C. DELIVER PLANT MATERIALS IMMEDIATELY PRIOR TO INSTALLATION PLANT MATERIALS SHOULD BE INSTALLED ON THE SAME DAY AS DELIVERED. IF PLANTING CANNOT BE INSTALLED ON THE SAME DAY, PROVIDE ADDITIONAL PROTECTION TO MAINTAIN PLANTS IN A

- HEALTHY, VIGOROUS CONDITION.
- D. STORE PLANT MATERIALS IN SHADE, PROTECT FROM FREEZING AND E. KEEP PLANT MATERIALS MOIST AND PROTECT FROM DAMAGE TO ROOT BALLS, TRUNKS AND BRANCHES.
- MOISTURE RETAINING MATERIAL IF NOT PLANTED WITHIN 24 HOURS OF DELIVERY. G. NOTIFY OWNER'S REPRESENTATIVE OF DELIVERY SCHEDULE 72 HOURS IN ADVANCE.

F. PROTECT ROOT BALLS BY HEELING WITH SAWDUST OR OTHER

H. FOR BALLED AND BURLAPPED PLANTS - DIG AND PREPARE SHIPMENT IN A MANNER THAT WILL NOT DAMAGE ROOTS, BRANCHES, SHAPE, AND FUTURE DEVELOPMENT.

I. CONTAINER GROWN PLANTS - DELIVER PLANTS IN CONTAINER TO

HOLD BALL SHAPE AND PROTECT ROOT MASS. J. STORAGE OF ALL MATERIALS AND EQUIPMENT WILL BE AT THE RISK OF THE LANDSCAPE CONTRACTOR. OWNER WILL NOT BE HELD RESPONSIBLE FOR THEFT OR DAMAGE.

- A. INSTALL TREES, SHRUBS, AND LINER STOCK PLANT MATERIALS PRIOR TO INSTALLATION OF LAWN/SOLID SOD.
- B. WHERE EXISTING TURF AREAS ARE BEING CONVERTED TO PLANTING BEDS. THE TURF SHALL BE CHEMICALLY ERADICATED TO MINIMIZE RE-GROWTH IN THE FUTURE. AREAS SHALL BE PROPERLY PREPARED

WITH AMENDED ORGANIC MATTER. 1.8 WARRANTIES PERIOD, PLANT GUARANTEE, REPLACEMENTS

- A. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.
- B. FURNISH WRITTEN WARRANTY THAT PLANT MATERIALS WILL BE IN A HEALTHY, VIGOROUS GROWING CONDITION FOR ONE YEAR (TWELVE MONTHS) AFTER FINAL ACCEPTANCE. DAMAGE DUE TO ACTS OF GOD, VANDALISM, OR NEGLIGENCE BY OWNER IS EXCLUDED.
- C. REPLACE DEAD, UNHEALTHY, AND UNSIGHTLY PLANT MATERIAL WITHIN WARRANTY PERIOD UPON NOTIFICATION BY OWNER OR OWNER'S REPRESENTATIVE. PLANTS USED FOR REPLACEMENT SHALL BE OF THE SAME SIZE AND KIND AS THOSE ORIGINALLY PLANTED OR SPECIFIED.
- D. THE OWNER AGREES THAT FOR THE ONE YEAR WARRANTY PERIOD TO BE EFFECTIVE, HE WILL WATER PLANTS AT LEAST TWICE A WEEK
- E. NOTIFY OWNER OR OWNER'S REPRESENTATIVE SEVEN DAYS PRIOR TO THE EXPIRATION OF THE WARRANTY PERIOD.
- A. REMOVE DEAD, UNHEALTHY AND UNSIGHTLY PLANTS
- B. REMOVE GUYING AND STAKING MATERIALS.

1.9 MAINTENANCE

- A. MAINTAIN PLANT LIFE AND PLANTING BEDS IMMEDIATELY AFTER PLACEMENT AND FOR MINIMUM 30 DAYS AFTER FINAL ACCEPTANCE. B. ALL LANDSCAPE MUST BE MAINTAINED AND GRASS MOWED/EDGED ON A WEEKLY SCHEDULE UNTIL ACCEPTANCE BY OWNER.
- C. REPLACE DEAD OR DYING PLANTS WITH PLANTS OF SAME SIZE AND
- D. REMOVE TRASH, DEBRIS, AND LITTER. WATER, PRUNE, RESTAKE TREES, FERTILIZE, WEED AND APPLY HERBICIDES AND FUNGICIDES
- E. REMOVE CLIPPINGS AND DEBRIS FROM SITE PROMPTLY. F. COORDINATE WITH OPERATION OF IRRIGATION SYSTEM TO ENSURE THAT PLANTS ARE ADEQUATELY WATERED. HAND WATER AREAS
- NOT RECEIVING ADEQUATE WATER FROM AN IRRIGATION SYSTEM. G. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN ACCORDANCE TO THE MAINTENANCE SERVICE TO ENSURE THE SYSTEM IS IN PROPER WORKING ORDER WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER
- CONSERVATION. H. RESET SETTLED PLANTS

