

TREE PRESERVATION

TREE PRESERVATION: (Tree Survey Method)

TREES SURVEYED

PROTECTED TREES: 0 TOTAL INCHES X 25% REQ. PRESERVED : 0 INCH. (25%)
 PROTECTED TREE INCH. PRESERVED: 0 INCH. (0%)
 REQUIRED PROTECTED MITIGATION AT 1:1 INCH RATIO: **0" REQ. MITIGATION**

HERITAGE TREES: 0 TOTAL INCHES X 25% REQ. PRESERVED : 0 INCH. (25%)
 HERITAGE TREE INCH. PRESERVED: 0 INCH. (0%)
 REQUIRED HERITAGE MITIGATION AT 3:1 INCH RATIO: **0" REQ. MITIGATION**

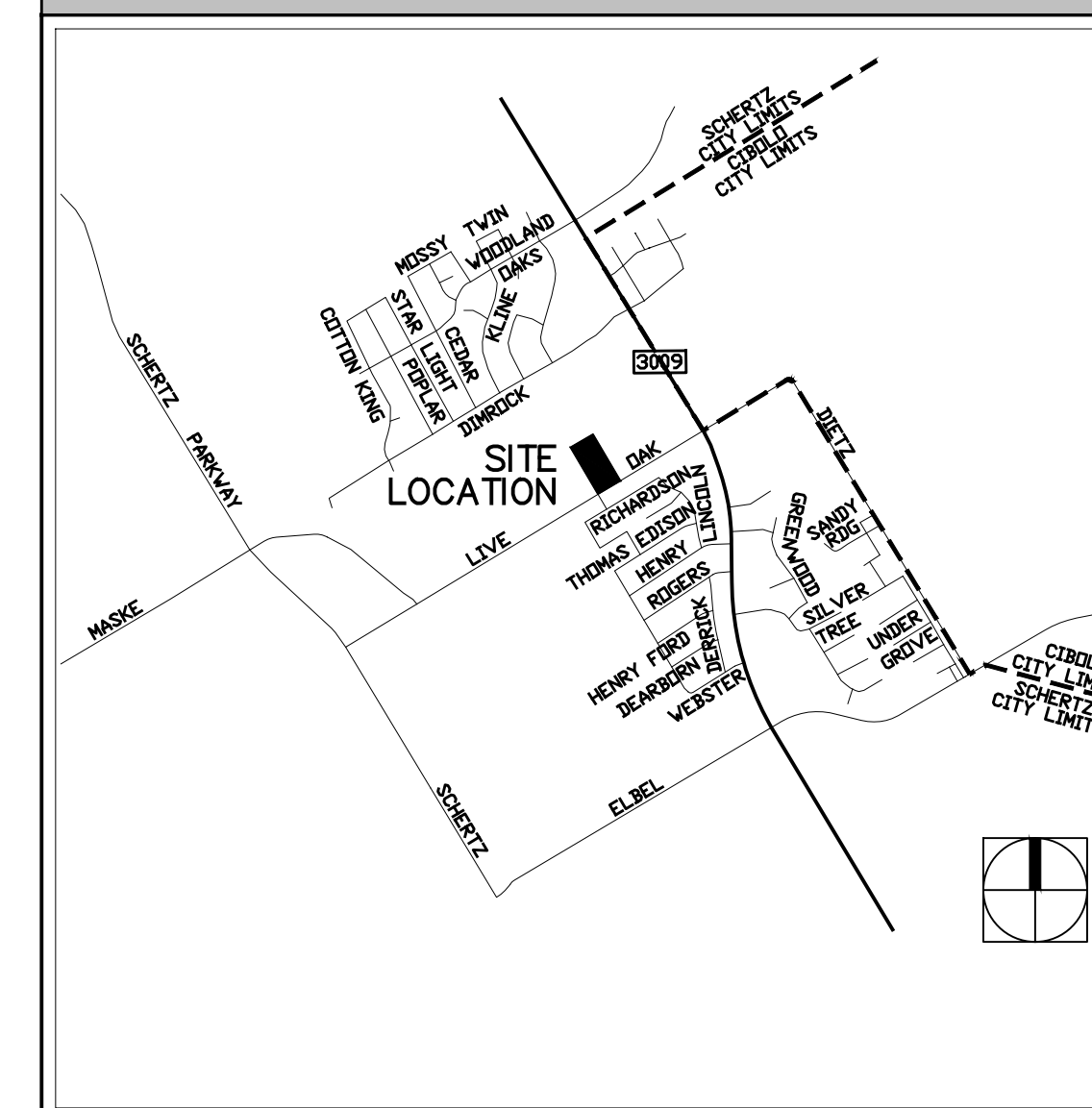
TOTAL REQUIRED MITIGATION ON SITE: 0" REQUIRED MITIGATION

PRESERVED TREES AREA EXEMPTED SPECIES PER TABLE 21.9.9. RETAINED TREES ARE INCLUDED IN LANDSCAPE CALCULATIONS ON LP SHEET.

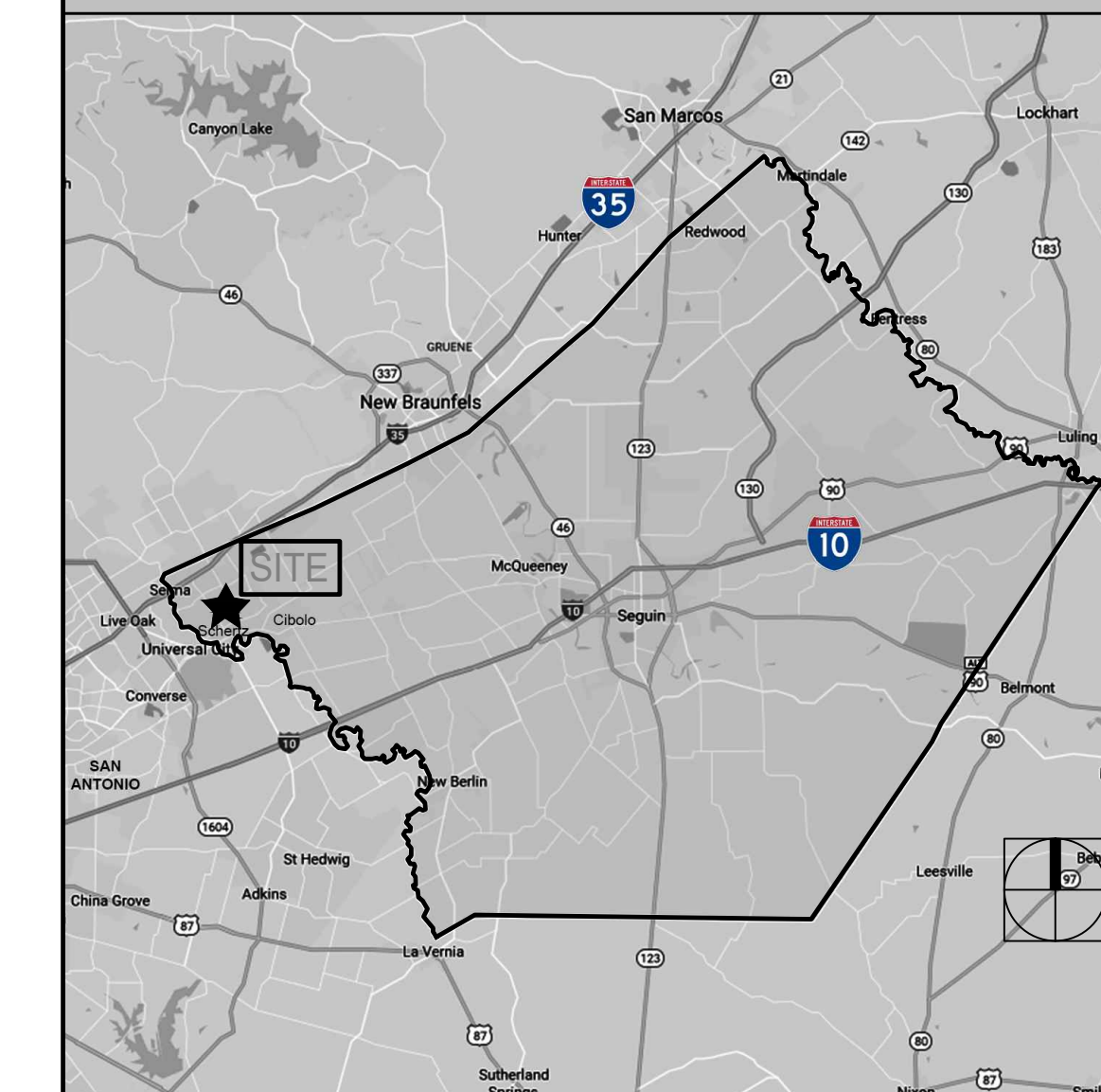
REFERENCE LP SHEET FOR PROPOSED TREES AND DETAIL LANDSCAPE CALCULATIONS



LOCATION MAP



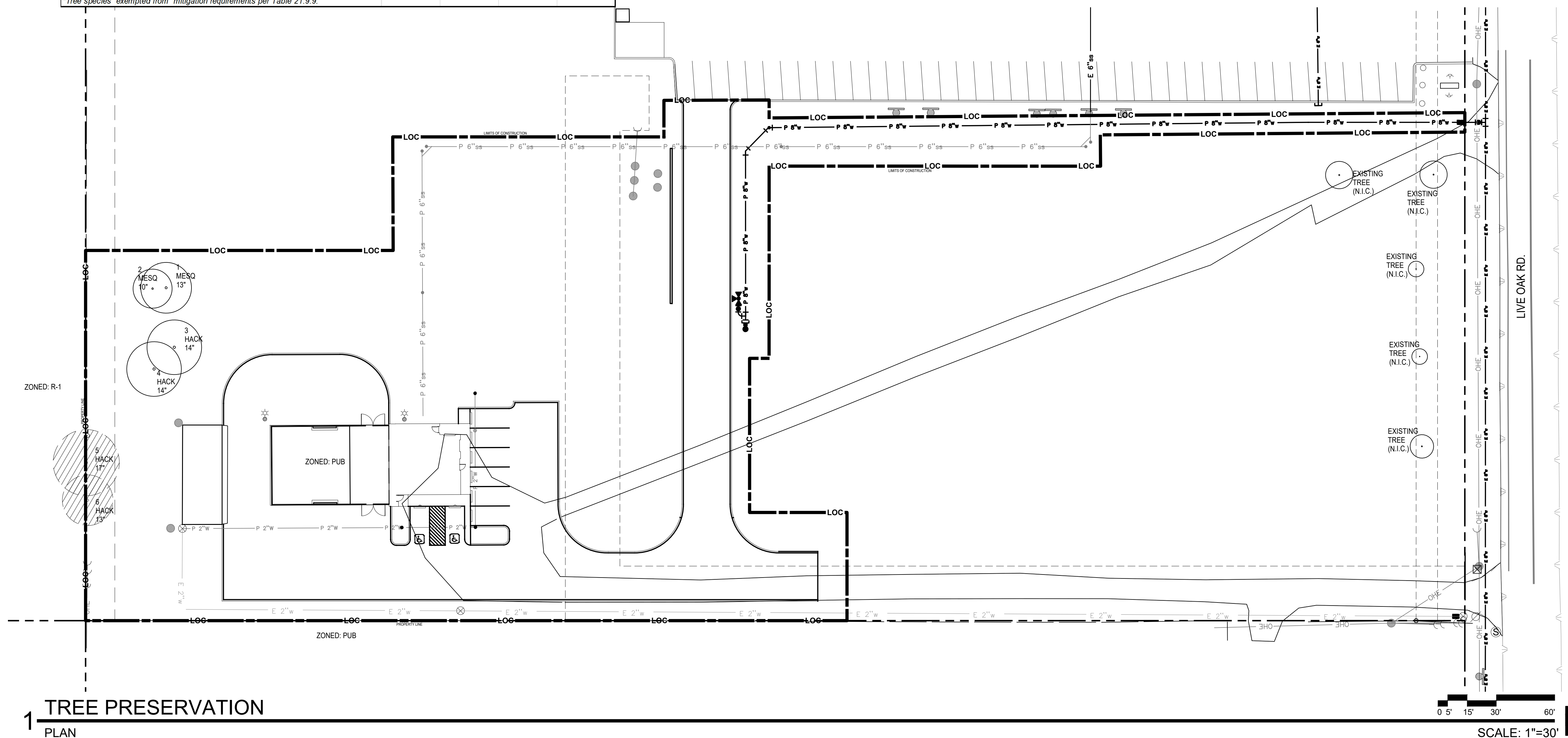
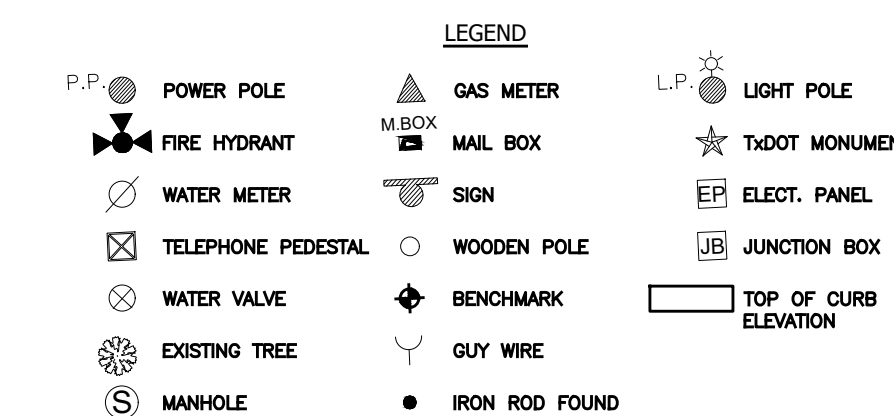
GUADALUPE COUNTY MAP



