

COMMUNITY DEVELOPMENT SERVICES DEPARTMENT
6116 BROADWAY
SAN ANTONIO, TX 78209
210-826-0516

Architectural Review Board Meeting March 18, 2025 – 5:30 P.M.

Take notice that a regular Architectural Review Board meeting of the City of Alamo Heights will be held on **Tuesday, March 18, 2025 at 5:30pm** in the City Council Chamber, located at 6116 Broadway St, San Antonio, Texas, 78209, to consider and act upon any lawful subjects with may come before it.

INSTRUCTIONS FOR TELECONFERENCE: Members of the public may also participate via audio by dialing 1-346-248-7799 Meeting ID 868 0184 5240. If you would like to speak on a particular item, when the item is considered, press *9 to "raise your hand". Citizens will have three (3) minutes to share their comments. The meeting will be recorded.

Case No. 967F – 159 Burr Rd

Request of Joshua Ficarro of Pape-Dawson Engineers, applicant, representing Wendell Hall of the San Antonio Country Club, owner, for the final review in order to construct and expand an existing paved parking lot located at 159 Burr Rd under Chapter 2 Administration for Architectural Review.

Chapter 5 of Code of Ordinances (Buildings and Building Regulations) requires City Council to consider the ARB's recommendation for all demolition/final design review applications. Please check the ARB posted results on the City's website after the ARB meeting to confirm any future meeting dates.

Plans may be viewed online at http://www.alamoheightstx.gov/departments/planning-and-development-services/public-notices/ and at the Community Development Services Department located at 6116 Broadway St. You may contact Dakotah Procell, Planner at 210-832-2239 (departments/planning-and-development-services/ Department located at 6116 Broadway St. You may contact Dakotah Procell, Planner at 210-832-2239 (departments/planning-and-development-services/ public-notices/ and at the Community Development Services Department located at 6116 Broadway St. You may contact Dakotah Procell, Planner at 210-832-2239 (departments/gentle-alamoheightstx.gov) or Lety Hernandez, Director, at 210-832-2250 (le-alamoheightstx.gov), or our office at (210) 826-0516 for additional information regarding this case.



January 6, 2025

City of Alamo Heights
Planning and Zoning Commission
6116 Broadway
Alamo Heights, TX 78209

Re: San Antonio Country Club-Phase 2 Parking Expansion

Architectural Review Board Submittal

To Whom It May Concern:

The proposed parking lot expansion is a 0.69-acre commercial development located approximately 300 LF west from the intersection of Burr Rd and N New Braunfels Avenue. The planned development will consist of an expansion on the existing parking lot to serve the San Antonio Country Club.

The site is abutting a residential home to the west (Lot 29, Block 3), an existing parking lot to the east, Burr Rd to the South and an alley to the north. The site is currently partially developed with a single-family home, anticipated to be demolished in early 2025.

The proposed parking lot will include 23,865 SF of impervious cover with 67 parking spaces and landscaped curb islands. The site will be fenced off on the north, south and west sides. The entrance to the parking lot will be via the existing parking lot from N. New Braunfels Ave. The proposed landscape plans will be similar to the existing parking lot and will meet the requirements for the City of Alamo Heights.

Sincerely,
Pape-Dawson Engineers

Josh Ficarro Project Manger

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BURR ROAD PARKING LOT - PHASE 2

BURR ROAD PARKING LOT - PHASE 2

ALAMO HEIGHTS, TEXAS

CIVIL CONSTRUCTION PLANS



PREPARED FOR:

SAN ANTONIO COUNTRY CLUB 4100 N. NEW BRAUNFELS SAN ANTONIO, TEXAS 78209

JANUARY 2025





SHEET INDEX

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STORM WATER POLLUTION PREVENTION DETAILS	C1.10
DIMENSIONAL CONTROL AND PAVING PLAN	C1.20
GRADING AND DRAINAGE PLAN	C2.00
SITE CIVIL DETAILS	C3.00

Landscape / Irrigation Plans	Sheet No.
TREE PRESERVATION PLAN	LTP 1.1
PLANTING PLAN	LP 1.1
PLANTING SCHEDULE, NOTES, AND DETAILS	LP 2.1
IRRIGATION NOTES AND LEGEND	LI 1.0
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IRRIGATION DETAILS - SHEET 2 OF 2	LI 2.2

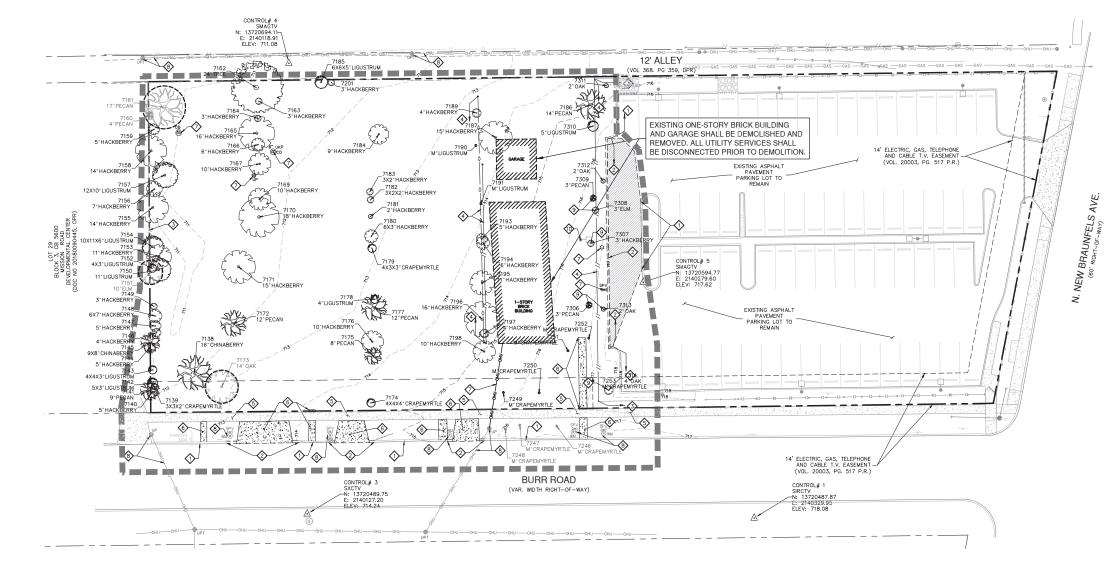
Electrical Plans	Sheet No
ELECTRICAL GENERAL NOTES AND LEGEND	E1.0
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LEGAL DESCRIPTION: LOT 41, BLOCK 3, C.B. 5600, COUNTRY OF HEIGHTS SUBDIVISION (1.370 ACRES

159 BURR RD. ALAMO HEIGHTS, TEXAS 7820

Date: Jan 06, 2025, 4:55pm User ID: Ificarro File: P: \75\31\10\Design\civi\CV-753110.dwg

TREE PROTECTION DETAIL



TREE PRESERVATION NOTES

HORIZONTAL & VERTICAL CONTROL POINTS						
Point	Northing	Easting	Raw Description	Elevation	Grid Northing	Grid Easting
1	13,720,487.870	2140329.950	SIRCTV	718.08'	13,718,155.784	2,139,966.156
3	13,720,489.750	2140127.195	SXCTV	714.24	13,718,157.663	2,139,763.435
4	13,720,694.110	2140118.909	SMAGTV	711.08'	13,718,361.988	2,139,755.151
5	13,720,594.770	2140279.599	SMAGTV	717.62	13,718,262.665	2,139,915.813



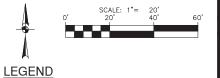
LEGAL DESCRIPTION: LOT 41, BLOCK 3, C.B. 5600, COUNTY

EXISTING OVERHEAD UTILITY LINE & POLE

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94900

PAPE-DAWSON ENGINEERS



_____ LIMITS OF CONSTRUCTION PROPERTY LINE EXISTING WATER LINE

EXISTING TREE TO BE REMOVED (REFER TO TREE PRESERVATION AND LANDSCAPE PLAN)

EXISTING TREE TO REMAIN AND TO BE PROTECTED (REFER TO TREE PRESERVATION AND LANDSCAPE PLAN

KEYED NOTES

- 3 EXISTING FENCE LINE TO REMAIN
- 4 EXISTING FENCE LINE TO BE REMOVED
- 5 EXISTING CONCRETE SIDEWALK TO REMAIN
- 6 EXISTING CONCRETE DRIVEWAY AND SIDEWALK TO BE REMOVED
- (B) EXISTING WATER VALVES & METERS, UTILITY POLES, AND UTILITY LINES TO REMAIN
- EXISTING LIGHT POLE TO REMAIN (REFER TO ELECTRICAL PLANS)

NOTE

SEE SHEET CO.10 FOR ADDITIONAL GENERAL NOTES.

CAUTION!!! THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.

2 Ш **PHAS** ROAD PARKING ALAMO HEIGHTS, BURR

PLAN

DEMOLITION

CONDITIONS AND

EXISTING

PLAT NO. N/A JOB NO. 7531-10 DATE JANUARY 2025 DESIGNER_____JF CHECKED DM DRAWN LF C0.20



SCALE: 1"= 20' 20' 40'

PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) PAPE-DAWSON ENGINEERS

2

S

ALAMO HEIGHTS, TEXAS

RO

BURR

LAT NO.

N/A

STORM WATER POLLUTION PREVENTION PLAN

PROPERTY LINE PROJECT LIMITS EXISTING CONTOUR

ROCK BERM

GRAVEL FILTER BAGS STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)

CONSTRUCTION EQUIPMENT, VEHICLE MATERIALS STORAGE AREA (FIELD LOCATE) CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSHETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.

PHA 3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND BY THE RESPONSIBLE PARTY.

4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATION BY USE OF ADEQUATE FENCING, IF NECESSARY.

5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.

6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTIO PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTIO PREVENTION PLAN.

7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATM MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISCLARITY.

9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.

11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.

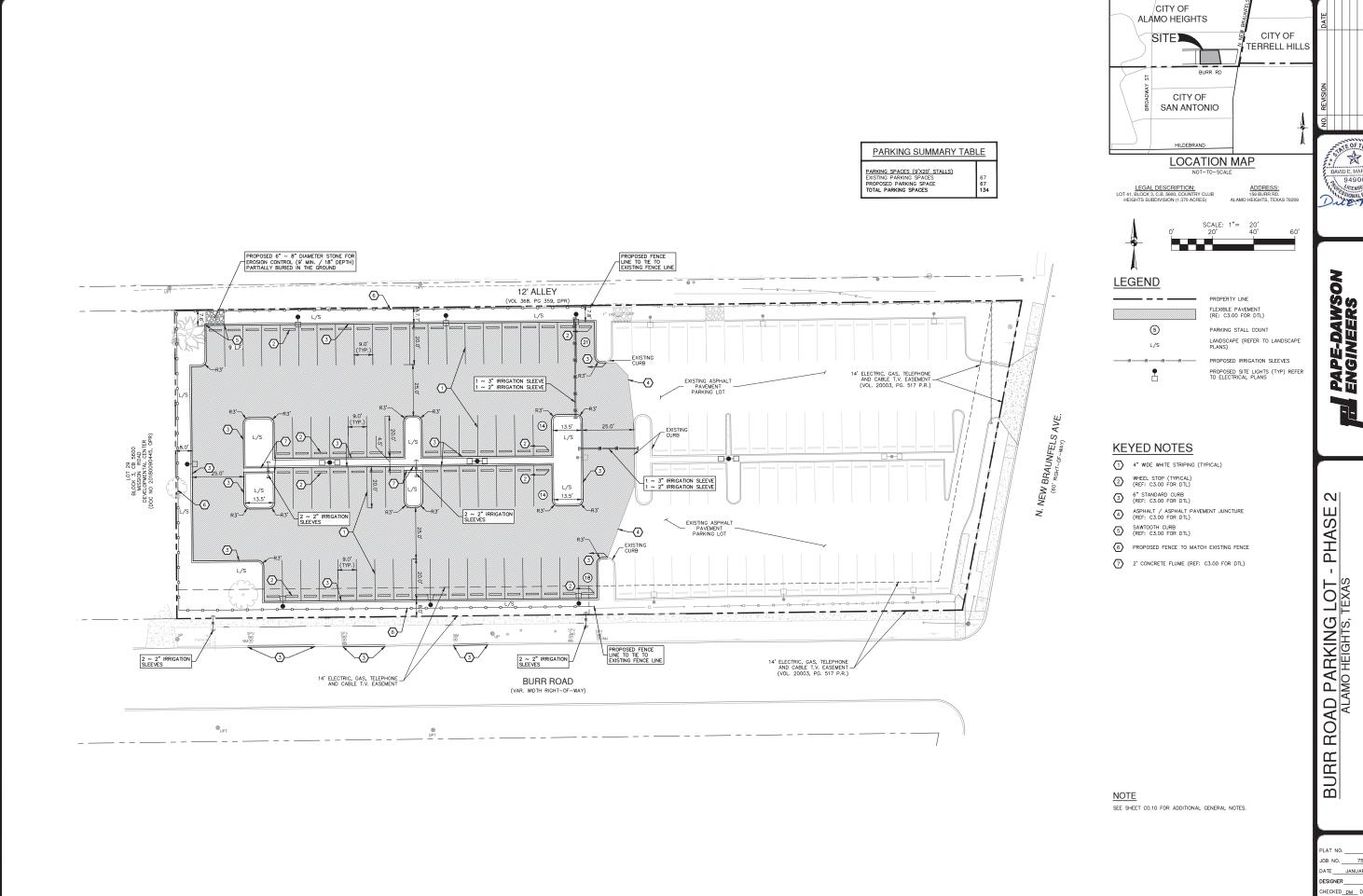
12. WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHAPVERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACT SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.

14. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THI PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SIT CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR T PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES—STORM WAT POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

JOB NO. 7531-10 DATE JANUARY 2025 DESIGNER_____JF CHECKED DM DRAWN LF **EXHIBIT 2** C1.00

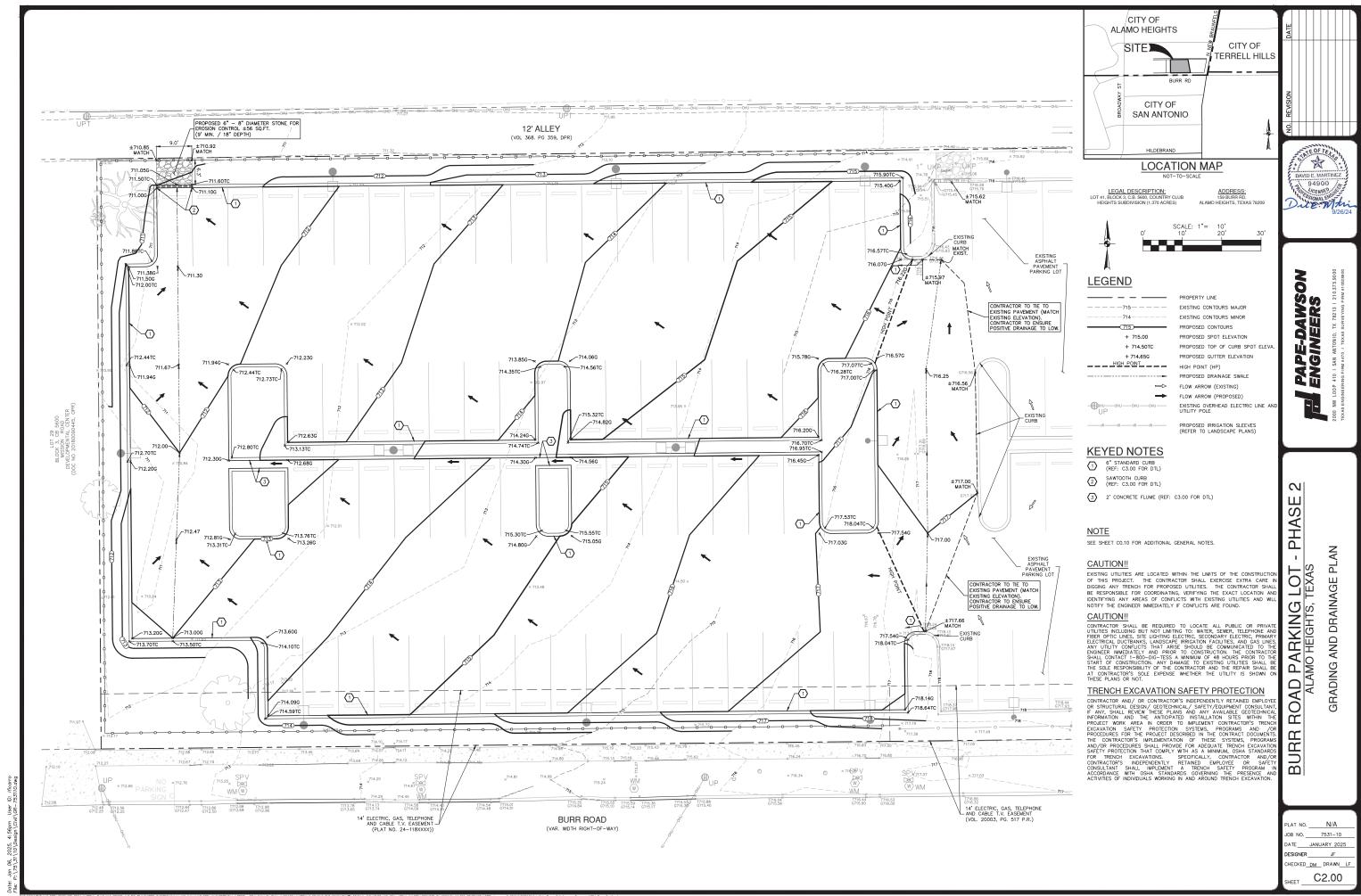


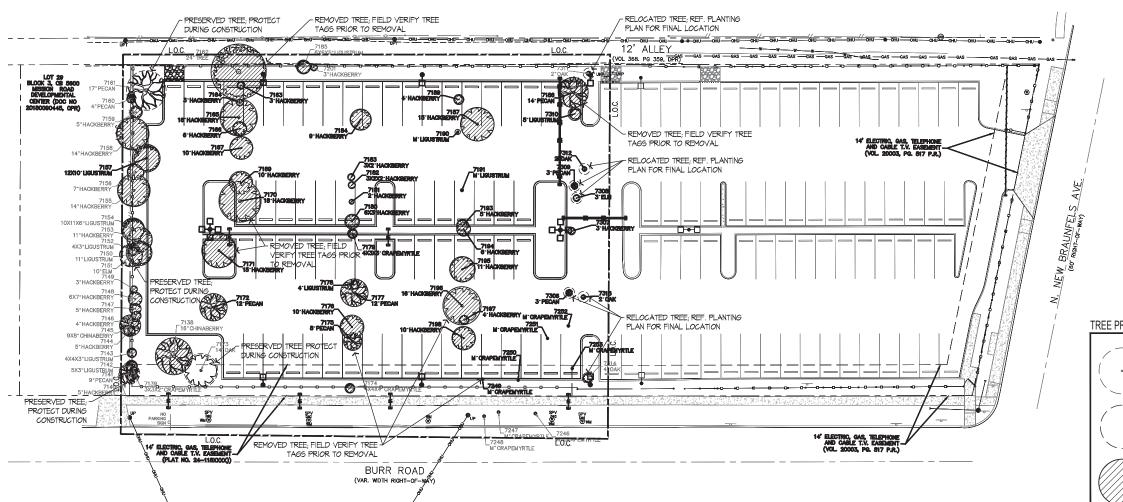
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PLAT NO. N/A JOB NO. 7531-10 DATE JANUARY 2025 DESIGNER_____JF CHECKED DM DRAWN LF неет _ С1.20

DIMENSIONAL CONTROL AND PAVING PLAN

PERMIT SET









TREE PRESERVATION LEGEND

EXISTING TREES NOT IN CONSTRUCTION LIMITS

EXISTING TREES TO BE PRESERVED

EXISTING TREES TO BE REMOVED

BURR ROAD PARKING EXPANSION

REMOVED TREE LIST

NUMBER	SPECIES	NOTES
#7138	16" CHINABERRY	REMOVED
#7139	5.5" CRAPE MYRTLE	REMOVED
#7140	5" HACKBERRY	REMOVED
#7142	6.5" LIGUSTRUM	REMOVED
#7143	7.5" LIGUSTRUM	REMOVED
#7144	5" HACKBERRY	REMOVED
#7145	13" CHINABERRY	REMOVED
#7146	4" HACKBERRY	REMOVED
#7147	5" HACKBERRY	REMOVED
#7148	9.5" HACKBERRY	REMOVED
#7149	3" HACKBERRY	REMOVED
#7150	II" LIGUSTRUM	REMOVED
#7152	5.5" LIGUSTRUM	REMOVED
#7153	II" HACKBERRY	REMOVED
#7154	13.5" LIGUSTRUM	REMOVED
#7155	14" HACKBERRY	REMOVED
#7156	7" HACKBERRY	REMOVED
#7157	IT" LIGUSTRUM	REMOVED
#7158	14" HACKBERRY	REMOVED
#7159	5" HACKBERRY	REMOVED
#7162	24" MULBERRY	REMOVED
#7163	3" HACKBERRY	REMOVED
#7164	3" HACKBERRY	REMOVED
#7165	16" HACKBERRY	REMOVED
#7166	6" HACKBERRY	REMOVED
#7167	IO" HACKBERRY	REMOVED
#7169	IO" HACKBERRY	REMOVED
#7170	18" HACKBERRY	REMOVED
#7 7	15" HACKBERRY	REMOVED
#7172	12" PECAN	REMOVED
#7174	8" CRAPE MYRTLE	REMOVED
#7175	8" PECAN	REMOVED

NUMBER	SPECIES	NOTES
#7176	IO" HACKBERRY	REMOVED
#7 77	12" PECAN	REMOVED
#7178	4" LIGUSTRUM	REMOVED
#7179	7" CRAPE MYRTLE	REMOVED
#7180	7.5" HACKBERRY	REMOVED
#7 8	2" HACKBERRY	REMOVED
#7182	5" HACKBERRY	REMOVED
#7183	4" HACKBERRY	REMOVED
#7 84	9" HACKBERRY	REMOVED
#7185	II.5" LIGUSTRUM	REMOVED
#7186	14" PECAN	REMOVED
#7187	15" HACKBERRY	REMOVED
#7189	4" HACKBERRY	REMOVED
#7190	*LIGUSTRUM - N/A	REMOVED
#7 9	*LIGUSTRUM - N/A	REMOVED
#7193	5" HACKBERRY	REMOVED
#7194	6" HACKBERRY	REMOVED
#7195	II" HACKBERRY	REMOVED
#7196	16" HACKBERRY	REMOVED
#7197	4" HACKBERRY	REMOVED
#7198	IO" HACKBERRY	REMOVED
#7201	3" HACKBERRY	REMOVED
#7246	*CRAPE MYRTLE - N/A	REMOVED
#7247	*CRAPE MYRTLE - N/A	REMOVED
#7248	*CRAPE MYRTLE - N/A	REMOVED
#7249	*CRAPE MYRTLE - N/A	REMOVED
#7250	*CRAPE MYRTLE - N/A	REMOVED
#7251	*CRAPE MYRTLE - N/A	REMOVED
#7252	*CRAPE MYRTLE - N/A	REMOVED
#7253	*CRAPE MYRTLE - N/A	REMOVED
#1301	3" HACKBERRY	REMOVED
#7310	5" LIGUSTRUM	REMOVED

PRESERVED TREE LIST

NUMBER	SPECIES	NOTES
#7 4	9" PECAN	PRESERVED
#7 5	IO" ELM	PRESERVED
#7160	4" PECAN	PRESERVED
#7161	17" PECAN	PRESERVED
#7173	14" OAK	PRESERVED
#1306	3" PECAN	PRESERVED
#1308	3" ELM	PRESERVED
#7309	3" PECAN	PRESERVED
#7311	2" OAK	PRESERVED
#7312	2" OAK	PRESERVED
#73 3	2" OAK	PRESERVED
#7314	4" OAK	PRESERVED

TREE PRESERVATION AND LANDSCAPE REQUIREMENTS:

TREE PRESERVATION: EXISTING HERITAGE TREES: TREE #1162 - 24" MULBERRY - TREE IN DECLINE NO HERITAGE TREE MITIGATION REQUIRED I HERITAGE TREE

EXISTING SITE TREES: SEE EXISTING TREE INVENTORY PROPOSED TREES:

4" CEDAR ELM (IO TOTAL) 4" LIVE OAK (12 TOTAL) 2" MOUNTAIN LAUREL (16 TOTAL)

LANDSCAPE TABULATIONS: PARKING LOT LANDSCAPING (LIMITS OF CONSTRUCTION):

A.) SECTION 3-59 (I) (A) - LANDSCAPE AREA WIDTH REQUIRED: 8' WIDE LANDSCAPE AREA ALONG PARKING AREA BOUNDARIES PROVIDED: 8' WIDE LANDSCAPE AREA ON THREE SIDES (NORTH, SOUTH AND WEST)

B.) SECTION 3-59 (I) (C) - LANDSCAPE PLAN AND PARKING LOT TREES REQUIRED: I. LANDSCAPE PLAN (SIZE, SPECIES, AND LOCATIONS OF PROPOSED LANDSCAPE.

2. ONE (I) 4" CALIPER TREE PER EIGHT (8) PARKING SPACES.

PROVIDED: I. LANDSCAPE PLAN
2. 9 PARKING LOT TREES 67 STALLS / 8 STALLS PER TREE = 8.375 = 9 PARKING LOT TREES

C.) SECTION 3-60 (4) - CANOPY TREES IN R.O.W. REQUIRED: PROVIDE AT LEAST ONE (I) CANOPY TREE FOR EACH 25' OF FRONTAGE PROVIDE: TOTAL FRONTAGE = 209 LF

209 LF / 25 LF = 8.36 TREES = 9 R.O.W. TREES PROVIDED

REFERENCE NOTE: REFERENCE SHEET LP SHEETS FOR PROPOSED PLANTING PLAN, PLANTING SPECIFICATIONS, NOTES AND DETAILS.

BURR ROAD



NORTH 0' 10' 20' SCALE: 1"=20'-0"

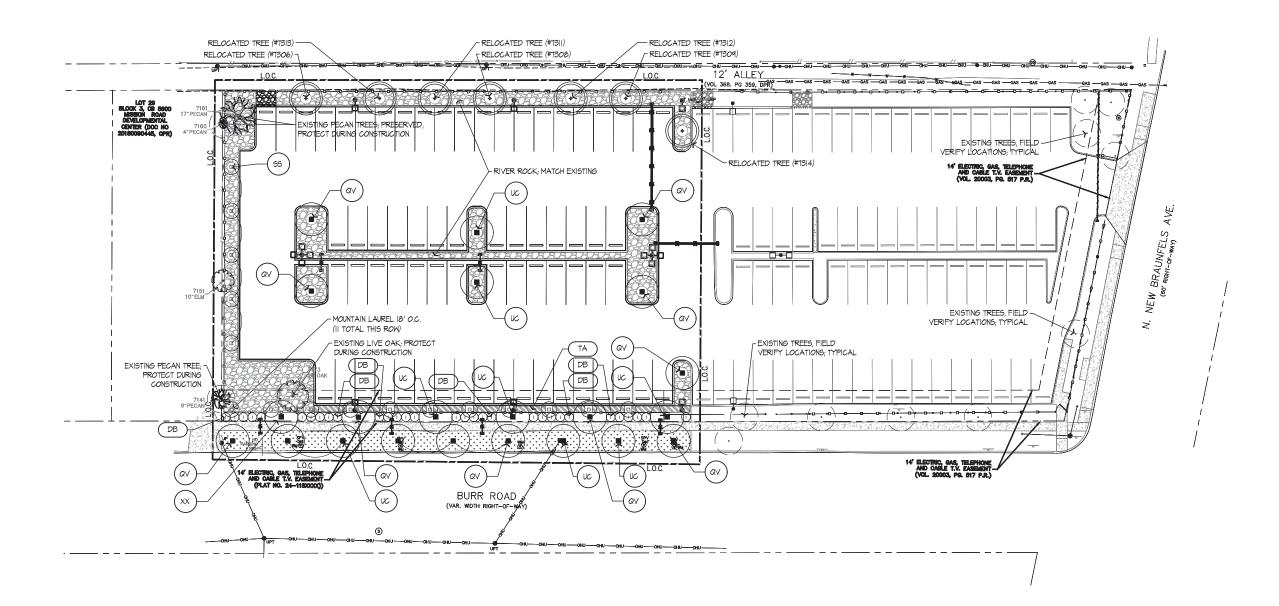
REVISIONS:

JANUARY 03, 2025 SHEET

TREE PRESERVATION PLAN







BURR ROAD PARKING EXPANSION

BURR ROAD ALAMO HEIGHTS, TEXAS



REVISIONS:

 PROJECT No:
 24023

 DATE:
 JANUARY 03, 2025

 SHEET:
 of

PLANTING PLAN

REFERENCE NOTE:
REFERENCE SHEET LP 2.1 FOR PLANT LIST,
PLANTING SPECIFICATIONS, NOTES AND
PLANTING DETAILS

LP 1.1

PLANTING SPECIFICATIONS:

PART I - GENERAL NOTES

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

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, CONSTRICTION SHALL STOP WORK AND LANDSCAPE CONTRACTOR SHALL IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT / ONNER BEFORE PROCEEDING. LANDSCAPE CONTRACTOR SHALL BE LIABLE FOR ALL MODIFICATIONS AND DAVAGE IF WORK PROCEEDS IN EITHER OF THE ABOVE SITUATIONS WITHOUT NOTIFYING LANDSCAPE ARCHITECT / OWNER.

PRIOR TO ANY EXCAVATION, LANDSCAPE CONTRACTOR SHALL CONTACT APPROPRIATE AUTHORITIES INCLUDING, BUT NOT LIMITED TO, TEXAS ONCE 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 MORK 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 SIMULTANDUSLY AND SHALL COORDINATE STAGING OF HIS WORK WITH ONNER 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.

WARRANTIES:

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

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

 C. NOTIFY OWNER 30 DAYSPRIOR TO EXPIERATION OF WARRANTY PERIOD AND ARRANGE FINAL ACCEPTANCE INSPECTION BY ALL PARTIES.

 I. REMOVE DEAD, UNHEALTHY PLANT MATERIAL

 2. REMOVE GUING AND STAKING MATERIALS.

 3. WARRANT REPLACEMENT PLANTS UNDER SAME PROVISIONS AND FOR THE SAME PERIOD AS THE ORIGINAL PILANTS.

- A. MAINTAIN PLANT LIFE IMMEDIATELY AFTER PLACEMENT AND FOR SIXTY (60) DAYS AFTER FINAL
- B REPLACE DEAD OR DYING PLANTS WITH PLANTS OF SAME SIZE AND SPECIES SPECIFIED

- B. REPLACE DEAD OR DYING PLANTS WITH PLANTS OF SAME SIZE AND SPECIES SPECIFIED.

 C. REMOVE TRASH, DEBRIS, AND LITTER WATER, PRUNE, FERTILIZE, WEED, AND MOW. SPOT APPLY HERBICIDES AND FUNGICIDE ONLY AS REQUIRED.

 D. REMOVE CLIPPINGS AND DEBRIS FROM SITE PROMPTLY.

 E. COORDINATE WITH OPERATION OF IRRIGATION SYSTEM TO ENSURE THAT PLANTS ARE ADEQUATELY WATERED. HAND WATER AREAS NOT RECEIVING ADEQUATE WATER FROM IRRIGATION SYSTEM.