- I. REAPPLY MULCH TO BARE AND THIN AREAS.
- J. SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER.
- K. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR: a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE
- PRIOR TO FINAL ACCEPTANCE. b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
- c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED

REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL

TURF SHALL BE NEATLY MOWED. 1.10 QUALITY ASSURANCE

- A. COMPLY WITH ALL FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
- B. EMPLOY PERSONNEL EXPERIENCED AND FAMILIAR WITH THE REQUIRED WORK AND SUPERVISION BY A FOREMAN. C. DO NOT MAKE PLANT MATERIAL SUBSTITUTIONS. IF THE LANDSCAPE
- MATERIAL SPECIFIED IS NOT READILY AVAILABLE, SUBMIT PROOF TO LANDSCAPE ARCHITECT ALONG WITH THE PROPOSED MATERIAL TO BE USED IN LIEU OF THE SPECIFIED PLANT
- D. OWNER'S REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AND RETAINS THE RIGHT TO INSPECT MATERIALS UPON ARRIVAL TO THE SITE AND DURING INSTALLATION. THE OWNER'S REPRESENTATIVE MAY ALSO REJECT ANY MATERIALS HE/SHE FEELS TO BE UNSATISFACTORY OR DEFECTIVE DURING THE WORK PROCESS. ALL PLANTS DAMAGED IN TRANSIT OR AT THE JOB SITE SHALL BE REJECTED.

PART 2 - PRODUCTS

- 2.1 PLANT MATERIALS A. ALL PLANTS SHALL BE CERTIFIED IN ACCORDANCE THE AMERICAN STANDARD FOR NURSERY STOCK.
- B. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS. C. PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED, EXCEPT THE PLANTS LARGER THAN THOSE SPECIFIED MAY BE USED.

USE OF LARGER PLANTS SHALL NOT INCREASE THE CONTRACT

- D. WHERE MATERIALS ARE PLANTED IN MASSES, PROVIDE PLANTS OF UNIFORM SIZE.
- E. PLANT SCHEDULE ON DRAWING IS FOR CONTRACTOR'S INFORMATION ONLY AND NO GUARANTEE IS EXPRESSED OR IMPLIED THAT QUANTITIES THEREIN ARE CORRECT. THE CONTRACTOR SHALL ENSURE THAT ALL PLANT MATERIALS SHOWN ON THE DRAWINGS
- ARE INCLUDED IN HIS OR HER BID. F. SHALL BE FREE OF DISEASE, INSECT INFESTATION, DEFECTS INCLUDING WEAK OR BROKEN LIMBS, CROTCHES, AND DAMAGED TRUNKS, ROOTS OR LEAVES, SUN SCALD, FRESH BARK ABRASIONS, EXCESSIVE ABRASIONS, OBJECTIONABLE DISFIGUREMENT, INSECT
- G. ALL PLANTS SHALL EXHIBIT NORMAL GROWTH HABITS, VIGOROUS, HEALTHY, FULL, WELL BRANCHES, WELL ROOTED, PROPORTIONATE AND SYMMETRICAL. H. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED, FIBROUS
- ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
- I. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE SHALL BE IMMEDIATELY

- REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE SHALL BE
- THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL. J. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING
- K. TREE TRUNKS TO BE STURDY, EXHIBIT HARDENED SYSTEMS AND VIGOROUS AND FIBROUS ROOT SYSTEMS, NOT ROOT OR POT L. TREES WITH DAMAGED OR CROOKED LEADERS, BARK ABRASIONS,
- SUNSCALD, DISFIGURING KNOTS, OR\INSECT DAMAGE WILL BE M. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR
- TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER. AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER
- N. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL.

O. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON

TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN

COMPLETELY COVERED, SHALL BE REJECTED. P. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.