GOOD SHEPHERD CATHOLIC CHURCH TREE INVENTORY

Tag #	Species	Understory Species* 5.0" - 11.5"		Significant Tree 8" - 23.5"		Heritage Tree 1:1 24" - Greater		Additional Inches Preserved for Mitigation ***
		Removed	Preserved	Removed	Preserved	Removed	Preserved	
1	*Mesquite - 13"				13			
2	*Mesquite - 10"				10			
3	*Hackberry - 14"				14			
4	*Hackberry - 14"				14			
5	*Hackberry - 17"				17			
6	*Hackberry - 13"				13			
Sub. Tot. Inches=		0	0	30	51	0	0	0
Total inches by category=		#DIV/0!		63%		#DIV/0!		0
Preservation percentage=		0		#REF!		#REF!		0
Mitigation required (Commercial) =		0		#REF!		#REF!		0
Mitigation required (Residential) =		0		#REF!		#REF!		0

*Tree species exempted from mitigation requirements per Table 21.9.9.



201 GROVETON | SATX 78210
210.314.5582 | MPSTUD.IO



09-14-2022

PROJECT

GOOD SHEPHERD CATHOLIC CHURCH
LOT 1, BLOCK 1

PROJECT ADDRESS

1065 E. LIVE OAK RD.
SCHERTZ, TEXAS 78154

OWNER | CLIENT

GOOD SHEPHERD CHURCH

1065 E. LIVE OAK RD.
SCHERTZ, TEXAS 78154

OWNER'S REPRESENTATIVE

HARRY BENNETT
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SUBCONSULTANT

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NO.	DATE	DESCRIPTION
1	04.26.22	PERMIT ISSUE
2	09.14.22	PERMIT REVISIONS

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SHEET INFORMATION

PROJECT NO.

21093

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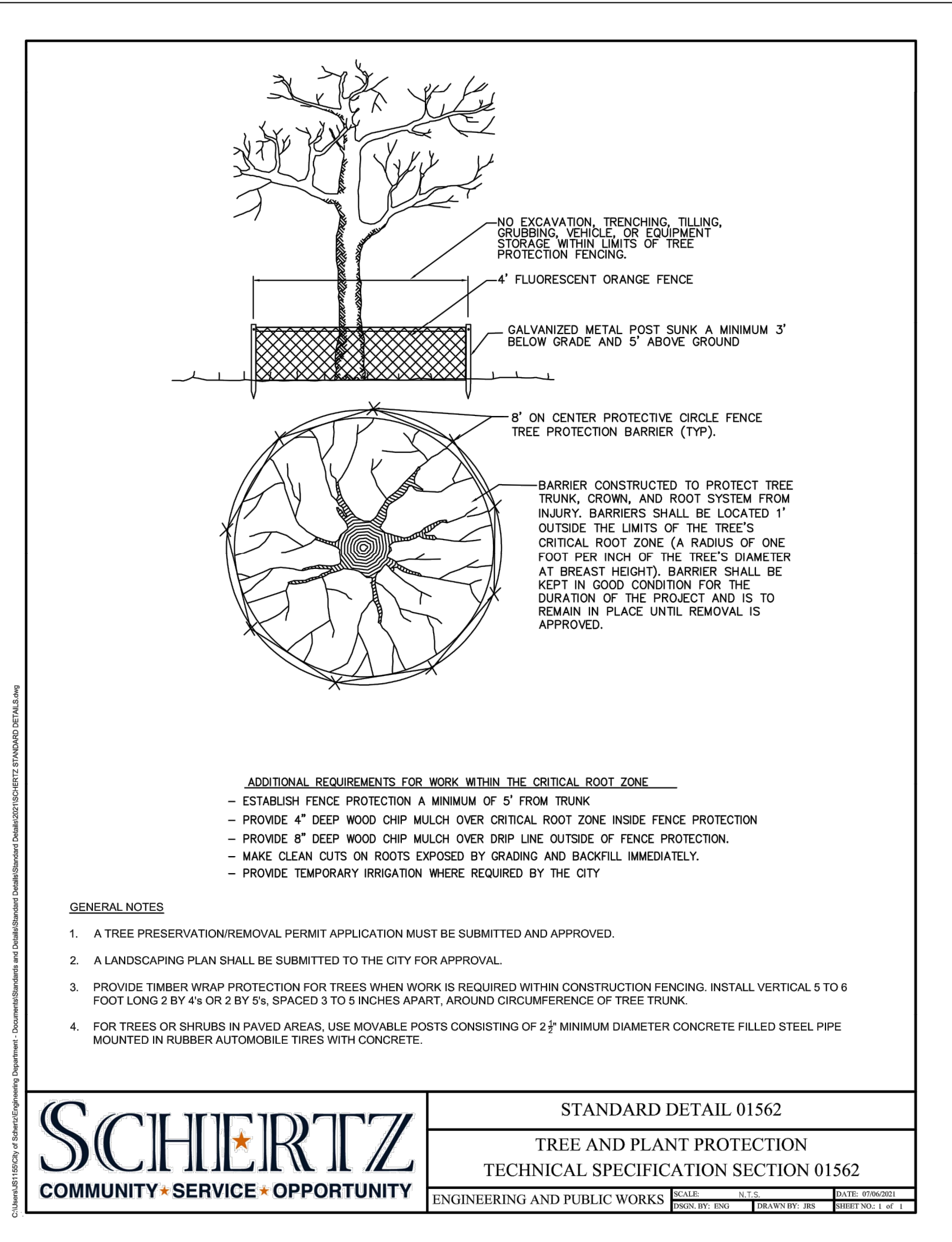
TREE PRESERVATION PLAN

SHEET NUMBER

TP 1.1

EXISTING TREE NOTES

1. ALL THE TREES WITH A DIAMETER GREATER THAN 3 INCHES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO TREE PRUNING, SOIL AMENDING AND FERTILIZATION, UNLESS SPECIFIED TREES SHALL RECEIVE PROTECTION AS SHOWN ON TREE PROTECTION DETAIL ON THIS SHEET.
2. ALL TREES SHALL REMAIN UNLESS NOTED ON THE PLANS.
3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED BY CITY INSPECTOR.
4. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR.
6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS 1 FOOT PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A 10-INCH DIAMETER TREE WOULD HAVE A 5-FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. LIVE OAK WOUNDS SHALL BE PAINTED OVER, WITHIN 20 MINUTES TO PREVENT OAK WILT.
7. ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER OR CITY INSPECTOR.
8. GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.
9. TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED BY THE PROJECT MANAGER OR CITY INSPECTOR.
10. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.
11. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
12. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.



SCHERTZ COMMUNITY • SERVICE • OPPORTUNITY	STANDARD DETAIL 01562
	TREE AND PLANT PROTECTION
	TECHNICAL SPECIFICATION SECTION 01562
ENGINEERING AND PUBLIC WORKS	SCALE: AS SHOWN DATE: 09/14/22 DRAWN BY: JG CHECKED BY: JG



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GOOD SHEPHERD
CATHOLIC CHURCH
LOT 1, BLOCK 1

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LANDSCAPE ORDINANCE

ARTICLE 9, E. LANDSCAPE INSTALLATION REQUIRED

- LANDSCAPED AREA:** A MINIMUM OF TWENTY PERCENT (20%) OF THE TOTAL LAND AREA OF ANY PROPOSED MULTI-FAMILY OR NON-RESIDENTIAL DEVELOPMENT SHALL BE LANDSCAPED AND COMPRISED OF TREES, SHRUBS, SOD OR OTHER GROUND COVER.

TOTAL LAND AREA = 86,545 SF @ 20% =	17,309 SF REQUIRED
LANDSCAPE AREA PROVIDED:	53,050 SF PROVIDED (64%)
- SHADE TREE AREA:** ALL PROPERTIES SHALL PROVIDE SHADE TREES AT A RATIO OF NINE (9) TREES PER ACRE (43,560 SF) OF GROSS LOT AREA.

TOTAL LOT (LIMIT OF CONSTRUCTION) AREA (86,545 SF) =	1.99 ACRES
TOTAL NUMBER OF TREES REQUIRED: 1.99 ACRES X 9 (2.5" CAL.) TREES =	18 TREES REQUIRED
0 EXISTING TREES =	0 TREES
20 (2.5 CAL.) TREES =	20 TREES
TOTAL NUMBER OF TREES PROVIDED:	20 TREES PROVIDED

ARTICLE 9, G. NONRESIDENTIAL AND MULTIFAMILY LANDSCAPE BUFFER REQUIREMENTS

- A NONRESIDENTIAL OR MULTIFAMILY USE ADJACENT TO A RESIDENTIAL ZONE PROPERTY SHALL PROVIDE A MINIMUM TWENTY FOOT (20') LANDSCAPE BUFFER ADJACENT TO THE PROPERTY LINE OF THE RESIDENTIAL USE OR RESIDENTIALLY ZONED PROPERTY. A MINIMUM OF ONE (1) SHADE TREE SHALL BE PLANTED FOR EACH THIRTY LINEAR FEET (30') OF LANDSCAPE BUFFER. A MINIMUM OF TEN (10) SHRUBS SHALL BE PLANTED FOR EACH FIFTY LINEAR FEET (50') OF LANDSCAPE BUFFER. ALL OTHER AREAS WITHIN THE LANDSCAPE BUFFER SHALL BE COVERED WITH GRASS OR ANOTHER SOLID VEGETATIVE COVER APPROVED AT THE TIME OF SITE PLAN APPROVAL.

