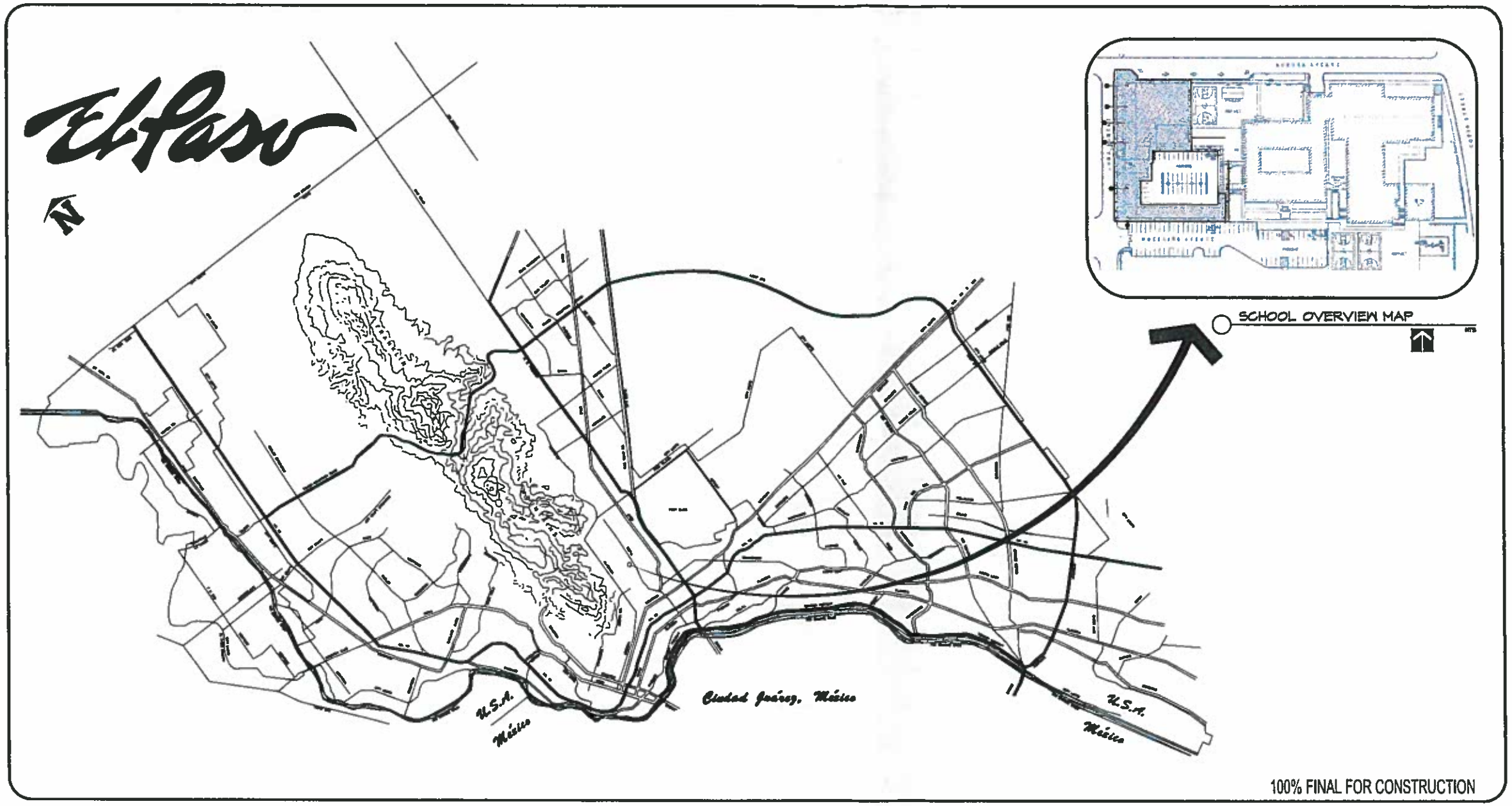

100% FINAL FOR CONSTRUCTION

SHEET DESCRIPTION	SHEET NO.
COVER AND SHEET INDEX	G-001
LANDSCAPE NOTES	LG-001
LANDSCAPE PLANS	LP-101
IRRIGATION PLANS	LI-101
PLANTING & IRRIGATION DETAILS	LP-501 TO LI-501

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CROCKETT ELEMENTARY SCHOOL

SITE IMPROVEMENTS

2016 - 081
RFQ NO.

16.769.21
EPISD PROJECT NO.

3200 WHEELING AVE.
EL PASO, TEXAS 79930

GREENWAY STUDIO

262 E. MISSOURI AVE. | El Paso, TX 79903
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6531 BOEING DR.
EL PASO, TX 79925

I AM EPISD

CROCKETT ELEMENTARY SCHOOL

3200 WHEELING AVE
EL PASO, TEXAS 79930

sheet name

COVER & SHEET INDEX

G-001

NOTES

1. THESE PLANS SHOW LANDSCAPE ARCHITECTURE CONSTRUCTION DOCUMENTS. THESE ARE NOT TO BE USED FOR STAKING OR SURVEYING LOT BOUNDARIES.
2. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS AND SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN ARE IN CONFLICT WITH THE PROPOSED WORK OF OTHER CONTRACTORS. IF PROBLEMS ARE DISCOVERED, CONTACT LANDSCAPE ARCHITECT TO DETERMINE A COURSE OF ACTION.
3. EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR ANY WORK CONTAINED IN THESE PLANS. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. BEFORE YOU DIG, CALL:

EL PASO ELECTRIC COMPANY	(915) 543-5720
SBC	(800) 248-7296
TEXAS GAS SERVICE	(915) 544-6300
EMERGENCY HOTLINE	(915) 562-8411 (915) 562-2003
PSB (WATER & SEWER)	(800) 248-7255
TIME WARNER COMMUNICATION	(915) 772-2511
EL PASO NATURAL GAS CO.	(800) 334-8047
TEXAS EXCAVATION SAFETY SYSTEM	(800) 344-8377

4. CONTRACTOR SHALL PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. KEEP AREAS FREE OF TRASH AND DEBRIS. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT.
5. ALL LANDSCAPE AREAS SHALL BE GRADED TO FINISH SOIL DEPTH OF 4" BELOW TOP OF CURB AND EDGE OF SIDEWALK.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS OF WORK. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
9. THE LANDSCAPE ARCHITECT SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO OWNER.
10. MAINTENANCE AND PROTECTION OF NEW PLANT MATERIAL SHALL CONTINUE UNTIL PROJECT IS ACCEPTED BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, REMOVAL OF DEAD MATERIAL AND DEBRIS, RESETTING OF TREES TO UPRIGHT POSITIONS AND SUCH OTHER OPERATIONS AS MAY BE NECESSARY FOR THE HEALTH OF THE PLANTED STOCK AND THE GENERAL APPEARANCE OF THE LANDSCAPED AREAS. PROTECTION SHALL INCLUDE CARE OF THE PLANTED STOCK FROM DAMAGES RESULTING FROM TRESPASS, EROSION (INCLUDING WATERING), WEATHER, VANDALISM, DISEASE AND THE LIKE.
11. ALL TREES, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR THE PERIOD OF ONE YEAR, BEGINNING ON THE DATE OF FINAL ACCEPTANCE.
12. CONTRACTOR SHALL APPLY A HERBICIDE AND PRE-EMERGANT TO ALL LANDSCAPE AREAS PRIOR TO COMMENCING WORK, AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
13. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS CONSULT THE LANDSCAPE ARCHITECT BEFORE PLANTING.
14. PLANT OR INSTALL MATERIALS DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF LANDSCAPE WORK REQUIRED.