 F. RESET SETTLED PLANTS

 G. REAPPLY MULCH TO BARE AND THIN AREAS TO MAINTAIN 4" DEPTH.

A. PLANT MATERIALS

- I. CERTIFIED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z60.1- NURSERY
- 2. SPECIES AND SIZE AS INDICATED IN PLANT SCHEDULE. LARGER SIZE MAY BE SUBSTITUTED WITHOUT
- 2. SPECIES AND SIZE AS INDICATED IN PLANT SCHEDULE. LARGER SIZE MAY BE SUBSTITUTED WITH ADDITIONAL COST TO OWNER.
 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, DETECTS INCLUDING MEAK OR BROKEN LIMPS, CROTCHES AND DAMAGED TRUNKS, FOR LEAVES, SUN SCALD, FRESH BARK ABRASIONS, EXCESSIVE ABRASIONS, AND OBJECTIONABLE DISEIGUIDENDAM
- DISFIGUREMENTS. 5. EXHIBIT NORMAL GROWTH HABITS, VIGOROUS, HEALTHY, FULL, WELL-PROPORTIONED, AND
- 5. TREE TRUNKS TO BE STURDY AND EXHIBIT HARDENED SYSTEMS AND VIGOROUS AND FIBROUS ROOT SYSTEMS, NOT ROOT OR POT BOUND. . CONTAINER-GROWN STOCK.

- USE SITE GENERATED SOIL FROM PLANTING PREPARATIONS, REASONABLY FREE FROM CLAY LUMPS,
- COURSE SANDS, STONES, ROOTS, AND OTHER FOREIGN MATTER.

 2. USE IMPORTED TOPSOIL FROM APPROVED VENDER SUCH AS NEW EARTH SOILS AND COMPOST
- (210-661-5180) TO DEPTH DEMONSTRATED IN PLANS
- (2(C-PB)-1007) TO PB. THE STATE OF THE STATE
 - . . SOD: PROVIDE FULL, DARK GREEN, UNIFORM, STRONGLY ROOTED SOD IN 16"X24" STRIPS FREE FROM WEEDS, UNDESIRABLE GRASSES, DISEASES AND PESTS. SOD SHALL BE CUT FROM THE FIELD NO LONGER THAN 48 HOURS PRIOR TO PLANTING. ROOTS OF SOD SHALL BE KEPT MOIST.

E. TREES

- 2. TREE PAINT: MORRISON TREE SEAL, CABOT TREE PAINT, OR OTHER PRODUCT APPROVED BY LANDSCAPE ARCHITECT.
- ING . PLANTER BED EDGING SHALL BE 3/16" X 4" STEEL EDGING WITH MANUFACTURER'S STANDARD GREEN FINISH, UNLESS OTHERWISE NOTED IN PLANS.
- G. MIXES

 I. PLANT BED MIX: PLANT BED MIX (BACKFILL MIX) SHALL BE NEW EARTH'S 4-WAY MIX AS PRODUCED BY NEW EARTH LLC (PH. 2)0661-5180). DOCUMENTATION OF THIS PURCHASE SHALL BE PROVIDED TO LANDSCAPE ARCHITECT. IF EQUAL IS PROPOSED, CONTRACTOR MUST SUBMIT SAMPLE AND COMPLETE

ANALYSIS WITH TEST RESULTS AND METHOD OF PRODUCTION FOR EVALUATION AS AN EQUAL SUBSTITUTE.

PART 2 - EXECUTION

PREPARATION
LANDSCAPE CONTRACTOR SHALL RECEIVE 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 OR ANY AREA THAT COULD CAUSE WATER TO

- . I. IF VEGETATION IS GROWING IN PLANTING/LAWN AREAS, APPLY HERBICIDE AT RATES RECOMMENDED BY
- MANUFACTURER ALLOW TO DIE, AND THEN SRUB OUT ROOTS TO MINIMUM 1/2 DEFTH.

 2. MARK LOCATION OF TREES AND OUTLINES OF PLANT BEDS USING COLORED WOOD STAKES OR FLASS PRIOR TO BESINNING PLANTING; DSTAIN APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO

- PROCEEDING.
 TREE AND SHRUB PLANTING (SEE DETAILS):

 A. REMOVE CONTAINERS MITHOUT DAMAGE TO ROOTS.

 B. REMOVE BOTTOM OF PLANT BOXES PRIOR TO PLACING PLANTS; REMOVE SIDES AFTER PLACEMENT AND PARTIAL BACKFILLING. PREVENTS 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 PURDED TO BE OF TORS OF ROMING IN TREE BALL AND TRACES AND GET DESAUTE AND SET DESAUTE AND GET DESAUTE. EXPOSE ROOT FLARE (TOP OF MOST IDENTIFIABLE ROOT), REMOVE ANY GIRDLING ROOTS AND SET PLANT SO EXPOSE ROOT FLARE (TOP OF MOST IDENTIFIABLE ROOT), REMOVE ANY GIRDLING ROOTS AND SET PLANT SO THAT ROOT FLARE IS 2" ABOVE FINISH GRADE. ORIENT PLANTS FOR BEST APPEARANCE, BACKFILL THE BOTTOM 0/3 OF THE EXCATION WITH SOIL CUT FROM 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 GROUPS "TREE SAVER" IN. BACKFILL AS PER PLH.C.G. DIRCTION AND APPLICATION RATES. LIGHTLY TAMP AND WATER SOIL TO REMOVE ALL AIR POCKETS. FROR PLANTS OUTSIDE OF PLANTING BEDS, CONSTRUCT 3 INCH HIGH WATER CONTAINMENT

- RING AROUND PLANT, SPREAD MULCH TO MINIMUM 4" DEPTH OVER PLANT BASIN.

 E. ADJUST PLANT HEIGHT IF SETTLEMENT OCCURS AFTER BACKFILL AND STAKE AS DETAILED.

 I. TWO TO THREE WEEKS FOLLOWING PLANTING, INJECT PLANT HEALTH CARE INJECTABLE INNOCULANT AROUND ROOT BALL FOLLOWING MANUFACTURER'S DIRECTIONS AND APPLICATION RATES. CONTACT LANDSCAPE ARCHITECT TO OBSERVE THIS OPERATION.

 F. TRIM PLANTS TO REMOVE DEAD AND INJRED BRANCHES ONLY. TREAT CUTS OVER 3/4 INCH DIAMETER WITH TOPER PLANT.
- TREE PAINT (OAKS ONLY). G. BRACE PLANTS OVER 65 GALLONS SIZE IMMEDIATELY AFTER PLANTING
 - FOR TREES 2" CALIPER AND GREATER PROVIDE STAKING AS DETAILED, POSITION TO PREVENT
 - 2. DO NOT RESTRICT PLANT MOVEMENT UNDER LIGHT WIND LOADS OR DAMAGE BARK

- MASS SHRUB, GROUNDCOVER, AND ANNUAL PLANTING (SEE DETAILS): A. EXCAVATE PLANT ED 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. C. INSTALL METAL EDGINGS TO SEPARATE ALL PLANTER BEDS FROM TURF AND AT LOCATIONS INDICATED ON
- O. PLACE PLANTS IN STRAIGHT. EVENLY SPACED ROWS AT SPACING INDICATED ON DRAWINGS. TO UNIFORMLY
- DILL BEDS, USE TRIANGULAR SPACING METHOD UNLESS OTHERWISE INDICATED ON PLANS.

 E. MATER PLANTS THOROUGHLY IMMEDIATELY AFTER PLANTING, REPAIR SETTLED AREAS.

 F. ADJIST FINAL GRADES TO 1/2 INCH BELON ADJIACENT PAVING CURBS.

 G. SPREAD MULCH TO MINIMUM 4" DEPTH OVER PLANTING AREAS.

CLEANING AND ADJUSTING: A. REPAIR RUTS, HOLES AND SCARS IN GROWING SURFACE. PROVIDE POSITIVE DRAINAGE IN ALL AREAS.

- I. HYDROMULCH AND SOD AFTER TREE, SHRUB AND GROUNDCOVER INSTALLATION IS COMPLETE 2. CONTRACTOR TO COORDINATE WITH IRRIGATION CONTRACTOR TO ENSURE FUNCTIONAL IRRIGATION
- SYSTEM PRIOR TO ANY LAWN INSTALLATION. PRE-PLANT WEED CONTROL - IF WEEDS EXIST WITHING PROPOSED TURF 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 $rac{1}{2}"$ - I" BELOW SURFACE OF
- THE SOIL.
 C. SOD INSTALLATION I. INCORPORATE SPECIFIED LAWN FERTILIZER AT SEVEN (7) POUNDS PER 1000 SQUARE FEET OF LAWN
 - AREA FOR SOD. 2. PRE-EMERGENT HERBICIDE APPLICATION: APPLY RECOMMENDED HERBIICIDE TO LABEL INSTRUCTIONS 2. PRE-EMERGENT HERBICIDE APPLICATION: APPLY RECOMMENDED HERBIICIDE 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 FROM 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 IN ALL AREAS.

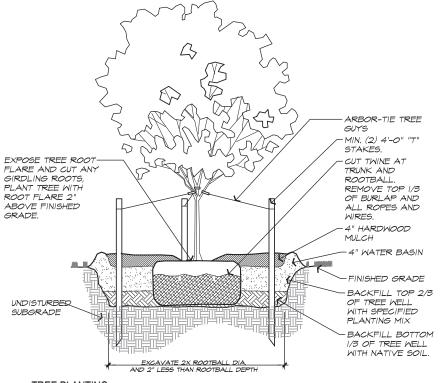
 7. ROLL ENTIRE SODDED AREA WITH SOD ROLLER, WATER SOD THOROUGHLY.

 6. CONTRACTOR SHALL OVER SEED SOD AREAS WITH ANNUAL RYE GRASS IF LAWN INSTALLATION

 - 8. CONTRACTOR SHALL OVER SEED SOD AREAS WITH ANNUAL RYE GRASS IF LAWN INSTALLATION OCCURS SEPTEMBER IS THROUGH APRIL IS AT & LES, PER ICOO SQUARE FEET AND A SHALL RETURN TO THE 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 FOR SODDING

ACCEPTANCE:
A. PRIOR TO SCHEDULING A SUBSTANTIAL COMPLETION INSPECTION, LANDSCAPE CONTRACTOR SHALL
THOROUGHLY CLEAN SITE OF ALL DEBRIG 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.

SAN ANTONIO COUNTRY CLUB - BURR ROAD PARKING EXPANSION: REVIEW SET - JANUARY 03, 2025



TREE PLANTING

BURR ROAD PARKING EXPANSION PLANT SCHEDULE

TREES

COMMON NAME

KEY	Botanical Name	SIZE	HEIGHT	SPREAD	COMMENTS
(QV)	LIVE OAK Quercus virginiana	4" CAL.	10'-12'	6'-8'	SELECT B&B, SYMMETRICAL CANOPY, FULL
(UC)	CEDAR ELM Ulmus crassifolia	4" CAL.	10'-12'	6'-8'	SELECT B&B, SYMMETRICAL CANOPY, FULL
(55)	TEXAS MOUNTAIN LAUREL Sophora secundiflora	15 GAL.	24"-30"	24"-36"	SELECT B&B, SYMMETRICAL CANOPY, FULL
SHRUE	35				

SHRUBS						CANOFI, TULL
	PN NAME anical Name	SIZE	HEIGHT	SPREAD	SPACING	COMMENTS
DB BICOLO Dietes		3 GAL.	18"-24"	12"-18"	24" O.C	IN HEALTHY AND VIGOROUS CONDITION
	JASMINE lespermum asiaticum		10"-18"	12"-18"	36" O.C	IN HEALTHY AND VIGOROUS CONDITION

GROUNDCOVERS

KEY	Botanical Name	SIZE	HEIGHT	SPREAD	SPACING	COMMENTS	
F	ZOYSIA	SOLID S	OD	CONTI	RACTOR TO	FIELD VERIFY	,

QUANTITY OF I AWN REQUIRED

Zousia Sp 'PALISADES

STONE, STEEL, AND OTHER MATERIAL

KEY	COMMON NAME Botanical Name	APPLICATION	COMMENTS

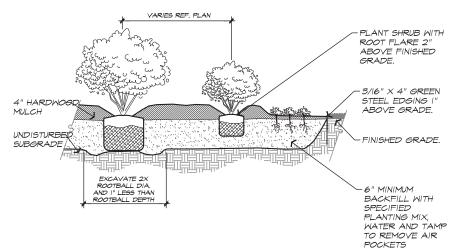
2" WASHED RIVER ROCK 2" DEPTH CONTRACTOR TO FIELD VERIFY QUANTITY OF LAWN REQUIRED

<u>GENERAL PLANTING NOTES:</u>
PLANTING PLAN FOR BIDDING AND REFERENCE PURPOSES. CONTRACTOR SHALL VERIFY PLANT QUANTITIES REQUIRED TO CARRY OUT DESIGN INTENT AS INDICATED

PLANTING MATERIAL SHALL BE ASSUMED TO BE PLANTED IN A TRIANGULAR PATTERN UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.

ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RE-VEGETATED TO PRE-CONSTRUCTION CONDITIONS UNLESS OTHERWISE NOTED ON PLANS

ALL MATERIAL SIZES SPECIFIED ARE INTENDED TO BE MINIMUM REQUIREMENTS TO BE PURCHASED PRIOR TO INSTALLATION. ALL EXCEPTIONS SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION



SHRUB AND GROUNDCOVER PLANTING

,— FINISHED GRADE 2" SPECIFIED TOPSOIL -UNDISTURBED SUBGRADE

TYPICAL TURF DETAIL

UPLAND

STUDIO

BURR ROAD PARKING EXPANSION

BURR ROAD ALAMO HEIGHTS, TEXAS

PE//ISIUNS

Scale: N.T.S.

DATE: JANUARY 03, 2025 SHEET

> PLANTING SCHEDULE, NOTES, AND DETAILS

PRESSURE REQUIREMENT CALCULATIONS @ Z	ONE No. 7
DESIGN STATISTICS FOR CALCULATION	NS
Total Zone Flow:	14.0 g.p.m.
Electric Valve Size:	1"
Static Pressure Less 10% (static @ 65 psi):	58.5 p.s.i.
ACCUMULATIVE LOSSES FROM CITY MAIN TO FUR	RTHEST HEAD
Sprinkler head requirement:	30 p.s.i.
Zone Pipe/Fitting Loss:	1.15 p.s.i.
1" Electric Valve Loss:	3.0 p.s.i.
Elevation Net Loss (+- FT.):	N.A
System Mainline Loss (1.25" Sch-40 Mainline):	5.8 p.s.i.
Backflow Preventer Loss (EXISTING):	N/A
Water Meter Loss (EXISTING):	N/A
Master Electric Valve Loss (EXISTING):	N/A
Type K Copper Service Loss:	
Total Net Loss:	9.95 p.s.i.
Design Pressure:	39.95 p.s.i.

Notes: System requires a minimum of 40 psi static pressure (AT POINT OF CONNECTION TO EXISTING MAINLINE) for system to operate properly. In

CRITICAL LOSS CHART

Precipitation Rate (in/hr)		Water Desired (in/wk) Time/Cycle No. of Zones		Total Time * Min. Hrs.		
Turf Rotor Zones Turf Spray Zones Turf Drip Zones Drip Zones	.64 1.74 .85 .55	.80 .80 .80	28.0 88.0	3	84 88	1.4
Tree Bubblers	3.87	.80	12.0	6	72	1.2

* IT WILL BE NECESSARY TO WATER MULTIPLE ZONES AT ONE TIME TO MEET WATERING WINDOW. A TYPICAL SCHEDULE WOULD ALLOW WATERING TO OCCUR TWO TIMES PER WEEK. TOTAL WATERING TIME WOULD BE DIVIDED BY THE NUMBER OF WATERING DAYS. THIS SCHEDULE IS DESIGNED FOR SUMMER WATER USAGE AND ESTABLISHMENT OF NEW PLANTING.

