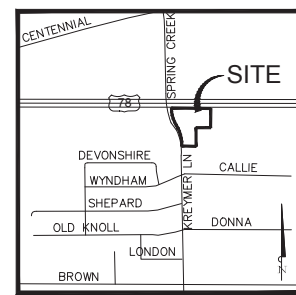
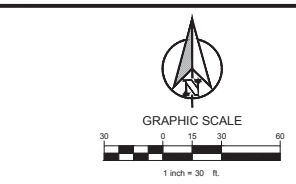
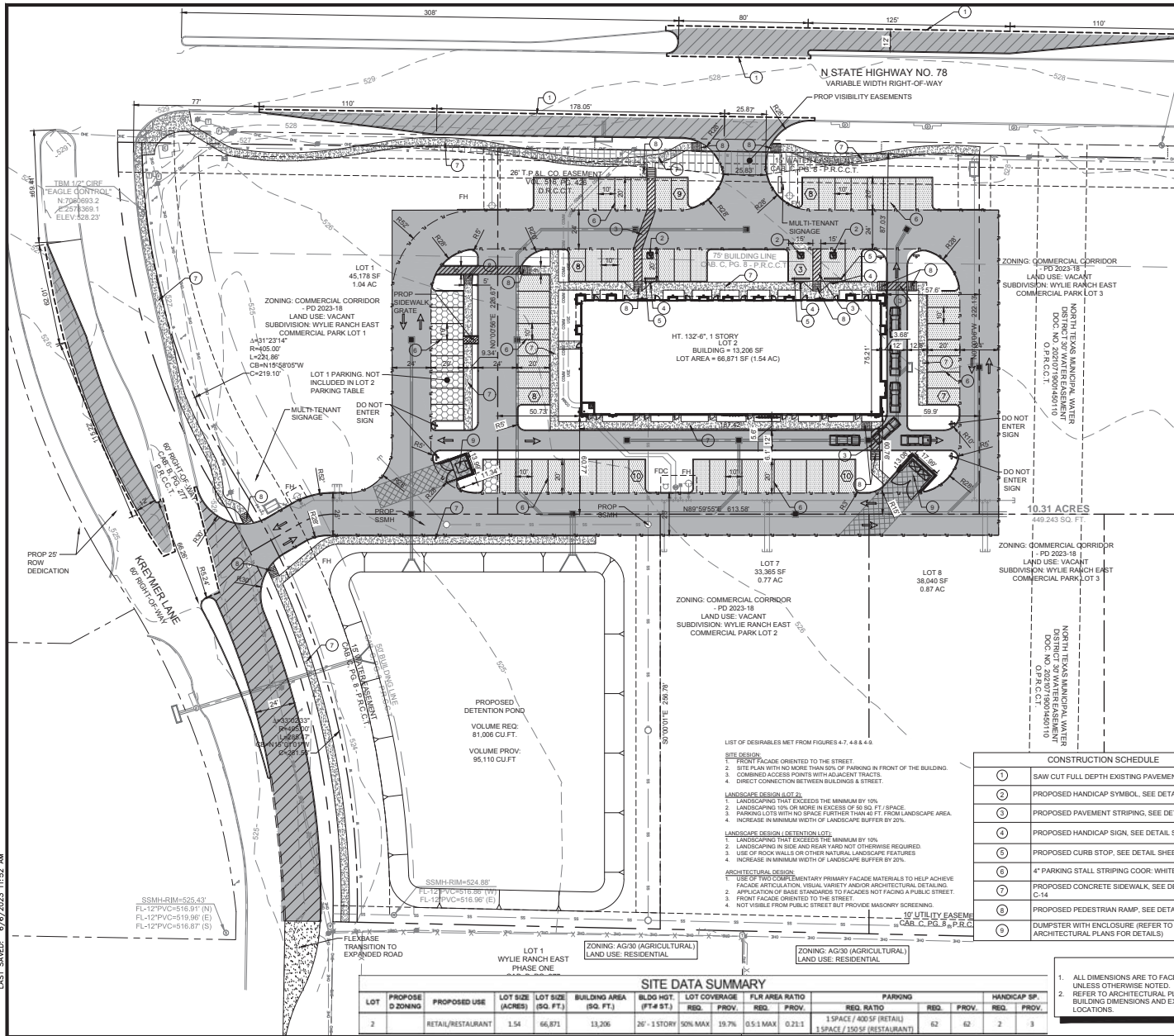


DESIGNED BY: REGGIE SMITH
DATE: 6/1/2023 2:58 PM
DRAWN BY: JESSICA L. SMITH
DATE: 6/1/2023 11:52 AM
LAST SAVED: 6/1/2023 11:52 AM
ID: STUDIO WYLLIE RETAIL CADD SHEETS.PH.1 CIVILS.SP.1 SITE PLAN.WMG



FLOODPLAIN NOTE
N.T.S.
ACCORDING TO MAP NO. 488300001 DATED 08/12/2009 OF THE NATIONAL FLOOD INSURANCE PROGRAM MAP, FLOOD INSURANCE RATE MAP OF COLLIN COUNTY, TEXAS, FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, THIS PROPERTY IS WITHIN NON-SHADED ZONE X AREAS DETERMINED TO BE OUTSIDE OF THE 1% ANNUAL CHANCE FLOODPLAIN. IF THIS SITE IS NOT WITHIN AN IDENTIFIED SPECIAL FLOOD HAZARD AREA, THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

LEGEND	
	PARKING DEDICATED FOR LOT 1
	STANDARD DUTY PARKING CONCRETE PAVEMENT, SEE DETAIL SHEET C-14
	HEAVY DUTY FIRE LANE CONCRETE, SEE DETAIL SHEET C-14
	DUMPSTER AREA CONCRETE PAVEMENT, SEE DETAIL SHEET C-14
	RIGHT-OF-WAY PAVING
	SIDEWALK CONCRETE PAVEMENT, SEE DETAIL SHEET C-14
	PROPOSED CONCRETE CURB AND GUTTER, SEE DETAIL SHEET C-14
	PARKING COUNT
	FULL-DEPTH SAWCUT
	PROPOSED FIRE LANE STRIPPING

