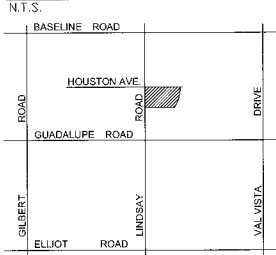


VICINITY MAP



GENERAL NOTES

1. ALL LANDSCAPE WORK TO CONFORM TO THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND DETAILS DATED 1992 AND CURRENT REVISIONS THEREOF, TOGETHER WITH THE TOWN OF GILBERT STANDARDS AND SUPPLEMENT TO M.A.G. AND THE SPECIAL PROVISIONS. IF ANY DISCREPANCIES EXIST BETWEEN THE DRAWINGS AND THE DOCUMENTS LISTED ABOVE, THE DRAWINGS SHALL PREVAIL, OR SHALL BE AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT AND INSPECT THE JOB SITE PRIOR TO BIDDING, TO THOROUGHLY STUDY THESE CONTRACT DOCUMENTS, IN THEIR ENTIRETY, AND TO FULLY AND COMPLETELY ESTIMATE THE EXTENT OF THE PROJECT WORK TO BE COMPLETED. NO ADDITIONAL COMPENSATION WILL BE PERMITTED FOR FAILURE TO COMPLETELY ASCERTAIN ALL ASPECTS OF THE PROJECT.
3. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF EXISTING CONDITIONS WHICH ADVERSELY IMPACT CONTRACTOR'S ABILITY TO COMPLETE IMPROVEMENTS INDICATED ON PLANS.
4. CONTRACTOR SHALL REVIEW AND FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES AND SUBSURFACE SYSTEMS PRIOR TO STARTING ANY EXCAVATIONS OR UNDERGROUND WORK.
5. CONTRACTOR SHALL VERIFY WITH OWNER'S REPRESENTATIVE ALL LANDSCAPE WORK SEQUENCING AND SCHEDULING AND SHALL SUBMIT VERIFICATION THAT ALL PLANT MATERIAL HAS BEEN SECURED AND IS AVAILABLE FOR REVIEW PRIOR TO STARTING ANY WORK.
6. BASE INFORMATION PROVIDED DERIVED FROM TOWN OF GILBERT G.I.S. DATA & AERIAL PHOTOS BOTH PROVIDED BY THE TOWN OF GILBERT.
7. LANDSCAPING SUBGRADE (+/- 10% TOLERANCE) TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR AS FOLLOWS:
 - A. ROCK GROUND COVER AREAS: 2" BELOW FINISH GRADE TO ALLOW FOR INSTALLATION OF 2" MINIMUM DEPTH ROCK GROUND COVER.
 - B. ALL SITE LANDSCAPE AREAS DESIGNATED FOR ROCK GROUND COVER SHALL BE FINISH GRADE PRIOR TO THE START OF ANY LANDSCAPE INSTALLATIONS. TOP OF ROCK GROUND COVER TO BE MIN. 1" BELOW TOP OF ADJACENT PAVEMENT OR CURB SURFACE.
8. CALL BLUE STAKE (602)263-1100 TO LOCATE UNDERGROUND UTILITIES BEFORE STARTING ANY UNDERGROUND WORK.
9. NO PLANT SUBSTITUTIONS, TYPE OR QUANTITY DEVIATIONS FROM THE APPROVED LANDSCAPE PLANNING OR IRRIGATION PLANS WITHOUT PRIOR WRITTEN APPROVAL FROM THE TOWN OF GILBERT.
10. ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO THE ARIZONA NURSERMAN ASSOCIATION STANDARDS.
11. ALL RIGHT-OF-WAY PLANT MATERIAL TO BE IN COMPLIANCE WITH THE CURRENT DEPARTMENT OF WATER RESOURCES LOW WATER USE APPROVED PLANT LIST.
12. PRIOR TO THE START OF ANY LANDSCAPE CONSTRUCTION ACTIVITY, CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT, AT A MINIMUM, A SAMPLE OR MANUFACTURER'S PRODUCT DATA OF THE FOLLOWING ITEMS, FOR REVIEW AND APPROVAL (NOTE: ADDITIONAL SUBMITTALS MAY BE REQUIRED UPON REQUEST BY THE LANDSCAPE ARCHITECT (REFER TO SPECIFICATIONS)):
 - A. LANDSCAPE ITEMS - PLANT MATERIAL, VERIFICATION SOURCE LIST, FERTILIZER AND FERTILIZER TABLET, COMPLETE TREE STAKING MATERIALS INCLUDING STAKES, WIRES, & RUBBER HOSE, BOLLARD SAMPLES WHERE CALLED FOR: PRE-EMERGENT AND ROCK GROUND COVER MATERIAL SAMPLES (MIN. 2 POUNDS EACH TYPE). *ALL LANDSCAPE PLANT MATERIAL SHALL BE REVIEWED AND APPROVED AT THE NURSERY BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE.
 - B. LANDSCAPE IRRIGATION ITEMS - THE FOLLOWING IRRIGATION SUBMITTAL SAMPLES AND/OR MATERIAL PRODUCT DATA SHEETS SHALL BE PROVIDED FOR REVIEW: BACK FLOW PREVENTER & ENCLOSURE, CONTROLLER WITH EXISTING CONDITIONS AND DETERMINE CONDITION ENCLOSURE, CONTROL VALVES, EACH TYPE OF VALVE BOXES (ALL SIZES), ALL PVC PIPE INCLUDING: PVC FLEX HOSE AND 1/4" POLY DISTRIBUTION TUBING, ALL REQUIRED PVC PRIMER AND CEMENT INCLUDING TYPE 795 CEMENT FOR FLEX HOSE, EMITTERS AND/OR HEADS, WIRE CONNECTIONS, WATER SERVICE PRESSURE AND POWER SERVICE VERIFICATION.
13. CONTRACTOR IS REQUIRED TO PROVIDE A MINIMUM OF 72-HOUR PRIOR NOTIFICATION TO SCHEDULE ALL REQUIRED FIELD REVIEWS AND SITE INSPECTIONS.