2.2 ACCESSORIES/MISCELLANEOUS MATERIALS

- A. MULCH DOUBLE SHREDDED HARDWOOD MULCH, PARTIALLY DECOMPOSED BY LIVING EARTH TECHNOLOGIES OR APPROVED SUBSTITUTE. MULCH SHOULD BE FREE OF STICKS, STONES, CLAY, GROWTH AND GERMINATION INHIBITING INGREDIENTS.
- B. FERTILIZER COMMERCIAL FERTILIZER CONTAINING 10-20-10 OR
- C. SOIL PREPARATION SHALL BE FERTILE, LOAMY SOIL. ORGANIC MATTER SHALL ENCOMPASS BETWEEN 3% AND 10% OF THE TOTAL DRY WEIGHT, SOIL SHALL BE FREE FROM SUBSOIL, REFUSE, ROOTS. HEAVY OR STIFF CLAY, STONES LARGER THAN 1", NOXIOUS WEEDS STICKS, BRUSH, LITTER AND OTHER SUBSTANCES, IT SHOULD BE SUITABLE FOR THE GERMINATION OF SEEDS AND THE SUPPORT OF VEGETATIVE GROWTH. THE PH VALUE SHOULD BE BETWEEN 4 AND 7.

APPROXIMATE PARTICLE DISTRIBUTION FOR TOPSOIL

BETWEEN 15% AND 25% BETWEEN 15% AND 25% SAND LESS THAN 50%

GRAVEL LESS THAN 10%

D. EXISTING TOPSOIL - MAY BE USED IF IT MEETS THE REQUIREMENTS FOR THE IMPORTED TOPSOIL OR IF APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE. TOPSOIL SHALL NOT BE STRIPPED, TRANSPORTED OR GRADED IF MOISTURE CONTENT EXCEEDS FIELD CAPACITY. TOPSOIL STOCKPILES SHALL BE

PROTECTED FROM EROSION OR CONTAMINATION.

- E. ALL NEW TURF AREAS LOCATED ON THE FRONT, SIDES, REAR, AND INSIDE THE FIRE LANE SHALL BE SODDED AND SHALL BE AMENDED WITH QUALITY TOPSOIL AT A MINIMUM DEPTH OF FOUR INCHES.
- F. STEEL EDGING SHALL BE 3/16" X 4" X 16" DARK GREEN LANDSCAPE
- G. TREE STAKING TREE STAKING SOLUTIONS OR APPROVED SUBSTITUTE; REFER TO DETAILS.
- H. FILTER FABRIC MIRAFI 1405 BY MIRAFI INC. OR APPROVED I. SAND - UNIFORMLY GRADED, WASHED, CLEAN, BANK RUN SAND.

- J. DECOMPOSED GRANITE BASE MATERIAL OF NATURAL MATERIAL MIX OF GRANITE AGGREGATE NOT TO EXCEED 1/8" IN DIAMETER.
- K. RIVER ROCK LOCALLY ARIZONA RIVER ROCK BETWEEN 2"-4" IN
- L. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

PART 3 - EXECUTION

- A. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST. B. SOIL TESTING:
- A. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, PH. ORGANIC MATTER CONTENT SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT. EACH SAMPLE SUBMITTED SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL
- B. CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
- C. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): GENERAL SOIL PREPARATION AND BACKFILL MIXES. PRE-PLANT FERTILIZER APPLICATIONS. AND ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
- C. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE
- D. IF WEEDS ARE GROWING IN PLANTING AREAS, APPLY HERBICIDE RECOMMENDED BY MANUFACTURER AND APPLIED BY AN APPROVED LICENSED APPLICATOR. ALLOW WEEDS TO DIE, AND THEN GRUB OUT ROOTS TO A MINIMUM OF 1/2 INCH DEPTH
- E. PREPARE NEW PLANTING BEDS BY TILLING EXISTING SOIL TO A DEPTH OF SIX INCHES PRIOR TO PLACING COMPOST AND FERTILIZER. ADD SIX INCHES OF COMPOSE AND TILL INTO A DEPTH OF SIX INCHES OF THE TOPSOIL.
- F. POSITION TREES AND SHRUBS AS DESIGNED ON PLAN. OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO PROCEEDING. G. ALL PLANTING AREAS SHALL RECEIVE A MINIMUM OF 2 INCH LAYER OF MULCH (SETTLED THICKNESS).