TOTAL LINEAR FEET ABUTTING R-1 @ 20' REQUIRED WIDTH =	190 LF
A. A MINIMUM OF ONE (1) SHADE TREE SHALL BE PLANTED FOR EACH 30 LINEAR FEET OF LANDSCAPE BUFFER.	
TOTAL NUMBER OF LANDSCAPE BUFFER TREES REQUIRED =	6 SHADE TREES
TOTAL NUMBER OF LANDSCAPE BUFFER TREES PROVIDED =	10 SHADE TREES (W/4 EXISTING)
B. A MINIMUM OF TEN (10) SHRUBS SHALL BE PLANTED FOR EACH 50 LINEAR FEET OF LANDSCAPE BUFFER.	
TOTAL NUMBER OF LANDSCAPE BUFFER SHRUBS REQUIRED =	38 SHRUBS
TOTAL NUMBER OF LANDSCAPE BUFFER SHRUBS PROVIDED =	50 SHRUBS

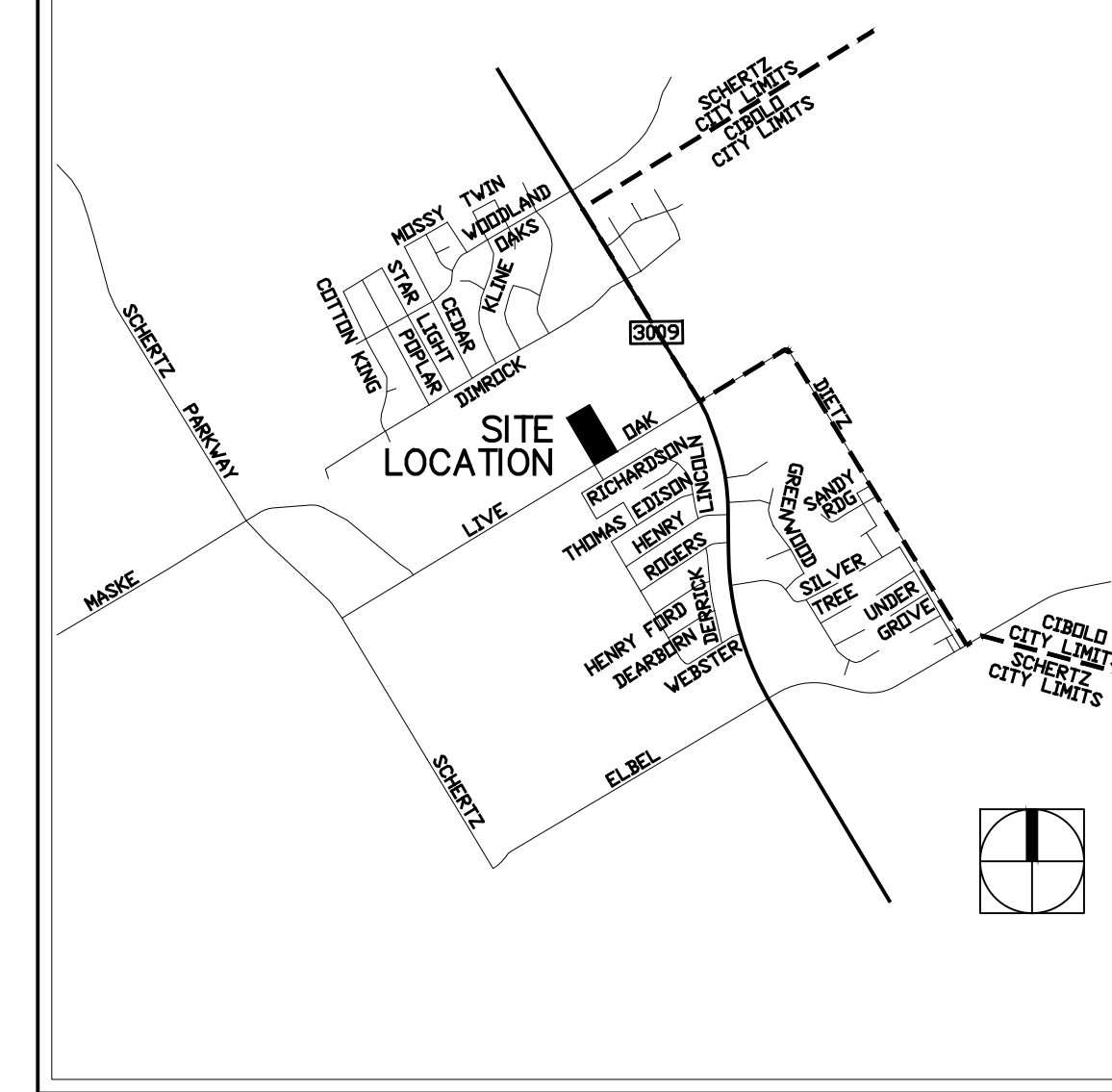
ARTICLE 9, H. PARKING AREA LANDSCAPING

- INTERIOR LANDSCAPING:** A MINIMUM OF TEN PERCENT (10%) OF THE GROSS PARKING AREAS SHALL BE DEVOTED TO LIVING LANDSCAPING WHICH INCLUDES GRASS, GROUNDCOVERS, PLANTS SHRUBS AND TREES. GROSS PARKING AREA IS TO BE MEASURED FROM THE EDGE OF THE PARKING AND/OR DRIVEWAY AND SIDEWALKS.

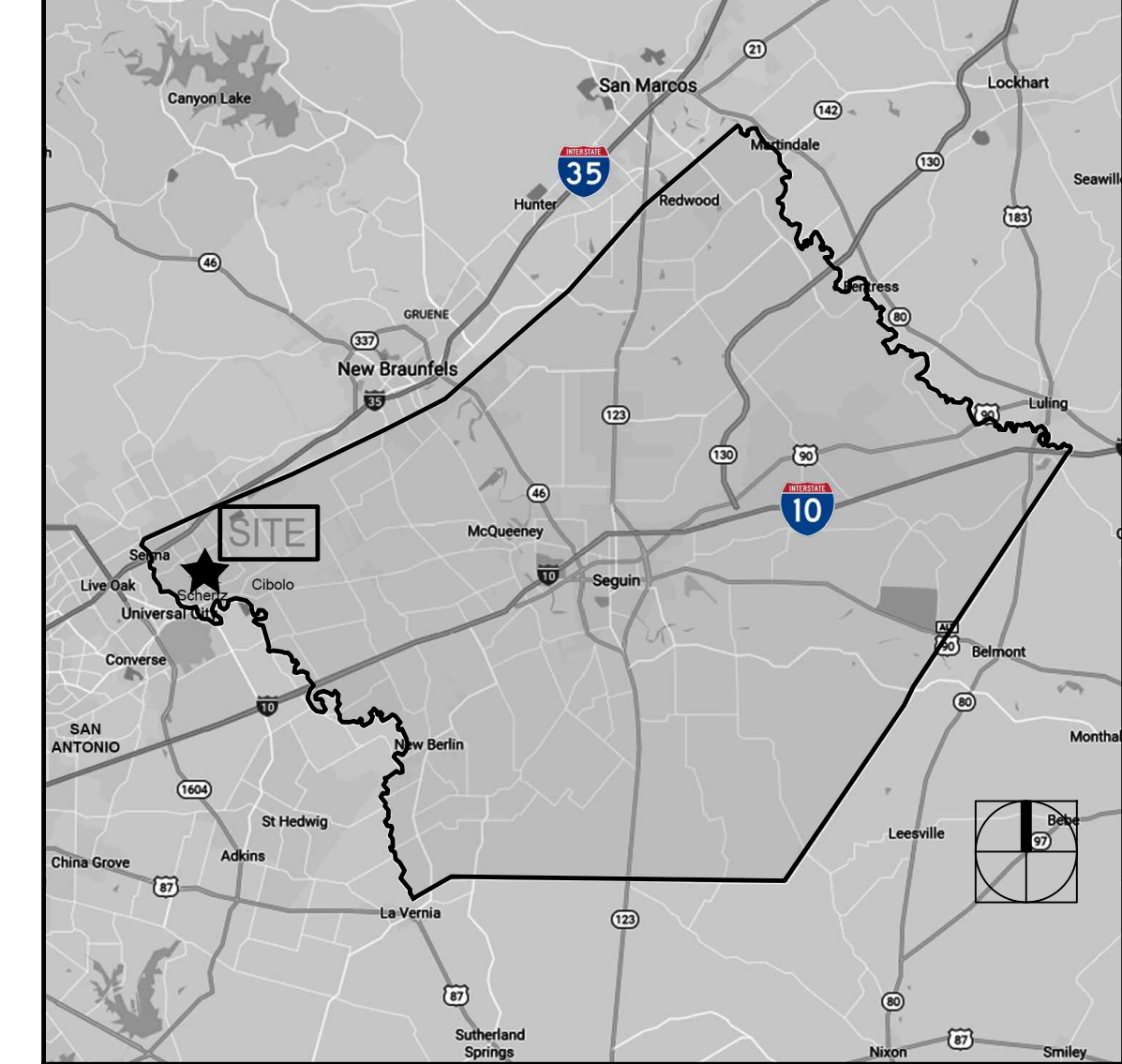
TOTAL PARKING AREA = 2,217 SF @ 10% =	222 SF REQUIRED
INTERIOR LANDSCAPE AREA PROVIDED:	268 SF PROVIDED
A. A MINIMUM OF ONE (1) SHADE TREE PLANTED FOR EACH 400 SQUARE FEET OR FRACTION THEREOF OF REQUIRED INTERIOR LANDSCAPE AREA.	
TOTAL NUMBER OF INTERIOR LANDSCAPE TREES REQUIRED =	1 SHADE TREES
TOTAL NUMBER OF INTERIOR LANDSCAPE TREES PROVIDED =	2 SHADE TREES

NOTE: ALL REQUIRED LANDSCAPE AREAS SHOULD BE MAINTAINED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM

LOCATION MAP



GUADALUPE COUNTY MAP



- LEGEND**
- P.P. POWER POLE
 - FIRE HYDRANT
 - WATER METER
 - TELEPHONE PEDESTAL
 - WATER VALVE
 - EXISTING TREE
 - MANHOLE
 - GAS METER
 - MAIL BOX
 - SIGN
 - WOODEN POLE
 - BENCHMARK
 - GUY WIRE
 - IRON ROD FOUND
 - L.P. LIGHT POLE
 - TxDOT MONUMENT
 - ELECT. PANEL
 - JUNCTION BOX
 - 360.20 TOP OF CURB ELEVATION



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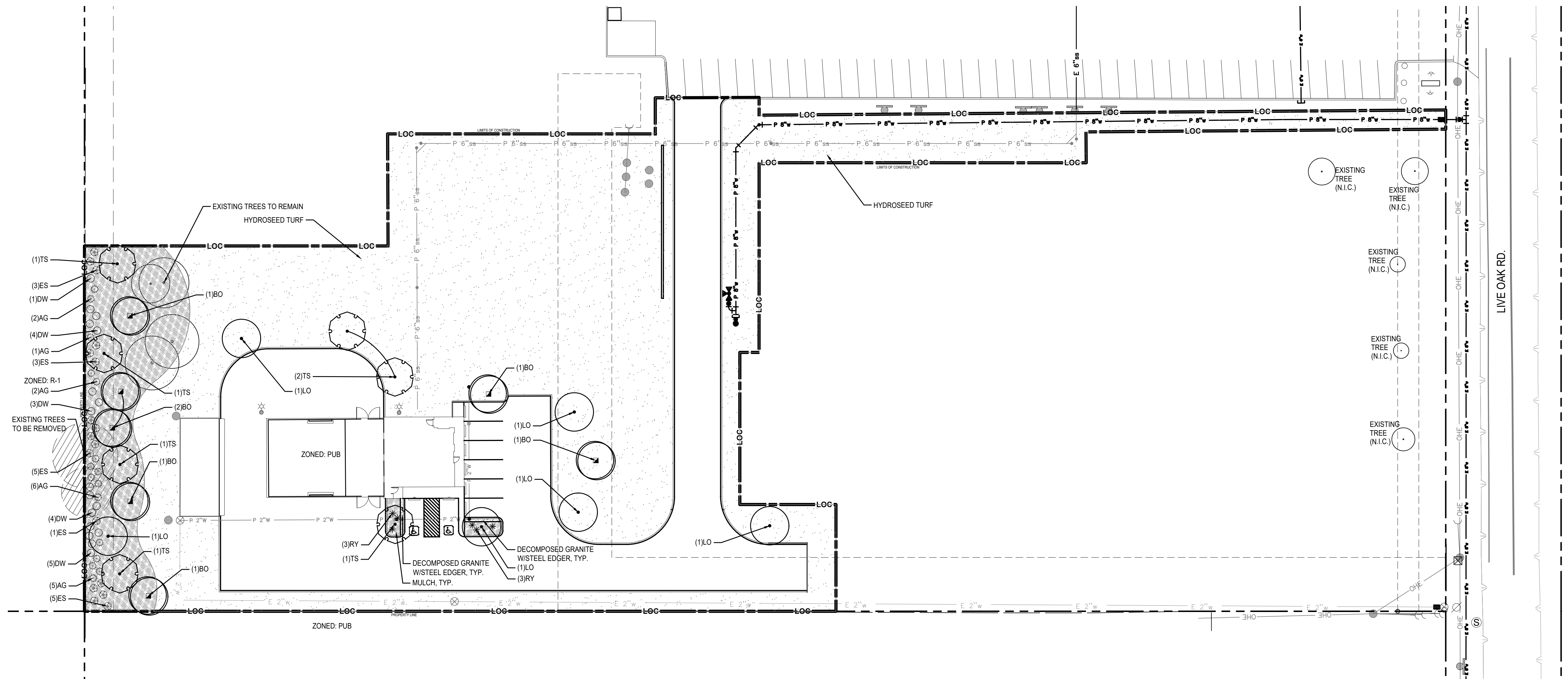
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CATHOLIC CHURCH
LOT 1, BLOCK 1