IRRIGATION NOTES

1. THIS IS A POTABLE WATER IRRIGATION SYSTEM. A BACKFLOW IS REQUIRED. A RECLAIMED WATER LINE SHALL BE EXTENDED FROM THE NEAREST MAINLINE CONNECTION (PSB) AND USED TO FEED PROPOSED LANDSCAPE AREAS.
2. LICENSED IRRIGATOR IN GOOD STANDING IN THE STATE OF TEXAS REQUIRED ON JOB SITE AT ALL TIME. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO INITIATION OF CONSTRUCTION BY INSTALLING A FLOW METER AND A PRESSURE GAUGE ON THE DOWNSTREAM SIDE OF THE WATER METER. THIS INFORMATION SHALL BE PROVIDED TO THE IRRIGATION DESIGNER IN WRITING FOR APPROVAL PRIOR TO PROCEEDING.
3. ANY EXPOSED IRRIGATION PIPE SHOULD BE PROTECTED FROM FREEZE AND UV DAMAGED WITH INSULATED TAPE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SITE ELEMENTS & AREAS TO REMAIN. CONTRACTOR SHALL REPLACE IN KIND, ALL ITEMS DAMAGED DURING THE COURSE OF WORK, AS DETERMINED BY THE LANDSCAPE ARCHITECT.
5. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
7. THIS DESIGN IS DIAGRAMMATIC AND FOR GRAPHIC CLARITY. ALL EQUIPMENT SHOWN IN PAVED AREA IS FOR DESIGN CLARITY ONLY AND CONSTRUCTED ELEMENTS AND OBSTRUCTIONS WHETHER NOTED ON THE PLANS OR NOT SHALL BE AVOIDED TO MINIMIZE SLEEVING. EQUIPMENT IS TO BE INSTALLED WITHIN PLANTING AREAS.
8. INSTALL EMITTERS ON THE TOP SIDE OF PLANTS ROOTBALL.
9. CONTRACTOR SHALL ABIDE BY CITY OF EL PASO LANDSCAPE ORDINANCE REQUIREMENTS AND TCEQ IRRIGATION REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN SPECIFICATIONS AND IRRIGATION DESIGN, CONTRACTOR SHALL NOTIFY THE LICENSED IRRIGATION DESIGNER IN WRITING. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF CONFLICTING IRRIGATION COMPONENTS UNTIL HE RECEIVES CLARIFICATION IN WRITING FROM THE CONSULTANT.
10. ALL PIPE CUTS SHALL BE MITERED TO 90 DEGREES & ALL BURRS SHALL BE REMOVED PRIOR TO GLUING. PIPE THREE INCHES OR LARGER MUST HAVE FILED BEVELED EDGE A MINIMUM OF ONE FOURTH (1/4) THE WIDTH OF PIPE WALL TO ASSURE A PROPER SOLVENT WELD.
11. PIPE SOLVENT WELDING PROCEDURES ON ALL JOINTS SHALL BE SPECIFIED AS FOLLOWS: FIRST USE IPS WELD-ON CLEANER, NEXT USE IPS WELD-ON PURPLE PRIMER P66 OR P70, THEN USE IPS WELD-ON GRAY GLUE #711 HEAVY DUTY. LASTLY, WIPE OFF ALL EXCESS CEMENT AND LET SET AS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SET TIMES SHALL BE AS FOLLOWS: MIN. OF 5 MINUTES FOR 1/2" TO 1 1/4", 8 MINUTES FOR 1 1/2" TO 3" PIPE AND 2 HRS. FOR 2 1/2" TO 8" PIPE. CURE TIMES SHALL BE AS FOLLOWS: MIN OF 30 MINUTES FOR 1/2" TO 1 1/4" PIPE, 30 MINUTES FOR 1 1/2" TO 2" PIPE, 4 HRS. FOR 2 1/2" TO 8" PIPE. WHEN HUMIDITY EXCEEDS 60%, INCREASE CURE TIME BY 50%. ONCE WELD IS SET, PIPE SHALL NOT BE MOVED FOR ANY REASON UNTIL SET TIMES HAVE BEEN ACHIEVED, WATER SHALL NOT BE TURNED ON UNTIL ALL CURE TIMES HAVE BEEN ACHIEVED.
12. DURING CONSTRUCTION SLEEVES SHALL BE EXTENDED 24" BEYOND EDGE OF HARD SURFACES. WRAP ENDS WITH FOUR MIL PLASTIC AND TAPE WITH GOOD QUALITY PLASTIC TAPE. GRAY DUCT TAPE IS NOT ACCEPTABLE.
13. FIELD WIRING SHALL BE IN A SEPARATE TRENCH & EXPANSION LOOPS SHALL BE PROVIDED EVERY 200 FEET. WIRE SHALL NOT BE STRETCHED TIGHT. VALVE WIRE SHALL BE STANDARD COLORS RED (HOT) AND WHITE (COMMON) & LABELED AT CONTROLLER AND IN VALVE BOX. CONNECTIONS AT VALVES MUST BE MADE WITH DRI-SPLICE CONNECTORS. CONNECTORS MUST BE READY FILLED FROM FACTORY WITH SILICONE.
14. IRRIGATION RUN TIME SCHEDULE FOR FIRST 3 YEARS: 3 TIMES PER WEEK FOR SUMMER MONTHS (MAY-SEPTEMBER) IN THE WINTER MONTHS (OCTOBER-APRIL), RUN TIME SHALL STAY THE SAME, BUT SHALL BE REDUCED TO 1 TIME PER WEEK. FOR SUBSEQUENT YEARS, SCHEDULE SHALL BE FURTHER REDUCED.
15. IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, PO BOX 13087 AUSTIN, TX 78711.

PLANTING NOTES

1. ALL NEW PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS.
2. PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. THE SUBSTITUTION OF MATERIALS DIFFERING IN KIND, QUALITY OR SIZE FROM THAT SPECIFIED WILL BE ALLOWED ONLY AFTER THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IS CONVINCED THAT ALL MEANS OF OBTAINING THE SPECIFIED MATERIALS HAVE BEEN EXHAUSTED. CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE THAT ALL MATERIALS NECESSARY TO COMPLETE THE PROJECT AS SPECIFIED HAVE BEEN LOCATED AND ALL REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED NO LATER THAN 2 WEEKS PRIOR TO THE INITIATION OF WORK.
3. PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK CURRENT EDITION AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN
4. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORES AND ALL OTHER FORMS OF INFECTIONS.
5. UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY THE LANDSCAPE ARCHITECT, ALL PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING SPECIES AND VARIETY.
6. BALLED AND BURLAPPED PLANT MATERIAL SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE AND HELD IN PLACE SECURELY BY BURLAP AND A STOUT TWINE OR ROPE. BROKEN OR LOOSE BALLS WILL BE REJECTED
7. THE LANDSCAPE ARCHITECT AND EL PASO ELECTRIC REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AT THE CONTRACTOR'S YARD PRIOR TO DELIVERY, DURING PLANTING AND AFTER PLANTING AT THE JOB SITE. AT THE OPTION OF THE CONTRACTOR, THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE WILL INSPECT PLANT MATERIAL AT A WHOLESALE NURSERY OF THE CONTRACTOR'S CHOICE PRIOR TO DELIVERY OF MATERIALS TO THE CONTRACTOR'S YARD.
8. THE LANDSCAPE ARCHITECT AND EL PASO INDEPENDENT SCHOOL DISTRICT (EPISD) SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO OWNER.
9. CONTAINER GROWN PLANT MATERIAL SHALL HAVE BEEN ESTABLISHED IN ITS DELIVERY CONTAINER FOR NOT LESS THAN SIX MONTHS, BUT FOR NOT MORE THAN TWO YEARS. ANY ROOTBOUND MATERIAL WILL NOT BE ACCEPTED.
10. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, ALL TREES SHALL HAVE A SINGLE TRUNK THAT IS STRAIGHT AND FREE OF "DOG-LEGS", "CROOKS", Y-CROTCHES", OR OTHER DISFIGURING SHAPES. THE CENTRAL LEADER OF ALL TREES SHALL NOT HAVE BEEN PRUNED. TREES WITH DOUBLE LEADERS ARE NOT ACCEPTABLE, UNLESS SPECIFIED AS MULTI-TRUNKED.
11. ALL PLANT MATERIAL SHALL HAVE A UNIFORM SHAPE AROUND ITS COMPLETE CIRCUMFERENCE. PLANT MATERIAL WITH IRREGULAR BRANCHING PATTERNS OR WITH BRANCHING PATTERNS MORE HIGHLY DEVELOPED ON ONE SIDE THAN ON OTHER SIDES SHALL NOT BE ACCEPTABLE.
12. TREE LOCATIONS AS SHOWN ARE SCHEMATIC AND MAY VARY BASED ON SHADE & UNDERGROUND UTILITY LOCATIONS, AND OTHER SITE CONSTRAINTS. TREE LOCATIONS SHALL COMPLY WITH ALL JURISDICTIONAL ORDINANCES WHICH APPLY. PLANS ARE DIAGRAMMATIC AND APPROXIMATE DUE TO THE SCALE OF THE DRAWINGS, AND NOT ALL INDIVIDUAL SHRUBS AND/OR GROUND COVERS ARE NECESSARILY SHOWN.
13. TREES SHALL ONLY BE STAKED (BASED ON THE PLANTING SEASON) IF APPROVED BY AND AT THE DIRECTION OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE AS PER THE APPROPRIATE TREE PLANTING DETAIL AND SHALL BE STAKED AT NO ADDITIONAL COST.
14. PLANTING SOIL BACKFILL SHALL CONSIST OF CLEAN SOILS AND SHALL BE FREE FROM RUBBISH, ROCK, LARGE STONES, BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCE THAT IS DETRIMENTAL TO PLANT GROWTH.
15. NO PLANTING AREA WILL BE LEFT UNCOVERED OR NOT TOP-DRESSED. ALL PLANTING AREAS WILL BE PLANTED WITH TREES, SHRUBS OR GROUND COVERS. ALL PLANTING AREAS WILL BE MULCHED AS PER PLAN.
16. CONTRACTOR SHALL APPLY A HERBICIDE AND PRE-EMERGANT TO ALL LANDSCAPE AREAS PRIOR TO COMMENCING WORK, AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
17. ALL PARKWAY TREES SHALL BE INSTALLED WITH A MINIMUM 3" CALIPER.