3.2 EXCAVATING

- A. EXCAVATE PITS FOR PLANTING. TREE PITS SHALL BE LARGE ENOUGH TO PERMIT THE HANDLING OF THE ROOT BALL WITHOUT DAMAGE TO THE ROOTS. TREES SHALL BE PLANTED AT A DEPTH THAT WHEN SETTLED. THE CROWN OF THE PLANT SHALL BEAR THE SAME RELATIONSHIP TO THE FINISH GRADE AS IT DID TO THE SOIL SURFACE IN ORIGINAL PLACE OF GROWTH.
- B. TREE PITS PERCOLATION TEST: FILL PIT WITH WATER AND ALLOW TO STAND FOR 24 HOURS. IF PIT DOES NOT DRAIN, THE TREE NEEDS TO BE MOVED TO ANOTHER LOCATION OR HAVE DRAINAGE ADDED.
- C. SHRUB AND TREE PITS SHALL BE NO LESS THAN 24" WIDER THAN THE ROOT BALL AND 6" DEEPER THAN ITS VERTICAL DIMENSION. HOLES SHOULD BE ROUGH, NOT SMOOTH OR GLAZED.

- A. REMOVE NURSERY TAGS AND STAKES FROM ALL PLANTS
- B. REMOVE CONTAINERS WITHOUT DAMAGE TO ROOTS. C. REMOVE BOTTOM OF PLANT BOXES PRIOR TO PLACING PLANTS. REMOVE SIDES AFTER PLACEMENT AND PARTIAL BACKFILLING.
- D. REMOVE UPPER THIRD OF BURLAP FROM BALLED AND BURLAPPED TREES AFTER PLACEMENT

- E. PLACE PLANT UPRIGHT AND PLUMB IN CENTER OF HOLE. ORIENT PLANTS FOR BEST APPEARANCE.
- F. SET PLANTS WITH TOP OF BOOT BALLS FLUSH WITH ADJACENT GRADE AFTER COMPACTION. ADJUST PLANT HEIGHT IF SETTLEMENT
- OCCURS AFTER BACKFILLING G. BACKFILL HOLES IMMEDIATELY AFTER PLANT IS PLACED USING
- BACKFILL MIX. BACKFILL TO ONE HALF DEPTH, FILL HOLE WITH WATER AND LIGHTLY TAMP SOIL TO REMOVE VOIDS AND AIR
- H. TRIM PLANTS TO REMOVE DEAD AND INJURED BRANCHES ONLY.
- BRACE PLANTS OVER 65 GALLONS IN SIZE. I. MULCH TO THE TOP OF THE ROOT BALL. DO NOT PLANT GRASS ALL THE WAY TO TRUNK OF THE TREE. MULCH WITH AT LEAST 2" OF SPECIFIED MULCH.

J. DO NOT WRAP TREES K. DO NOT OVER PRUNE.

L. BLOCKS OF SOD SHOULD BE LAID JOINT TO JOINT AFTER FERTILIZING THE GROUND FIRST. ROLL GRASS AREAS TO ACHIEVE A SMOOTH, EVEN SURFACE. THE JOINTS BETWEEN BLOCKS SHOULD BE FILLED WITH TOPSOIL AND THEN WATERED THOROUGHLY.

3.4 STEEL EDGING

- A. STEEL EDGING SHALL BE INSTALLED AND ALIGNED AS INDICATED ON PLANS. OWNER'S REPRESENTATIVE TO APPROVE THE STAKED OR PAINTED LOCATION OF STEEL EDGE PRIOR TO INSTALLATION
- B. ALL STEEL EDGING SHALL BE FREE OF BENDS OR KINKS. C. TOP OF EDGING SHALL BE 1/2" MAXIMUM HEIGHT ABOVE FINAL FINISHED GRADE.
- D. STAKES ARE TO BE INSTALLED ON THE PLANTING BED SIDE OF THE EDGING, NOT THE GRASS SIDE.
- E. STEEL EDGING SHALL NOT BE INSTALLED ALONG SIDEWALKS OR

F. EDGING SHOULD BE CUT AT A 45 DEGREE ANGLE WHERE IT MEETS SIDEWALKS OR CURBS.

A. REMOVE CONTAINERS, TRASH, RUBBISH AND EXCESS SOILS FROM

- SITE AS WORK PROGRESSES. B. REPAIR RUTS, HOLES AND SCARES IN GROUND SURFACES.
- C. PREMISES SHALL BE KEPT NEAT AT ALL TIMES AND ORGANIZED. D. ALL PAVED AREAS SHOULD BE CLEANED AT THE END OF EACH