VALVE SCHEDULE

- THIS PROJECT REQUIRES THE ALTERATION OF AN EXISTING IRRIGATION SYSTEM. THE SYSTEM SHALL BE OBSERVED IN REASONABLE WORKING CONDITION AND IS TO BE MAINTAINED IN PLACE FOR USE WITH NEW EQUIPMENT AS DESCRIBED IN THESE DOCUMENTS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILLAR WITH THE EXISTING SYSTEM BEFORE BEGINNING WORK ON THE INSTALLATION OF THIS ADDITION. COORDINATE WITH THE SYSTEM DESIGNER, WADE RADLET AT 210-788-7015. THE IRRIGATION CONTRACTOR SHALL INVESTIGATE THE EXISTING SYSTEM AND COORDINATE WITH THE DESIGNER.

 AND THE AND CARE ADDITION.
- 2. THE IRRIGATION CONTRACTOR SHALL CONDUCT STATIC PRESSURE MEASUREMENTS ON THE EXISTING IRRIGATION SYSTEM. DI NOT WILLEVILLY PROCEED WITH CONSTRUCTION AS DESIGNED WITHOUT VERIFYING ACTUAL ON-SITE WHERE PRESSURE FROM THE SOURCE JF STATIC WATER PRESSURE FROM THE SOURCE JF STATIC WATER PRESSURE IS LESS THAN 80P.S.I. DO NOT PROCEED UNTIL CONSULTING WITH SYSTEM DESIGNER AND LANDSCAPE ARCHITECT. IF ACTUAL SITE STATIC PRESSURE EXCEEDS DESIGN PRESSURE BY 15 P.S.I. IN ANY ZONE, A PRESSURE REDUCING VALVE SHALL BE INSTALLED.
- 3. THE IRRIGATION CONTRACTOR SHALL VERIFY THE EXISTING IRRIGATION BACKFLOW DEVICE IS IN WORKING CONDITION CONTRACTOR SHALL VERIFY LOCATION WITH LANDSCAPE ARCHITECT AND CONDUCT TEST TO CONFIRM PROPER FUNCTION. TEST TO CONDUCTED BY CERTIFIED BACKFLOW INSPECTOR AND A BACKFLOW INSPECTION CERTIFICATE TO BE SUPPLIED AS PART OF CLOSEOUT DOCUMENTS. IF THE EXISTING BACKFLOW IS NOT INSTALLED PER STATE AND LOCAL CODES, REPLACE THE DEVICE WITH A NEW BACKFLOW AS REQUIRED TO MEET THESE CODES.
- LOCATION OF ANY PART OF THE EXISTING SYSTEM. IT IS THE IRRIGATION CONTRACTOR. IT IN NO WAY IS AN ASSURANCE OF THE LOCATION OF ANY PART OF THE EXISTING SYSTEM. IT IS THE IRRIGATION CONTRACTORS RESPONSIBILITY TO VEHILIF EXISTING EQUIPMENT CONDITION AND LOCATIONS ONCE THE CONTRACT HAS BEEN AWARDED ON DONT WILLEVILLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION. 4. THE ABOVE DRAWING IS PROVIDED AS A REFERENCE FOR THE IRRIGATION CONTRACTOR. IT IN NO WAY IS AN ASSURANCE OF THE
- 5. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR DURING THE SITE DEMOLITION PROCESS IN ORDER TO MAINTAIN IN PLACE THE MAINLINE, VALVES AND WIRES TO BE REUSED IN THE FINAL DESIGN. MAINLINE AND LATERAL PIPING WILL HAVE TO BE PROTECTED AND REUSED TO INSURE PROPER FUNCTION OF THE SYSTEM.
- IRRIGATION CONTRACTOR SHALL EITHER REPROGRAM THE EXISTING CONTROLLER OR ADD A NEW CONTROLLER AS SPECIFIED IN THESE DOCUMENTS TO MEET THE NUMBER OF ZONES REQUIRED FOR THE SYSTEM. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO VERIFY LOCATION AND CAPACITY OF EXISTING CONTROLLER PRIOR TO INSTALLING THE NEW IRRIGATION SYSTEM COMPONENTS.
- 7. THE IRRIGATION CONTRACTOR SHALL VERIFY IN THE FIELD THE EXTENT OF THE EXISTING SYSTEM. ON EXISTING ZONES TO BE REUSED, ADD HEADS AS REQUIRED TO INSURE ADEQUATE HEAD TO HEAD ECVERAGE. THE CONTRACTOR WILL REPLACE EXISTING HEADS WITH NEW HEADS WHEN NEEDED TO INSURE PROPER FUNCTION OF THE SYSTEM. THE IRRIGATION CONTRACTOR SHALL IDENTIFY ANY EQUIPMENT THAT HAS BEEN DAMAGED OR ABANDONED AS A RESULT OF NEW CONSTRUCTION AND REMOVE OR REPAIR ALL ZONES AFFECTED BY CONSTRUCTION DISTURBANCE.
- 8. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL HEADS AND NOZZLES ONCE THE SYSTEM IS INSTALLED TO INSURE HEAD TO HEAD COVERAGE AND TO INSURE THAT NO OVER SPRAY OCCURS ONTO WALKS AND PARKING AREAS. THESE FINAL ADJUSTMENTS ARE TO BE COMPLETE FRIOR TO FINAL INSPECTION AND A
- 9. THE IRRIGATION SYSTEM WILL REQUIRE THE USE OF THE EXISTING HEADS. THE IRRIGATION CONTRACTOR SHALL ADD HEADS AND NOZZLES OR ADJUST HEAD LOCATIONS TO INSURE THAT EACH ZONE HAS PROPER COVERAGE AND HEAD TO HEAD COVERAGE WITHOUT OVER SPRAY ONTO HARDSCAPE OR PARKING AREAS.
- 10. A WEATHER SENSOR COULD NOT BE LOCATED DURING FIELD INSPECTION, INSTALL A NEW WEATHER SENSOR WITH RAIN/FREEZE

3 EXISTING SYSTEM CONSTRUCTION NOTES

- CONSTRUCTION NOTES:

 1. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH THE SPECIFICATIONS AND ALL SUBMITTAL

 TO STATE OF THE PROPERTY OF STREET OF THE PROPERTY OF STREET OF THE OWNER'S REPRESENTATIVE FOR SITE REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE FOR SITE INSPECTIONS AS SPECIFIED IN THE SPECIFICATIONS. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE DOES NOT RELIEVE THE CONTRACTOR FROM INSPECTION APPROVAL AND WILL REQUIRE THE CONTRACTOR TO UNCOVER WICK AS REQUIRED FOR APPROVAL AT THE COST OF THE CONTRACTOR IS TO INFORM OWNER'S REPRESENTATIVE OF THE STAR OWNER'S REPRESENTATIVE OWNER'S REPRESENTATI
- THE IRRIGATION CONTRACTOR IS REQUIRED BY LAW TO NOTIFY TEXAS ONE CALL (800-245-4545) 72 HOURS PRIOR TO ANY
 EXCAVATION. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND
 UTILITIES, PIPES AND STRUCTURES. IRRIGATION CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE
 TO DAMAGE OF SAID UTILITIES WHETHER OR NOT TEXAS ONE CALL IS NOTIFIED.
- 3 DO NOT WILLEULLY PROCEED WITH CONSTRUCTION AS DESIGNED WITHOUT VERIFYING ACTUAL ON-SITE WATER PRESSURE FROM DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT SO AND CONSTRUCTION SHE WAS THE RESSURE FROM THE SOURCE. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT DINKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY PROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE IRRICATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- 4. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS AS REQUIRED TO
- 5. DUE TO SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS SLEEVES, ETC., WHICH MAY BE REQUIRED. IRRIGATION CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAY HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK TO BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS AND WITHIN PROPERTY LINES.
- 6. DURING INSTALLATION IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPING WITH THE LANDSCAPE SUBCONTRACTOR TO AVOID CONFLICT WITH PROPOSED PLANTING. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION SUBCONTRACTOR TO MOVE PIPING TO ALLOW PROPER PLACEMENT OF PLANT MATERIAL. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.
- NO MACHINE TRENCHING IS TO BE DONE WITHIN THE DRIPLINE OF EXISTING TREES. TRENCHING IS TO BE DONE BY HAND, AIR-SPADE OR BY TUNNELING UNDER ROOT SYSTEM BY METHOD APPROVED BY LANDSCAPE ARCHITECT. PIPING LAYOUT IS DIAGRAMMATIC AND PIPING SHALL BE ROUTED AROUNDE NISTING TREES AS POSSIBLE TO AVOID DAMAGE TO THE ROOT SYSTEMS. DO NOT CUT ANY ROOT OVER 3/4* DIAMETER UNLESS APPROVAL FROM THE LANDSCAPE ARCHITECT IS FIRST OBTAINED. ANY CUTS MADE SHALL BE CLEAN AND WITHOUT
- 8. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR SLEEVES AND CHASES WHEREVER PIPING OR CONDUIT PASSES, UNDER ALL PAVING, THROUGH WALLS, ETC. ALL SLEEVE LOCATIONS MAY NOT BE SHOWN ON PLAN, COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWNINGS, GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS AS REQUIRED. ALL SLEEVE AND CHASE LOCATIONS ARE NOT NOTED ON PLAN. ALL SLEEVES 4"OR LESS SHALL BE CALASS-200 PVC. ALL SLEEVES TO BE SIZED TWICE THE DIAMETER OF PIPE OR COMBINATION OF PIPES ENCLOSED WITHIN THE SLEEVE.
- 9. CONFIRM STATIC WATER PRESSURE AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS LESS THAN STATED IN PRESSURE CALCULATIONS DO NOT PROCEED UNTIL DIRECTED SO BY THE LANDSCAPE ARCHITECT. IF ACTUAL SITE STATIC PRESSURE EXCEEDS DESIGN PRESSURE BY 15 P.S.I. IN AVY ZONE, A PRESSURE REDUCING VALVE SHALL BE INSTALLED. REFER TO DETAILS FOR MODEL
- ADJUSTABLE FLOW CONTROLS SHALL BE REQUIRED ON CIRCUIT REMOTE CONTROL VALVE. PRESSURE AT ANY POINT WITHIN A
 ZONE SHALL NOT VARY BY MORE THAN 10% FROM THE DESIGN SPRINKLER OPERATING PRESSURE. SEE SPECIFICATIONS FOR
 TESTING.
- 11. THE CONTRACTOR SHALL BE A REGISTERED LICENSED IRRIGATOR IN THE STATE OF TEXAS. CONTRACTOR MUST CONFORM TO ALL CODES AS STATED IN SECTION 344 OF THE TEXAS WATER CODE AS OUTLINED BY TCEQ.
- 12. OBTAIN COVERAGE TEST APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO PLANTING, SODDING OR SEEDING
- 13. ALL UNDESIGNATED END LATERAL PIPING SHALL BE ½" IN SPRAY ZONES AND ¾" IN ROTOR ZONES
- 14 SPRINKLER HEAD SPACING SHALL NOT EXCEED 50% OF SPRAY DIAMETER BASED ON MANUFACTURERS OPERATING SPRINKLEN READ SPACING SPACING SHALL NOT EACLEST IN DIAMELER SHADED ON MANDE OF THE READ SHALL BE SPACED AS SPECIFICATIONS. SPRINKLER HEAD SPACING SHALL BE DESIGNED FOR HEAD-TO-HEAD COVERAGE OR HEADS SHALL BE SPACED AS PER MANUFACTURER'S RECOMMENDATIONS SHALL BE DESIGNED FOR PREVAILING WINDS. THE SYSTEM SHALL BE DESIGNED SO THAT IRRIGATION IS NOT APPLIED TO VEHICULAR TRAFFIC LISTED.
- ALL ROTORS SHALL BE LOCATED 12" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE, ALL SPRAY HEADS SHALL BE LOCATED 6" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE.
- 16. VALVE AND CIRCUITS SHALL BE SEPARATED BASED ON WATER USE. SO THAT TURF AREAS ARE WATERED SEPARATELY FROM VALVE AND CIRCUITS SHALL BE SEPARATED BASED ON WATER USE, SO THAT I TURN FARSA WE WATERED SEPARATELY FROM SHRUB AND/OR GROUND COVER AREAS, RINGIATION HEADS IN THE TURN FARSA WILL BE VALVED SEPARATELY FROM SHRUB AND/OR GROUND COVER AREAS, IT IS RECOMMENDED THAT SEASONAL COLOR AREAS BE WATERED SEPARATELY. UNDER NO CIRCUMSTANCES ARE ZONE TYPES TO BE COMBINED IN E. ROTARY HEADS WITH SPAR'S, TURP AREAS WITH PLANTING BEDS.
- 17. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM STATIC PRESSURE ON SITE PRIOR TO STARTING WORK, REFER TO NOTES #9
- 18. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO SECURE ALL REQUIRED PERMITS AND PAY ALL ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES CONTAINED IN THESE DOCUMENTS.
- 19. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY. INSTALL PIPES IN ADJACENT SLEEVES WITHIN LANDSCAPE AREAS.
- 20. 120 VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER WITH A HARDWIRE CONNECTION APPROVED AND INSTALLED BY A LICENSED ELECTRICIAN.
- 21. SPRINKLER HEADS SHALL HAVE MATCHED PRECIPITATION RATES WITHIN EACH CONTROL VALVE CIRCUIT.
- 22. SERVICEABLE CHECK VALVES SHALL BE REQUIRED ADJACENT TO PAVED AREAS WHERE ELEVATION DIFFERENCES MAY CAUSE LOW
- 23. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A CONTROLLER CAPABLE OF DUAL OR MULTIPLE PROGRAMMING. CONTROLLERS SHALL HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM, INCLUDING THE CAPABILITY OF BEING SET TO WATER EVERY FIVE DAYS. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A RAIN SENSOR SHUT-OFF DEVICE.
- 24. ALL IRRIGATION WIRES SHALL BE UL LISTED FOR DIRECT UNDERGROUND BURIAL AND SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. 3M-DBY WATERPROOF CONNECTORS TO BE USED ON ALL WIRE CONNECTIONS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT.
- 25. ALL IRRIGATION HEADS SHALL BE ADJUSTED TO MINIMIZE OVER-SPRAY ONTO ALL IMPERVIOUS SURFACES
- 26. ALL PIPE CONNECTIONS SHALL BE PRIMED WITH AN APPROVED COLOR PRIMER BEFORE BEING CHEMICAL WELDED.
- 27. AFTER AWARD OF CONTRACT AND BEFORE ANY IRRIGATION SYSTEM MATERIALS ARE ORDERED FROM SUPPLIERS OR DELIVERED TO THE JOB SITE, SUBMIT TO THE OWNER A COMPLETE LIST OF ALL IRRIGATION SYSTEM MATERIALS, OR PROCESSES PROPOSED TO BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT. THE LANDSCAPE ARCHITECT OR OWNERS AUTHORIZED REPRESENTATIVE WILL ALLOW NO SUSTITUTIONS WITHOUT PROCEPTANCE. MANUFACTURERS WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES SHALL ONLY SUPPLEMENT THE
- 28. IRRIGATION CLOSEOUT DOCUMENTS SHALL INCLUDE A WATER BUDGET. A LAMINATED COPY OF THE WATER BUDGET SHALL BE PERMANENTLY INSTALLED INSIDE THE IRRIGATION CONTROLLER DOOR.
 - CHART CONTAINING ZONE NUMBER, PRECIPITATION RATE AND GPM LOCATION OF EMERGENCY IRRIGATION SYSTEM SHUT-OFF VALVE.