WYLLIE RETAIL	
CASE #:	
OWNER:	
SCSD FINNELL, LTD 14114 DALLAS PARKWAY DALLAS, TX 75254 PH: 214.483.0400	
APPLICANT:	
CLAYMOORE ENGINEERING, INC. 1803 CENTRAL DRIVE, SUITE #406 BEDFORD, TX 76021 PH: 817.281.0572	
LEGAL DESCRIPTION:	
WYLLIE RANCH EAST COMMERCIAL PARK (CIVIL) LOT 1 AND 2	
CITY:	STATE:
WYLLIE	TEXAS
SURVEY:	ABSTRACT NO:
FRANCISCO DE LA PENA	688

CLAYMOORE ENGINEERING
1803 CENTRAL DRIVE, SUITE #406
BEDFORD, TX 76021
PH: 817.281.0572

PRELIMINARY
FOR REVIEW ONLY
Not for construction purposes.
CLAYMOORE ENGINEERING
ENGINEERING AND PLANNING
DESIGNED BY: DREW DONOSKY
DATE: 5/8/2023

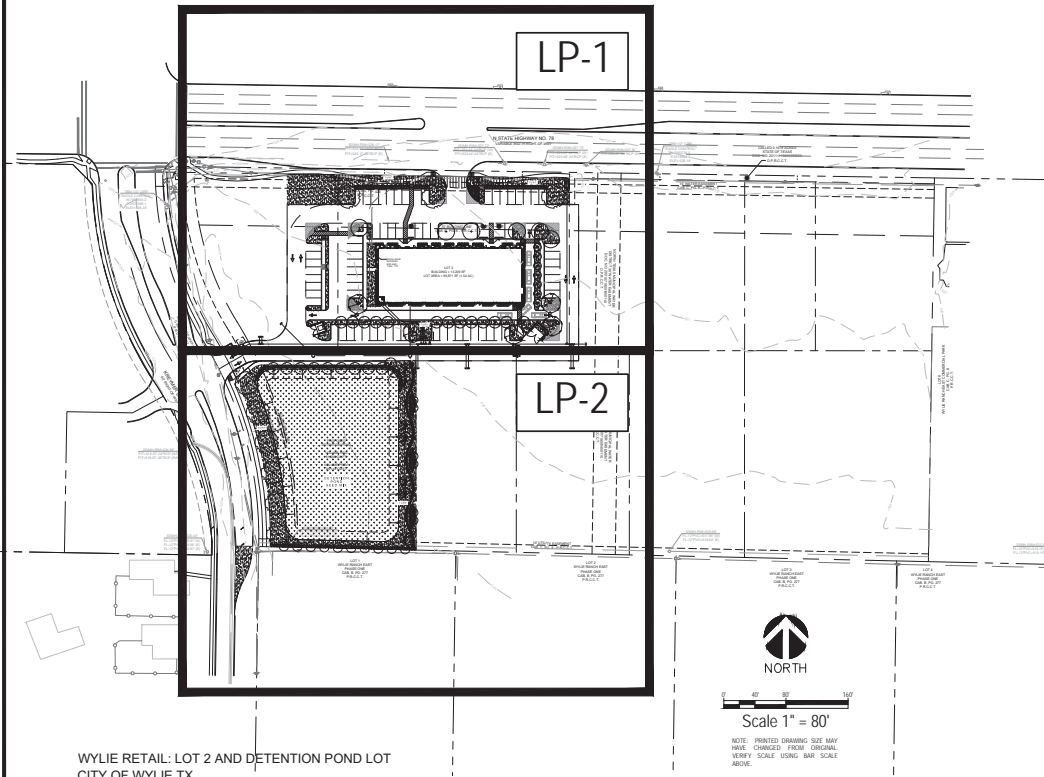
WYLLIE RETAIL
STATE HIGHWAY 78
WYLLIE, TEXAS

DATE	DESCRIPTION
5/8/2023	DESIGNED
5/8/2023	DRAWN
5/8/2023	CHECKED
5/8/2023	DATE

SITE PLAN	
SHEET	
SP-1	
FIG. NO.	0022-040

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND EXACT DOOR LOCATIONS.

PLOTTED BY: SHARON STACHECKI
 6/7/2023 12:37 PM
 C:\USERS\GUSTA EDO DROPBOX\EDG - SHARED\2023\WYLE RETAIL - WYLE TX\WYLE RETAIL-LOT 2 AND DETENTION POND LOT 2.DWG
 LOCATION: 6/7/2023 12:37 PM
 LAST SAVED: 6/7/2023 12:37 PM



WYLE RETAIL: LOT 2 AND DETENTION POND LOT
 CITY OF WYLE TX
 ZONING: CC (COMMERCIAL CORRIDOR)

LANDSCAPE REQUIREMENTS

DETENTION POND LOT:

SITE AREA: 52,237 SF (1.12 AC)

LANDSCAPING IN REQUIRED YARDS:

BASE STANDARD

- LANDSCAPE AREA: 20% (22 AC) REQ'D PROVIDED: 100% (1.12 AC)
- FRONT YARD LANDSCAPE: (50% @ 10' WIDE) REQ'D AND PROVIDED
- SIDE/REAR YARDS NEXT TO RESIDENTIAL: REQ'D AND PROVIDED (SOUTH BNDY)

DESIRABLE

- PROVIDED: LANDSCAPING THAT EXCEEDS MINIMUM BY 10% (1)
- PROVIDED: LANDSCAPING IN SIDE AND REAR YARD NOT OTHERWISE REQUIRED. (2)