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1 PLANTING PLAN

SCALE: 1"=30'

SUBCONSULTANT

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SHEET NUMBER
LP 1.1



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PLANT LIST

TREES

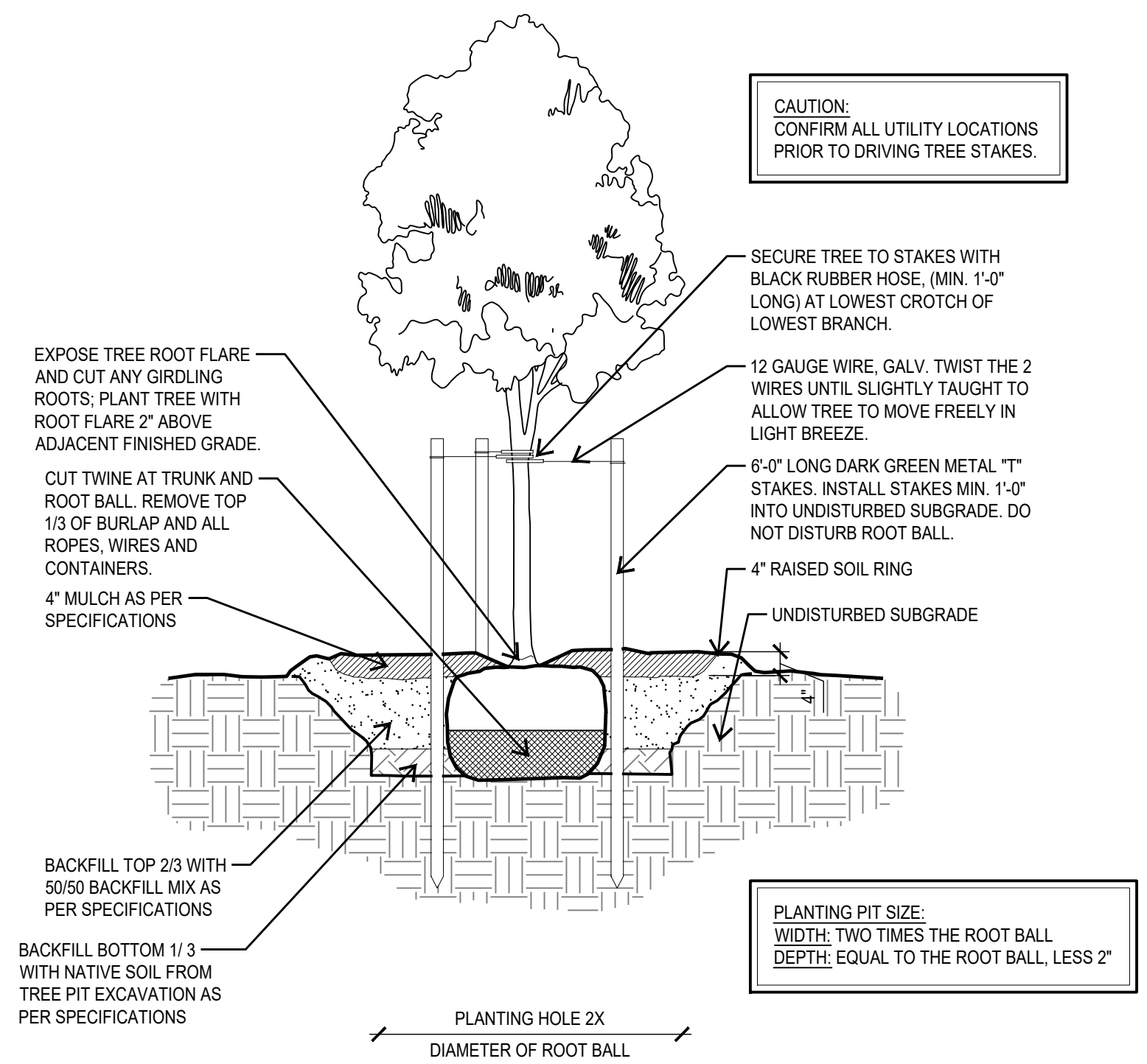
CALLOUT	QUANTITY	COMMON NAME BOTANICAL NAME	SIZE	REMARKS
BO	7	BUR OAK <i>QUERCUS MACROCARPA</i>	2.5" CAL.; MIN 8' HT; MIN 4" SPRD.	SINGLE TRUNK B&B OR CONTAINER; STRAIGHT TRUNK WITH FULL & UNIFORM CANOPY; PARK GRADE NOT ACCEPTABLE
LO	6	LIVE OAK <i>QUERCUS VIRGINIANA</i>	2.5" CAL.; MIN 8' HT; MIN 4" SPRD.	SINGLE TRUNK B&B OR CONTAINER; STRAIGHT TRUNK WITH FULL & UNIFORM CANOPY; PARK GRADE NOT ACCEPTABLE
TS	7	TEXAS SYCAMORE <i>PLATANUS OCCIDENTALIS</i>	2.5" CAL.; MIN 8' HT; MIN 4" SPRD.	SINGLE TRUNK B&B OR CONTAINER; STRAIGHT TRUNK WITH FULL & UNIFORM CANOPY; PARK GRADE NOT ACCEPTABLE

SHRUBS

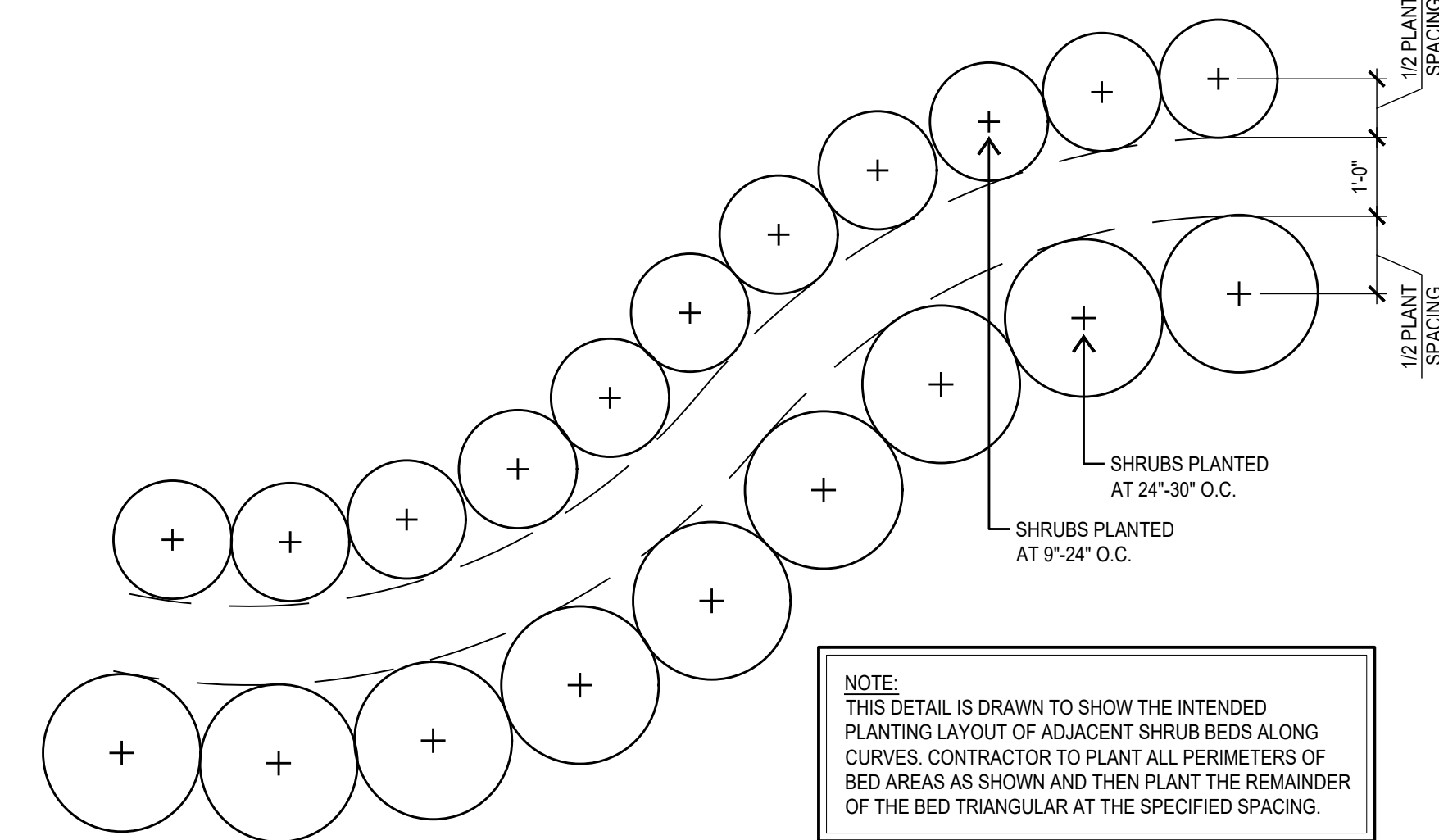
CALLOUT	QUANTITY	COMMON NAME BOTANICAL NAME	SIZE	REMARKS
AG	16	AGARITA <i>MAHONIA TRIFOLIOLATA</i>	5 GAL.; 30" HT. 24" SPRD.	DARK GREEN; FULL; PLANT 48" O.C.
DW	17	DWARF WAX MYRTLE <i>MYRICA PUSILLA</i>	5 GAL.; 30" HT. 24" SPRD.	GREEN; FULL; PLANT 48" O.C.
ES	17	EVERGREEN SUMAC <i>RHUS VIRENS</i>	5 GAL.; 30" HT. 24" SPRD.	DARK GREEN; FULL; PLANT 48" O.C.
RY	6	RED YUCCA <i>HESPERALOE PARVIFLORA</i>	3 GAL.; 18" HT. 18" SPRD.	LIGHT GREEN; FULL; PLANT 36" O.C.

GROUND COVER

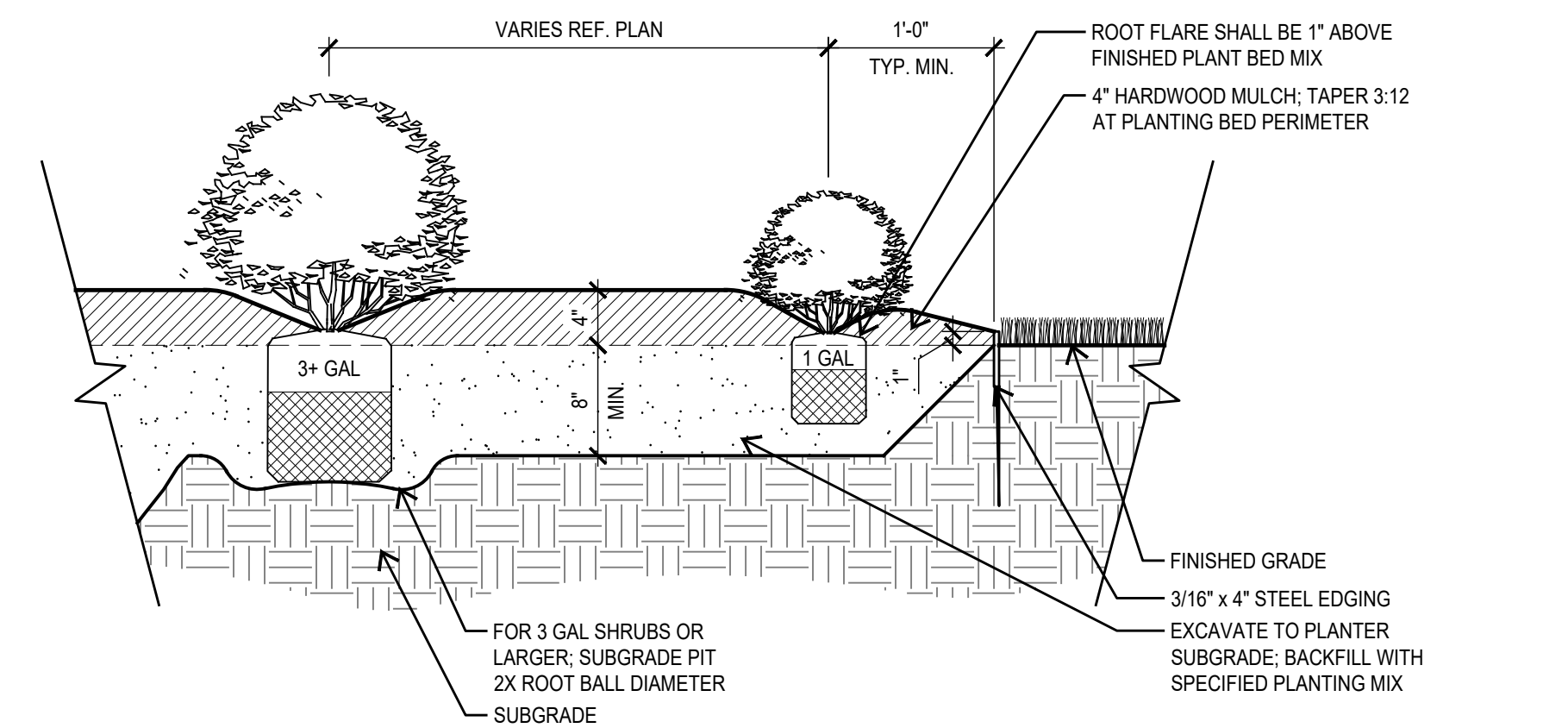
CALLOUT	QUANTITY	COMMON NAME BOTANICAL NAME	SIZE	REMARKS
MULCH	FIELD VERIFY	HARDWOOD MULCH	STANDARD	4" THICK PER DETAILS; LOCAL SOURCE
DECOMPOSED GRANITE	FIELD VERIFY	DECOMPOSED GRANITE	STANDARD	4" THICK WITH STEEL EDGER SEPARATION
HYDROSEED	FIELD VERIFY	COMMON BERMUDA GRASS <i>CYNODON DACTYLON</i>	HYDROSEED	2 LBS. SEED/1,000 SF; LOCAL SOURCE