WORK DAY. 3.6 ACCEPTANCE

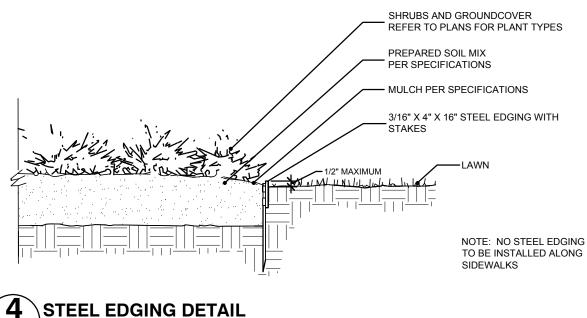
- A. ENSURE THAT WORK IS COMPLETE AND PLANT MATERIALS ARE IN VIGOROUS AND HEALTHY GROWING CONDITION B. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN FREE OF DEBRIS AND TRASH AND
- SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY. C. WHEN/IF THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL
- REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS. D. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME. A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER.

AND THE MAINTENANCE AND GUARANTEE PERIODS WILL

SHRUBS AND GROUNDCOVER REFER TO PLANS FOR PLANT TYPES PREPARED SOIL MIX PER SPECIFICATIONS

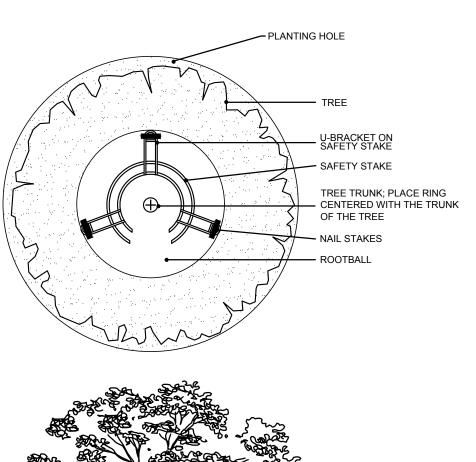
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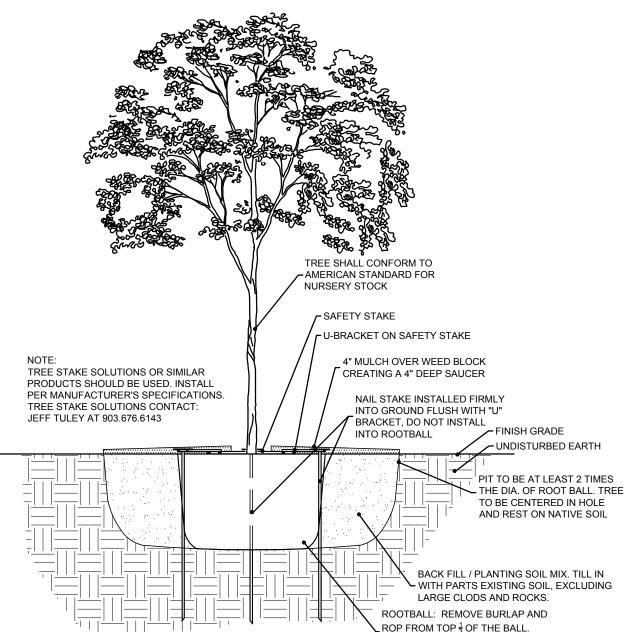
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STEEL EDGING PLANTING AREA, REFERENCE LANDSCAPE PLAN ENSURE PROPER DRAINAGE DECOMPOSED GRANITE RIVER ROCK FILTER FABRIC WRAP UP AT EDGING, TYP. COMPACTED SUBGRADE DECOMPOSED GRANITE AND/OF RIVER ROCK TO BE COMPACTED TO A 3" DEPTH

\DECOMPOSED GRANITE / RIVER ROCK





PLACE TOP OF ROOT BALL MIN. 1"

MAX. 2" ABOVE GRADE

TREE PLANTING

SHRUBS OR GROUNDCOVER AS SPECIFIED ON PLAN TOP OF MULCH SHOULD BI AT MINIMUM, 1/2" BELOW LAYER OF MULCH - SETTLED THICKNESS SHOULD BE 2" MIN. CURB OR SIDEWALK. NO STEEL EDGING ROOT BALL, DO NOT ALONG WALK, TY DISTURB WEED BARRIER FABRIC PLANTING SOIL MIX. TILL IN WITH PARTS EXISTING SOIL. EXCLUDING LARGE CLODS AND ROCKS. UNDISTURBED SUBGRADE / NATIVE SOIL PLAN FOR SPACING **SHRUB PLANTING**

FOR SHRUBS & GROUNDCOVERS ALONG BACK OF CURB TO ALLOW FOR CAR OVERHANG

SHRUB SPACING AND PLANTING AT B.O.C.

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EXHIBIT

AND DETAILS

Sheet Number