PRE-EMERGENT NOTES

1. CONTRACTOR SHALL HAVE A TDA LICENSED APPLICATOR APPLY SURFLAN OR APPROVED EQUAL PRE-EMERGENT TO PROJECT SITE DURING BEGINNING OF CONSTRUCTION, AFTER FINAL GRADING, BUT PRIOR TO INSTALLATION OF WEED FABRIC. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND PRE-EMERGENT MUST INCLUDE PREVENTION OF ALL INVASIVE WEEDS AND GRASSES, INCLUDING BERMUDA GRASS. A COMBINATION OF PRE-EMERGENT PRODUCTS MAY BE USED IN ORDER TO ACHIEVE DESIRED RESULTS - PREVENTION OF FUTURE WEEDS AND GRASSES. HOWEVER, PRODUCT(S) MUST NOT HARM EXISTING DESIRABLE PLANTS, OR NEW PLANTS AND PROPER PROTECTION OF EXISTING PLANTS AND TREE ROOT SYSTEMS MUST BE TAKEN AS DIRECTED BY PRODUCT LITERATURE. CONTRACTOR TO PROVIDE MSDS INFORMATION FOR PRODUCT(S) IN SUBMITTAL PACKAGE.

PLANT MAINTENANCE AND WARRANTY

1. MAINTENANCE AND PROTECTING OF NEW TREES, SHRUBS, AND GROUND COVER SHALL BEGIN IMMEDIATELY FOLLOWING SUBSTANTIAL COMPLETION AND CONTINUE FOR A PERIOD OF THIRTY DAYS. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, REMOVAL OF DEAD MATERIAL AND DEBRIS, RESETTING OF TREES TO UPRIGHT POSITIONS, RESTORATION OF EARTH BASINS, AND SUCH OTHER OPERATIONS AS MAY BE NECESSARY FOR THE HEALTH OF THE PLANTED STOCK AND THE GENERAL APPEARANCE OF THE LANDSCAPED AREAS. PROTECTION SHALL INCLUDE CARE OF THE PLANTED STOCK FROM DAMAGES RESULTING FROM TRESPASS, EROSION (INCLUDING WATERING), WEATHER, VANDALISM, DISEASE AND THE LIKE.
2. ALL TREES, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR THE PERIOD OF ONE YEAR, BEGINNING ON THE DATE OF FINAL CONTRACT ACCEPTANCE.

SODDING NOTES

SUBMIT THE FOLLOWING

1. SOD CERTIFICATION FOR GRASS SPECIES AND NAME AND LOCATION OF SOD SOURCE. SODDING SCHEDULE, INCLUDING DATES AND TYPE OF WORK TO BE PERFORMED. PRIOR TO ORDERING, NAME OF SUPPLIER OF SOIL AMENDMENT MATERIALS.

QUALITY ASSURANCE

2. MINIMUM AGE 18 MONTHS, WITH ROOT DEVELOPMENT THAT WILL SUPPORT ITS OWN WEIGHT WITHOUT TEARING, WHEN SUSPENDED VERTICALLY BY HOLDING THE UPPER TWO CORNERS.

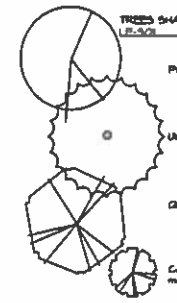
DELIVERY STORAGE AND HANDLING

3. TIME DELIVERY SO THAT SOD WILL BE PLACED WITHIN 24 HOURS OF DELIVERY AT SITE. PROTECT AGAINST DRYING AND BREAKING OF ROLLED STRIPS.
4. DELIVER PACKAGED MATERIALS IN CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED ON SITE.

SITE CONDITIONS

5. PROCEED WITH AND COMPLETE LANDSCAPE WORK AS RAPIDLY AS PORTIONS OF SITE BECOME AVAILABLE, WORKING WITHIN SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED.
6. PROVIDE 1 SOIL TEST IN EACH AREA TO RECEIVE SOD (MINIMUM OF 1 PER 30,000 S.F., EVENLY SPACED). AFTER ORGANIC MATTER HAS BEEN ROTOTILLED TO SPECIFIED DEPTH, NOTIFY LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE AS TO DATE AND TIME OF SOIL TEST TO ALLOW FOR THEIR ATTENDANCE DURING SOIL TEST. SUBMIT SOIL TESTS RESULTS FOR SOIL STRUCTURE AND RECOMMENDED AMENDMENTS ANALYSIS FROM A REPUTABLE LAB.
7. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS CONSULT THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.
8. PLANT OR INSTALL MATERIALS DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF LANDSCAPE WORK REQUIRED. CORRELATE PLANTING WITH SPECIFIED MAINTENANCE PERIODS TO PROVIDE MAINTENANCE FROM DATE OF FINAL ACCEPTANCE.

PLANT SCHEDULE



SYMBOL	ABB.	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE & COMMENTS	HT x SPR	NUMBER OF EMITTERS	SIZE OF EMITTER GPH	ZONE
TREES SHALL BE INSTALLED AS PER DETAILS ON SHEET LP-501									
		Pistacia chinensis	CHINESE PISTACHE	8	3" CALIPER 10FT-12FT. MIN	40' x 30'	0	0	TR-DRIP RING
		Ulmo parvifolia	LACEBARK ELM	8	3" CALIPER 10FT-12FT. MIN	40' x 35'	0	0	TR-DRIP RING
		Quercus buckley	TEXAS RED OAK	7	3" CALIPER, 10FT MIN.	25' X 25'	0	0	TR-DRIP RING
		Cercis canadensis v. mexicana	MEXICAN REDBUD	2	15 GAL	20' x 15'	0	0	TR-DRIP RING
SHRUBS, PERENNIALS, VINES & GRASS PLANTINGS, INSTALL AS PER DETAILS ON SHEET LP-501									
		Lonicera X americana 'Pam's Pink'	PAMS PINK HONEYSUCKLE	3	5 GAL	4.5' x 6'	2	2	SH-DRIP
		Caesalpinia pulcherrima	RED BIRD OF PARADISE	12	5 GAL	6' X 6'	2	2	SH-DRIP
		Tecoma hybrid 'Sunbae'	SUNRISE BELLS	10	5 GAL	5' x 5'	2	2	SH-DRIP
		Pennisetum alopecuroides 'Hameln'	DWARF FOUNTAIN GRASS	38	5 GAL	2.5' x 2.5'	2	2	SH-DRIP
		Hesperaloe parviflora	RED YUCCA	24	5 GAL	1.5' x 2'	2	2	SH-DRIP
		Leucophyllum frutescens	GREEN CLOUD	12	5 GAL	5' x 5'	2	2	SH-DRIP
		Chrysactinia mexicana	DAHLANTA	6	5 GAL	1.5' x 5'	2	2	SH-DRIP
		Muhlenbergia capillaris 'Lenca'	REGAL MIST	51	5 GAL	3' x 5'	2	2	SH-DRIP
GROUND COVER, LETTER AND NUMBERS IN SYMBOL INDICATES PLANT ABBREVIATION AND PLANT QUANTITIES.									
	LB	Lantana spp. 'New Gold'	NEW GOLD LANTANA	48	1 GAL (8)24" o.c. triangular spacing	2' x 4'	2	1	SH-DRIP
		Cynodon dactylon	SANTA ANA BERMUDA SOD	N/A	8200 SQ. FT.	VARIES	0	0	NA

SODDING NOTES CONTINUED

SOIL AMENDMENTS

9. PROVIDE SOIL ANALYSIS BEFORE ADDITION OF SOIL AMENDMENTS & ANALYSES OF SOIL AMENDMENTS. ORGANIC AMENDMENTS SHALL CONSIST OF WELL-AGED ORGANIC COMPOST OR APPROVED EQUAL.

FERTILIZER

10. PROVIDE STARTER FERTILIZER AS PER SOIL TEST RECOMMENDATION IN SODDING NOTE 6 ABOVE, HOWEVER, AT A MINIMUM A SLOW-RELEASE FERTILIZER GUARANTEED ANALYSIS OF 20% NITROGEN, 20% PHOSPHORIC ACID AND 5% POTASH BY WEIGHT OR SIMILAR APPROVED COMPOSITION AT A RATE OF 1 LB OF ACTUAL NITROGEN PER 1,000 SQUARE FEET BY WEIGHT SHALL BE APPLIED. THE GREATER OF THE STARTER FERTILIZERS SHALL APPLY.
11. PROVIDE TOP-DRESSING FERTILIZER GUARANTEED ANALYSIS OF 16-8-16 OR SIMILAR APPROVED COMPOSITION AT A RATE OF 1 LB OF ACTUAL NITROGEN PER 1,000 SQUARE FEET BY WEIGHT.

GRASS MATERIALS

12. PROVIDE STRONGLY ROOTED SOD, NOT LESS THAN 18 MONTHS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES AND MACHINE CUT TO PAD THICKNESS OF 3/4 INCH (PLUS OR MINUS 1/4 INCH), EXCLUDING TOP GROWTH AND THATCH. PROVIDE SOD CAPABLE OF GROWTH AND DEVELOPMENT WHEN PLANTED. CUT SOD PIECES A MINIMUM OF 18 INCHES WIDE.