→ NOTES

EXISTING EQUIPMENT

W EXISTING IRRIGATION WATER METER EXISTING BACKFLOW DEVICE

W EXISTING MASTER VALVE

© EXISTING CONTROLLER

W EXISTING WEATHER SENSOR

THE CONTRACTOR SHALL FIELD LOCATE THE IRRIGATION METER, BACKFLOW, MASTER VALVE AND CONTROLLER / WEATHER SENSOR TO ENSURE PROPER FUNCTION AND CAPACITY FOR EXPANSION BEFORE PROCEEDING

NEW EQUIPMENT

- (E) NEW CONTROLLER HUNTER XC-HYBRID CONTROLLER WITH SOLAR KIT, POLE MOUNT, FINAL LOCATION IS TO BE DETERMINED AFTER CONSULTING WITH LANDSCAPE ARCHITECT.
- (W) NEW WEATHER SENSOR HUNTER RFC SENSOR. FINAL LOCATION IS TO BE DETERMINED AFTER CONSULTING WITH LANDSCAPE ARCHITECT.
- RAINBIRD SPRAYS $\underline{1806\text{-SAM-PRS SPRAY BODY}}$ IN TURF AREAS WITH MPR NOZZLES.
- RAINBIRD SPRAYS 1806-SAM-PRS SPRAY BODY IN TURF AREAS WITH VAN NOZZLES.



INDICATES ANGLE OF COVERAGE, FOR EXAMPLE; H=180 DEG SUB-LETTER 'g' INDICATES GROUND COVER. 's' INDICATES SHRUB APPLICATION.

INSTALL TWO ROWS OF DRIP LINE EVENLY SPACED. IF BED AREA EXCEEDS 36", INSTALL THREE ROWS EVENLY SPACED INSTALL STAPLES @ MAX. 3' O.C TO SECURE

DRIP CONTROL ZONE VALVE WITH DC LATCHING SOLENOID - REFERENCE DETAILS

REMOTE CONTROL VALVE, HUNTER ICV WITH DC LATCHING SOLENOID, SIZE AS INDICATED ON PLANS MANUAL VALVE- SIZE OF MAINLINE

- ZONE IDENTIFICATION # ZONE IDENTIFICATION

#" ## ZONE SIZE IN GALLONS PER MINUTE VALVE SIZE THIS ZONE

ZONE IDENTIFICATION
 ZONE SIZE IN GALLONS PER MINUTE

HATCH PATTERN INDICATES BED/TURF AREAS TO BE INCLUDED THIS ZONE

— VALVE SIZE THIS ZONE - DRIPLINE; RAINBIRD XFS-09-18 FOR SURFACE PLANTING BEDS, ROWS SPACED AT 18 INCHES

RAINBIRD XFS-06-12 FOR SUBSURFACE TURF, ROWS SPACED AT 12 INCHES RAINBIRD XFCV-09-12 FOR SLOPES GREATER THAN 3:1 -DRIP SUPPLY LINE, SCH 40 PVC, SIZE PER PLAN.

TREE BUBBLER ASSEMBLY ON 6" POP UP

---- MAIN LINE - USE SCH-40 PVC PIPE, SIZE AS INDICATED ON PLANS

1-1/2" LATERAL LINE - USE CLASS 315 ON 1/2" PIPE AND CLASS 200 IPS PVC

ON 3/4" AND LARGER PIPE. DO NOT DEVIATE ON SIZING WITHOL CONSULTING WITH PROJECT DESIGNER.

SLEEVE - USE TWO (2) SIZES LARGER THAN SPRINKLER PIPE DESIGNATED FOR CROSSING PAVING ON ALL LATERAL LINES. USE SCH-40 PVC PIPE, VALVE WIRING MAY BE RUN IN THE SAME SLEEVES.

NOTE: REFER TO SHEET LI 2.1 to LI 2.2 FOR DETAILS

FIELD LOCATE BY STAKING, THE CONTROLLER, WATER METER, BACKFLOW DEVICE. MASTER VALVE AND FLOW SENSOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

LEGEND

ALAMO HEIGHTS, TEXAS

STATEMENT OF IRRIGATION DESIGN STANDARDS CONFORMITY

This plan is complete and conforms to the design and installation parameters of the irrigation design and equipment standards set out 35-510(j) and 35-511(c)(6) of the City of San Antonio Unified Development Code.

write o. fundet

Wade O. Radlet TX LI # 22397

SPECIAL NOTES:

1. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES AND WILL SECURE ALL REQUIRED PERMITS.

ALL WIRES, CONTROL VALVES, AND PRESSURIZED WATER SUPPLY LINES SHALL NOT BE LOCATED WITHIN THE EXISTING ROW OR OUTSIDE PROPERTY BOUNDARIES.

"Irrigation in Texas is regulated by the Texas Comm Environmental Quality (TCEQ), MC-178, PO Box 13087, Austin, Texas 78711-3087 TCEQ's website is: www.tceq.state.bc.us*



UPLAND S T U D I O



BURR ROAD PARKING EXPANSION

BURR ROAD

REVISIONS:

PROJECT No:

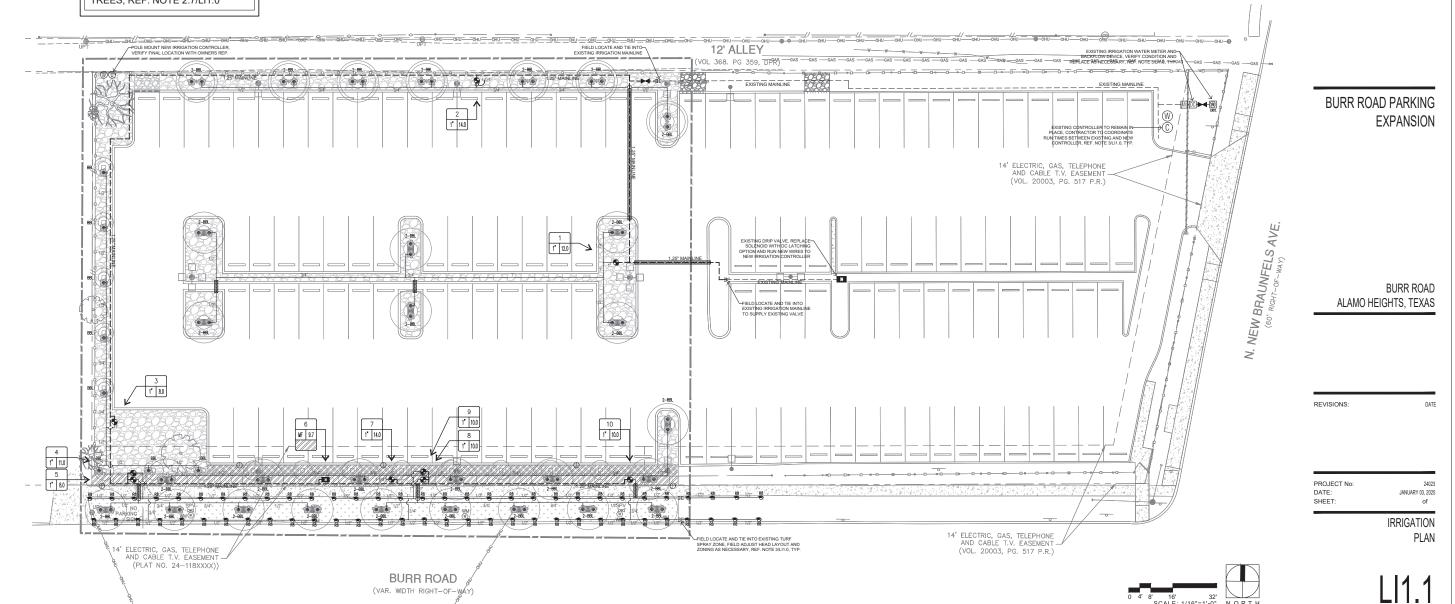
JANUARY 03, 2025 SHEET: IRRIGATION NOTES

AND LEGEND



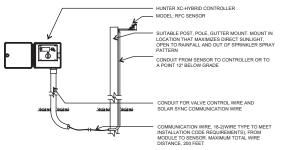


NO MACHINE TRENCHING WITHIN THE DRIPLINE OF EXSITING TREES; REF. NOTE 2.7/LI1.0









(5) PVC LATERAL PIPE SECTION VIEW

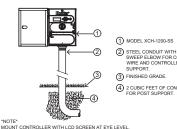
(2) HUNTER PROS-06-CV

(3) SWING JOINT ASSEMBLY; HUNTER SJ (4) PVC SCH-40 TEE OR ELL

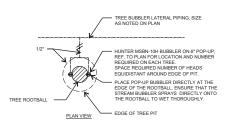
PLANT ROOT BALL

① UNDISTURBED SOIL

WEATHER SENSOR



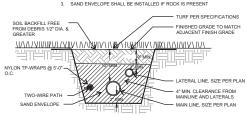
7 TREE BUBBLER ASSEMBLY- SECTION



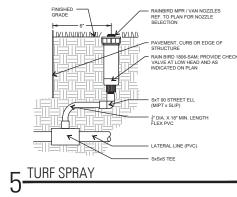
BURR ROAD PARKING EXPANSION

10 IRRIGATION CONTROLLER

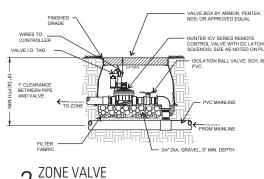




6 TREE BUBBLER ASSEMBLY- PLAN



3 MANUAL ISOLATION VALVE



LINE SIZE SCH-80 PVC BALL VALVE

VALVE BOX BY ARMOR, PENTEK,
NDS; OR APPROVED EQUAL

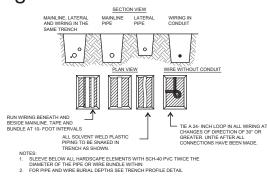
WILLIAM
MIN. 3" CLEARANCE BETWEEN
VALVE HANDLE AND VALVE BOX

BURR ROAD ALAMO HEIGHTS, TEXAS

REVISIONS:

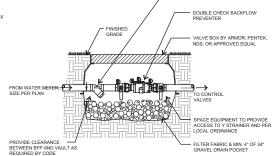
9 TRENCH PROFILE

BRIGATION TRENCH



PVC ISOLATION BA

QUICK COUPLER VALVE



PROVIDE CLEARANCE DETIVED BY AND VALLE AS REQUIRED BY CODE

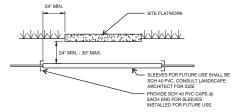
1 EXISTING

_	2-

PROJECT No: DATE: SHEET:

IRRIGATION DETAILS

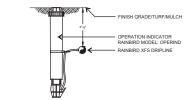
JANUARY 03, 2025

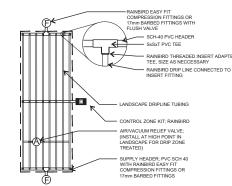


- PRINCILLE LINES I THAI ARE I'MO (2) INCHES LOWG AND ONE (1) INCH APPART ON BOILT SIDES OF THE STREET OR CROSSING.
 THE CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SLEEVES SHALL ALSO BE RESPONSIBLE TO LOCATE ANY SLEEVE WHICH CANNOT BE FOUND DURING THE INSTALLATION OF THE IRRIGATION SYSTEM

12 IRRIGATION SLEEVE

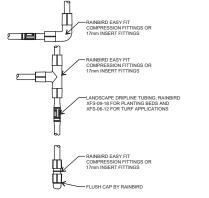




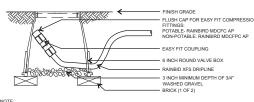




DRIP OPERATION INDICATOR

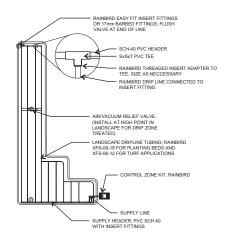


DRIPLINE FITTINGS



NOTE: 1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

3 DRIPLINE INSTALLATION (CENTER FEED)

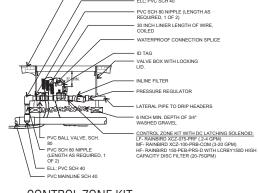


EXPANSION

BURR ROAD PARKING

BURR ROAD

2 DRIPLINE INSTALLATION (END FEED)



CONTROL ZONE KIT

ALAMO HEIGHTS, TEXAS

REVISIONS:

PROJECT No: DATE: SHEET: JANUARY 03, 2025

> IRRIGATION **DETAILS**

- DRIP LINE SHALL BE BURIED 3" TO 5" BELOW FINISHED SOIL GRADE IN PLANTING BEDS AFTER PLANTING AND BEFORE MULCH AND 4" TO 6" BELOW FINISHED GRADE IN TURR AREASTER SPACING IN PARALLEL ROWS TO CREATE TRIANGULAR WETTING PATTERN.

 ALL RIPE JUNE SHALL BE SECURED USING SOIL STAPLES AS SUPPLIED BY THE MANUFACTURER SPACED A MAX. OF 3" ON CENTER.

 AD DRIP LATERALS SHOWN ON THE PLANS ARE USED TO INDICATE ZONING SUZES AND MICHOLOGY.

 METHOD SESCRIBED IN DITS. 2"3-0.1" 2. AND RAIN BIRD'S RECOMMENDED.

 INSTALLATION SPECIFICATIONS.
- INSTITULATION SPECIFICATIONS.

 JEAN DISTORMENT OF THE SHALL BE USED AS FOLLOWS:
 TURF AREAS, KFS-06-12, ROWS SPACED AT 12 INCHES
 BED AREAS, KFS-06-18, ROWS SPACED AT 18 INCHES
 BED AREAS, WFS-06-18, ROWS SPACED AT 18 INCHES
 BED AREAS WITH SLOPE 3:1 OR MORE: KFCV-06-12
 WHEN CONFLICTOS OCCUR BETWEEN THESE DRAWINGS AND THE
 MANUFACTURER'S SPECIFICATIONS DEFER TO THE MANUFACTURER'S

 FOR THE SPECIFICATIONS DEPER TO THE MANUFACTURER'S

 FOR THE SPECIFICATIONS DEPER TO THE MANUFACTURER'S

 FOR THE SPECIFICATIONS DEPORTATION DIOCATOR, RAIN BIRD
 MODEL OPERIND. INSTALL PER RAIN BIRD RECOMMENDATIONS.

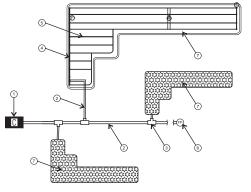
CONTRACTOR TO USE EASY FIT COMPRESSION OR 17MM INSERT FITTINGS WITH DRIPLINE BY RAIN BIRD. REFER TO MANUFACTURER'S
SPECIFICATIONS FOR ALL PARTS TO INSURE COMPATIBILITY.

TOTAL ZONE FLOW	PIPE SIZE
UP TO 5 GPM	1/2" SCH 40 PVC or 1/2" CLASS 315 PVC
5.1 TO 8 GPM	3/4" CLASS 200 PVC
8.1 TO 13 GPM	1" CLASS 200 PVC
13.1 TO 22 GPM	1-1/4" CLASS 200 PVC
22.1 TO 31 GPM	1-1/2" CLASS 200 PVC
NOTE: A 46 DOI DDECO	CLIDE DECLIEATOR IS DECOMMENDED TO ORTAIN MAYIMLIM RUNLI

NOTE: A 45 PSI PRESSURE REGULATOR IS RECOMMENDED TO OBTA AND MAXIMIZE ZONE SIZE WHEN INSTALLING XFS SERIES DRIPLINE.