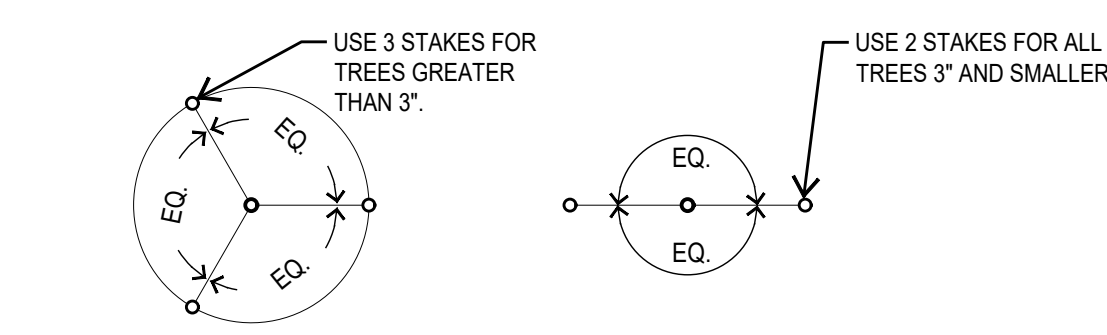
1 TYPICAL TREE PLANTING AT LAWN
SECTION NOT TO SCALE



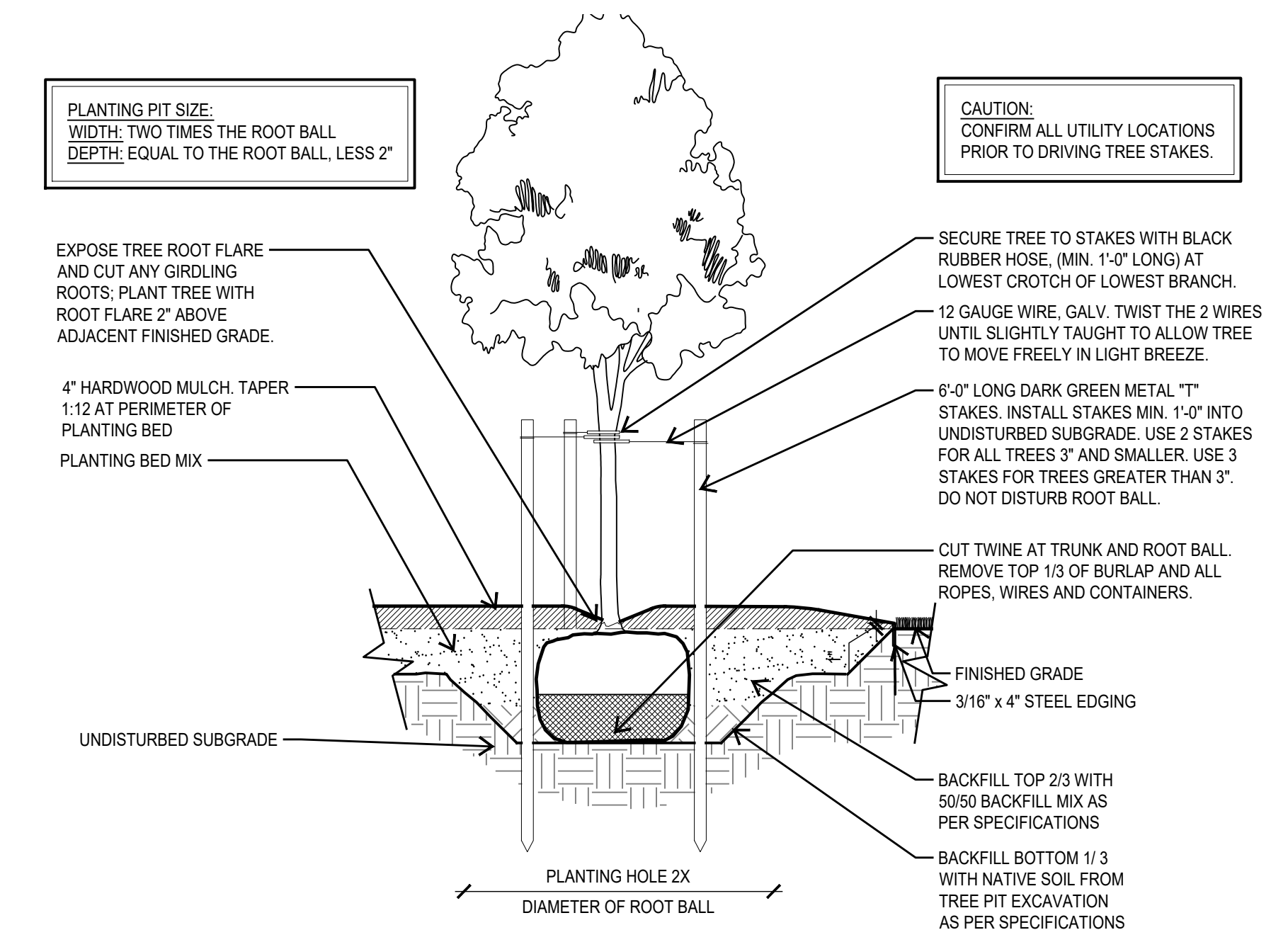
4 TYPICAL SHRUB SPACING
PLAN NOT TO SCALE



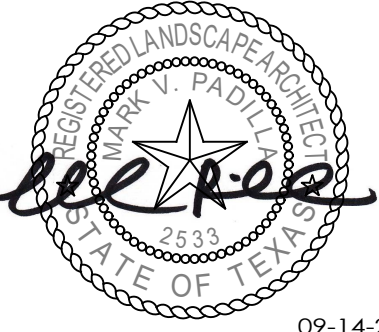
2 TYPICAL SHRUB PLANTING
SECTION NOT TO SCALE



5 TYPICAL TREE STAKING
PLAN NOT TO SCALE



3 TYPICAL TREE PLANTING AT BED
SECTION NOT TO SCALE



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LP 2.2

GENERAL LANDSCAPE NOTES

PART 1 :

LANDSCAPE CONTRACTOR SHALL ACCEPT THE SITE IN ITS EXISTING CONDITION AND SHALL TIE NEW WORK TO EXISTING CONDITIONS AND CONTROLS (SUCH AS EXISTING GRADES AND WALK ELEVATIONS) AS NECESSARY TO MEET THE INTENT OF THE PLANS.

BEFORE PROCEEDING WITH ANY WORK IN AN AREA, LANDSCAPE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND SIZES AND SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL SITE CONDITIONS. IF ANY UTILITIES OR OBSTRUCTIONS ARE DISCOVERED DURING CONTRACT WHICH MAY NOT HAVE BEEN KNOWN DURING DESIGN, CONTRACTOR SHALL STOP WORK AND IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT BEFORE PRECEDING. LANDSCAPE CONTRACTOR SHALL BE LIABLE FOR ALL MODIFICATIONS AND DAMAGE IF WORK PROCEEDS IN EITHER OF THE ABOVE SITUATIONS WITHOUT NOTIFYING LANDSCAPE ARCHITECT.

PRIOR TO ANY EXCAVATION, LANDSCAPE CONTRACTOR SHALL CONTACT APPROPRIATE AUTHORITIES INCLUDING, BUT NOT LIMITED TO, TEXAS ONE CALL SYSTEM AT 1-800-245-4545 TO LOCATE EXISTING UNDERGROUND UTILITIES.

LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY DAMAGE TO ANY UTILITIES OR PROPERTY THAT MAY OCCUR IN THE EXECUTION OF HIS CONTRACT WORK. WHEN WORK REQUIRES CROSSING EXISTING WALKS OR CURBS WITH EQUIPMENT, LANDSCAPE CONTRACTOR SHALL PROVIDE APPROVED BRIDGE MATERIAL SUCH AS WOOD PLANKS AND EARTH TO PREVENT DAMAGE TO FINISHED WORK. LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS THAT MAY BE WORKING ON THE SITE SIMULTANEOUSLY AND SHALL COORDINATE STAGING OF HIS WORK WITH OWNER AND LANDSCAPE ARCHITECT. ALL TRASH AND DEBRIS GENERATED FROM CONTRACT OPERATIONS SHALL BE REMOVED ON A DAILY BASIS. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY IN CONJUNCTION WITH HIS CONTRACT WORK.

REFERENCES

- A.) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z60.1 - NURSERY STOCK.
- B.) TEXAS STATE DEPARTMENT OF AGRICULTURE (TDA) - NURSERY FLORAL LICENSING PROGRAM.

1.1 SUBMITTALS FOR REVIEW

A.) PRODUCT DATE: LIST OF CHEMICALS TO BE USED ON SITE.

B.) SAMPLES:

- 1. 1 QUART SAMPLES OF EACH SOIL AMENDMENT WITH ANALYTICAL DATA FROM A RECOGNIZED TESTING LABORATORY SHOWING MANUFACTURER'S GUARANTEED ANALYSIS.
- 2. 1 CUBIC FOOT SAMPLES OF PREMIXED BACKFILL MIXES.

C.) TEST RESULTS:

- 1. PROVIDE SOIL SAMPLE TEST RESULTS INDICATING PH, FERTILITY LEVELS, AND PERCENTAGES OF SAND, SILT, AND CLAY.
- 2. PROVIDE RECOMMENDATIONS FOR SOIL AMENDMENTS AND FERTILIZERS BASED ON SOIL ANALYSIS; FOR CONTRACT PURPOSES, USE MIXTURE SPECIFIED IN THIS SECTION.

D.) NURSERY QUALIFICATIONS: COMPANY SPECIALIZING IN GROWING AND CULTIVATING PLANTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEAR DOCUMENTED EXPERIENCE, AND CERTIFIED BY THE STATE OF TEXAS.

E.) INSTALLER QUALIFICATIONS:

- 1. COMPANY SPECIALIZING IN LANDSCAPE INSTALLATION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
- 2. PROVIDE FULL-TIME SUPERINTENDENT ON-SITE DURING INSTALLATION.

F.) PLANT MATERIALS:

- 1. PLANT MATERIALS ARE SUBJECT TO EXAMINATION BY LANDSCAPE ARCHITECT AT PLACE OF GROWTH OR UPON DELIVERY TO PROJECT.

1.2 DELIVERY, STORAGE AND HANDLING

A.) DELIVER FERTILIZER IN WATERPROOF BAGS SHOWING WEIGHT, GUARANTEED CHEMICAL ANALYSIS, MANUFACTURER AND BRAND NAME, AND APPROVALS OF AUTHORITIES HAVING JURISDICTION.

B.) DELIVER PLANT MATERIAL WITH IDENTIFICATION TAG SHOWING BOTANICAL NAME AND PLANT SIZE.