PREPARATION

1. PRIOR TO START OF SOIL PREPARATION ALL FINISH GRADES SHALL BE ESTABLISHED AND APPROVED AS MEETING THE ADJACENT CONTOURS WHERE FINISHED GRADES HAVE BEEN ESTABLISHED. REQUIREMENTS OF THE GRADING PLAN. APPLY A UNIFORM FOUR-INCH LAYER (12 C.Y./1000 SQUARE FEET) OF ORGANIC SOIL AMENDMENT, FREE OF WEEDS, LARGE STONES, BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCE THAT IS DETRIMENTAL TO PLANT GROWTH. AREA SHALL BE THOROUGHLY ROTOTILLED TO A MINIMUM DEPTH OF 6 INCHES. AFTER ROTOTILLING IS COMPLETE AT CROSS DIRECTIONS, DRAG TO AN EVEN GRADE, THEN ROLL FOR FIRMNESS. RAKE TILLED AREA AND REMOVE STONES OVER 1 INCH IN ANY DIMENSION, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. REMOVE EXCESS TO AVOID SMOTHERING GRASS. ROLL ENTIRE AREA WITH WEIGHTED HAND ROLLER. APPLY FERTILIZER AS PER SODDING NOTE 10 ABOVE TO THE ENTIRE AREA TO BE SODDED. LAZER LEVEL TO SMOOTH AND GRADUAL CONTOUR LEVELS FOLLOWING ADJACENT TOPOGRAPHY CHANGES.

SODDING OPERATIONS

1. LAY SOD WITHIN 24 HOURS OF DELIVERY AT SITE. DO NOT PLANT DORMANT SOD OR ON FROZEN GROUND.
2. REMOVE NETTING OR ANY EXTRANEOUS DEBRIS AS SOD IS BEING UNROLLED.
3. IF SOIL IS DRY, MOISTEN AREAS BEFORE SODDING. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY. DO NOT CREATE A MUDDY SOIL CONDITION.
4. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. NO JOINT SHALL BE MORE THAN ¼". LAY SOD OVER MOISTENED SOIL. LIGHTLY RAKING THE SOIL AHEAD OF EACH SOD STRIP. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STAGGER STRIPS TO OFF-SET JOINTS IN ADJACENT COURSES. LAY SOD PARALLEL TO CONTOURS OF SLOPE. WORK FROM BOARDS TO AVOID DAMAGE TO SUBSOIL OR SOD. TAMP FIRMLY AND EVENLY BY HAND TO ENSURE CONTACT WITH SUBSOIL. WORK SIFTED TOPSOIL OR SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD
5. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING

SITE CONDITIONS

6. PROCEED WITH AND COMPLETE LANDSCAPE WORK AS RAPIDLY AS PORTIONS OF SITE BECOME AVAILABLE, WORKING WITHIN SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED.
7. GRADING OF THE SITE SHALL BE PERFORMED BY LAZER LEVELING BEFORE AND AFTER THE INSTALLATION OF IRRIGATION. FINAL ELEVATIONS SHALL BE EVALUATED AT DIFFERENT POINTS IN THE TERRAIN TO ASSURE GRADING IS AS SPECIFIED ON THE PROJECT'S PLANS.

MAINTENANCE

8. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING.
9. MAINTAIN LAWNS FOR NOT LESS THAN A PERIOD OF AT LEAST 60 DAYS AFTER COMPLETION AND ACCEPTANCE OF SOD. INSPECTION TO DETERMINE ACCEPTANCE OF SODDED LAWNS WILL BE MADE BY LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE UPON CONTRACTOR'S REQUEST FOR INSPECTION. PROVIDE NOTIFICATION AT LEAST 10 WORKING DAYS BEFORE REQUESTED INSPECTION DATE AND LONGER AS REQUIRED TO ESTABLISH AN ACCEPTABLE LAWN.
10. MAINTENANCE TO INCLUDE:
    - -WATER SOD THOROUGH EVERY DAY MIN, FOR 2 TO 3 WEEKS DEPENDENT ON THE SEASON AND AS REQUIRED TO ESTABLISH PROPER ROOTING.
    - -REPAIR, REWORK AND RESOD AREAS THAT HAVE WASHED OUT OR ERODED.
    - -REPLACE DEAD OR UNDESIRABLE SOD SECTIONS WITH NEW SOD.
    - -MOW LAWN AREAS WHEN THE GRASS IS OVER 2 INCHES HIGH FOR FIRST CUTTING.
    - -FERTILIZE LAWN WITH TOP DRESSING FERTILIZER, SEE SODDING NOTE 11, AT 1 LB. PER 1,000 SQ.FT. OF NITROGEN. WATER THOROUGHLY.
11. ADDITIONAL LAWN MAINTENANCE CONSISTS OF WEEDING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

CLEANUP AND PROTECTION

12. DURING THE WORK, KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION.
13. PROTECT WORK AND MATERIALS FROM DAMAGE DUE TO SODDING OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED WORK AS DIRECTED.

INSPECTION AND ACCEPTANCE

14. WHEN INSPECTED WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK, AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED BY THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED SOD AND MATERIALS PROMPTLY FROM PROJECT SITE.

EMITTER LEGEND

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05/01/16

REVISION SCHEDULE

PROJECT STATUS	CDS
ISSUE DATE	APRIL 2016
CAD FILE NO.	2013 019
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CHECKED BY	GAP

sheet name

LANDSCAPE NOTES

LG-001

EL PASO INDEPENDENT SCHOOL DISTRICT
6531 BOEING DR.
EL PASO, TX 79925

IAM EPISD

CROCKETT ELEMENTARY SCHOOL

3200 WHEELING AVE.
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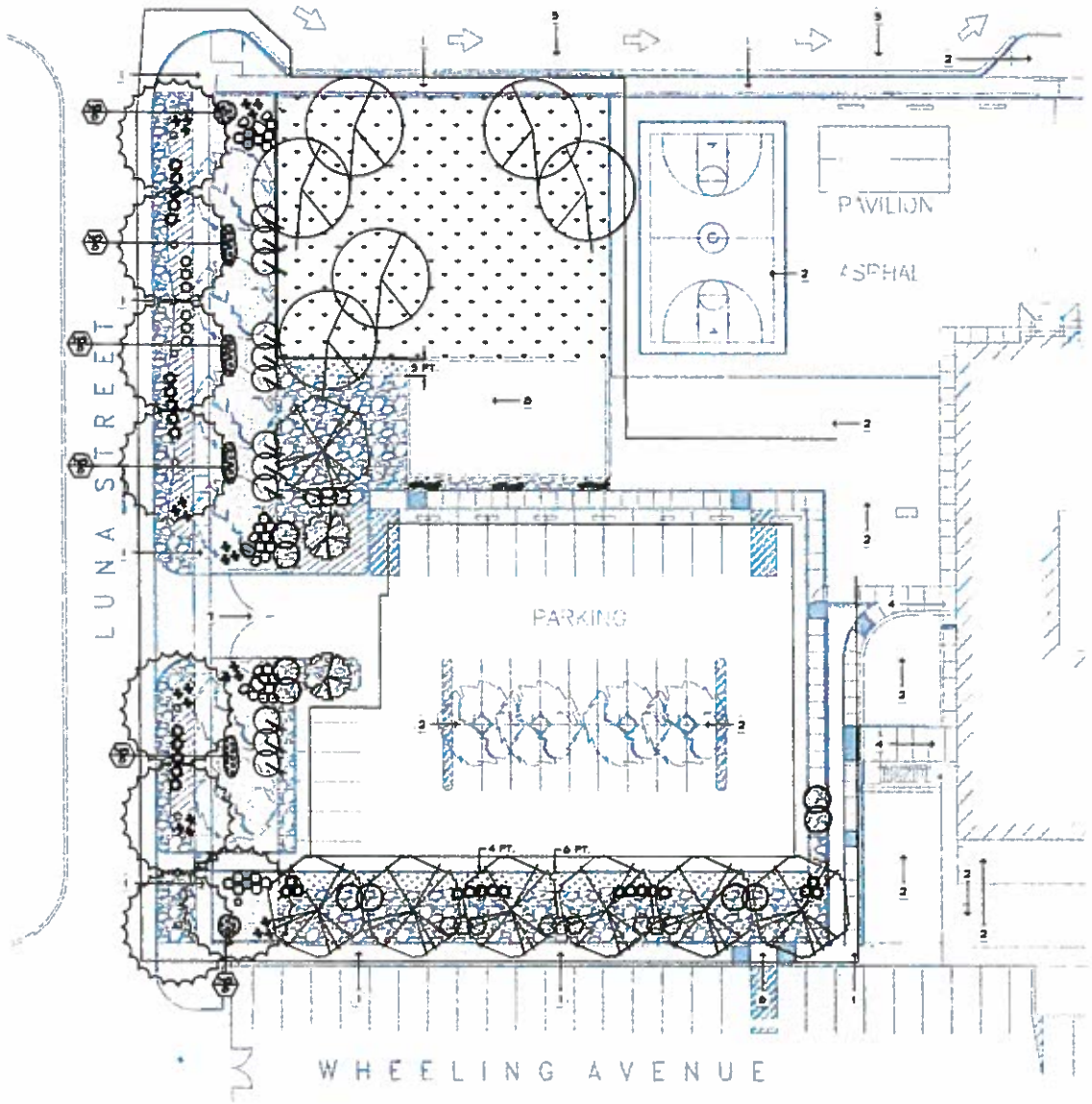


LANDSCAPE PLAN

SCALE 1" = 20'-0"