LANDSCAPE NOTES

1. VERIFY ALL LAYOUT AND GRADING WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
2. LANDSCAPE AREAS ARE DEFINED AS ALL NON-PAVED AREAS SHOWN ON THE PLANS WHICH ARE BOUNDED BY THE FENCE/WALLS OR PROPERTY LINES ADJACENT TO THE ROADWAYS INCLUDING ALL ADJACENT PUBLIC RIGHT-OF-WAY, COMMON OPEN SPACE, TRAILS, AND ANY ADJACENT PROPERTIES OUTSIDE THESE LIMITS WHICH ARE DISTURBED BY ANY CONSTRUCTION ACTIVITY UNDER THIS CONTRACT.
3. ALL EXISTING LANDSCAPE AREAS OUTSIDE THE SITE AREA DEFINED ABOVE WHICH ARE DISTURBED BY ANY ACTIVITY UNDER THIS CONTRACT SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE TOWN OF GILBERT AT CONTRACTOR'S EXPENSE. SEE PROTECTION/RESTORATION NOTES THIS SHEET.
4. THE CONTRACTOR SHALL PROVIDE FLAGGED AND/OR STAKED LAYOUT OF ALL PLANTING LOCATIONS FOR REVIEW AND ADJUSTMENT, IF NECESSARY, BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING IRRIGATION OR PLANT PIT EXCAVATIONS.
5. PLANT QUANTITIES INDICATED ARE FOR GENERAL REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ALL QUANTITIES AND MATERIALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE SYMBOLS SHOWN ON THE PLANS.
6. ALL PLANTING AREAS SHOWN TO RECEIVE ROCK GROUND COVER SHALL RECEIVE A 2" MINIMUM LAYER (EXTER SETTLEMENT) OF ROCK GROUND COVER AND FINISH GRADING, AS DESIGNATED, UNLESS OTHERWISE INDICATED.
7. UNLESS OTHERWISE INDICATED, ROCK GROUND COVER SHALL BE DECOMPOSED GRANITE "A" SCREENED "MADISON GOLD" PROVIDE SAMPLE TO OWNER'S REPRESENTATIVE FOR SELECTION AND APPROVAL PRIOR TO ORDERING.
8. RIP RAP OR OTHER ROCK SURFACING SHALL ALSO BE CONSIDERED ROCK GROUND COVER WHERE CALLED FOR.
9. ALL NON-PAVED SITE AREAS INDICATED OR SHOWN TO RECEIVE INSTALLATION OF ROCK GROUND COVER SHALL RECEIVE A MINIMUM OF TWO APPLICATIONS OF APPROVED PRE-EMERGENT HERBICIDE (SURFACER OR APPROVED EQUAL). APPLICATION SHALL BE APPLIED DIRECTLY TO SOIL SURFACE. SECOND APPLICATION SHALL BE APPLIED TO ROCK GROUND COVER AFTER SETTLEMENT ALL HERBICIDE APPLICATIONS SHALL BE MADE BY A LICENSED APPLICATOR IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. PROVIDE LISTING OF MANUFACTURERS WITH CHEMICAL ANALYSIS AND APPLICATIONS LICENSE FOR SELECTION AND APPROVAL PRIOR TO ORDERING. PROVIDE 48 HOUR NOTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING APPLICATIONS. FIELD VERIFY INSTALLATION LIMITS OF ALL ROCK GROUND COVER AND BOLLARDS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
10. CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THESE PLANS AND ALL OTHER DEVIATIONS WILL REQUIRE REAPPROVAL. LANDSCAPE INSTALLATIONS TO BE APPROVED BY THE TOWN OF GILBERT PARKS AND RECREATION DEPARTMENT.
11. AS APPLICABLE, DESIGN OF WALLS, ENTRY MONUMENT SIGNS, AND RAMADAS AS PRESENTED HEREIN HAVE BEEN REVIEWED AS CONCEPTUAL ONLY AND WILL REQUIRE A SEPARATE REVIEW AND PERMIT FROM THE BUILDING DEPARTMENT. THE DESIGN AND CONSTRUCTION OF WALLS, ENTRY MONUMENT SIGNS, AND RAMADAS BE CONSIDERED FINAL APPROVAL BY THE PLANNING DEPARTMENT IS REQUIRED PRIOR TO THE ISSUING OF PERMITS. PROVIDE PERMIT FOR S&W WALLS, ENTRY MONUMENTS, AND RAMADAS.
12. NO OBJECTS WITHIN THE TOWN OF GILBERT RIGHT TRIANGLES SHALL EXCEED 2 FEET, AND TREES SHALL HAVE A 7 FEET MINIMUM CLEAR CANOPY. ALL TREES, SHRUBS, AND GROUNDCOVERS ARE TO BE KEPT OR EXCEED A.M.P. SPECIFICATIONS.