VISUAL SCREENING (ADJACENT TO RES. SOUTH PROPERTY LINE (187 LF)

- 5 STRIP-W/ CONTINUOUS 3' HT SHRUBS + 1 FLOWERING TREE/20 LF PROVIDED: 10 TREES
- TREES: 10 FLOWERING TREES REQ'D PROVIDED: 10 TREES
- SHRUBS: CONTINUOUS 3' HT HEDGE PROVIDED AS REQ'D

STREET FRONTAGE

- BASE STANDARD: 10' WIDE LANDSCAPED BUFFER + ONE (1" CAL) TREE PER 30-40 LF PROVIDED: 8 TREES
- KREMYER LANE (245 LF): 6 TREES REQ'D PROVIDED: 8 TREES

DESIRABLE

- PROVIDED: USE OF ROCK WALLS OR OTHER NATURAL LANDSCAPE FEATURES. (3)
- PROVIDED: INCREASE IN MINIMUM WIDTH OF LANDSCAPE BUFFER BY 20% (+ 15' WIDE) (4)

LOT 2:

SITE AREA: 66,871 SF (1.5 AC)

LANDSCAPING IN REQUIRED YARDS:

BASE STANDARD

- LANDSCAPE AREA: 20% (30 AC) REQ'D PROVIDED: 20% (30 AC)
- FRONT YARD LANDSCAPE: (50% @ 10' WIDE) REQ'D AND PROVIDED
- SIDE/REAR YARDS NEXT TO RESIDENTIAL: NONE REQUIRED

DESIRABLE

- PROVIDED: LANDSCAPING IN SIDE AND REAR YARD NOT OTHERWISE REQUIRED. (1)

LANDSCAPING OF PARKING LOTS (62 TOTAL SPACES):

BASE STANDARD

- 50 SF OF LANDSCAPED SPACE: 3,100 SF REQ'D PROVIDED: XXXX SF
- NO PARKING SPACE FURTHER THAN 60' FROM LANDSCAPED AREA PROVIDED
- ROWS 12+ SPACES OR LONGER SHALL HAVE LANDSCAPED ISLANDS AT END PROVIDED
- ALL PARKING ROWS SHALL HAVE LANDSCAPED AREAS AT LEAST EVERY 12 SPACES PROVIDED

DESIRABLE

- PROVIDED: LANDSCAPING 10% OR MORE IN EXCESS OF 50 SF/SPACE (53% EXCESS) (2)
- PROVIDED: PARKING LOTS WITH NO SPACE FURTHER THAN 40 FEET FROM A LANDSCAPED AREA. (3)

STREET FRONTAGES

- BASE STANDARD: 10' WIDE LANDSCAPED BUFFER + ONE (1" CAL) TREE PER 30-40 LF PROVIDED: 8 TREES
- STATE HWY 78 (298 LF): 7.5 TREES REQ'D PROVIDED: 8 TREES

DESIRABLE

- PROVIDED: INCREASE IN MINIMUM WIDTH OF LANDSCAPE BUFFER BY 20% (+ 15' WIDE) (4)

PLANTING SCHEDULE

LARGE TREES

9	MG	Magnolia grandiflora	Magnolia	1.5" cal., 6'-8' ht.	Frontage tree
5	QT	Quercus texana	Red Oak	1.5" cal., 6'-8' ht.	3 stem min.
6	TD	Taxodium distichum	Bald Cypress	1.5" cal., 6'-8' ht.	Frontage tree

SMALL TREES

14	CL	Chilopsis linearis 'Bubba'	Bubba Desert Willow	3' ht.	Multi-stem Specimen, 3-5 stems
7	CT	Cercis canadensis var. texensis	Texas Redbud	1.5" cal.	3 stem min.
10	IV	Ilex vomitoria 'Pride of Houston'	Yaupon Holly	2" cal.	Full to ground, 3-5 Canes
24	LM	Lagerstroemia l. x l. 'Muskogee'	Muskogee Crape Myrtle	3" cal.	3-5 Canes

NOTE: ALL TREES SHALL BE CONTAINER GROWN, CONTAINER SIZE AS APPROPRIATE FOR THE CALIPER SPECIFIED. SEE SPECIFICATION FOR PROPER ROOT QUALITY.

SHRUBS

34	GA	Abelia Grandiflora	Glossy Abelia	3 gal.	Spaced 60" O.C.
168	IB	Ilex cornuta 'Burford'	Burford Holly	3 gal.	Spaced 48" O.C.
64	IV	Ilex vomitoria nana	Dwarf Yaupon Holly	3 gal.	Space 3' O.C. Shear to hedge
83	LP	Leucophyllum frutescens	Texas Sage	3 gal.	Spaced Per Plan
28	NH	Nandina domestica 'Harbour Dwarf'	Harbour Dwarf Heavenly Bamboo	3 gal.	Spaced 24" O.C.

GROUNDCOVER, PERENNIALS AND ORNAMENTAL GRASSES

284	LA	Liriope muscari	Aztec grass	4" pot	Spaced 18" O.C.
120	OJ	Ophiopogon japonicus	Mondo Grass	4" pot	Spaced 12" O.C.

TURF / SEED

--		Cynodon dactylon 'Turfway 419'	Turfway Hybrid Bermuda Grass	Sod	--
--		Seed Mix: 40% Forbs, 60% Grasses/Sedge/Rush	Detention Basin Mix	Seed	--