MATERIALS LEGEND

- PROVIDE AND INSTALL 3" TO 4" FRANKLIN RED OR PADRE CANYON ROCK MULCH, 4" DEPTH WITH DE MITT PRO 5 FILTER FABRIC OR APPROVED EQUAL.
- PROVIDE AND INSTALL 2" FRANKLIN RED OR PADRE CANYON ROCK MULCH, 3" DEPTH WITH DE MITT PRO 5 FILTER FABRIC OR APPROVED EQUAL.
- PROVIDE AND INSTALL FRANKLIN RED OR PADRE CANYON SCREENINGS, 3" DEPTH WITH DE MITT PRO 5 FILTER FABRIC OR APPROVED EQUAL.
- EXISTING FRANKLIN RED OR PADRE CANYON ROCK, PRESERVE AND PROTECT AREAS. CONTRACTOR TO APPLY HERBICIDE ON EXISTING WEEDS.
- PROVIDE AND INSTALL FRANKLIN RED OR PADRE CANYON BOULDERS (N) - 2'-0" X 3'-0", EVENLY MIXED, PARTIALLY BURIED, SEE DETAILS.
- PROVIDE AND INSTALL 6 INCH CONCRETE MOW STRIP, SEE DETAILS
- EXISTING PLAYGROUND ROCK WALLS, PRESERVE AND PROTECT
- EXISTING TREE, PRESERVE AND PROTECT AS PER DETAILS.

PLANT SCHEDULE

SYMBOL	ABB	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE & COMMENTS
TREES SHALL BE INSTALLED AS PER DETAILS ON SHEET LP-501					
		Pistacia chinensis	CHINESE PISTACHE	6	2" CALIPER 10FT.-12FT. MIN.
		Ulmo parvifolia	LACEBARK ELM	8	2" CALIPER 10FT.-12FT. MIN.
		Quercus buckleyi	TEXAS RED OAK	7	2" CALIPER 10FT MIN.
		Cercis canadensis v. mexicana	MEXICAN REDBUD	2	15 GAL
SHRUBS, PERENNIALS, VINES & GRASS PLANTINGS, INSTALL AS PER DETAILS ON SHEET LP-501					
		Lantana X americana 'Pam's Pink'	PAM'S PINK HONEYSUCKLE	3	5 GAL
		Caesalpinia pulcherrima	RED BIRD OF PARADISE	12	5 GAL
		Tecoma hybrid 'Sunrise'	SUNRISE BELLS	10	5 GAL
		Pennisetum alopecuroides 'Hamelin'	DWARF FOUNTAIN GRASS	20	5 GAL
		Hesperaloe parviflora	RED YUCCA	24	5 GAL
		Leucophyllum frutescens	GREEN CLOUD	12	5 GAL
		Chrysactinia mexicana	DAHLANTA	6	5 GAL
		Muhlenbergia capillaris 'Lenca'	REGAL MIST	31	5 GAL
GROUND COVER. LETTER AND NUMBERS IN SYMBOL INDICATES PLANT ABBREVIATION AND PLANT QUANTITIES.					
	LB	Lantana spp. 'New Gold'	NEW GOLD LANTANA	46	1 GAL. (@24" o.c. triangular spacing)
		Cynodon dactylon	SANTA ANA BERMUDA SOD	N/A	8200 SQ FT

NOTES:

ALL PARKWAY TREES ALONG AURORA AVENUE AND LUNA STREET SHALL BE 2" CALIPER AND INSTALLED AS INDICATED ON PLANS. (ALL STREET FRONTAGE LANDSCAPE TREES SHALL BE SYMMETRICALLY INSTALLED AT 33 FT. INTERVALS.)

THE EXACT PLACEMENT AND / OR PATTERN DESIGN FOR PLANT MATERIAL SHALL BE CONSISTENT TO PLANS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE EXISTING SITE.

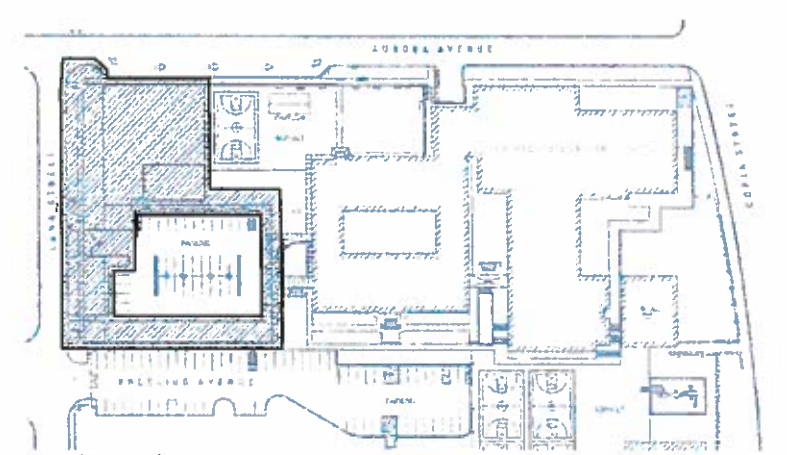
CONTRACTOR SHALL REMOVE ALL EXISTING ROCK IN WORK AREAS THAT ARE EXCEEDING 1" X 1".

CONTRACTOR SHALL REMOVE FOUR INCHES OF SOIL WHERE SODDING IS INDICATED ON PLANS AND REINTRODUCE A UNIFORM LAYER OF ORGANIC SOIL AMENDMENT AS PER SODDING NOTES (PREPARATION NOTE #1) ON SHEET LS-001.

*CITY OF EL PASO LANDSCAPE ORDINANCE REQUIREMENTS ARE NOT APPLICABLE DUE TO INSUFFICIENT EXTERIOR IMPROVEMENTS AS DESCRIBED THROUGH THE LATEST ORDINANCE.

KEYED NOTES

1. EXISTING SIDEWALK, PRESERVE AND PROTECT.
2. NOT IN CONTRACT (N.I.C.)
3. KEYED NOTE NOT USED
4. EXISTING SCHOOL ENTRANCE
5. EXISTING STUDENT DROP-OFF AREA
6. EXISTING CONCRETE RAMP
7. EXISTING CHAIN-LINK GATE, CONTRACTOR TO COORDINATE REMOVAL WITH OWNER REPRESENTATIVE.
8. EXISTING PLAYGROUND AREA, PRESERVE AND PROTECT



KEY MAP

NOT TO SCALE

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HONORED LANDSCAPE ARCHITECT
STATE OF TEXAS
03/01/16

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REVISION SCHEDULE

DESIGN STATUS	CD
ISSUE DATE	APR. 2016
REVISION No.	
DRAWN BY	STAFF
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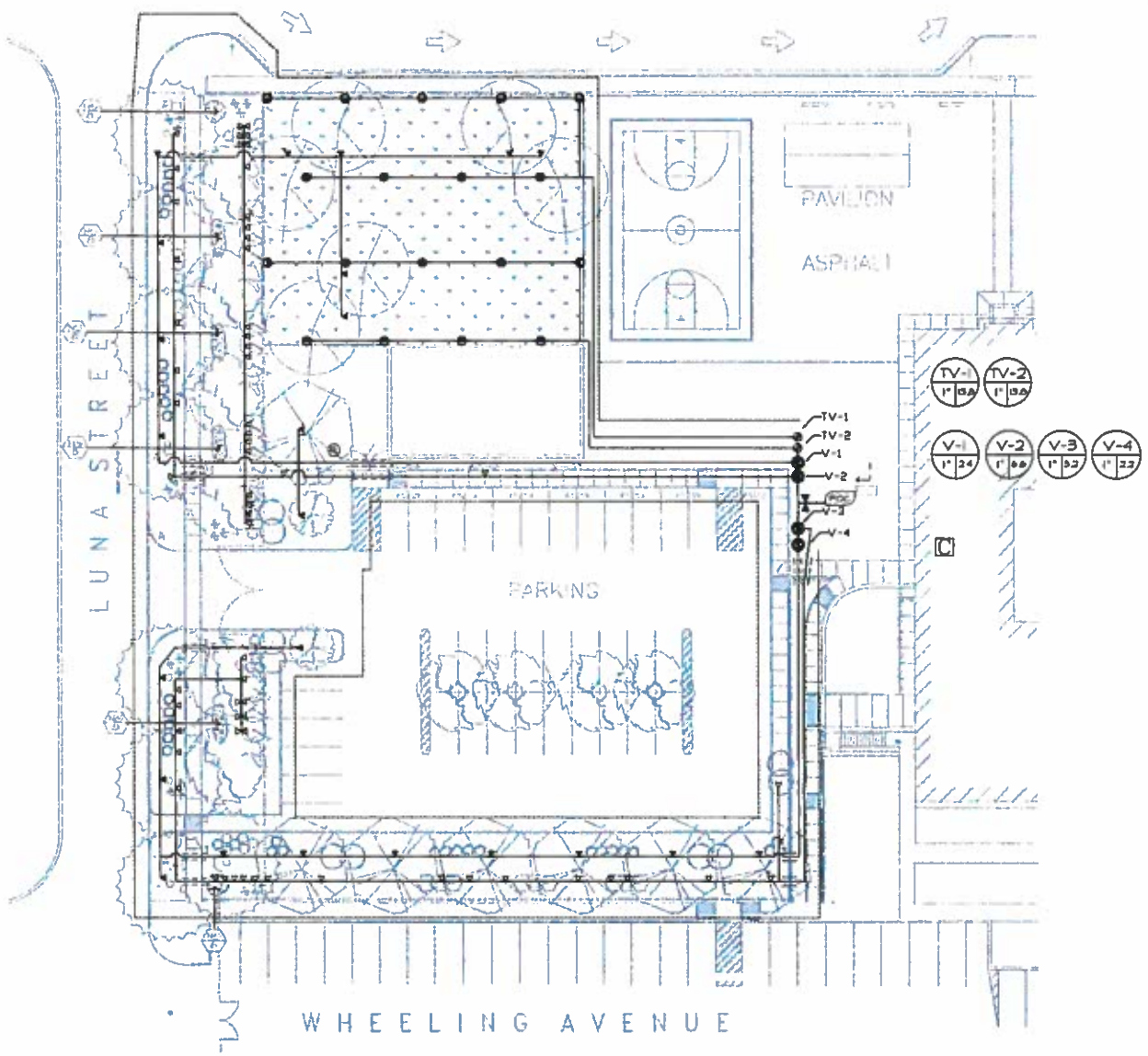
sheet name