C.) DELIVER PLANT MATERIAL IMMEDIATELY PRIOR TO INSTALLATION; PLANT MATERIALS ON SAME DAY AS DELIVERED, IF PLANTING CANNOT BE ACCOMPLISHED ON SAME DAY AS DELIVERY, PROVIDE ADDITIONAL PROTECTION TO MAINTAIN PLANTS IN HEALTHY AND VIGOROUS CONDITION.

D.) KEEP PLANT MATERIAL MOIST AND PROTECT FROM DAMAGE AND DESICCATION OF LEAVES UNTIL PLANTING.

E.) DO NOT HANDLE PLANT MATERIALS BY STEM OR TRUNK.

F.) KEEP CONTAINERS INTACT UNTIL JUST PRIOR TO PLANTING.

1.3 SEQUENCING

A.) INSTALL TREES, SHRUBS, AND LINER STOCK PLANT MATERIALS PRIOR TO INSTALLATION OF LAWNS.

1.4 WARRANTY

A.) FURNISH WRITTEN WARRANTY THAT PLANT MATERIALS WILL BE IN HEALTHY, VIGOROUS, GROWING CONDITION ONE (1) YEAR AFTER FINAL ACCEPTANCE. DAMAGE DUE TO ACTS OF GOD, VANDALISM, OR NEGLIGENCE BY OWNER IS EXCLUDED.

B.) REPLACE DEAD, UNHEALTHY AND UNSIGHTLY PLANT MATERIALS WITHIN WARRANTY PERIOD, UPON NOTIFICATION BY OWNER OR LANDSCAPE ARCHITECT.

C.) NOTIFY OWNER AND LANDSCAPE ARCHITECT 30 DAYS PRIOR TO EXPIRATION OF WARRANTY PERIOD AND ARRANGE FINAL ACCEPTANCE INSPECTION BY ALL PARTIES.

- 1. REMOVE DEAD, UNHEALTHY, AND UNSIGHTLY PLANT MATERIALS.
- 2. REMOVE GUYING AND STAKING MATERIALS.
- 3. WARRANT REPLACEMENT PLANTS UNDER SAME PROVISIONS AND FOR SAME TIME PERIOD AS ORIGINAL PLANTS.

1.5 MAINTENANCE

- 1. MAINTAIN PLANT LIFE IMMEDIATELY AFTER PLACEMENT AND FOR NINETY (90 DAYS) AFTER FINAL ACCEPTANCE...
- 2. REPLACE DEAD OR DYING PLANTS WITH PLANTS OF SAME SIZE AND SPECIES SPECIFIED.
- 3. REMOVE TRASH, DEBRIS, AND LITTER, WATER, PRUNE, FERTILIZE, WEED, AND MOW. SPOT APPLY HERBICIDES, AND FUNGICIDE ONLY AS REQUIRED.
- 4. REMOVE CLIPPINGS AND DEBRIS FROM SITE PROMPTLY.
- 5. COORDINATE WITH OPERATION OF IRRIGATION SYSTEM TO ENSURE THAT PLANTS ARE ADEQUATELY WATERED. HAND WATER AREAS NOT RECEIVING ADEQUATE WATER FROM IRRIGATION SYSTEM.
- 6. RESET SETTLED PLANTS.
- 7. REAPPLY MULCH TO BARE AND THIN AREAS.

1.6 MATERIALS

A.) PLANT MATERIALS:

- 1. CERTIFIED IN ACCORDANCE WITH TDA REQUIREMENTS.
- 2. SPECIES AND SIZE AS INDICATED IN PLANT SCHEDULE. LARGER SIZE MAY BE SUBSTITUTE WITHOUT ADDITIONAL COST TO OWNER, PROVIDED ROOT BALL OR SPREAD INCREASES PROPORTIONATELY.
- 3. WHERE MATERIALS ARE PLANTED IN MASSES, PROVIDE PLANTS OF UNIFORM SIZE.
- 4. GROWN IN CLIMATIC CONDITIONS SIMILAR TO THOSE AT SITE. FREE FROM DISEASE, INSECT INFESTATIONS, DEFECTS INCLUDING WEAK OR BROKEN LIMBS, CROTCHES, AND DAMAGED TRUNKS, ROOTS OR LEAVES, SUN SCALD, FRESH BARK ABRASIONS, EXCESSIVE ABRASIONS, AND OBJECTIONABLE DISFIGUREMENTS.
- 5. EXHIBIT NORMAL GROWTH HABITS; VIGOROUS, HEALTHY, FULL, WELL-PROPORTIONED, AND SYMMETRICAL.
- 6. TREE TRUNKS TO BE STURDY AND EXHIBIT HARDENED SYSTEMS AND VIGOROUS AND FIBROUS ROOT SYSTEMS, NOT ROOT OR POT BOUND.
- 7. NOT PRUNED, TRIMMED, OR TOPPED.
- 8. CONTAINER-GROWN STOCK: GROWN IN CONTAINERS FROM SEEDING.

B.) TOPSOIL:

- 1. USE SITE GENERATED SOIL FROM PLANTING PREPARATIONS, REASONABLY FREE FROM CLAY LUMPS, COARSE SANDS, STONES, ROOTS, FOREIGN MATTER.
- 2. IF SUFFICIENT ON-SITE MATERIALS DO NOT EXIST, PROVIDE SIMILAR OFF-SITE TOPSOIL FROM APPROVED LOCAL SOURCE. SUBMIT SAMPLE AND SOURCE FOR APPROVAL PRIOR TO DELIVERY OF ANY SOIL TO SITE.

C.) MULCH:

- 1. SHREDDED, COMPOSTED HARDWOOD BARK OF VARYING LENGTH BY NEW EARTH LLC, ph. 210-6615180 OR APPROVED SUBSTITUTE. PARTIALLY DECOMPOSED; FREE FROM STICKS, STONES, CLAY, AND GROWTH AND GERMINATION-INHIBITING INGREDIENTS.

D.) SOIL AMENDMENTS:

- 1. SOIL SULFUR: AGRICULTURAL GRADE SULFUR CONTAINING MINIMUM 99 PERCENT SULFUR EXPRESSED AS ELEMENTAL.
- 2. IRON SULFATE: 20 PERCENT IRON EXPRESSED AS METALLIC IRON DERIVED FROM FERRIC AND FERROUS SULFATE AND 10 PERCENT SULFUR EXPRESSED AS ELEMENTAL. WHEN REQUIRED BY SOIL TESTS.
- 3. GYPSUM: AGRICULTURAL GRADE, CONTAINING MINIMUM 98 PERCENT CALCIUM SULFATE, WHEN REQUIRED BY SOIL TEST.
- 4. HERBICIDE: PRE-EMERGENT TYPE; SURFLAN OR APPROVED SUBSTITUTE.
- 5. FERTILIZER FOR TREES AT PLANTING: PLANT HEALTH CARE GROUP "PHC TREE SAVER" APPLIED AS PER P.H.C.G. DIRECTIONS AND APPLICATION RATES.
- 6. FERTILIZER FOR LAWN: PLANT HEALTH CARE GROUP "PHC FOR TURF 15-1-6" APPLIED AT A RATE OF SEVEN (7) POUNDS PER 1,000 SQUARE FEET.
- 7. SOIL INOCULATES FOLLOWING TREE PLANTING: PLANT HEALTH CARE GROUP "PHC INJECTABLE INOCULANT FOR TREES" APPLIED AS PER PHCG MIXING DIRECTIONS AND APPLICATION RATES.
- 8. FERTILIZER FOR PLANTER BED MIX: PLANT HEALTH CARE GROUP "HEALTHY START 3-4-3" APPLIED AT A RATE OF 25 POUNDS CUBIC YARD OF PLANT BED MIX.

H.) TURF:

- 1. ALL SEED USED SHALL BE HIGH QUALITY, EXTRA FANCY, TREATED LAWN TYPE SEED AT 98% PURITY AND 85% GERMINATION; AND SHALL BE FURNISHED IN SEALED STANDARD CONTAINERS WITH SIGNED COPIES OF A STATEMENT FROM THE VENDOR CERTIFYING THAT EACH CONTAINER OF SEED DELIVERED IS FULLY LABELED IN ACCORDANCE WITH THE TEXAS STATE AGRICULTURAL CODE AND IS EQUAL TO OR BETTER THAN THE REQUIREMENT OF THESE SPECIFICATIONS. LAWN SEED TO BE FREE OF WEEDS OR NOXIOUS GRASS SEEDS.
- 2. SEED WHICH HAS BECOME WET, MOLDY OR OTHERWISE DAMAGED IN TRANSIT OR STORAGE WILL NOT BE ACCEPTED.
- 3. GRASS SEED SCHEDULE:
 - A. BERMUDA GRASS SEED:
 - B. MARCH-OCTOBER SHALL BE SPECIFIED BERMUDA.
 - C. OCTOBER-MARCH SHALL BE ANNUAL RYE GRASS.
 - 4. "HYDRO-MULCH" AS MANUFACTURED BY CONVED, OR APPROVAL EQUAL.
 - 5. THE HYDRO-MULCH SHALL BE COMPOSED OF WOOD CELLULOSE FIBER AND CONTAIN NO GERMINATION OR GROWTH-INHIBITING FACTORS.
 - 6. HYDRO-SEEDING ADDITIVE (BINDER); ECOLOGY CONTROL-M BINDER ORGANIC SEEDING ADDITIVE.
 - 7. SOD: PROVIDE FULL, DARK GREEN, UNIFORM, STRONGLY ROOTED SOD IN 16" X 24" STRIPS FREE FROM WEEDS, UNDESIRABLE GRASSES, DISEASES AND PESTS. SOD SHALL BE CUT FROM THE FIELD NO LONGER THAN 48 HOURS BEFORE PLANTING. ROOTS OF SOD SHALL BE KEPT MOIST.
 - 8. BRACING: TREE ANCHORS SHALL BE AS PER DETAILS.
 - 9. TREE PAINT: MORRISIN TREE SEAL, CABORT TREE PAINT, OR OTHER PRODUCT APPROVED BY LANDSCAPE ARCHITECT.
 - 10. PLANTER BED EDGING SHALL BE 3/16" X 4" STEEL EDGING WITH MANUFACTURERS STANDARD GREEN FINISH.

F.) MIXES:

- 1. PLANT BED MIX: PLANT BED MIX (BACKFILL MIX) SHALL BE NEW EARTH'S 4 WAY MIX AS PRODUCED BY NEW EARTH LLC, PH. 210-661-5180. DOCUMENTATION OF PURCHASE OF THIS SPECIFIC MIX SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT. IF EQUAL IS PROPOSED, CONTRACTOR SHALL SUBMIT SAMPLE AND COMPLETE ANALYSIS WITH TEST RESULTS AND METHOD OF PRODUCTION FOR EVALUATION AS AN EQUAL SUBSTITUTE.

PART 2 EXECUTION:

2.1 PREPARATION

LANDSCAPE CONTRACTOR SHALL RECEIVE THE SITE AT APPROXIMATELY FINISH GRADE LESS ANY SETTLEMENT THAT MAY HAVE OCCURRED SINCE SITE CONSTRUCTION AND BACKFILLING. THIS GRADE SHALL BE RAKED TO REMOVE ALL DEBRIS INCLUDING STICKS, CLODS, AND STONES AND SHALL BE FINE GRADED TO ELIMINATE ALL HUMPS, RUTS, DEPRESSIONS AND ABRUPT CHANGES IN GRADE AND ANY AREA THAT COULD CAUSE WATER TO POND.

A.) IF VEGETATION IS GROWING IN PLANTING/LAWN AREA, APPLY HERBICIDE AT RATES RECOMMENDED BY MANUFACTURER. ALLOW TO DIE, AND THEN GRUB OUT ROOTS TO MINIMUM 1/2 INCH DEPTH.

B.) MARK LOCATION OF TREES AND OUTLINES OF PLANTS BEDS USING COLORED WOOD STAKES OR FLAGS PRIOR TO BEGINNING PLANTING; OBTAIN LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO PROCEEDING.