GENERAL GRADING AND PLANTING NOTES

- BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ AND WILL COMPLY WITH THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL EXISTING ELEVATION EXCEPT WHERE NOTED TO REMAIN.
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF WALCH AS INDICATED ON THE GRADING PLANS).
- BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADIES OF ALL LANDSCAPE AREAS ARE WITHIN +/- 1" OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BEST PRACTICES.
- CONSTRUCT AND MAINTAIN FINISH GRADIES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL POORING SHALL BE REDESIGNED TO RELINE WITH THE SURROUNDING GRADIES AND EXISTING POORING SYSTEMS.
- THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED, BASED ON A SOIL TEST PER SPECIFICATIONS, AND THE FINISH GRADIES TO BE ESTABLISHED.
- ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 2" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER WALCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AS APPROPRIATELY 1" AWAY FROM THE WALKS.
- ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROPRIATELY 1" AWAY FROM THE WALKS.
- SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AGENCY ARE MET BY A MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION MEASURES, ETC.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES, PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITIES AS SHOWN ON THE PLAN FOR BARRIER, SHROUD, OR CALLOUT FOR GROUNDCOVER PATTERNING SHALL TAKE PRECEDENCE.
- NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND PROVIDE AN ALTERNATE.
- THE CONTRACTOR SHALL AT A MINIMUM PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT ALL PLANTS DELIVERED TO THE JOBITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
- THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP ROOT" 2" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARBORCARE, RETAIL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCLOSE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 2" THICK LAYER OF 1/2" SHREDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDING AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO SPOILED GRASS SHALL BE LEFT LAYING ANYWHERE ON THE PROJECT AFTER CONSTRUCTION IS INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

IRRIGATION CONCEPT

- AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.
- THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
- ALL NON TURF PLANTED AREAS SHALL BE DRIP IRRIGATED. SODDED AND SEEDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD COVERAGE.
- ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
- THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM CONTROLLED IRRIGATION CONTROLLERS INCLUDING SENSORY INPUT CAPABILITIES.



WYLE RETAIL: LOT 2 AND
 DETENTION POND
 STATE HIGHWAY 78,
 WYLE, TEXAS

NO.	DATE	REVISION
1	6/7/2023	ISSUED FOR PERMITTING
2	6/7/2023	FOR CONSTRUCTION
3	6/7/2023	FOR CONSTRUCTION
4	6/7/2023	FOR CONSTRUCTION
5	6/7/2023	FOR CONSTRUCTION
6	6/7/2023	FOR CONSTRUCTION
7	6/7/2023	FOR CONSTRUCTION
8	6/7/2023	FOR CONSTRUCTION
9	6/7/2023	FOR CONSTRUCTION
10	6/7/2023	FOR CONSTRUCTION

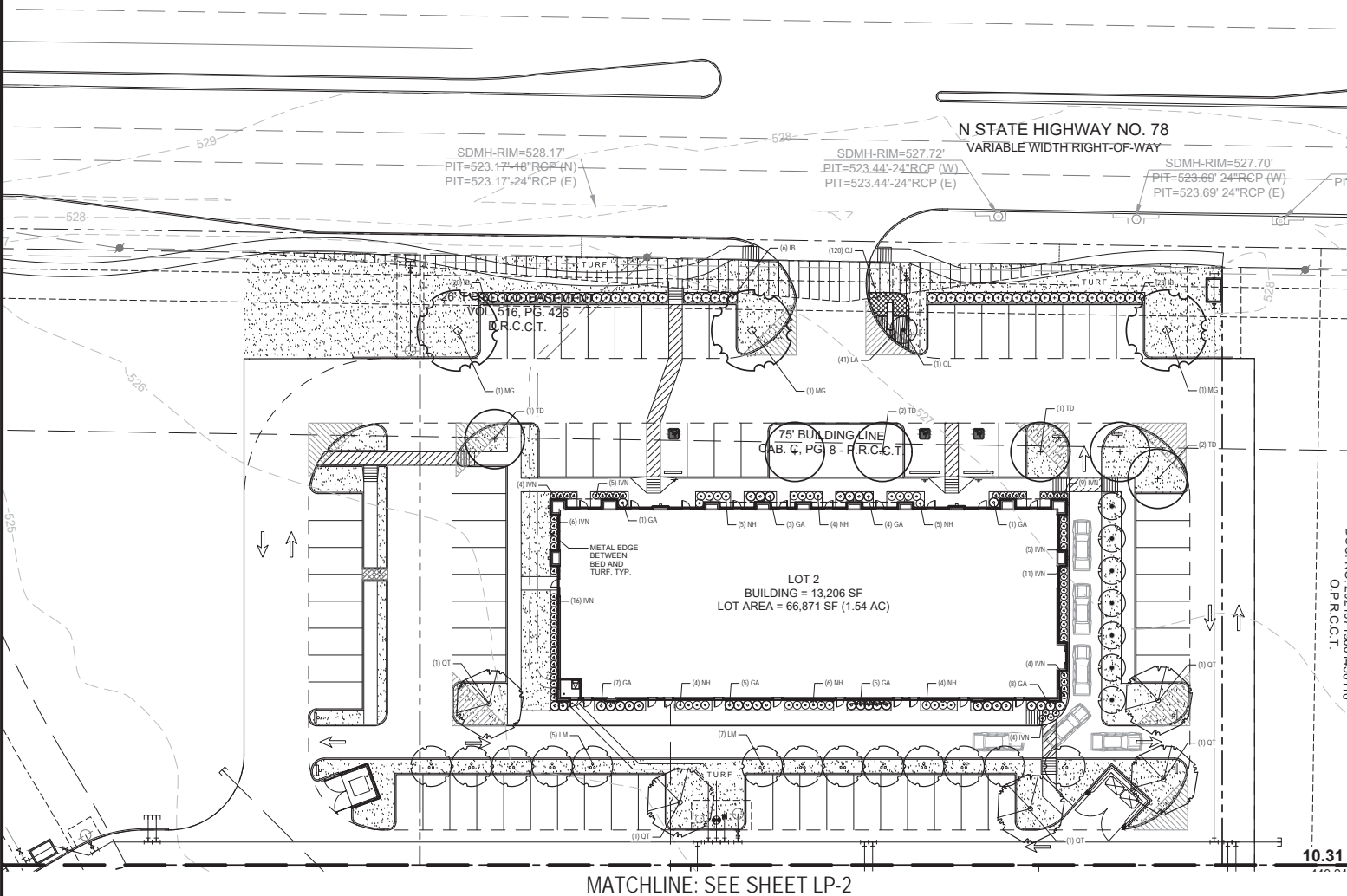
OVERALL LANDSCAPE PLAN

DESIGN: BS
DRAWN: BS
CHECKED: BS
DATE: 6/7/2023

SHEET
LP-0

File No. 2022-042

PLOTTED BY: SHARON STACHECKI
 PLOT DATE: 6/7/2023 12:38 PM
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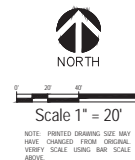