LANDSCAPE PLAN

LP-101



IRRIGATION PLAN

SCALE 1" = 20' - 0"

IRRIGATION LEGEND

- RAIN BIRD ESP-STH WITH 1 STATION CAPABLE COMMERCIAL CONTROLLER, MOUNTED ON A POWDER-COATED, WALL MOUNTED BOX WITHOUT FLOW SENSING.
- POC — POINT OF CONNECTION (P.O.C.) FIELD LOCATE AND CONNECT TO EXISTING 1" MAINLINE. CONTRACTOR TO VERIFY PRESSURE.
- MATTS 1" HEAVY DUTY BRASS BALL VALVE, OR APPROVED EQUAL, SEE DETAILS
- PROVIDE AND INSTALL HUNTER PGJ-04 - 4" POP-UP ROTOR WITH ADJUSTABLE ARCS. USE R20 NOZZLE 2.5 WITH 28 FT. RADIUS (FLOW: 2.3 GPM)
- PROVIDE AND INSTALL HUNTER MINI HEATER STATION. CONTRACTOR TO INSTALL AS PER MANUFACTURER'S INSTRUCTIONS, SEE DETAILS
- PROVIDE AND INSTALL HUNTER ZONE VALVE KIT ICV-101G, 1" GLOBE VALVE WITH FLOW CONTROL. (FLOW: 0.1 TO 40 GPM)
- PROVIDE AND INSTALL HUNTER DRIP CONTROL ZONE KIT ICZ-101, 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM AND 40 PSI REGULATOR. (FLOW: 2 TO 60 GPM)
- PROVIDE AND INSTALL XERIBIRD MULTI-OUTLET EMITTER DEVICE, MODEL XBT-20-6. (2.0 GPH EMITTER) PROVIDE (2) PER 5 GALLON SHRUB. PROVIDE AND INSTALL XERIBUG EMITTER BLANKED XBT-40-6 (1.0 GPH EMITTER) PROVIDE (2) PER 1 GALLON SHRUB UNLESS OTHERWISE INDICATED ON DETAILS
- PROVIDE AND INSTALL TREE RING IRRIGATION 4 GPH @ 12" O.E. APPROX. 20 L.F. OF TUBING PER TREE. REFER TO DETAILS.
- EXISTING 1" PVC SCHEDULE 40 MAINLINE
- PVC CLASS 200 LATERAL PIPE - ALL PIPE IS 3/4" UNLESS OTHERWISE SPECIFIED ON PLANS 12" MIN. DEPTH OF BURY
- SCHEDULE 40 SLEEVING, SEE SIZE ON PLAN. PROVIDE SUFFICIENT NUMBER TO ALLOW TOTAL PIPING DIAMETER IN SLEEVE TO FIT AND TO BE TWO (2) SIZES LARGER THAN THE SUM OF THE TOTAL DIAMETER OF THE PIPE HOUSED WITHIN. CONTROL WIRE SHALL BE IN SEPARATE SLEEVE.

IRRIGATION PIPE SIZING CHART

LATERALS SHALL BE SCHEDULE 40 PVC, SIZED AS INDICATED BELOW.

MAXIMUM DEMAND	
UP TO 8 GPM	3/4"
8 TO 12 GPM	1"
12 TO 22 GPM	1 1/4"
22 TO 30 GPM	1 1/2"
30 TO 50 GPM	2"
50 TO 70 GPM	2 1/2"

IRRIGATION NOTES

1. THE IRRIGATION DESIGN IS DIAGRAMMATIC. EQUIPMENT SHOWN IN PAVED AREA IS FOR DESIGN CLARITY ONLY AND CONSTRUCTED ELEMENTS AND OBSTRUCTIONS WHETHER NOTED ON THE PLANS OR NOT SHALL BE AVOIDED TO MINIMIZE SLEEVING.
2. ALL EQUIPMENT IS TO BE INSTALLED WITHIN PLANTING AREAS. ALTHOUGH EQUIPMENT IS SHOWN ON PLAN FOR CLARITY AND MAY BE SHOWN IN PAVED AREAS, EQUIPMENT SHALL BE LOCATED ADHERING TO THE INTENT OF THE PLAN LAYOUT AND ALL IRRIGATION COMPONENTS SHALL BE INSTALLED IN PLANTING AREAS. ALL PIPE SHALL BE SLEEVED UNDER PAVING.

NOTES:

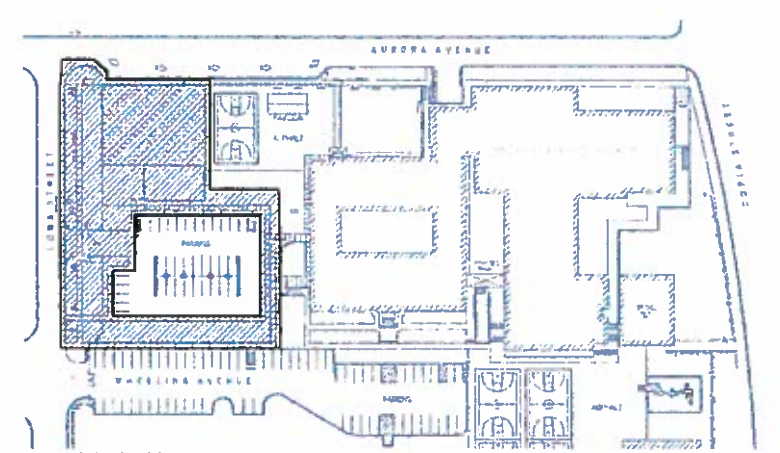
CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE EXISTING SITE.

CONTRACTOR SHALL VERIFY THAT EXISTING BACKFLOW IS CURRENT WITH CITY AND STATE CODE REQUIREMENTS. SHOULD BACKFLOW NOT HOLD CURRENT CODE REQUIREMENTS, CONTRACTOR SHALL UPGRADE TO ONE THAT MEETS CODE AND IRRIGATION SYSTEM DEMAND.

CONTRACTOR SHALL REMOVE FOUR INCHES OF SOIL WHERE SODDING IS INDICATED ON PLANS AND REINTRODUCE A UNIFORM LAYER OF ORGANIC SOIL AMENDMENT AS PER SODDING NOTES (PREPARATION NOTE #J) ON SHEET L6-001.

KEYED NOTES

1. IRRIGATION SYSTEM SHALL BE ADJUSTED AND MODIFIED ACCORDINGLY TO ACCOMMODATE FOR THE NEWLY DESIGNED SOD AREA AND DRIP IRRIGATION. CONTRACTOR TO FIELD LOCATE IRRIGATION POINT OF CONNECTION.