2.2 PLANTING TREES AND SHRUBS

- A.) REMOVE CONTAINERS WITHOUT DAMAGE TO ROOTS.
- B.) REMOVE BOTTOM OF PLANT BOXES PRIOR TO PLACING PLANTS; REMOVE SIDES AFTER PLACEMENT AND PARTIAL BACKFILLING. PREVENT DAMAGE TO ROOTS.
- C.) REMOVE UPPER THIRD OF BURLAP FROM BALLED AND BURLAP TREES AFTER PLACEMENT.
- D.) PLACE PLANT UPRIGHT AND PLUMB IN CENTER OF HOLE. PULL ANY WEEDS GROWING IN TREE BALL AND EXPOSE ROOT FLARE (THIS WILL BE THE TOP MOST IDENTIFIABLE ROOT), REMOVE ANY GIRDLING ROOTS AND SET PLANT SO THAT ROOT FLARE IS 1" ABOVE FINISH GRADE. ORIENT PLANTS FOR BEST APPEARANCE. BACKFILL THE BOTTOM 1/3 OF THE EXCAVATION WITH SOIL CUT FROM EXCAVATION OF PIT AND THOROUGHLY WATER THIS SOIL TO SETTLE IN. BACKFILL THE REMAINDER OF THE EXCAVATION WITH A 50/50 MIX OF NEW EARTH'S 4 WAY MIX AND NATIVE SOIL EXCAVATED FROM THE PIT. PLACE PLANT HEALTH CARE GROUP'S "TREE SAVER" IN BACKFILL AS PER P.H.C.G. DIRECTION AND APPLICATION RATES. LIGHTLY TAMP AND WATER SOIL TO REMOVE ALL AIR POCKETS. FOR PLANTS OUTSIDE OF PLANTING BEDS, CONSTRUCT 3 INCH HIGH WATER CONTAINMENT RING AROUND PLANT. SPREAD MULCH TO MINIMUM 4 INCH DEPTH OVER PLANT BASIN.
- E.) ADJUST PLANT HEIGHT IF SETTLEMENT OCCURS AFTER BACKFILL AND STAKE AS DETAILED.
- F.) TWO TO THREE WEEKS FOLLOWING PLANTING, INJECT PLANT HEALTH CARE INJECTABLE INOCULANT AROUND ROOT BALL FOLLOWING MANUFACTURER'S DIRECTIONS AND APPLICATION RATES. CONTACT LANDSCAPE ARCHITECT TO OBSERVE THIS OPERATION.
- F.) TRIM PLANTS TO REMOVE DEAD AND INJURED BRANCHES ONLY. TREAT CUTS OVER 3/4 INCH DIAMETER WITH TREE PAINT.
- G.) BRACE PLANTS OVER 65 GALLONS SIZE IMMEDIATELY AFTER PAINTING.
 - 1. FOR TREES 2" CAL. AND GREATER PROVIDE STAKING AS DETAILED. POSITION TO PREVENT HAZARDS TO PEDESTRIANS.
 - 2. DO NOT RESTRICT PLANT MOVEMENT UNDER LIGHT WIND LOADS OR DAMAGE BARK.

2.3 PLANTING MASS SHRUBS, GROUNDCOVERS, AND ANNUALS (SEE DETAILS)

- A.) EXCAVATE PLANT BED TO DEPTH AS DETAILED ON PLANS.
- B.) BACKFILL WITH SPECIFIED 4-WAY MIX AND TILL IN SPECIFIED PLANT HEALTH CARE'S, "HEALTHY START 3-4-3" AT A RATE OF 25 LBS. PER CUBIC YARD OF PLANT BED MIX.
- C.) INSTALL METAL EDGINGS TO SEPARATE ALL PLANTER BEDS FROM TURF AND AT LOCATIONS INDICATED ON PLANS.
- D.) PLACE PLANTS IN STRAIGHT, EVENLY SPACED ROWS AT SPACING INDICATED ON DRAWINGS, TO UNIFORMLY FILL BEDS. USE TRIANGULAR SPACING METHOD UNLESS OTHERWISE INDICATED.
- E.) WATER PLANTS THOROUGHLY IMMEDIATELY AFTER PLANTING. REPAIR SETTLED AREAS.
- F.) ADJUST FINAL GRADES TO 1/2 INCH BELOW ADJACENT PAVING CURBS.
- G.) SPREAD MULCH TO MINIMUM 4 INCH DEPTH OVER PLANTING BEDS AS DETAILED.

2.4 CLEANING AND ADJUSTING

- A.) REMOVE PLANT CONTAINERS, TRASH, RUBBISH, AND EXCESS SOILS FROM SITE DAILY AND AT COMPLETION OF TREE, SHRUBS AND GROUNDCOVER PLANTING.
- B.) REPAIR RUTS, HOLES AND SCARS IN GROWING SURFACE.

2.4 LAWN APPLICATION (AT COMPLETION OF TREE, SHRUB AND GROUNDCOVER PLANTINGS)

- A.) COORDINATION:
 - 1. HYDROMULCH AND SOD AFTER TREE, SHRUB AND GROUNDCOVER INSTALLATION IS COMPLETE.
 - 1. CONTRACTOR TO COORDINATE WITH IRRIGATION CONTRACTOR TO INSURE FUNCTIONAL IRRIGATION SYSTEM PRIOR TO ANY LAWN INSTALLATION.
- B.) PREPARATION:
 - 1. PRE-PLANT WEED CONTROL: IF WEEDS EXIST WITHIN PROPOSED LANDSCAPE AREAS AT THE BEGINNING OF WORK, SPRAY WITH A NON-SELECTIVE SYSTEMIC CONTACT HERBICIDE, AS RECOMMENDED AND APPLIED BY AN APPROVED LICENSED APPLICATOR. CLEAR AND REMOVE THESE EXISTING WEEDS UPON HERBICIDE'S COMPLETED ACTION BY GRUBBING OFF ALL PLANTS AT LEAST 1/2"-1" BELOW THE SURFACE OF THE SOIL.
 - 2. CONTRACTOR TO SCARIFY GROUND SURFACE TO A MINIMUM 2" DEPTH FOR ALL GRASSES AND REMOVE ALL STICKS, TRASH, ROCKS AND OTHER DEBRIS AND DISPOSE OFF SITE.
 - 3. IF EXISTING SOIL IN AN AREA IS FOUND TO BE CONTAMINATED OR OTHERWISE UNSUITABLE, CONTRACTOR SHALL PROVIDE COST PER CUBIC YARD TO REPLACE WITH SOIL SUITABLE FOR TURF.
 - 4. CONTRACTOR TO RAKE ENTIRE AREA, LEVELING ANY IMPERFECTIONS IN THE GRADE. LANDSCAPE CONTRACTOR TO ENSURE THAT THERE WILL BE POSITIVE DRAINAGE AND NO PONDING ON SITE. FINISHED GRADE OF LAWN AREAS TO BE 1/2" BELOW TOP OF CURBS, SIDEWALKS AND OTHER PAVEMENTS. REMOVE ANY LARGE (GREATER THAN 1") DIRT CLODS, ROCKS, AND TRASH AND PREPARE A SMOOTH, LEVEL, LOOSE AND COARSE SURFACE. LANDSCAPE ARCHITECT TO APPROVE FINE GRADING PRIOR TO ANY LAWN INSTALLATION. LAWN BED SHALL BE MOIST (BUT NOT MUDDY) TO RECEIVE SEED AND SOD.
- C.) HYDROMULCH APPLICATION:
 - 1. FOR ALL HYDROMULCH AREAS, INSTALL SOD STRIPS OF BERMUDA GRASS AT ALL BACKS OF CURBS WITHIN THE LIMITS OF CONSTRUCTION.
 - 2. LAWN AREAS TO BE SEEDED IMMEDIATELY AFTER PREPARATION OF THE BED. APPLY A UNIFORM COAT OF HYDROMULCH AT THE RATES SPECIFIED BELOW:
 - A. SEED (REF. SCHEDULE 1.6 H.3):
 - 1) BERMUDA (HULLED)-2 LBS./1,000 S.F.
 - 2) ANNUAL RYE GRASS-8 LBS./1,000 S.F.
 - B. WOOD CELLULOSE FIBER MULCH - 60 LBS./1,000 S.F.
 - C. FERTILIZER "PHC FOR TURF" AT A RATE OF SEVEN (7) POUNDS PER 1,000 SQUARE FEET.
 - D. INCORPORATE A TACKIFIER WITH MULCH CAP. DELAY IRRIGATION 8 HOURS TO PERMIT TACKIFIER TO SET.
 - 3. SEED AREAS WITHIN SEEDING LIMITS INDICATED ON THE PLAN AND AREAS DISTURBED BY CONSTRUCTION OPERATIONS.
 - 4. PROTECT EXISTING UTILITIES (INCLUDING IRRIGATION SYSTEM), PLANTING, PAVING, FENCING, AND OTHER SITE AMENITIES FROM DAMAGE CAUSED BY HYDROMULCHING OPERATION.
 - 5. IMMEDIATELY FOLLOWING APPLICATION OF HYDROMULCH, THE CONTRACTOR SHALL WASH EXCESS HYDROMULCHING MATERIAL FROM PREVIOUSLY PLANTED MATERIAL, ARCHITECTURAL FEATURES, ETC. CARE SHALL BE EXERCISED TO AVOID WASHING OR ERODING MULCH MATERIALS FROM LAWN AREA.
 - 6. UPON ESTABLISHMENT OF LAWN, APPLY A POST EMERGENT HERBICIDE FOR CONTROL OF NUT GRASS AND WEEDS. FERTILIZE AT 45 DAY INTERVALS WITH SPECIFIED PLANT HEALTH GROUP'S FERTILIZER AT A RATE OF SEVEN (7) POUNDS PER 1,000 SQUARE FEET DURING AT 45 DAY INTERVALS DURING THE 90 DAY MAINTENANCE PERIOD.
 - 7. DURING THE MONTHS OF OCTOBER THROUGH MARCH CONTRACTOR SHALL HYDROSEED ALL LAWN AREAS WITH ANNUAL RYE GRASS. THE CONTRACTOR SHALL RETURN TO THE SITE BETWEEN APRIL 1ST AND MAY 15 TO RE-PREPARE SEED BED AND HYDROMULCH WITH SPECIFIED BERMUDA SEED IN ORDER TO ESTABLISH A PERMANENT TURF COVER IN ALL LAWN AREAS.

D.) SOD INSTALLATION:

- 1. INCORPORATE SPECIFIED LAWN FERTILIZER AT SEVEN (7) POUNDS PER 1000 SQUARE FEET OF LAWN AREA FOR SOD.
- 2. PRE-EMERGE HERBICIDE APPLICATION: APPLY RECOMMENDED HERBICIDE TO LABEL INSTRUCTIONS IN TWO APPLICATIONS. THE FIRST APPLICATION WILL BE UP TO 10 DAYS PRIOR TO PLANTING. THE SECOND APPLICATION WILL BE 5 DAYS PRIOR TO PLANTING. USE CARE TO AVOID WIND DRIFT OR RUNOFF TO ADJACENT ORNAMENTAL TREE OR SHRUB PLANTINGS.
- 3. LAY SOD WITHIN 24 HOURS FROM TIME OF STRIPPING.
- 4. LAY SOD TO FORM SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS SOD TO AVOID SMOTHERING ADJACENT GRASS.
- 5. SOD PADS SHALL BE OF FULLEST SIZE POSSIBLE-NO SOD SLIVERS WILL BE PERMITTED.
- 6. FINISHED GRADE OF NEW SOD SHALL BE FLUSH WITH ADJACENT LAWN AND PAVEMENT. ENSURE POSITIVE DRAINAGE.
- 7. ROLL ENTIRE SODDED AREA WITH SOD ROLLER, WATER SOD THOROUGHLY.
- 8. CONTRACTOR SHALL OVERSEED SOD AREAS WITH ANNUAL RYE GRASS IF LAWN INSTALLATION OCCURS SEPTEMBER 15 THROUGH APRIL 15 AT 8 LBS. 1,000 S.F.
- 9. SHOULD LAWN AREAS BE SEEDED WITH ANNUAL RYE GRASS THE CONTRACTOR SHALL RETURN TO THE SITE BETWEEN APRIL 15 AND MAY 15 TO RE-PREPARE SEED BED AND SEED WITH BERMUDA.