MATCHLINE: SEE SHEET LP-2

N STATE HIGHWAY NO. 78
 VARIABLE WIDTH RIGHT-OF-WAY

DOC. NO. 20210719001450110
 O.P.R.C.T.

10.31 A



SEE SHEET LP-0 FOR
 PLANTING SCHEDULE
 AND LANDSCAPE
 CALCULATIONS



WYLE RETAIL: LOT 2 AND
 DETENTION POND
 STATE HIGHWAY 78,
 WYLE, TEXAS

NO.	DATE	REVISION
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2	6/7/2023	Final Design

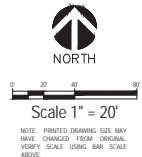
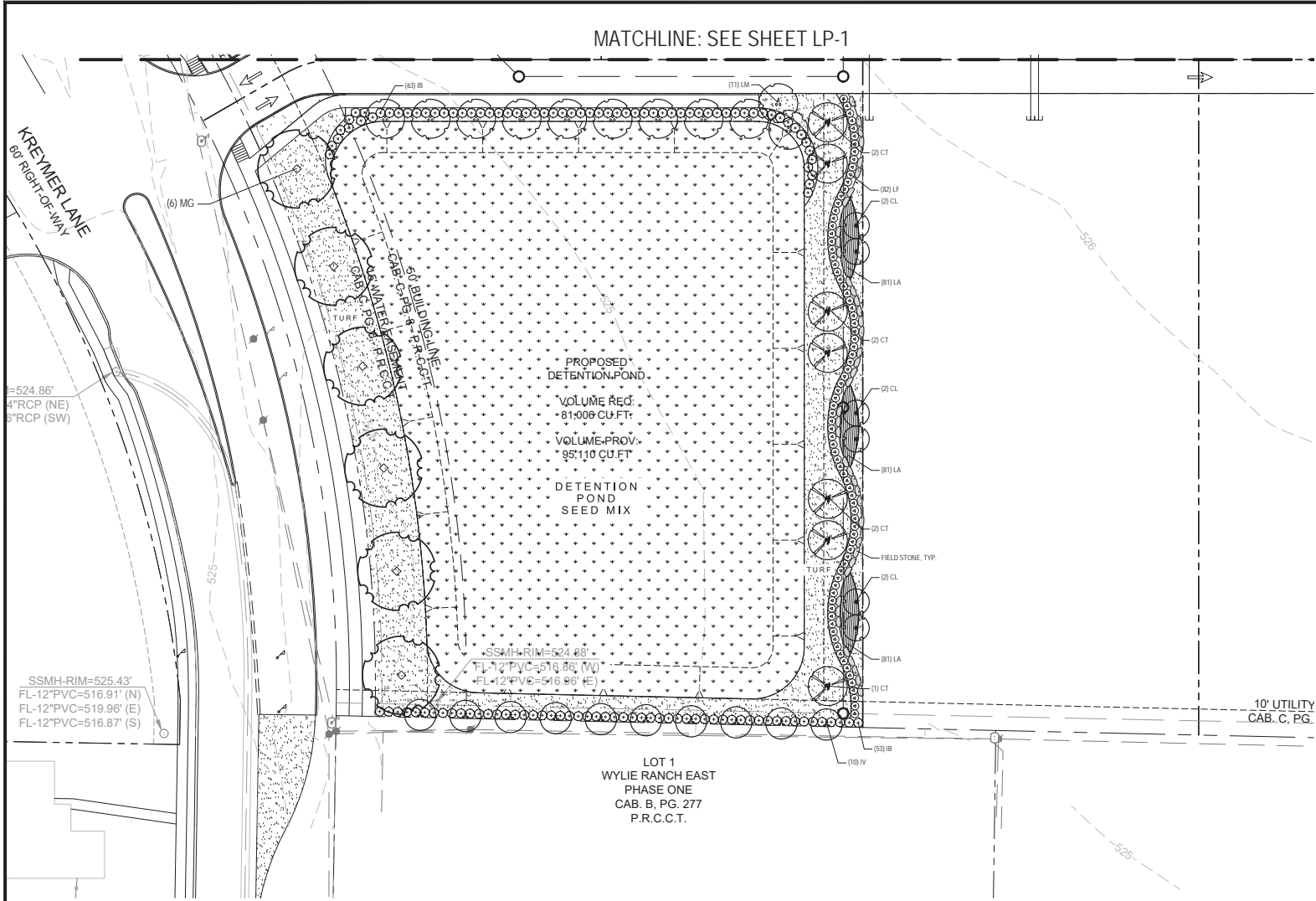
LANDSCAPE PLAN

DESIGN: SS
 CHECKED: SS
 DATE: 6/7/2023

SHEET
 LP-1

File No. 2022-042

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SEE SHEET LP-0 FOR
PLANTING SCHEDULE
AND LANDSCAPE
CALCULATIONS



WYLIE RETAIL: LOT 2 AND
DETENTION POND
STATE HIGHWAY 78,
WYLIE, TEXAS

NO.	DATE	DESCRIPTION
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2	6/7/2023	Final Design