KEY MAP

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REVISION SCHEDULE

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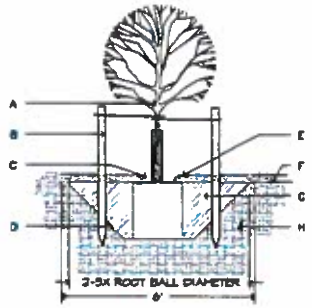
sheet name

IRRIGATION PLAN

LI-101

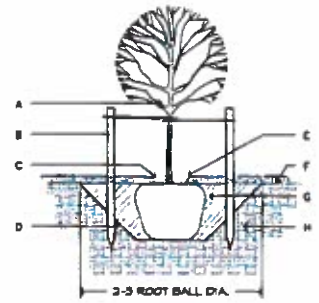


A. TREE
B. STAKING
C. 4" SPACE BETWEEN MULCH AND TREE
D. (-) SLOPE ON SIDES OF PLANTING HOLE
E. 3" DEPTH OF MULCH
F. FINISH GRADE
G. BACKFILL WITH EXISTING NATIVE SOIL
H. UNDISTURBED SOIL

1. KEEP SOIL BELOW ROOT BALL UNDISTURBED TO PREVENT TREE FROM SETTLING.
2. REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (WHERE TOP MOST ROOT EMERGES FROM THE TRUNK). PLANT WITH ROOT FLARE LEVEL AT FINISH GRADE (OR 1"-2" HIGHER IN SLOWLY DRAINING SOIL).
3. REMOVE CONTAINER AND CUT ANY ROOTS THAT ARE CIRCLING THE CONTAINER.
4. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE.
5. AT TIME OF PLANTING, ONLY PRUNE CO-DOMINANT LEADERS (DOES NOT APPLY TO NATIVE OR MULTI-TRUNK SPECIMENS), CROSSOVER LIMBS, AND DEAD OR BROKEN BRANCHES.
6. STAKE TREES ONLY IF TREE CANNOT STAND ALONE AND WITH APPROVAL OF THE LANDSCAPE ARCHITECT.
7. DO NOT ALLOW MULCH IN CONTACT WITH TREE TRUNK. KEEP AT LEAST 4" AWAY FROM TRUNK.
8. WHEN DONE, THOROUGHLY WATER TO ELIMINATE AIR POCKETS.
9. PROVIDE MIN. 3 STAKES/ TREE (TYP.) IN A TRIANGULAR PATTERN, STAKED INTO UNDISTURBED SOIL WITH CLARK'S TREE STAKE KIT OR APPROVED EQUAL.

A TREE PLANTING, CONTAINER

Not to scale



A. TREE
B. 5" MULCH
C. 4" SPACE BETWEEN MULCH AND TREE
D. (-) SLOPE ON SIDES OF PLANTING HOLE
E. 3" DEPTH OF MULCH
F. FINISH GRADE
G. BACKFILL WITH EXISTING NATIVE SOIL
H. UNDISTURBED SOIL

1. KEEP SOIL BELOW ROOT BALL UNDISTURBED TO PREVENT TREE FROM SETTLING.
2. REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (WHERE TOP MOST ROOT EMERGES FROM THE TRUNK). PLANT WITH ROOT FLARE LEVEL AT FINISH GRADE (OR 1"-2" HIGHER IN SLOWLY DRAINING SOIL).
3. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE.
4. PRIOR TO BACKFILLING, REMOVE BURLAP, ROPE, TWINE, AND WIRE FROM TOP HALF OF ROOTBALL AND FROM PLANTING HOLE. CUT ANY ROOTS THAT ARE CIRCLING THE CONTAINER.
5. AT TIME OF PLANTING, ONLY PRUNE CO-DOMINANT LEADERS (DOES NOT APPLY TO NATIVE OR MULTI-TRUNK SPECIMENS), CROSSOVER LIMBS, AND DEAD OR BROKEN BRANCHES.
6. STAKE TREES ONLY IF TREE CANNOT STAND ALONE AND WITH APPROVAL OF THE LANDSCAPE ARCHITECT.
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8. WHEN DONE, THOROUGHLY WATER TO ELIMINATE AIR POCKETS.
9. PROVIDE MIN. 3 STAKES/ TREE (TYP.) IN A TRIANGULAR PATTERN, STAKED INTO UNDISTURBED SOIL WITH CLARK'S TREE STAKE KIT OR APPROVED EQUAL.

B TREE PLANTING, BALLED & BURLAP

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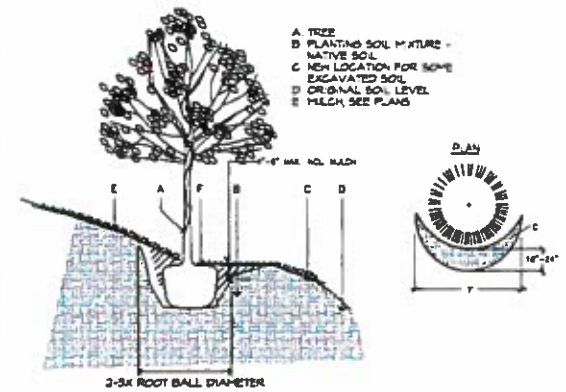

A. TREE
B. PLANTING SOIL MIXTURE - NATIVE SOIL
C. NEW LOCATION FOR SOME EXCAVATED SOIL
D. ORIGINAL SOIL LEVEL
E. MULCH, SEE PLANS

C PLANTING ON SWALE SLOPES

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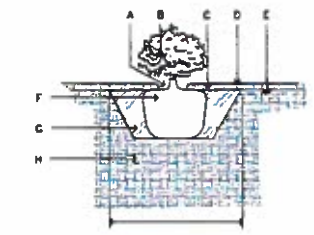
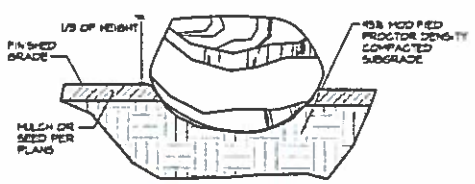


A. PULL BACK MULCH AT LEAST 2" FROM BASE OF SHRUB.
B. SHRUB.
C. MULCH AS PER PLANS
D. FINISH GRADE.
E. SUBGRADE.
F. ROOT BALL.
G. BACKFILL WITH NATIVE SOIL.
H. UNDISTURBED SOIL.

D SHRUB PLANTING

Not to scale

NOTE:
LOCATIONS TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT. BURY 1/3 OF BOULDER IN COMPACTED SUBGRADE, UNLESS IT IS WITHIN DRIP ZONE OF EXISTING TREE. SEE LEGEND FOR BOULDER TYPE.



E BOULDER INSTALLATION DETAIL

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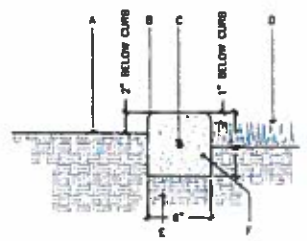

A. ROCK MULCH, SEE CONSTRUCTION PLAN
B. TOOLED EDGE
C. No. 3 REBAR HORIZONTAL AND CONTINUOUS.
D. TURF, SEE PLANTING PLAN
E. COMPACTED SUBGRADE 95% MODIFIED PROCTOR DENSITY
F. 3000 PSI CONCRETE MOWSTRIP

CONTROL JOINTS TO BE PLACED AT 5' O.C.

F CONCRETE MOWSTRIP

Not to scale

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TEXAS REGISTERED LANDSCAPE ARCHITECT
STATE OF TEXAS
05/5/16

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REVISION SCHEDULE

PROJECT MANAGER	CDS
ISSUE DATE	APRIL 2016
PROJECT NO.	2015-07-01
DRAWN BY	STAFF
PM REVIEW BY	CAP

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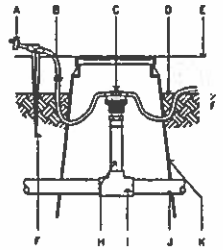
LANDSCAPE DETAILS

LP-501



A. SINGLE-OUTLET EMITTER. SEE IRRIGATION LEGEND (BARB ONLY).
B. 1/4-INCH TUBING. POLYETHYLENE DISTRIBUTION TUBING.
C. 6-OUTLET DISTRIBUTION MANIFOLD. RAIN BIRD EMT-6XERI.
D. FINISH GRADE.
E. TOP OF MULCH.
F. 1/4-INCH TUBING STAKE. RAIN BIRD TS-023
G. 3-INCH MIN. DEPTH OF 3/8" PEA GRAVEL.
H. RISER.
I. TEE OR ELL TO PVC OR POLYETHYLENE PIPE SEE PLAN.
J. PVC OR POLYETHYLENE LATERAL PIPE MUST USE PURPLE PURPLE PIPE. SEE PLAN.
K. CARSON 4" ROUND SUBTERRANEAN EMITTER BOX.

CONSTRUCTION NOTES:
1. ENSURE SINGLE OUTLET EMITTER IS ON TOP AND ON THE HIGH SIDE OF THE PLANT'S ROOTBALL.
2. LOCATE SINGLE OUTLET EMITTERS AROUND TREES AS PER PLAN DIAGRAM ABOVE.
3. LOCATE SINGLE OUTLET EMITTERS FOR 1 GALLON & 5 GALLON, 2 PER GALLON ON OPPOSITE SIDES OF ROOTBALL & 1 PER 1 GALLON.
4. FOR GREEN ROOF INSTALLATION, DELETE CONCRETE BLOCKS AND PEA GRAVEL AND CUT BOX AT BASE TO FIT FLUSH WITH TOP OF MULCH

(A) 6-OUTLET EMITTER

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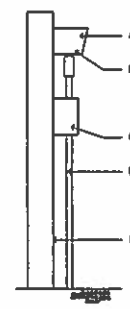

A. WALL MOUNT CONTROLLER. SEE IRRIGATION LEGEND.
B. BOTTOM OF BOX TO BE 5' MIN ABOVE FLOOR GRADE
C. ELECTRICAL SUPPLY WIRE IN PVC CONDUIT CONNECT TO SOURCE AS PER LOCAL CODE.
D. COMMON AND CONTROL WIRES IN PVC CONDUIT SIZE AS PER MANUFACTURER'S RECOMMENDATIONS
E. BUILDING WALL.