IRRIGATION NOTES

1. CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS AND COMPLETING THE INSTALLATION OF A FULLY AUTOMATIC AND OPERATIVE IRRIGATION SYSTEM, AS INDICATED ON THE PLANS, PRIOR TO THE START OF ANY PLANTING OPERATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND INFORMATION SHOWN ON PLANS WHICH AFFECT OPERATION OR LAYOUT OF SYSTEM.
4. SYSTEM HAS BEEN DESIGNED WITH A STATIC PRESSURE OF 65 TO 70 PSI. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO ORDERING MATERIAL OR STARTING IRRIGATION AND NOTIFY CONSULTANT OF ANY DIFFERENCE FROM PRESSURE INDICATED. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS.
5. WATER SERVICE CONNECTIONS TO THE WATER LINE, AND WATER METERS SHOWN ON THE PLANS ARE EXISTING. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONNECTIONS DOWNSTREAM OF THE WATER METER AND EXCEED THE SIZE TYPE "C" WATER COPPER PIPE FROM WATER METER THROUGH BACKFLOW PREVENTER AS DETAILED, AND AS APPLICABLE.
6. ALL PIPING AND WRING PLACED UNDER PAVED AREAS SHALL BE INSTALLED IN SEPARATE SLEEVES WHERE SHOWN ON PLANS. SLEEVES INSTALLATIONS SHALL BE COMPLETED PRIOR TO THE START OF ANY PAVING OPERATIONS. WHERE NECESSARY, VERIFY EXISTING SLEEVE LOCATIONS AND DETERMINE CONDITION AND COMPATIBILITY WITH DESIGN PRIOR TO THE START OF ANY OTHER WORK. SLEEVING BENEATH EXISTING PAVEMENTS SHALL BE INSTALLED BY BORING (CUTTING AND CATTRETS) UNDER STREETS UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.
7. ENCLOSURES FOR THE BACKFLOW PREVENTER ASSEMBLY SHALL BE AS DETAILED AND SHALL BE FABRICATED BASED ON DETAILS SHOWN. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO STARTING FABRICATION.
8. THE IRRIGATION SYSTEM LAYOUT SHOWN ON THE DRAWINGS IS GENERALLY SCHEMATIC. ALL VALVES, COMPONENTS, PIPING, FITTINGS AND EQUIPMENT OTHERWISE SHOWN APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING NEW IRRIGATION SYSTEM COMPONENTS AND CONNECTIONS WHICH WILL PROVIDE FULL AUTOMATIC OPERATION AND 100% COMPLETE COVERAGE TO ALL PLANTS AND TURF AREAS AS INDICATED ON THE PLANS WITHOUT RUN-OFF OR OVERTHROW INTO ANY PAVING OPERATIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY FINAL LOCATION, COORDINATE ACCESS AND MAKE ALL NECESSARY CONNECTIONS FOR THE IRRIGATION CONTROLLER POWER SERVICE AT LOCAL PLANTS ON THE PLANS.