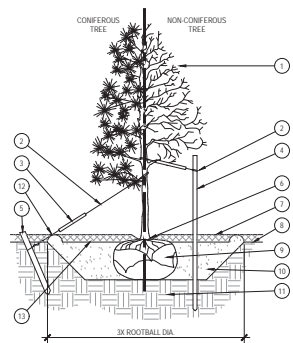
LANDSCAPE PLAN

DESIGN	SS
CHECKED	SSRM
DATE	6/7/2023

SHEET
LP-2

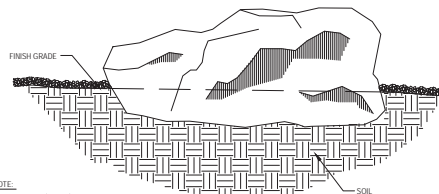
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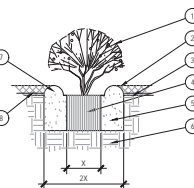
- NOTES:**
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
 2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2" - 4" ABOVE FINISH GRADE.
 3. FOR BAD TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE. CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH MULCH FROM AROUND ROOTBALL AS IS PRACTICAL.
 4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
 5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
 6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

A TREE PLANTING
SCALE: NOT TO SCALE



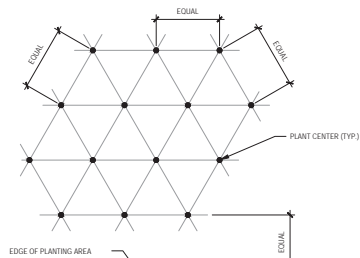
- NOTE:**
1. APPROX. 1/4" (+/- 1/8") OF ROCK SHALL BE BURIED.
 2. SMALL ROCKS SHALL BE APPROXIMATELY 12" W x 18" L x 8" H. ANGULAR MOSS ROCK.
 3. MEDIUM ROCKS SHALL BE APPROXIMATELY 18" W x 24" L x 12" H. ANGULAR MOSS ROCK.
 4. LARGE ROCKS SHALL BE APPROXIMATELY 24" W x 36" L x 18" H. ANGULAR MOSS ROCK.

B BOULDER INSTALLATION
SCALE: NTS



1. SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.
2. MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.
3. FINISH GRADE.
4. ROOT BALL.
5. BACKFILL, AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
6. UNDISTURBED NATIVE SOIL.
7. 3" HIGH EARTHEN WATERING BASIN.
8. WEED FABRIC UNDER MULCH.

C SHRUB AND GROUNDCOVER PLANTING
SCALE: NTS



NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

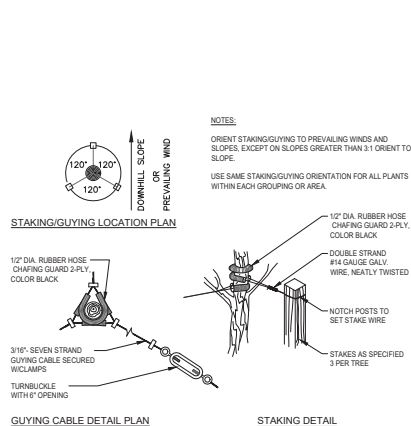
1) STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA:
TOTAL AREA / AREA DIVIDER = TOTAL PLANTS

PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.21	18"	2.25
8"	0.39	24"	3.46
10"	0.60	30"	5.41
12"	0.87	36"	7.79
15"	1.35		

2) STEP 2: SUBTRACT THE ROW (S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA: TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION

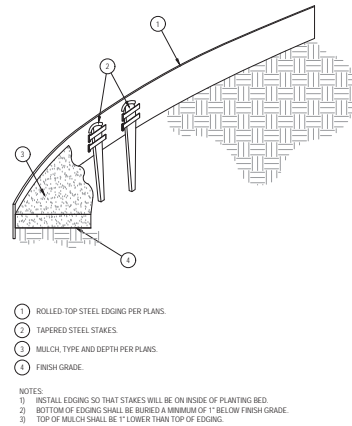
EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER
STEP 1: 100 SF / 7.79 = 51 PLANTS
STEP 2: 51 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL

D PLANT SPACING
SCALE: NTS



- NOTES:**
1. ORIENT STAKING/GUYING TO PREVAILING WINDS AND SLOPES, EXCEPT ON SLOPES GREATER THAN 3:1 ORIENT TO SLOPE.
 2. USE SAME STAKING/GUYING ORIENTATION FOR ALL PLANTS WITHIN EACH GROUPING OR AREA.

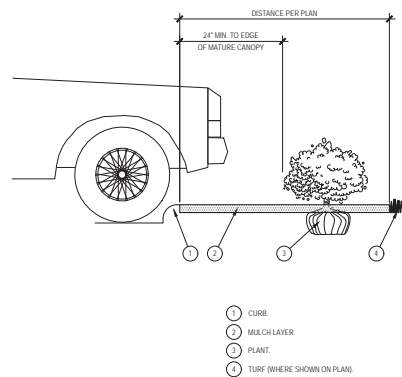
E TREE STAKING AND GUYING
SCALE: NTS



1. ROLLED-TOP STEEL EDGING PER PLANS.
2. TAPERED STEEL STAKES.
3. MULCH, TYPE AND DEPTH PER PLANS.
4. FINISH GRADE.

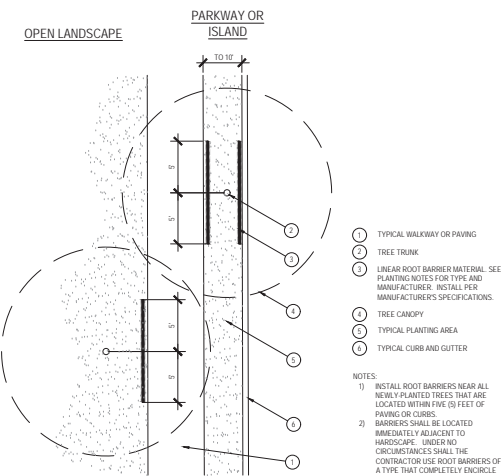
- NOTES:**
1. INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
 2. BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE.
 3. TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

F STEEL EDGING
SCALE: NOT TO SCALE



1. CURB.
2. MULCH LAYER.
3. PLANT.
4. TURF (WHERE SHOWN ON PLAN).

G PLANTING AT PARKING AREA
SCALE: NOT TO SCALE



- NOTES:**
1. INSTALL ROOT BARRIERS NEAR ALL NEWLY PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS.
 2. BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCLOSE THE ROOTBALL.