CONTRACTOR SHALL GROUND CONTROLLER WITH #10 GAUGE OR HEAVIER STRANDED COPPER WIRE TO GROUNDING ROD AS PER MANUFACTURER'S RECOMMENDATIONS

EXACT LOCATION TO BE DETERMINED ON-SITE WITH OWNERS REPRESENTATIVE.

(B) WALL MOUNT CONTROLLER

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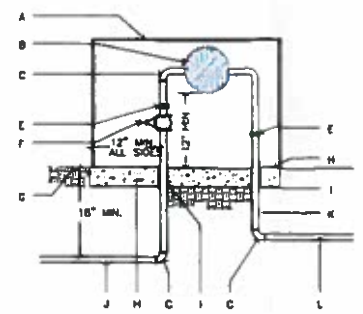
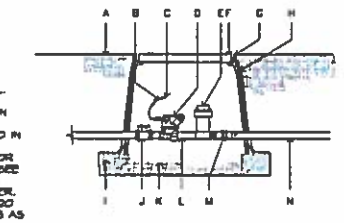


NOTE: REDUCED PRESSURE BACKFLOW PREVENTER MUST BE INSTALLED A MIN. 12" ABOVE HIGHEST IRRIGATION OUTLET.

A. HOT BOX ENCLOSURE (SEE IRRIGATION LEGEND). INSULATE (R-25 MIN.) FROM FREEZING. MUST COMPLY WITH ASSE 1060
B. REDUCED PRESSURE ASSEMBLY. BACKFLOW PREVENTER (SEE IRRIGATION LEGEND)
C. TYPE K HARD DRAWN COPPER FITTINGS.
D. NOT USED.
E. UNION, 4" ABOVE GRADE, MIN.
F. BRASS BALL VALVE.
G. FINISH GRADE.
H. 4000 PSI CONCRETE PAD, 4" DEPTH, SLOPED IN TO DRAIN.
I. PIPE SHALL BE SLEEVED THROUGH CONCRETE PAD WITH SCH 40 PVC.
J. SERVICE LINE.
K. TYPE K COPPER PIPING.
L. MAIN LINE.

(C) REDUCED PRESSURE BACKFLOW PREVENTER

Not to scale



A. FINISH GRADE.
B. 24" WIRE LOOP.
C. DRY SPLICE CONNECTOR OR EQUAL.
D. AUTOMATIC VALVE INCLUDED IN CONTROL ZONE KIT. SEE IRRIGATION LEGEND.
E. BASKET FILTER STRAINER INCLUDED IN CONTROL ZONE KIT SHALL BE INSTALLED TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT. SEE IRRIGATION LEGEND.
F. PURPLE LOCKING VALVE BOX COVER.
G. CARSON PRODUCTS INC (1419DO) 1220 (ABS) VALVE BOX WITH EXTENSIONS AS NECESSARY.
H. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX. TAPE TO ALL INLET & OUTLET PIPE.
I. 8" X 8" X 16" CMU SOLID CONCRETE BLOCK.
J. BALL VALVE INCLUDED IN CONTROL ZONE KIT. SEE IRRIGATION LEGEND
K. 4" LAYER OF 3/8" PEA GRAVEL.
L. SCH 80 NIPPLE
M. INLINE PRESSURE REGULATOR INCLUDED IN CONTROL ZONE KIT. SEE IRRIGATION LEGEND.
N. LATERAL LINE MUST USE PURPLE PIPE.

(D) DRIP VALVE/BASKET FILTER KIT

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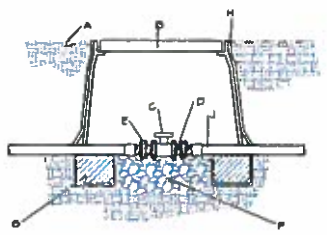

A. FINISH GRADE.
B. CARSONS PRODUCTS INC. 1419 PB-18 BODY (ABS) VALVE BOX WITH 1419 BOLT DOWN COVER (ABS) AND TWO 8" EXTENSIONS
C. BALL VALVE - SEE IRRIGATION LEGEND
D. SCHEDULE 80 PVC CLOSE NIPPLE.
E. SPEARS SCH 80 PVC UNION
F. 1 CUBIC FOOT 1" DIAMETER WASHED ROCK.
G. 8" X 8" X 16" SOLID CMU BLOCK.
H. 6 mm BLACK POLYETHYLENE TAPE TO ALL INLET AND OUTLET LINES
I. PVC MIP ADAPTER

NOTES:
1. INSTALL AN 8"X8"X16" SOLID CMU BLOCK AT EACH END OF THE VALVE BOX
2. WASH ROCK SHALL BE INSTALLED FLUSH WITH BOTTOM OF PIPE AND VALVE

(E) ISOLATION BALL VALVE

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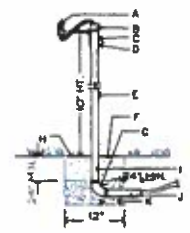

A. RAIN SENSOR. REFER TO IRRIGATION PLANS.
B. 3/4" PIPE CAP WITH HOLE FOR WIRES AND SEAL WITH EXTERIOR GRADE SILICONE SEALANT
C. DRILL TWO 1/8" HOLES IN PIPE FOR SENSOR BRACKET
D. (2) NO. 8-32 MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT
E. 2 1/2" SCH 40 GALVANIZED PIPE - 10 FT HT
F. 12"X12" CONCRETE BASE, MIN 24" DEEP
G. PIPE ELBOW
H. FINISH GRADE
I. PIPE TO BE SEALED AFTER CABLE IS RUN. USE 4 MIL PLASTIC AND TAPED NIPPLE AND THE CABLE WITH HIGH GRADE 3M WEATHER PROOF PLASTIC TAPE.
J. NIPPLE GALVANIZED PIPE IN CONCRETE FOOTING TO BE WRAPPED WITH WEATHER PROOF TAPE TO PROTECT FROM CORROSION.
K. 3/8" PEA GRAVEL.

NOTE: RAIN SENSOR SHALL BE INSTALLED 7 FT. AWAY FROM ANY STRUCTURE AND PROGRAMMED FOR IRRIGATION SHUT-DOWN AFTER 1/4" OF RAINFALL

(F) RAIN SENSOR

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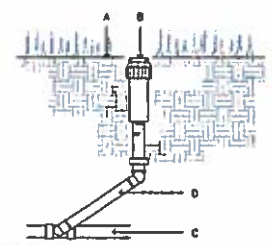

A. FINISH GRADE.
B. SPRINKLER HEAD (SEE PLAN)
C. LATERAL LINE.
D. LASCO PRE-ASSEMBLED SWING JOINT

THIS DETAIL SHALL BE USED FOR POP-UP SHRUB SPRAY, POP-UP LAWN SPRAY, GEAR DRIVEN AND ROTARY SPRINKLER HEADS
TOP OF SPRINKLER HEAD SHALL BE SET FLUSH WITH FINISH GRADE

(G) IRRIGATION SPRINKLER HEAD

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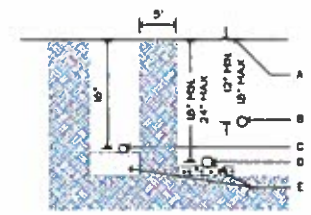

PROVIDE PIPE & WIRE IN SEPARATE TRENCHES 5 FEET APART. WIRE TO BE SET 5 FEET NORTH & WEST OF MAINLINE
PROVIDE SAND BETTING BED 4"-6" IN DEPTH, NO STONES LARGER THAN 1" & NO ORGANIC MATERIAL IN BACKFILL SOIL.

A. FINISH GRADE
B. LATERAL PIPE
C. VALVE WIRE
D. MAIN LINE
E. SAND BETTING BED

(H) PIPE & WIRE DEPTH OF BURY

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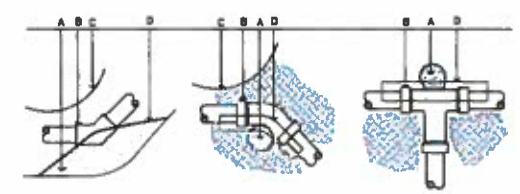

A. CONCRETE THRUST BLOCK PLACED AGAINST SOLID UNDISTURBED SOIL
B. PVC FITTING
C. PIPE TRENCH
D. 10 MIL. PLASTIC SHEETING

NOTE: PVC FITTINGS SHALL BE PROTECTED FROM CONCRETE BY PLACING 10 ML. PLASTIC SHEETING BETWEEN CONCRETE AND FITTING.

(I) IRRIGATION THRUST BLOCKS

Not to scale

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05-16

EL PASO INDEPENDENT SCHOOL DISTRICT
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EL PASO, TX 79925

I AM EPISD

CROCKETT ELEMENTARY SCHOOL

3200 WHEELING AVE.
EL PASO, TEXAS 79930

REVISION SCHEDULE

PROJECT STATUS	CDS
ISSUE DATE	APRIL 2016
PROJECT No.	2015 019
DRAWN BY	STAFF
CHECKED BY	DAP

sheet name

IRRIGATION DETAILS

LI-501