10. REFER TO SPECIFICATIONS AND DETAILS FOR INSTALLATIONS PROCEDURES.

LANDSCAPE MATERIALS LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
○	TREES				
○	NEEDLE OLEANDER	STANDARD OLEANDER 'RED'	24" BOX	4	SINGLE STRAIGHT MAIN LEADER 8.0 FT. x 4.0" W. x 1.25" CAL.
★	SHRUBS, GROUND COVERS, AND ACCENTS				
★	AGAVE DESMETTIANA		5 GAL.	9	
★	BOGANVILLEA 'LA JOLLA'		5 GAL.	6	TRAIN TO WALL
⊕	BOGANVILLEA		5 GAL.	5	
⊕	CASALPINA MEXICANA		15 GAL.	5	
⊕	MEXICAN BIRD OF PARADISE		5 GAL.	25	
⊕	CALLANDRA CALIFORNICA	BAJA FARY DUSTER	5 GAL.	25	
⊕	CASSIA PYLLODENDRA	SILVER LEAF CASSIA	5 GAL.	108	
⊕	CHRYSALPINA MEXICANA	DANARITA	5 GAL.	46	
⊕	HESPERALOE PARVIFLORA	RED YUCCA	1 GAL.	78	
⊕	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL.	78	
⊕	LEUCODAPHNOL LAMNANGIANA	TWO BRAVOS SAGE	5 GAL.	38	
⊕	MULHENSBERGIA CAPILLARIS	PINK MUDLY	5 GAL.	18	
⊕	MULHENSBERGIA RIGENS	DEER GRASS	5 GAL.	25	
⊕	NETRUM OLEANDER	'PETITE PINK' OLEANDER	1 GAL.	68	
⊕	ROSMARINUS OFFICINALIS	'MULTI-WINDING CARPET' DWARF ROSEMARY	1 GAL.	71	
⊕	RUELLIA BRITTONIANA 'KATHI'	KATHI RUELLIA	5 GAL.	75	
⊕	RUELLIA PENINSULARIS	DESERT RUELLIA	5 GAL.	4	
⊕	SIMMONDSIA CHINENSIS	YUCCA	15 GAL.	2	
⊕	SOPHORA SCOUNDIFLORA	TEXAS MOUNTAIN LAUREL	1 GAL.	51	
⊕	TETRANEURUS AQUILUS	ANGELITA DAISY	11,185 S.F.		TURF RESTORATION
⊕	TURF-SEED (MUSKY SAHARA)	OVERSEEDED 'MIDIRON' SOG IF PLANTED OUT OF SEASON	100 LIN. FT.		
⊕	BRICK HEADER	AS NOTED ON PLAN	25 LIN. FT.		
⊕	CONCRETE HEADER	AS NOTED ON PLAN	45,329 S.F.		
⊕	RECONSTRUCT GRANITE, INSTALL	2" MIN. DEPTH IN ALL AREAS. SIZE AND COLOR: SAN PEDRO - 3/8" SCREENED 'PINK CORAL'			ALL OTHER LANDSCAPE PLANTING AREAS - 1/2" SCREENED 'MADISON GOLD'
⊕	EXISTING TREE REMAIN	EXISTING TREE TO REMAIN			
⊕	EXISTING TREE TO REMAIN	EXISTING TREE TO REMAIN			
⊕	EXISTING TREE TO REMAIN	EXISTING TREE TO REMAIN			