H ROOT BARRIER - PLAN VIEW
SCALE: NOT TO SCALE



DESIGN: SS
DRAWN: SS
CHECKED: SS
DATE: 5/22/2023

SHEET
LP-3

FIN No. 2022-042



WYLE RETAIL: LOT 2 AND
DETENTION POND
STATE HIGHWAY 78,
WYLE, TEXAS

NO.	DATE	REVISION
1	5/22/2023	Initial Design
2	5/22/2023	Revised Design
3	5/22/2023	Final Design

PLANTING DETAILS

PLOTTED BY: SHARON STACHECKI
 PLOT DATE: 5/22/2023 1:40 PM
 LOCATION: C:\USERS\JAMSTA\ED0 DROFBO\ED0 - SHARED\2023\WYLE RETAIL - WYLE TX\WYLE RETAIL-LOT2.DWG
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PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR

1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE / APPROPRIATE LOCAL JURISDICTION, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATION LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.

B. SCOPE OF WORK

1. 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.
2. 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.
3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.

1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60-1-2014). PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE AND SHALL BE OF A FIRM FORM TYPE FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.
2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NONPORT-WOUND, FREE FROM EXCORTING AND/OR GROWING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS S-HAIRED ROOTS).
3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLEDD-AND-BURLAPPED (BAB), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
4. ANY PLANT DEEMED UNACCEPTABLE BY THE OWNER OR OWNERS 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 BE ADVERSAL, SHOT BE ADVERSAL, PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
5. 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.
6. 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 LARGER THAN FOUR INCHES IN CALIPER.
7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED. THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN LIFTED TO THE SURFACE OF THE SOIL, SHALL BE REJECTED.
9. 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" INCH. EACH Pallet of SOD shall be accompanied BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
10. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL. FREE OF STONES LARGER THAN 3/8 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
11. COMPOST: WOOD-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8, MOISTURE CONTENT 35 TO 50 PERCENT BY WEIGHT, 100-PERCENT PASSING THROUGH 3/8-INCH SEIVE. SOLUBLE SALT CONTENT OF 5 TO 10 DECIGRAMS/LITER, NOT EXCEEDING 0.5 PERCENT NITRAT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
12. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL ANALYST. (SEE BELOW).
13. MULCH: SIZE AND TYPE AS INDICATED ON PLANS. FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
14. TREE STAKING AND CAGING
 1. STAKES: 6" LONG GREEN METAL T-POSTS.
 2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.108 INCH DIAMETER.
 3. STRAP CHAINING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
15. STEEL EDGINGS: PROFESSIONAL STEEL EDGING, 1/4 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN, ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.
16. 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.

METHODS

A. SOIL PREPARATION

1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +0.0' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
2. SOIL TESTINGS
 - a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL TAKEN FROM BETWEEN THE SOIL SURFACE AND 8" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
 - b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ABSORPTION RATIO (SAR) AND BORON CONTENT.
 - c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
 - d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING: AS APPROPRIATE, SOIL PREPARATION AND BACKFILLING, MULCH, PRE-EMERGENT HERBICIDES FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
3. 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 OWNER WITH THE REPORT.
4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
 - a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER OR CROSS-GRIPPING.
 - i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 SF.
 - ii. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 SF.
 - b. TURF: SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-GRIPPING.
 - i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 SF.
 - ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
 - iii. "CLAY BUSTER" OR EQUAL, USE MANUFACTURER'S RECOMMENDED RATE.
 - iv. IRON SULPHATE - 2 LBS. PER CU. YD.

S.F.

5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
 - a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +0.0' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE INFORMATION ON THE INSTRUCTION TO THE CONTRACTOR.
 - b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE GENERAL CONTRACTOR, OWNER, OR OWNER'S REPRESENTATIVE.
 6. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.
6. SUBMITTALS
 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE OWNER OR OWNERS REPRESENTATIVE, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
 2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND SOIL AMENDMENTS FOR SHRUBS AND TURF AREAS). SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREES, EDGING, AND MULCH, AND MANUFACTURER'S REPRESENTATIVE.
 4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
7. GENERAL CONSTRUCTION
 1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
 2. EXCEPT FOR LAMINATED GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
 3. POSITION THE TREES AND SHRUBS IN THEIR INTENDED LOCATION AS PER THE PLAN, NOTIFY THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL POSITIONING OF PLANT MATERIALS.
 4. TRENCING NEAR EXISTING TREES
 - a. EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - b. EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRAIN LINES WITHIN 24 HOURS.
 - d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT SEAL ANY SHORT OR SEVERED ROOTS.
8. TREE PLANTING
 1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL, LESS TWO TO FOUR INCHES.
 2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. HEALTHY STANDING GLAZING DURING THE EXCAVATION OF THE HOLE.
 3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAWK LAYERS OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT TEAR ROOTS OUT OF THE ROOTBALL.
 4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
 5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
 6. TREES SHALL NOT BE STAKED UNLESS THE JURISDICTION OR LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT, SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
 - a. 1-2" TREES (OR #15 GAL. 24" BOX): TWO STAKES PER TREE
 - b. 2-1/2" 4" TREES (OR 36" 48" BOX): THREE STAKES PER TREE
 - c. TREES OVER 4" CALIPER (OR 48" BOX): GUY AS NEEDED
 - d. MULTI-TRUNK TREES: THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
 7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).
 8. FOR TREES IN TURF AREAS, DO NOT PLANT GRASS ALL THE WAY TO THE TRUNK OF THE TREE. LEAVE THE AREA OVER THE ROOT BALL AND INSTALL MULCH SPRINGS PER MANUFACTURER'S DIRECTIONS. BACKFILL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. PALM PLANTING
 1. PALM PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL.
 2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE PALM. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
 3. USE BACKFILL SAND MIXTURE (75% BANK SAND AND 25% EXISTING SOIL) AS THE BACKFILL. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
 4. BACKFILL AROUND THE ROOTBALL WITH AMENDED SOIL TO TWO-THIRDS OF THE DEPTH OF THE HOLE, AND TAMP THE PALM PLANTING HOLES. A FERTILIZER PROGRAM FOR THE REMAINDER OF THE PLANTING HOLE, TAMPING FIRMLY TO REMOVE AIR POCKETS.
 5. SPRAY THE PALMS USING PALM BRUSH (PER PLANTING DETAILS). DO NOT SECURE BRACES TO THE PALM ITSELF.
 6. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS).
10. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
 1. DIG PLANTING HOLES TO BE 2" LESS DEEP THAN EACH PLANTS ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
 2. INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE.
 3. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
11. SODDING
 1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
 2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
 3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD

- STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

G. HYDROMULCHING

1. TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - a. WINTER MIX (OCTOBER 1 - MARCH 31)
 - b. SUMMER MIX (APRIL 1 - SEPTEMBER 30)
 - c. GENERAL
 - d. 24 UNHILLED BERMUDA SEED
 - e. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - f. 2# HILLED BERMUDA SEED
 - g. 2# UNHILLED BERMUDA SEED
 - h. 2# HILLED BERMUDA SEED
 - i. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - j. 2# HILLED BERMUDA SEED
 - k. 2# UNHILLED BERMUDA SEED
 - l. 2# HILLED BERMUDA SEED
 - m. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - n. 2# HILLED BERMUDA SEED
 - o. 2# UNHILLED BERMUDA SEED
 - p. 2# HILLED BERMUDA SEED
 - q. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - r. 2# HILLED BERMUDA SEED
 - s. 2# UNHILLED BERMUDA SEED
 - t. 2# HILLED BERMUDA SEED
 - u. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - v. 2# HILLED BERMUDA SEED
 - w. 2# UNHILLED BERMUDA SEED
 - x. 2# HILLED BERMUDA SEED
 - y. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - z. 2# HILLED BERMUDA SEED
 - aa. 2# UNHILLED BERMUDA SEED
 - ab. 2# HILLED BERMUDA SEED
 - ac. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - ad. 2# HILLED BERMUDA SEED
 - ae. 2# UNHILLED BERMUDA SEED
 - af. 2# HILLED BERMUDA SEED
 - ag. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - ah. 2# HILLED BERMUDA SEED
 - ai. 2# UNHILLED BERMUDA SEED
 - aj. 2# HILLED BERMUDA SEED
 - ak. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - al. 2# HILLED BERMUDA SEED
 - am. 2# UNHILLED BERMUDA SEED
 - an. 2# HILLED BERMUDA SEED
 - ao. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - ap. 2# HILLED BERMUDA SEED
 - aq. 2# UNHILLED BERMUDA SEED
 - ar. 2# HILLED BERMUDA SEED
 - as. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - at. 2# HILLED BERMUDA SEED
 - au. 2# UNHILLED BERMUDA SEED
 - av. 2# HILLED BERMUDA SEED
 - aw. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - ax. 2# HILLED BERMUDA SEED
 - ay. 2# UNHILLED BERMUDA SEED
 - az. 2# HILLED BERMUDA SEED
 - ba. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - bb. 2# HILLED BERMUDA SEED
 - bc. 2# UNHILLED BERMUDA SEED
 - bd. 2# HILLED BERMUDA SEED
 - be. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - bf. 2# HILLED BERMUDA SEED
 - bg. 2# UNHILLED BERMUDA SEED
 - bh. 2# HILLED BERMUDA SEED
 - bi. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - bj. 2# HILLED BERMUDA SEED
 - bk. 2# UNHILLED BERMUDA SEED
 - bl. 2# HILLED BERMUDA SEED
 - bm. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - bn. 2# HILLED BERMUDA SEED
 - bo. 2# UNHILLED BERMUDA SEED
 - bp. 2# HILLED BERMUDA SEED
 - bo. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - bp. 2# HILLED BERMUDA SEED
 - br. 2# UNHILLED BERMUDA SEED
 - bs. 2# HILLED BERMUDA SEED
 - bt. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - bu. 2# HILLED BERMUDA SEED
 - bv. 2# UNHILLED BERMUDA SEED
 - bw. 2# HILLED BERMUDA SEED
 - bx. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - by. 2# HILLED BERMUDA SEED
 - bz. 2# UNHILLED BERMUDA SEED
 - ca. 2# HILLED BERMUDA SEED
 - cb. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - cc. 2# HILLED BERMUDA SEED
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 - ce. 2# HILLED BERMUDA SEED
 - cf. 15# 15-15-15 WATER SOLUBLE FERTILIZER
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 - ch. 2# UNHILLED BERMUDA SEED
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 - cl. 2# UNHILLED BERMUDA SEED
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 - cq. 2# HILLED BERMUDA SEED
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 - ct. 2# UNHILLED BERMUDA SEED
 - cu. 2# HILLED BERMUDA SEED
 - cv. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - cw. 2# HILLED BERMUDA SEED
 - cx. 2# UNHILLED BERMUDA SEED
 - cy. 2# HILLED BERMUDA SEED
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