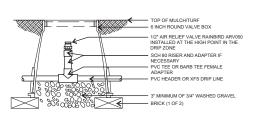
9 DRIP DESIGN NOTES

- 2 PVC SUPPLY LINE; SIZE PER CHART BELOW
- (3) PVC SCH-40 TEE OR EL (TYPICAL)
- 4 SUPPLY HEADER; PVC SCH 40 WITH INSERT FITTING:
- 5 LANDSCAPE DRIPLINE TUBING; XFS-09-18 FOR PLANTING BEDS XFS-06-12 FOR TURF APPLICATIONS
- 6 DRIPLINE FLUSH POINT (SEE NETAFIM DETAIL: FLUSH VALVE)
- 7) DRIP AREA; DEFINED BY HATCH ASSOCIATED TO ZONE TAG



8 DRIP HATCH LAYOUT

5 DRIPLINE FLUSH VALVE



AIR RELIEF VALVE

- GENERAL NOTES:

 1. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO CRITICALLY EXAMINE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS, AND TO VERIFY EXACT LOCATIONS, SIZES AND QUANTITY AF ITEMS WHICH ARE TO BE REMOVED, RELOCATED, AND ADDED. SUBMITTAL OF HIS BID SHALL SIGNIFY HIS WILLINGNESS TO COMPLY WITH THE OWNER'S REQUIREMENTS; DESIGN AND SPECIFICATION; AND HIS ACCEPTANCE OF ON-SITE CONDITIONS AS THEY EXIST.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE EXISTING FACILITIES AND SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING SUCH LOSS OR DAMAGE. THE CONTRACTOR SHALL SEND PROPER NOTICES AND RECEIVE WRITTEN PERMISSION FROM THE OWNER TO ENTER EXISTING AREAS. BEFORE BEGINNING WORK IN EXISTING AREAS. THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS AND PERFORM OTHER SERVICES REQUIRED FOR THE CARE, PROTECTION, AND SERVICE MAINTENANCE OF ALL ELECTRICAL, COMMUNICATION, FIRE ALARM, PLUMBING, HEATING, AIR CONDITIONING, AND VENTILATING SERVICES FOR NEW AND EXISTING FACILITIES. THE CONTRACTOR SHALL ERECT TEMPORARY BARRICADES WITH NECESSARY SAFETY DEVICES, TO PROTECT PERSONNEL FROM INJURY, REMOVING ALL SUCH TEMPORARY PROTECTION UPON COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL MODIFY, REMOVE, AND RELOCATE ALL MATERIALS AND ITEMS SO INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW FACILITIES. ALL REMOVALS AND/OR DISMANTLING SHALL BE CONDUCTED IN SUCH A MANNER AS TO PRODUCE MAXIMUM SALVAGE. MATERIALS AND ITEMS SCHEDULED FOR RELOCATION AND WHICH ARE DAMAGED DURING DISMANTLING OR REASSEMBLY OPERATIONS SHALL BE REPAIRED AND RESTORED TO THE APPROVAL OF THE OWNER, NATIONAL & LOCAL AGENCIES. THE CONTRACTOR MAY SUBSTITUTE NEW MATERIALS AND ITEMS OF EQUAL DESIGN AND QUALITY IN LIEU OF MATERIALS AND ITEMS TO BE RELOCATED, IF APPROVED BY THE OWNER.
- 4. ALL ITEMS WHICH ARE TO BE RELOCATED SHALL BE CAREFULLY REMOVED IN REVERSE TO ORIGINAL ASSEMBLY OR PLACEMENT AND PROTECTED UNTIL RELOCATED. THE CONTRACTOR SHALL CLEAN, REPAIR AND PROVIDE ALL NEW MATERIALS, FITTINGS, AND APPURTENANCES REQUIRED TO COMPLETE THE RELOCATION AND TO RESTORE THE ITEMS TO GOOD OPERATIVE ORDER. ALL RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE WORK AND IN ACCORDANCE WITH STANDARD PRACTICE OF THE
- 5. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL ITEMS AND MATERIALS REMOVED UNDER THIS CONTRACT. SALVAGE ITEMS AND MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER AND AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL DELIVER THE ITEMS THE OWNER WISHES TO KEEP TO A DESTINATION AS DIRECTED BY THE OWNER. ALL OTHER ITEMS NOT REQUESTED BY THE OWNER SHALL BE DISPOSED OF WITH PRIOR VERIFICATION OF THE OWNER.
- 6. NO MORE THAN 360° BENDS PERMITTED FOR ANY SINGLE CONDUIT RUN. PROVIDE ADDITIONAL HANDHOLES, AS REQUIRED. SUBMIT HANDHOLE MATERIAL DATA AND LOCATIONS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

ABBREVIATIONS

	- AMPERE(S)
IC.	 AMPERAGE INTERRUPTING CAPACITY
/V	- AUDIO VISUAL
FF	- ABOVE FINISH FLOOR
.FG	- ABOVE FINISH GRADE

AHU ATS BLDG - AIR HANDLING UNIT - AUTOMATIC TRANSFER SWITCH - BULLDING - CONDUIT - ENCLOSED CIRCUIT BREAKER

- CIRCUIT - ELECTRIC DRINKING FOUNTAIN - ELECTRIC DRINKING FOON
- EMERGENCY POWER OFF
- FULL LOAD AMPS
- FIRE SMOKE DAMPER

- GROUND-FAULT CIRCUIT INTERRUPTER

C
CB
CKT
EDF
EPO
FLA
FSD
GFCI
GND
HOA
HP
IG
J-BOX
KVA
KW
MCB
MCC
MLO
MTD - GROUND - HAND-OFF-AUTOMATIC - HORSEPOWER - ISOLATED GROUND - JUNCTION BOX - KILOVOLT AMPERE

- KILOWATT - KILOWATT
- MAIN CIRCUIT BREAKER
- MOTOR CONTROL CENTER
- MAIN LUGS ONLY

- MOUNTED N/A NC NO NF N.I.C. - NOT APPLICABLE - NORMALLY CLOSED - NORMALLY OPEN - NON FUSED - NOT IN CONTRACT

- NIGHT LIGHT (UNSWITCHED)

- NOT TO SCALE
- OWNER FURNISHED CONTRACTOR INSTALLED
- OVERHEAD
- PUSHBUTTON

W.P.

WEATHERPROOF CONDUIT

- PHASE

- PHASE
- RECEPTACLE
- SURGE PROTECTION DEVICE
- SWITCHBOARD - TIMECLOCK

NL
NTS
OFCI
OH
PB
PH,Ø
RCPT
SPD
SWBD
TC
TV
TYP.
UG
V
W.G.
W.P.
XFMR - TELEVISION - TELEVISION - TYPICAL - UNDERGROUND - VOLTAGE - WIREGUARD - WEATHERPROOF

- TRANSFORMER - ONE POLE - TWO POLE - THREE POLE

ELECTRICAL SYMBOLS LEGEND					
MARK	ITEM				
	LIGHT FIXTURE. UPPER CASE LETTER(S) IDENTIFIES FIXTURE IN SCHEDULE.				
ЮвОв	LIGHTING FIXTURE. BRACKET "F " INDICATES WALL MOUNTED. UPPER CASE LETTER(S) IDENTIFIES FIXTURE IN SCHEDULE				
Юв Ов	LIGHT FIXTURE CONNECTED TO EMERGENCY CIRCUIT				
н ∂ в ∂ в	LIGHT FIXTURE CONNECTED TO UNSWITCHED PORTION OF CIRCUIT FOR NIGHT LIGHTING				
	LIGHT FIXTURE CONNECTED TO EMERGENCY CIRCUIT				
	LIGHT FIXTURE CONNECTED TO UNSWITCHED PORTION OF CIRCUIT FOR NIGHT LIGHTING				
P1 □ ●	POLE LIGHT FIXTURE. UPPER CASE LETTER(S) IDENTIFIES FIXTURE IN SCHEDULE.				
S	SINGLE-POLE DECORA ROCKER LIGHT SWITCH, RED IN COLOR WITH RED FACEPLATE, AND CIRCUIT LABEL IN WHITE ON CLEAR LETTERING				
S_K	SWITCH, KEYED OPERATED				
S ₃	SWITCH, THREE-WAY (K=KEYED OPERATED)				
S ₄	SWITCH, FOUR-WAY (K=KEYED OPERATED)				
Sp	SWITCH, WITH PILOT LIGHT				
SL	SWITCH, WITH LIGHTED HANDLE				
S _{3L}	SWITCH, THREE WAY, WITH LIGHTED HANDLE				
S _T	TIMER SWITCH				
S _D	DIGITAL DIMMER SWITCH				
Фа	RECEPTACLE, DUPLEX (A=ABOVE COUNTER)				
Фт	RECEPTACLE, TAMPER RESISTANT DUPLEX				
Ф	RECEPTACLE, G.F.C.I. DUPLEX				
₩.P.	RECEPTACLE, WEATHERPROOF				
Ø _R	EMERGENCY RECEPTACLE (RED DEVICE WITH RED FACEPLATE)				
⊕ _A	RECEPTACLE, QUADRUPLEX (A=ABOVE COUNTER)				
Φ	SIMPLEX RECEPTACLE				
(A)	SPECIAL PURPOSE OUTLET				
G	GROUND BAR AS NOTED ON DRAWING AND SPECIFICATIONS				
■ PB	PANELBOARD, 120/208 VOLT (LETTERS IDENTIFY PANEL)				
™ HB	PANELBOARD, 277/480 VOLT (LETTERS IDENTIFY PANEL)				
T-LA	DRY TYPE TRANSFORMER. REFER TO TRANSFORMER SCHEDULE.				
	DISCONNECT SWITCH				
①	JUNCTION BOX				
M	MOTOR CONNECTION. REFER TO ELECTRICAL CONNECTION SCHEDULE				
SPD	SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATIONS.				



ADDRESS: 159 BURR RD.



PAPE-DAWSON ENGINEERS

 $^{\circ}$ - PHASE

BURR ROAD PARKING LOT SAN ANTONIO, TEXAS

ELECTRICAL GENERAL NOTES AND LEGENDS



PLAT NO. N/A JOB NO. _____7531-10_ DATE JANUARY 06, 2025 DESIGNER JF/DM CHECKED DRAWN L State of Texas Firm Registration No. F-19468 Job No.: 2024.223 E1.0

GENERAL NOTES:

MARK

- ALL LIGHT FIXTURES SHALL BE CIRCUITED THROUGH THE LIGHTING CONTRACTOR.
 ALL CONDUITS SHALL BE SCHEDULE 80 PVC FOR UNDERGROUND INSTALLATION AND TRANSITION TO RIGID METAL CONDUIT (RMC) ABOVE GROUND.
- INSTALL CONDUITS AT A MINIMUM BURIAL DEPTH OF 24 INCHES.

 ALL WIRING SHALL USE COPPER CONDUCTORS WITH A MINIMUM SIZE OF #10 AWG UNLESS OTHERWISE SPECIFIED.

 EXISTING POLE HEIGHTS AND LOCATIONS SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHERWISE.
- ENSURE ALL LIGHT FIXTURES ARE DARK-SKY COMPLIANT TO MINIMIZE LIGHT POLLUTION AND COMPLY WITH SAN ANTONIO LOCAL ORDINANCES.
- VERIFY PHOTOCELLS AND TIME CLOCK CONTROLS FUNCTIONALITY FOR AUTOMATIC OPERATION OF PARKING LOT LIGHTING, ENSURING ENERGY EFFICIENCY.
- CONTRACTOR SHALL PERFORM ALL NECESSARY TRENCHING AND BACKFILLING, ENSURING COMPLIANCE WITH NEC AND LOCAL SAN ANTONIO REGULATIONS.
- PROVIDE WARNING TAPE 12 INCHES ABOVE ALL CONDUITS IN TRENCHES FOR PROPER IDENTIFICATION.

 ALL BOXES, ENCLOSURES, AND CONNECTIONS SHALL BE WATERPROOF AND SUITABLE FOR OUTDOOR USE.

 USE RIGID AND CORROSION-RESISTANT MATERIALS FOR ALL BOXES TO WITHSTAND ENVIRONMENTAL CONDITIONS.
- ALL METALLIC PARTS OF THE SYSTEM, INCLUDING POLES AND ENCLOSURES, SHALL BE PROPERLY GROUNDED AND BONDED IN
- COMPLIANCE WITH NEC ARTICLE 250. ALL WORK SHALL ADHERE TO THE NATIONAL ELECTRICAL CODE (NEC). SAN ANTONIO BUILDING CODES AND STANDARDS.

LIGHT

SOURCE

LIGHTING CONTROL SEQUENCE OF OPERATION

CONTRACTOR SHALL VERIFY AND ENSURE THE PARKING LOT OPERATION AS

TURN "ON" AT DUSK BY PHOTOCELL.

LIGHT FIXTURE SCHEDULE

WATTS VOLTS

- DIM TO 70% RATED OUTPUT AT 1 HOUR AFTER OWNER-DESIGNATED
- CLOSE OF BUSINESS TIME.
 INCREASE TO 100% RATED OUTPUT AT 1 HOUR PRIOR TO OWNER-DESIGNATED BUSINESS OPENING TIME
- TURN "OFF" AT SUNRISE BY PHOTOCELL-CONTROLLED CONTACTOR

MOUNTING

MANUFACTURER

2021 IECC LIGHTING COMMISSIONING NOTES:

- COMMISSIONING FOR LIGHTING SYSTEMS SHALL COMPLY WITH SECTION C408.3 OF 2021 IECC.
- COMMISSIONING SHALL BE PERFORMED BY AN CERTIFIED
- COMMISSIONING AGENT.
 THE PROPER FUNCTIONS AND OPERATIONS OF LIGHTING CONTROLS SHALL BE TESTED AND VERIFIED AGAINST EQUIPMENT MANUFACTURER
 - SPECIFICATIONS.
 LIGHTING CONTROLS INSTALLATION SHALL BE VERIFIED FOR
 - COMPLIANCE WITH EQUIPMENT MANUFACTURER RECOMMENDATIONS AND ACCEPTED MINIMUM STANDARDS.
 AT A MINIMUM, LIGHTING CONTROLS THAT SHALL BE TESTED INCLUDE
 - TIME SWITCH CONTROLS, DIMMERS, AND OCCUPANCY SENSORS. PROPER PERFORMANCE AND OPERATION OF LIGHTING CONTROLS EQUIPMENT SHALL BE DOCUMENTED.

MODEL

GALN-SA3C-740-U-T4FT-HSS

DS330-400Q160-D1-XX-XX

DS330-400Q160-D1-XX-XX

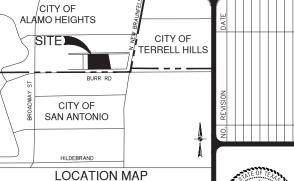
GALN-SA3C-740-U-5WQ

COMMISSIONING PLAN SHALL BE PROVIDED BY COMMISSIONING

NOTES

ELECTRICAL NEW WORK NOTES, PLAN 101:

- EXISTING POLE TO REMAIN.
- 2 EXTEND EXISTING CIRCUIT USING 2#10, 1#10 GND IN 1"C.
- 3 ALTERNATIVE: PROVIDE A 1" EMPTY CONDUIT WITH A PULL STRING TO THE CONTROLLER. THE CONDUIT SHALL STUB OUT FROM THE POLE AT 12 FEET ABOVE FINISHED FLOOR (A.F.F.). ENSURE THE CONDUIT IS BURIED AT A MINIMUM DEPTH OF 24 INCHES OR PER LOCAL CODE REQUIREMENTS. INSTALL A WEATHERPROOF JUNCTION BOX (J-BOX) RATED FOR OUTDOOR USE ADJACENT TO THE BASE OF THE POLE, EVERY 100 FEET ALONG THE CONDUIT RUN, AND AT EVERY 180-DEGREE TURN. USE SCHEDULE 80 PVC OR RIGID METAL CONDUIT (RMC) IN AREAS SUBJECT TO POTENTIAL PHYSICAL DAMAGE, AS REQUIRED BY CODE.
- (4) ALTERNATIVE: REPLACE EXISTING FIXTURE WITH SINGLE HEAD TYPE S1.
- 3 ALTERNATIVE: REPLACE REPLACE EXISTING FIXTURE WITH SINGLE HEAD TYPE S2.



ADDRESS: 159 BURR RD.