IRRIGATION MATERIALS LIST

SYMBOL	DESCRIPTION
○	EXISTING WATER METER (SIZE AND LOCATION AS SHOWN ON PLANS)
○	EXISTING BACKFLOW PREVENTER (SEE PLANS FOR LOCATION)
⊕	NEW SCHEDULE 40 PVC SLEEVES (ALL PIPING AND WRING UNDER PAVEMENT TO BE SLEEVED) (SIZE AS NOTED)
⊕	NEW MAINLINE SCHEDULE 40 PVC - 2" AND SMALLER SIZES AS NOTED (PVC TO BE SLEEVED) (SIZE AS NOTED)
⊕	NEW ISOLATION BALL VALVE - 2" AND SMALLER-NIBCO MODEL T-585 (LINE SIZE) (SEE DETAIL)
⊕	NEW EMITTER VALVE MANIFOLD ASSEMBLY INCLUDES: RANIBRED PER ELECTRIC REMOTE CONTROL VALVE WITH LINE SIZE BRASS SEATED BALL VALVE WITH FULL PORT OPENINGS; AS PRODUCE 45 PLASTIC SPRING ELEMENTS WITH 150 MESH SCREEN; AND SENSINER LOW FLOW PRESSURE REGULATORS (FOR FLOWS 1-8 GPM) (PWR-30L) OR METAL FLOW PRESSURE REGULATING VALVE (FOR FLOWS 2-30 GPM) (PWR-30M) - 3/4" PRESET AT 30 PSI (SEE DETAIL).
⊕	NEW REMOTE CONTROL VALVE - (SIZE PER PLAN) RANIBRED PER SERIES ELECTRIC REMOTE CONTROL VALVE WITH LINE SIZE BRASS SEATED BALL VALVE WITH FULL PORT OPENINGS ON INLET.
TURF	NEW LATERAL (SIZE PER SCHEDULE), CLASS 200 PVC PIPE
BOLLARDS	NEW LATERAL (SIZE PER SCHEDULE), CLASS 200 PVC PIPE
TREES	NEW 3/4" DRIP LATERAL, CLASS 200 PVC PIPE (UNLESS OTHERWISE NOTED ON PLANS)
SHRUBS	NEW 1/2" DRIP LATERAL, CLASS 200 PVC PIPE (UNLESS OTHERWISE NOTED ON PLANS)
PART FULL	1/2" DRIP LATERAL (NOT SHOWN), CLASS 3/16" PVC PIPE - ALL SUBSISTANTIAL PIPE SHALL BE 1/2" DRIP LATERAL. PROVIDE AND INSTALL ALL SUBSISTANTIAL PIPE LENGTHS AND FITTINGS AS NECESSARY FROM LATERAL PIPE TO EMITTER INSTALLATION AT EACH PLANT (SEE DETAILS)
PER SCHEDULE	NEW HUBBARD INSTITUTIONAL SERIES - 4" POP UP TURF SPRAY HEADS 8 SERIES - 8" R-9 RADIUS 12 SERIES - 12" R-13 RADIUS
PER EMITTER SCHEDULE	NEW MULTI OUTLET EMITTER - BOWSMITH M2200 SERIES - (1.0 AND 2.0 GPH OUTLETS @ 20 PSI) (TREES) WITH SWIVEL OUTLET 90° ELBOWS FOR EACH DISTRIBUTION TUBE (SEE DETAILS AND SCHEDULE)
PER EMITTER SCHEDULE	NEW SINGLE OUTLET EMITTER - BOWSMITH S2000 SERIES - (0.6 AND 1.0 GPH OUTLETS @ 20 PSI) (SHRUBS) (SEE DETAIL AND SCHEDULE)
⊕	DRIP SYSTEM FLUSH PLUG OUTLET (SEE DETAIL)
⊕	ELECTRIC SOLID STATE CONTROLLER, RANIBRED TIME SENSAR II-SIZE AS NOTED ON PLANS, PROVIDE WITH HEAVY DUTY LIGHTNING/SURGE PROTECTION.
⊕	WRING AND ELECTRICAL CONDUIT (SCHEDULE 80 GRAY) FOR CONTROLLER POWER SERVICE CONNECTION.
⊕	ALL IRRIGATION VALVE BOXES TO BE CARSON/BROOKS AMETEK OR EQUAL BOLT DOWN LID MODELS (EVA COLOR IN GRASS AND GREEN IN TURF AREAS) (SEE DETAILS AND NOTES). PROVIDE STAINLESS STEEL BOLTS.
⊕	CONTROL VALVE KEY CONTROL STATION ASSIGNMENT
⊕	ALL WRING TO BE UL APPROVED #14 MIN. FOR DIRECT BURIAL. SOLID COPPER - REDUCE SIZE AS NECESSARY TO CONDUIT VOLTAGE REQUIRED TO PROVIDE AUTOMATIC OPERATION OF ALL VALVES.
⊕	WHERE PIPING AND WRING INSTALLATIONS ARE TO BE SLEEVED, INSTALL IN SEPARATE SLEEVES.
⊕	CONTRACTOR TO VERIFY A MINIMUM WATER PRESSURE OF 72 P.S.I. AT WATER SOURCE.