2.5 ACCEPTANCE

- A.) PRIOR TO SCHEDULING A SUBSTANTIAL COMPLETION INSPECTION LANDSCAPE CONTRACTOR SHALL THOROUGHLY CLEAN SITE OF ALL DEBRIS AND TRASH AND REPAIR ANY DAMAGE TO FINISH GRADE. WHEN LANDSCAPE WORK IS COMPLETE A SUBSTANTIAL COMPLETION INSPECTION WILL BE HELD. FOLLOWING COMPLETION OF ANY PUNCH LIST ITEMS GENERATED FROM THE SUBSTANTIAL COMPLETION INSPECTION A FINAL INSPECTION WILL BE HELD AND IF FOUND ACCEPTABLE A CERTIFICATE OF FINAL ACCEPTANCE WILL BE ISSUED.
- B.) LANDSCAPE CONTRACTOR SHALL CONTINUE MAINTENANCE UNTIL FINAL ACCEPTANCE AT WHICH TIME THE SPECIFIED MAINTENANCE PERIOD WILL BEGIN.

END OF SPECIFICATIONS

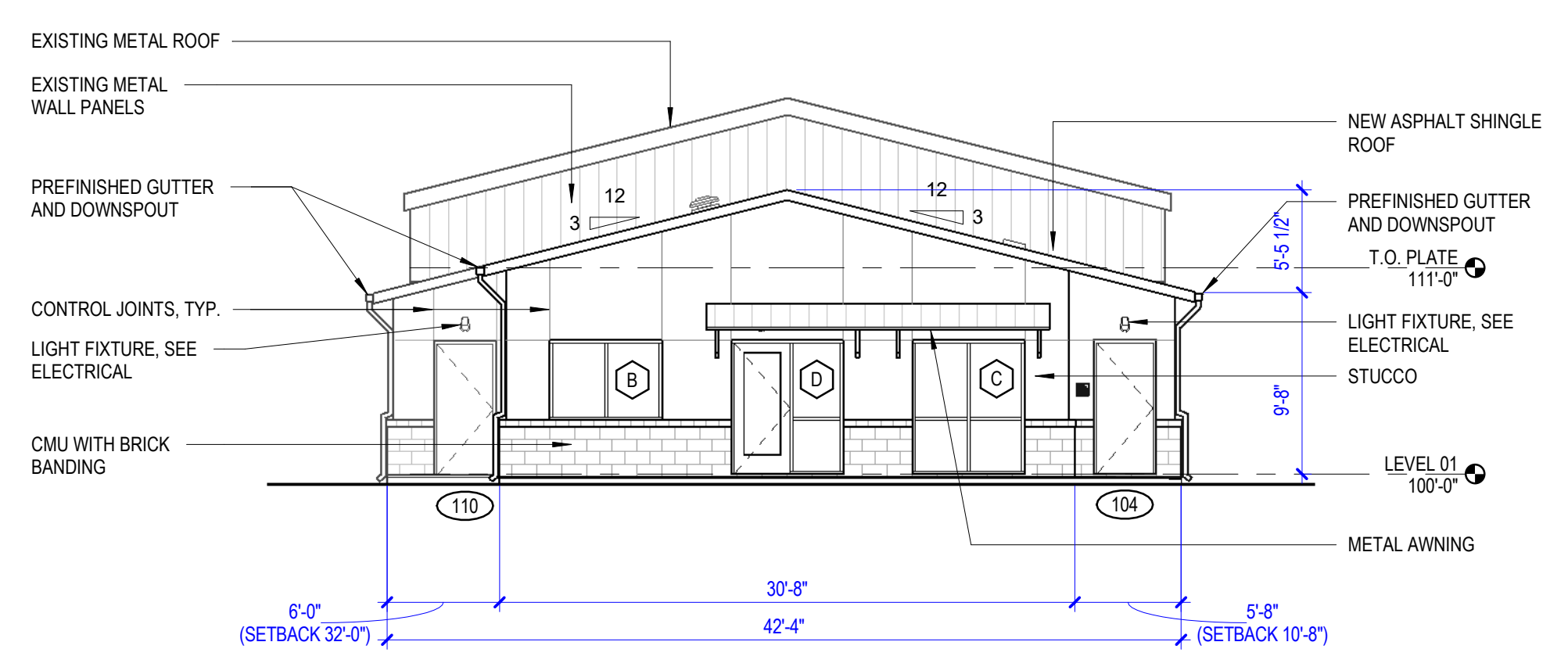
SUBDIVISION: GOOD SHEPHERD CATHOLIC CHURCH
BLOCK 1, LOT 1
ZONING: PUBLIC USE
ADDRESS: 1085 E LIVE OAK ROAD, SCHERTZ, TX 78154
BUILDING DESIGN CATEGORY: PUBLIC OFFICE

PROJECT: CHURCH OF THE GOOD SHEPHERD - SVDP BUILDING
SHEET TITLE: EXTERIOR ELEVATIONS & BUILDING SECTIONS

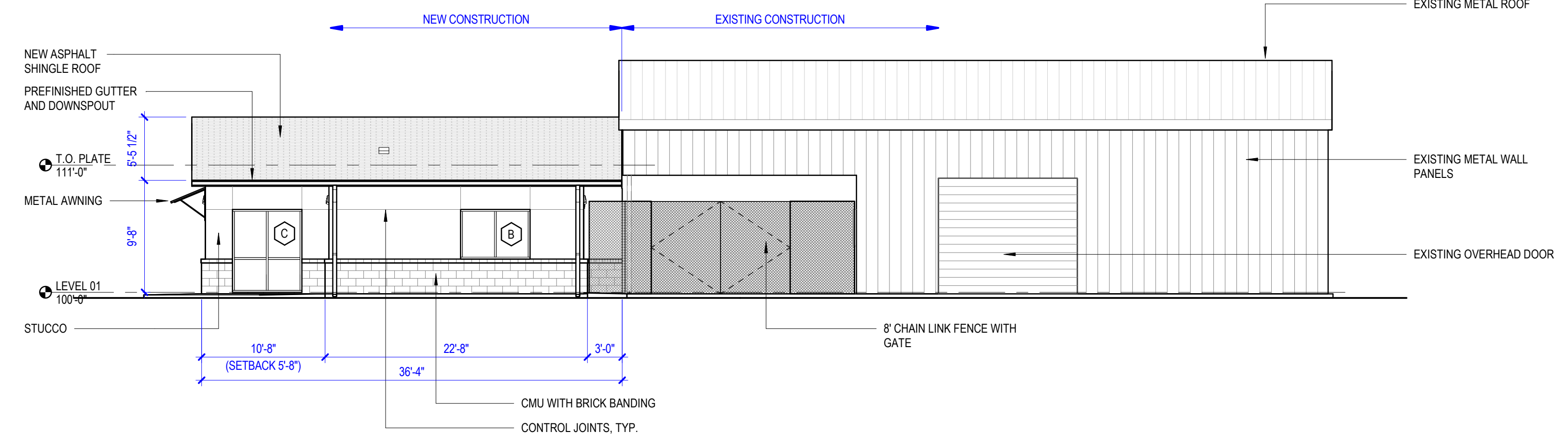
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REVISIONS DATE

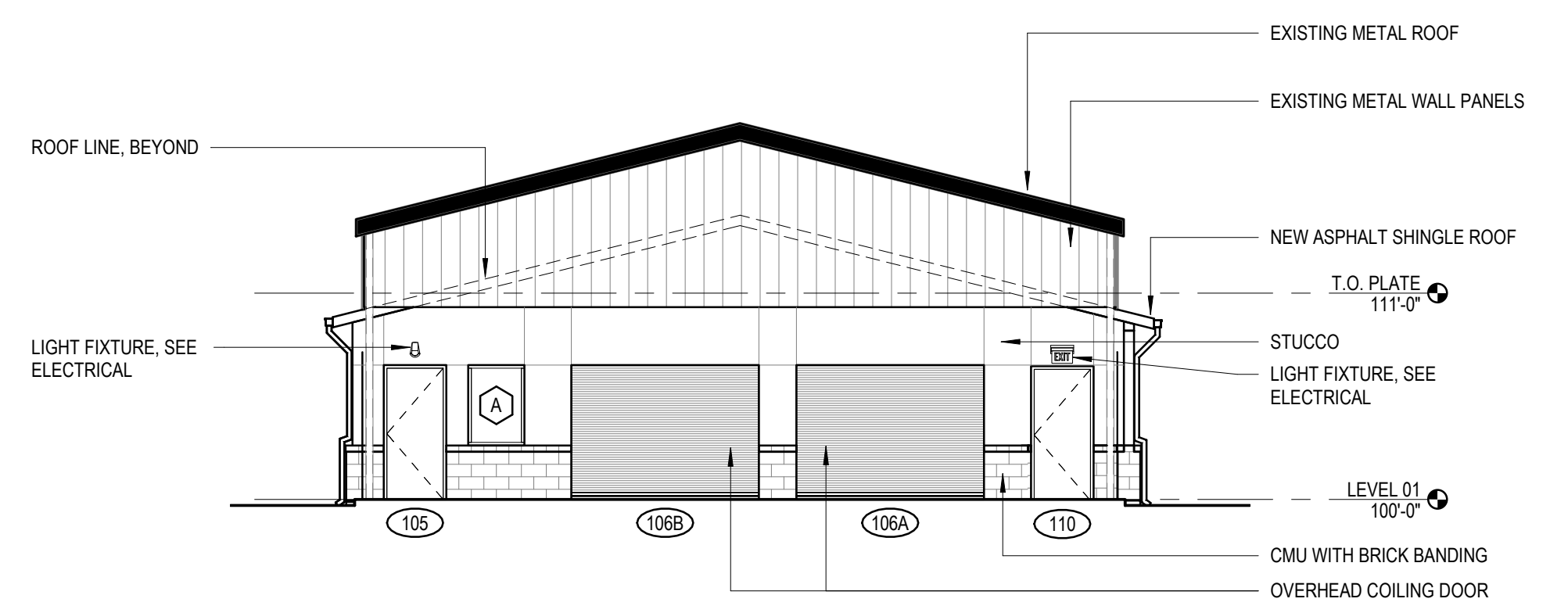
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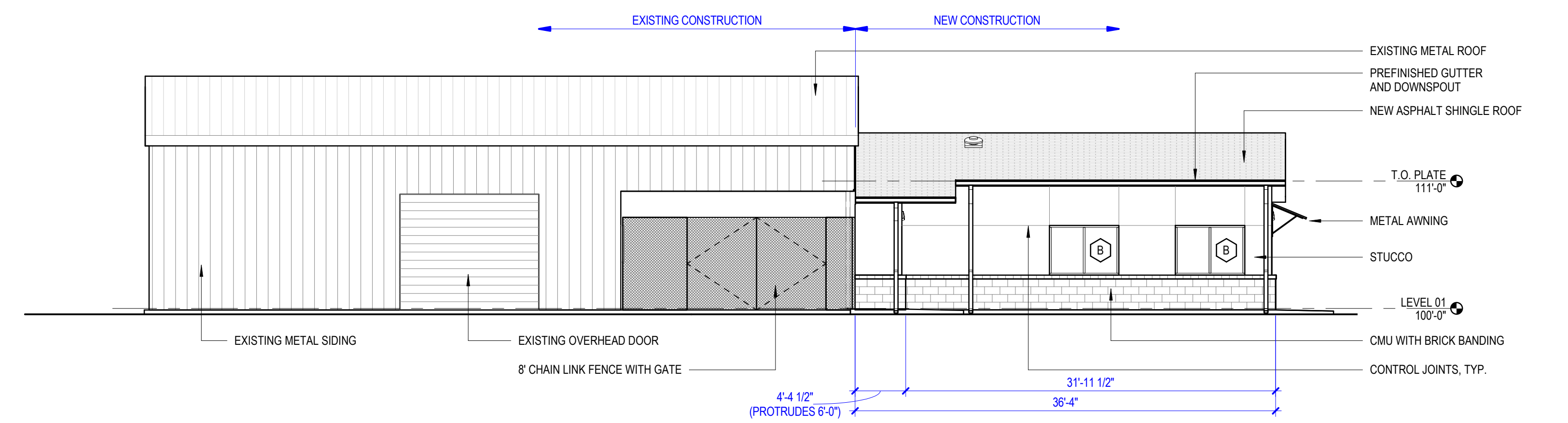
1 SOUTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



3 NORTH ELEVATION (THRU EXISTING COVERED AREA)
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"



THE DESIGN INTENT FOR THE PROJECT IS TO MATCH THE EXISTING MATERIALS USED ON THE EXISTING BUILDING ON SITE.

5 PROJECT MATERIALS
(PHOTOGRAPH OF EXISTING ADMINISTRATION BUILDING ON THE PROPERTY)
1/2" = 1'-0"