* Clay W. J. LAM STEPHEN MITCHELL	
99313 @ **CENSE ***********************************	

PAPE-DAWSON ENGINEERS

2

- PHASE

BURR ROAD PARKING LOT SAN ANTONIO, TEXAS

ELECTRICAL NEW WORK PLAN

ONIO, TEXAS

S1	AREA LIGHT	LED	.=	B1-U0-G3	160	240	15' POLE ON 6"	COOPER LTG. (HEAD)
	SINGLE-HEAD	LM79 & LM80 TESTED	-				CONC. BASE	
								VALMONT (POLE)
S2	AREA LIGHT	LED	-	B5-U0-G3	160	240	15' POLE ON 6"	COOPER LTG. (HEAD)
	SINGLE-HEAD	LM79 & LM80 TESTED	-				CONC. BASE	
								VALMONT (POLE)

BUG

RATINGS

LAMP

MODEL

GENERAL LIGHT FIXTURE SCHEDULE NOTES:

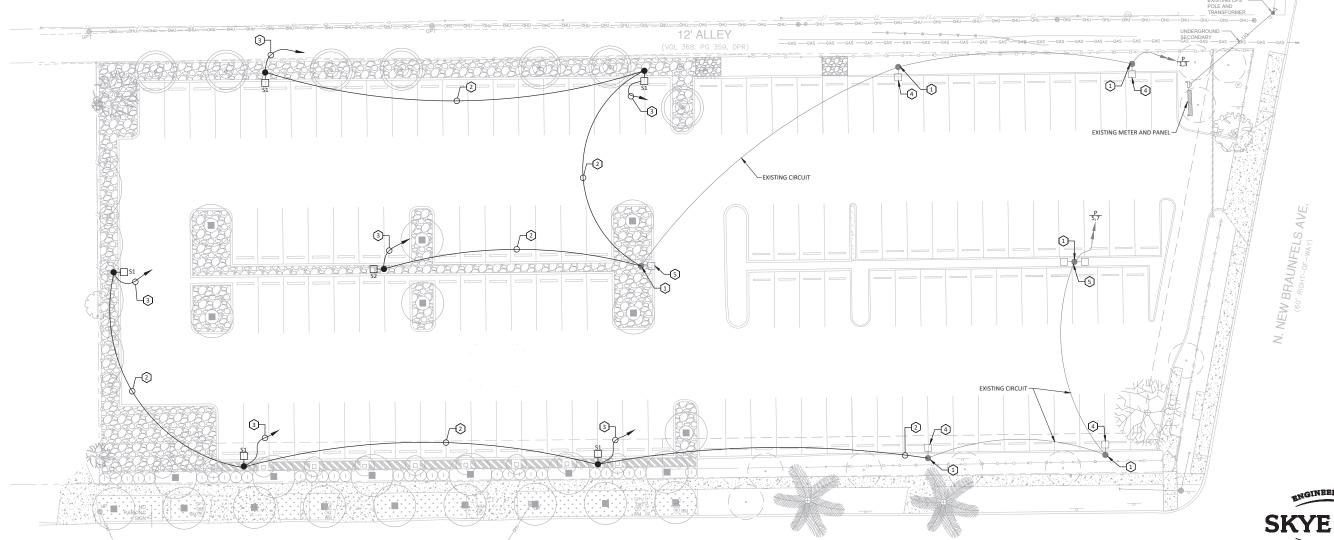
FIXTURE

DESCRIPTION

- 1. PROVIDE 16-FOOT POLE AND CUT TO 15-FOOT LENGTH.
- 2. MEASURE EXISTING POLE HEIGHT AND REPORT FINDINGS TO ENGINEER PRIOR TO RELEASING ORDER.

NOTE: THE PROJECT SITE IS LOCATED OUTSIDE OF MLOD ZONING.

LOAD ANALYSIS PROJECT: SACC BURR RD PARKING LOT EXPANSION							
AREA (SF): 59,677 VOLTS: 240 SIGLE PHASE							
LOAD DESCRIPTION		CONNECTED KVA	DIVERSITY	DEMAND KVA			
EXISTING PARKING LOT LIGHTING:		0.606	1.25	0.758			
NEW PARKING LOT LIGHTING 0.996 1.25							
LIGHTING CONTACTOR		0.200	1.25	0.250			
EXISTING IRRIGATION CONTROLLER 1.920 1.000							
TOTAL KVA:							
TOTAL AMPS:							
SERVICE ENTRANCE SIZE, AMPS: (EXISTING SERVICE SIZE IS ADEQUATE) 60							



ENGINEERING & **SKYE MEP**

SCALE: 1/16" = 1'-0"

COMMISSIONING 8610 Broadway, Suite 415 San Antonio, Texas 78217 JOB NO. 7531-10 DATE JANUARY 06, 202 DESIGNER JF/DM CHECKED DRAWN L E1.1

ELECTRICAL NEW WORK PLAN TRUE NORTH

GENERAL NOTES:

MARK

S2

FIXTURE

DESCRIPTION

AREA LIGHT LED

AREA LIGHT LED

GENERAL LIGHT FIXTURE SCHEDULE NOTES:

SINGLE-HEAD LM79 & LM80 TESTED

FOUR HEAD LM79 & LM80 TESTED

NOTE: THE PROJECT SITE IS LOCATED OUTSIDE OF MLOD ZONING.

- ALL LIGHT FIXTURES SHALL BE CIRCUITED THROUGH THE LIGHTING CONTRACTOR
- ALL CONDUITS SHALL BE SCHEDULE 80 PVC FOR UNDERGROUND INSTALLATION AND TRANSITION TO RIGID METAL CONDUIT (RMC) ABOVE GROUND.
 INSTALL CONDUITS AT A MINIMUM BURIAL DEPTH OF 24 INCHES.
- ALL WIRING SHALL USE COPPER CONDUCTORS WITH A MINIMUM SIZE OF #10 AWG UNLESS OTHERWISE SPECIFIED.
- EXISTING POLE HEIGHTS AND LOCATIONS SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHERWISE. ENSURE ALL LIGHT FIXTURES ARE DARK-SKY COMPLIANT TO MINIMIZE LIGHT POLLUTION AND COMPLY WITH SAN ANTONIO LOCAL ORDINANCES.
- VERIFY PHOTOCELLS AND TIME CLOCK CONTROLS FUNCTIONALITY FOR AUTOMATIC OPERATION OF PARKING LOT LIGHTING ENSURING ENERGY EFFICIENCY.

 CONTRACTOR SHALL PERFORM ALL NECESSARY TRENCHING AND BACKFILLING, ENSURING COMPLIANCE WITH NEC AND
- LOCAL SAN ANTONIO REGULATIONS.

LIGHT

SOURCE

- PROVIDE WARNING TAPE 12 INCHES ABOVE ALL CONDUITS IN TRENCHES FOR PROPER IDENTIFICATION.
 ALL BOXES, ENCLOSURES, AND CONNECTIONS SHALL BE WATERPROOF AND SUITABLE FOR OUTDOOR USE.
- USE RIGID AND CORROSION-RESISTANT MATERIALS FOR ALL BOXES TO WITHSTAND ENVIRONMENTAL CONDITIONS
- ALL METALLIC PARTS OF THE SYSTEM, INCLUDING POLES AND ENCLOSURES, SHALL BE PROPERLY GROUNDED AND BONDED IN COMPLIANCE WITH NEC ARTICLE 250.

1. PROVIDE 16-FOOT POLE AND CUT TO 15-FOOT LENGTH. MATCH EXISTING POLE HIGHT.

2. MEASURE EXISTING POLE HEIGHT AND REPORT FINDINGS TO ENGINEER PRIOR TO RELEASING ORDER.

LAMP

13.400LM

MODEL

50K 70CR

13 400I M

50K 70CRI

BUG

RATING

B3-U2-G3

B3-U2-G3

101

202

ALL WORK SHALL ADHERE TO THE NATIONAL ELECTRICAL CODE (NEC), SAN ANTONIO BUILDING CODES AND STANDARDS.

LIGHTING CONTROL SEQUENCE OF OPERATION:

CONTRACTOR SHALL VERIFY AND ENSURE THE PARKING LOT OPERATION AS

TURN "ON" AT DUSK BY PHOTOCELL

LIGHT FIXTURE SCHEDULE

240

MOUNTING

15' POLE ON 6'

CONC. BASE

15' POLE ON 6"

CONC. BASE

- DIM TO 70% RATED OUTPUT AT 1 HOUR AFTER OWNER-DESIGNATED CLOSE OF BUSINESS TIME.
- INCREASE TO 100% RATED OUTPUT AT 1 HOUR PRIOR TO OWNER-DESIGNATED BUSINESS OPENING TIME
- TURN "OFF" AT SUNRISE BY PHOTOCELL-CONTROLLED CONTACTOR

MANUFACTURER

ASD LTG. (HEAD)

ASD LTG. (HEAD)

2021 IECC LIGHTING COMMISSIONING NOTES:

- SIONING FOR LIGHTING SYSTEMS SHALL COMPLY WITH SECTION C408.3 OF 2021 IECC.
- COMMISSIONING SHALL BE PERFORMED BY AN CERTIFIED COMMISSIONING AGENT.
- THE PROPER FUNCTIONS AND OPERATIONS OF LIGHTING CONTROLS SHALL BE TESTED AND VERIFIED AGAINST EQUIPMENT MANUFACTURER
- SPECIFICATIONS. LIGHTING CONTROLS INSTALLATION SHALL BE VERIFIED FOR
- COMPLIANCE WITH EQUIPMENT MANUFACTURER RECOMMENDATIONS AND ACCEPTED MINIMUM STANDARDS. AT A MINIMUM, LIGHTING CONTROLS THAT SHALL BE TESTED INCLUDE
- TIME SWITCH CONTROLS, DIMMERS, AND OCCUPANCY SENSORS.
 PROPER PERFORMANCE AND OPERATION OF LIGHTING CONTROLS FOUIPMENT SHALL BE DOCUMENTED.

NOTES

1, 2

1, 2

COMMISSIONING PLAN SHALL BE PROVIDED BY COMMISSIONING

MODEL

ASD-LSB2HV-100D50B-PRM

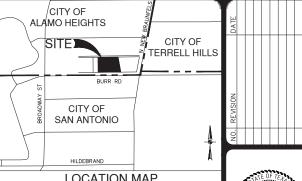
ASD-LSB2HV-100D50B-PRM-2@180°

ALMONT (POLE) DS330-400Q160-D1-XX-XX

ELECTRICAL NEW WORK NOTES, PLAN 101:

- 1 EXISTING LIGHT POLE TO REMAIN
- 2 EXTEND EXISTING CIRCUIT USING 2#10, 1#10 GND IN 1"C.
- 3 ALTERNATIVE: PROVIDE POLE AND FIXTURE TYPE S2 AND USE EXISTING CIRCUIT AS INDICATED ON THE PLANS. PROVIDE CONDUCTORS AND CONDUIT TO EXTEND CIRCUIT AS
- 4 ALTERNATIVE: PROVIDE A 1" EMPTY CONDUIT WITH A PULL STRING TO THE CONTROLLER. THE CONDUIT SHALL STUB OUT FROM THE POLE AT 12 FEET ABOVE FINISHED FLOOR (A.F.F.). ENSURE THE CONDUIT IS BURIED AT A MINIMUM DEPTH OF 24 INCHES OR PER LOCAL CODE REQUIREMENTS, INSTALL A WEATHERPROOF JUNCTION BOX (J-BOX) RATED FOR OUTDOOR USE ADJACENT TO THE BASE OF THE POLE, EVERY 100 FEET ALONG THE CONDUIT RUN, AND AT EVERY 180-DEGREE TURN. USE SCHEDULE 80 PVC OR RIGID METAL CONDUIT (RMC) IN AREAS SUBJECT TO POTENTIAL PHYSICAL DAMAGE, AS REQUIRED BY

LOAD ANALYSIS								
PROJECT: SACC BURR RD PARKING LOT EXPANSION								
AREA (SF): 72,000 VOLTS: 240 SIGLE PHASE								
LOAD DESCRIPTION			CONNECTED	DIVERSITY	DEMAND			
			KVA		KVA			
EXISTING PARKING LOT LIGHTING:			0.606	1.25	0.758			
NEW PARKING LOT LIGHTING	1.25	1.515						
LIGHTING CONTACTOR		0.200	1.25	0.250				
EXISTING IRRIGATION CONTROLLER		1.920	1.000	1.920				
TOTAL KVA:								
TOTAL AMPS:								
SERVICE ENTRANCE SIZE, AMPS: (EXISTING SERVICE SIZE IS ADEQUATE) 60								



LOCATION MAP

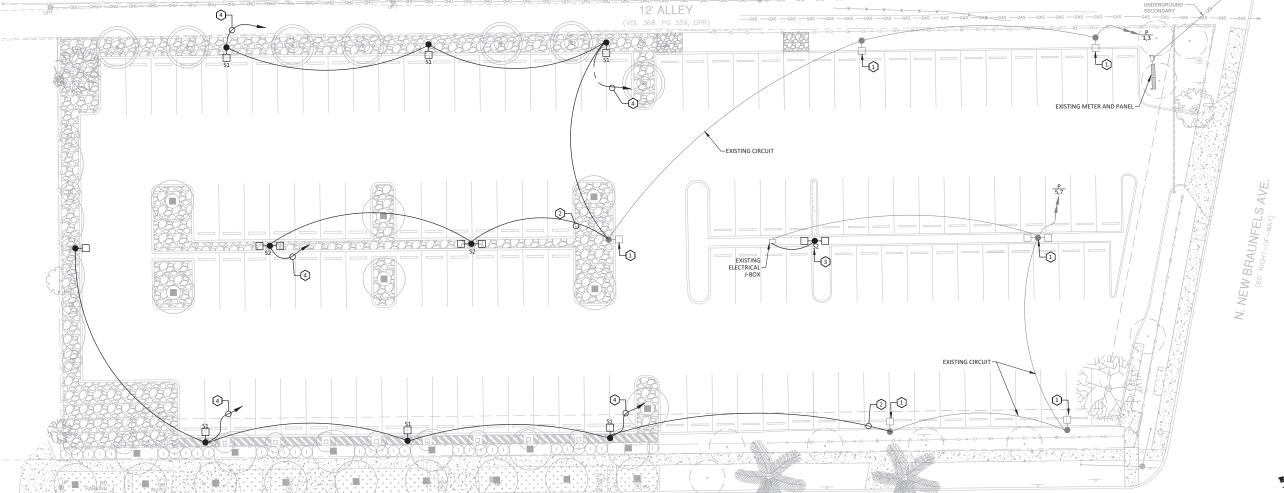
ADDRESS: 159 BURR RD.

PAPE-DAWSON ENGINEERS ONIO, TEXAS

2

- PHASE ALTERNATE ELECTRICAL NEW WORK PLAN BURR ROAD PARKING LOT SAN ANTONIO, TEXAS

ENGINEERING & **SKYE MEP** COMMISSIONING 8610 Broadway, Suite 415 San Antonio, Texas 78217



ELECTRICAL NEW WORK PLAN - ALTERNATE

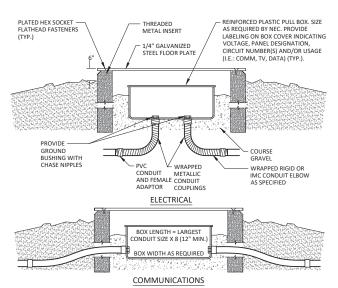
SCALE: 1/16" = 1'-0"

State of Texas Firm Registration No. F-19468 Job No.: 2024.223

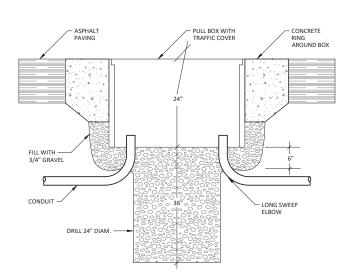
JOB NO. 7531-10 DATE JANUARY 06, 202 DESIGNER JF/DM CHECKED DRAWN L E1.2

N/A

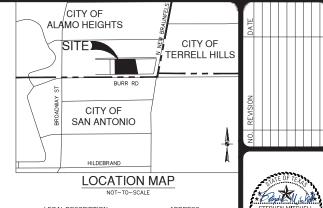




UNDERGROUND PULL BOX DETAIL 2 UNDERGROUN
Scale: NOT TO SCALE



PULL BOX DETAIL (3) Scale: NOT TO SCALE



ADDRESS: 159 BURR RD. ALAMO HEIGHTS, TEXAS 78209



PAPE-DAWSON ENGINEERS

TONIO, TX 78213 I TEXAS SURVEYING FI

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ELECTRICAL DETAILS

N/A

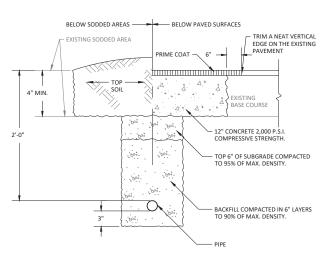
E2.1

BURR ROAD PARKING LOT - PHASE SAN ANTONIO, TEXAS

PLAT NO. JOB NO. 7531-10 DATE JANUARY 06, 2025 DESIGNER JF/DM CHECKED____ DRAWN_LF

SCALE: 1/16" = 1'-0"

ENGINEERING & **SKYE MEP** COMMISSIONING 8610 Broadway, Suite 415 San Antonio, Texas 78217 State of Texas Firm Registration No. F-19468 Job No.: 2024.223





PART 1 - GENERAL

1.01 WORK INCLUDED IN THIS SECTION

- A. Referenced Documents: Division 01 General Requirements are hereby made a part of this section.
- B. Work included in Division 26 includes the furnishing of all labor, materials, tools. B. Work included in Division 26 includes the furnishing of all labor, materials, tools, equipment, drayage, rigging, fees, permits, inspections, etc., necessary for the complete installation and operation of all electrical equipment and work as shown on the Plans and specified herein. Work includes the following general listings, in addition to which furnish all fittings, hangers, supports, conduits, sleeves, inserts and other such items and accessories required or necessary for the operation of a complete electrical system as shown on the Plans and/or specified herein:
- 1. Wiring, and feeders

1.02 REQUIREMENTS OF REGULATORY AGENCIES

Work shall conform to the latest editions of the following:

- A. Power company electrical standard requirement
- B. International Energy Conservation Code (IECC).
- C. National Electrical Code (NEC) with local amendments.
- E. Occupational Safety and Health Administration (OSHA)
- F. Underwriters' Laboratories, Inc. (UL), and shall be so labeled.
- G. International Building Code (IBC).

Electrical Contractor of work specified herein to have been engaged in electrical contracting business for a minimum of five (5) years prior to bid date and be prepared to show evidence and references if requested by the Owner.

1.04 SUBSTITUTIONS AND DEVIATIONS

- A. The intent of these specifications is to establish minimum quality standards for material and equipment installed. All materials, equipment, and apparatus shall be new and of the quality indicated in the following specifications.
- B. It is not the Architect/Engineer's intention to discriminate against any manufacturer or product. Any manufacturer desiring to submit his product for approval as an equal to that specified may do so by providing a sample specification to the Engineer's office for approval a minimum of 10 working days prior to bid date.
- C. All material shall be new and of domestic origin and shall bear underwriter's label

1.05 SPECIAL CONDITIONS OF THE WORK

- A. Drawings are necessarily diagrammatic and do not show every connection in detail or every line conduit in its exact location.
- B. Investigate structural and finish conditions and arrange Work accordingly; furnifittings and accessories required to meet conditions and give satisfactory operatio Coordinate with other contractors to avoid interference with the Work.
- 1. Work shall be laid out to be concealed in furred chases and suspended ceilings, etc., in Who shard to add to the October and the Characteristics of the Characteristics
- 2. Electrical Contractor, by submitting a sub-bid, sets forth that he has the necessary technical training and ability and that he will install his Work in a satisfactory and workmanlike manner up to the best standard of the trade, complete and in good working
- If any of the requirements of the plans and specifications are impossible of performance, or if the installation will not perform satisfactorily, he shall report same to the Owner for correction during the bidding period.
- 4. No extra will be allowed for extra work or changes caused by failure to comply with
- 5. The right to make any reasonable change in the location of outlets, apparatus, and equipment up to time of roughing-in is reserved by the Owner without involving any additional expense to the Owner.

1.06 SITE INVESTIGATION

- A. Locations and elevations of utilities shown on Plans have been obtained from site utility plans, existing plans, site inspection and utility companies serving the site. The Electrical Contractor shall examine the site verifying to his own satisfaction the location and elevation of all utilities and shall adequately inform himself as to their relationship to the Work before entering into a contract.
- B. Specifications and the Drawings in no way imply as to the condition of the soil to be encountered. No representations as to soil conditions are made or implied in any p of the Contract documents
- C. All Work in connection with this Contract will be under the supervision and to the entire satisfaction of the Owner or his authorized representative who shall determine all questions as to the satisfactory completion of the Work, or any part thereof, and defects
- D. The Electrical Contractor shall give his personal attention to all parts of the Work and shall employ only skilled and reliable workmen in the performance thereof. They shall also accord to the Owner the right to decide upon and discontinue the services of any workman who does not possess satisfactory skill and qualifications, or is otherwise

It shall be the responsibility of the Electrical Contractor to initiate, maintain and supervise all safety precautions required by local, state and federal laws, including OSHA (Occupational Safety and Health Administration).

PART 2 - PRODUCTS

All materials described in Division 26000 shall be new; no used materials shall be used. Brands and models listed are for quality assurance only; other brands equal in quality and approved for use are acceptable. Any material damaged during installation shall be replaced at Electrical Contractor's expense.

2.02 CONDUCTORS

All conductors shall be copper, 600V rating, type THHN, THHW unless shown otherwise

2 03 CONDILIT

- A. Thin wall EMT acceptable for general application.
- B. PVC acceptable in slabs or underground. Provide factory wrapped steel ells for rising exposed out of ground or slab.

2.04 WIRING DEVICES

- A. Wall switches shall be specification grade, UL listed, 20 Amp, 120/277 Volt. Duplex receptacles shall be specification grade, UL listed, 20 Amp, 125 Volt, NEMA 5-20R. Color for all interior and exterior devices shall be selected by Architect. Provide wall plates of color and material of construction as selected by Architect.
- ovide gray metal locking while-in-use covers for all exterior receptacles. Box depth

2.05 JUNCTION AND PULL BOXES

A. Use galvanized pull and junction boxes that comply with NEC as to size and construction. Use boxes not less than 4" square and 1-1/2" deep with removable covers. In wet areas or outdoors, use cast aluminum or cast irron boxes with threaded hubs and gasketed covers. Install junction and pull boxes in accessible location. Position boxes so that covers flush with finished walls

2 OF CIRCUIT BREAKERS

- A. Only UL- listed circuit breaker panels are permitted for use.
 B. a dedicated UL-listed switched neutral breaker is required for each circuit leading to a pump/dispenser. It must be able to disconnect hot and neutral conductors simultaneously.
 C. One cicuit breaker is required for each pump/dispenser to allow isolation of the
- Circuit breakers must be installed away from pump/dispenser, readily accessible, and

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Work shall be done in accordance with Plans and Specifications and shall meet rules and regulations of all governing agencies having jurisdiction.
- B. If Plans and Specifications differ from required minimum standards set forth in ordinances, ordinances shall govern unless the Plans and Specifications exceed requirements, in which case Plans and Specifications shall govern.
- C. If any disagreement between the Plans and Specifications and the ordinances occurs, attention must be called to same before signing of the Contract. After the contract has been signed, the Electrical Contractor is responsible for having all Work meet with the requirements of the governing ordinances. No extra to the contract will be granted to correct any discrepancy existing between the Work and the ordinances.

3.02 GUARANTEE

- A. All electrical Work shall be guaranteed for a period of one (1) year from date of
- B. Upon notice of any electrical malfunction, the Electrical Contractor shall remedy the malfunction including all materials, equipment and labor at no extra cost to the Owner

3.03 LOCATIONS OF FIXTURES AND EQUIPMENT

3.04 PARTS LISTS AND MAINTENANCE MANUALS

- A. The Electrical Contractor shall submit to the Owner 30 days prior to final acceptance of The Electrical Contractor shall submit to the Owner's 0 day's prior to final acceptance or the building, complete and detailed electronic parts lists, maintenance manuals, etc., covering electrical equipment furnished under this Contract. Electronic brochures shall include all as-built equipment shop drawings, all cuts and capacity information, names and addresses of manufacturers, stocking distributors, manufacturer's agents and/or factory representatives and shall cover all items of equipment on which submittal data is made and shall also include manuals and lists herein called for.
- B. Brochures shall be sent electronically and shall be indexed and tabbed referencing all items to the Plans and Specifications regarding locations of equipment and materials.

At the completion of this project, the Electrical Contractor shall provide the Owner with a set of electronic marked-up drawings showing all conduit, outlets, etc., installed by the Electrical Contractor. These drawings shall be complete in every detail and shall incorporate all changes made during the course of the conduct of the project. These drawings shall be prepared in such a manner as to enable the Owner to properly maintain, operate, and repair both concealed and exposed Work. Actual routing of all underground conduit shall be shown.

3.06 PAINTING AND FINISHING

A. Paint all equipment, metal work, conduit, hangers and rods, etc., exposed to view and installed under this Division, with two coats of oil base metal protective paint in colors as directed by the Owner.

Before submitting a bid, Electrical Contractor shall familiarize himself with the rules of all governing boards having jurisdiction, and he shall notify the Owner before submitting his bid, if in his opinion, any work or material specified is contrary to such rules.

3.08 SEPARATE CONTRACTS WITH OWNER

- A. The Owner reserves the right to let other contracts to perform tenant work. The Electrical Contractor shall afford other contractors reasonable opportunity for the storage and introduction of materials for execution of their Work and shall properly connect and coordinate his own Work with theirs. Cooperation shall be absolute to insure narmonious relations with these other contractors that all Work may be completed
- B. If any part of the Work depends upon work of other contractors for operation or results, Electrical Contractor shall inspect the other work, and shall promptly report to the Owner any condition that conflicts with his Work. Failure to do so shall constitute an acceptance as being suitable and proper as far as his own Work is concerned.

3.09 EXCAVATION AND BACKELLI

- A. Electrical Contractor to provide all excavation required in execution of his Work.
- C. Remove any surplus excavated earth from site.
- D. Arrange for and pay all costs of paving patching if excavation required in city streets.

3.10 CONTRACTOR'S COORDINATION AND CLEANING UP

- A. Electrical Contractor shall cooperate with the other contractors on the job to the end that as a whole, the job shall be completely finished, and shall carry on this Work in such a manner that none of the other contractors shall be handicapped, hindered, or delayed When work is finished, remove from the premises all tools, machinery, debris, etc., occasioned by his Work, and leave the premises free of all obstructions and hindrances.
- Where electrical work occurs in masonry walls, the installation shall be done sufficiently in advance of construction; fittings, appurtenances, etc., shall be installed in such a manner and at such locations as to avoid unnecessary cutting of masonry units. Work erected in advance of masonry shall be securely supported and held in position to prevent displacement. Cutting and fitting of masonry around properly located equipment will be done by masons. Place Work located in partitions or ceilings ahead of the construction, with equipment securely wired in place. The Contractor shall have a representative on the job during all concrete pours to insure all of his equipment is adequately supported and protected and will not be adversely affected by such operations. B. Where electrical work occurs in masonry walls, the installation shall be done sufficiently
- C. Cooperate with the local utility companies in such a manner that the installation of all services proceeds in an orderly manner, and meets all requirements of the specified companies involved.

3.11 ELECTRICAL EQUIPMENT BY OTHERS

Except for such items as are normally wired up at their point of manufacture and unless specifically noted to the contrary in the documents, execute all electric wiring of every character both for power supply and for pilot and control for equipment. Others will erect all motors in place ready for connection. Mount all starters and control equipment, furnishing supporting structures where necessary.

- A. All systems shall be tested in the presence of the Owner
- B. All testing equipment necessary to satisfactorily conduct the required tests shall be provided, and the tests shall be made by the Electrical Contractor at his expense under the direction of the Owner.
- C. All equipment furnished and installed and/or connected under the provisions of these Specifications shall be demonstrated to function electrically in the manner required.
- D. The entire electrical installation shall be free from short circuits and improper grounds The electrical instantions instantion in the ren in instructurities and improper grounds. Tests shall be made at each power panel and lighting panel with all switches closed. Each power circuit shall be tested at its switch. In testing for insulation values to ground, the power equipment shall be connected for normal operation. The instruments required for these tests shall be furnished by the Electrical Contractor.
- Insulation values shall not be less than those required by the National Electric Code Other specific tests shall be made in accordance with requirements stated in these
- F. All loads shall be properly balanced on each phase of the system, within five percent
- G. If the tests indicate unsatisfactory materials, workmanship, or performance, the Electrical Contractor shall remove such defective materials and replace with new mate at his own expense, shall correct defective workmanship, and shall then conduct same tests again until the satisfactory character of the work installed by him has been fully demonstrated to the satisfaction of the Owner.

3.13 PROTECTION OF UNDERGROUND CONDUIT

- A. All steel conduit run underground shall be protected by a factory applied coating or wrapping consisting of one of the following:
- Minnesota Mining and Manufacturing Company "Scotch Kote" Resin #202, factory
 applied coating with two-ply "Scotchwrap" #50 tape on field joints.
- PVC plastic primer, followed by poly-vinyl plastic coating as supplied by Lone Star Steel Company "Extra Coat" or approved equal. Field joints shall be wrapped in strict accordance with manufacturer's directions.
- B. Electrical Contractor shall submit samples and detailed Specifications for final approval

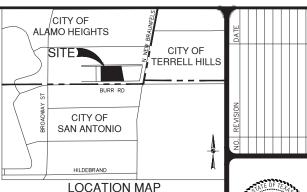
3.14 GROUNDING

- A. Grounding of electrical conduit system and neutral of wiring system for building shall be effectively made by connection to earth, using standard ground clamps and cables.
- B. Provide continuous grounding wire through all PVC conduits

3.15 WORKMANSHIP

- A. Labor shall be performed in a thorough and workmanlike manner and with all reasonable rapidity to the satisfaction of the Owner.
- B. Material or equipment shall be delivered to the project in the manufacturer's original, unopened, labeled containers and be adequately protected against moisture, tampering, or damage from improper handling or storage. Materials shall not be delivered to the job before they are ready for installation.
- C. The Owner will require the removal from the premises of such material or work as in his opinion is not in accordance with the Specifications or Drawings. The Owner has authority to stop the work whenever such stoppage may be necessary to insure the proper execution of the Contract.
- D. Any item of equipment shall be the product, modified as required by the requirer of the project, of a manufacturer experienced in the design, construction, and open of equipment for the purpose required and who shall have furnished such equipment. long enough to be able to show a record of successful operation.

It is the Electrical Contractor's responsibility to clean up all trash and debris caused work of this Division, keeping premises, street, sidewalks, and adjacent property cleand neat at all times and to dispose of such materials outside the legal limits of the project or as directed by the Owner.



LEGAL DESCRIPTION:
LOT 41, BLOCK 3, C.B. 5600, COUNTRY CLUB
HEIGHTS SUBDIVISION (1.370 ACRES)
PLAT NO. 24-118XXXXXX

ADDRESS: 159 BURR RD.

Sant Nite 99313

PAPE-DAWS ENGINEERS ONIO, TEXAS SAN #470

D PARKING LOT SAN ANTONIO, TEXAS IGHTING SPECIFICATION

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S PHA

ROA

 \square BURF



SKYE MEP

PLAT NO. N/A JOB NO. 7531-10 DATE JANUARY 06, 2025 DESIGNER JF/DM CHECKED DRAWN L

E3.1