PROTECTION / RESTORATION NOTES

1. RESTORATION OF LANDSCAPE AREAS WILL BE BASED ON THE LIMIT OF DISTURBANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LIMITS OF RESTORATION AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE REQUIRED REPAIR WORK AS NOTED AND IN ACCORDANCE WITH M.A.G. SECTION 107.9.
2. RESTORATION SHALL INCLUDE BUT IS NOT LIMITED TO THE COMPLETE RESTORATION OF ALL DISTURBED LANDSCAPE SURFACES, INCLUDING INSTALLATION OF NEW OR REPLACEMENT IRRIGATION SYSTEMS AND PLANTS AS WELL AS ALL FINISH GRADING AND ROCK GROUND COVER TO MATCH ADJACENT UNDISTURBED LANDSCAPE AREAS.
3. LIMIT OF RESTORATION SHALL BE DETERMINED BY THE LIMIT OF DISTURBANCE OR EXTENT OF WORK NECESSARY TO COMPLETE THE REQUIRED RESTORATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY PROTECTIVE DEVICES TO PREVENT OR RESTRICT ENCRUMBMENT OF OPERATIONS OF TRAFFIC FROM ACCESS AND DISTURBANCE OF ANY ADJACENT AREAS NOT SHOWN TO BE DISTURBED AS A RESULT OF WORK UNDER THIS CONTRACT.
4. ANY AND ALL PLANTS, NOT DESIGNATED TO BE REMOVED, WHICH ARE DISTURBED OR DAMAGED AS A RESULT OF WORK UNDER THIS CONTRACT IN NO CASE SHALL BE REPLACED WITH LOWER QUALITY AND OF THE SAME SIZE AND SPECIES AS THE ORIGINAL EXISTING PLANT UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.

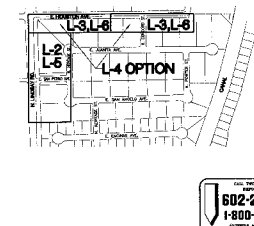
MAINTENANCE

1. CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL INSTALLED PORTION OF LANDSCAPE AREAS INCLUDED IN THE CONTRACT DURING THE PROGRESS OF THE WORK UNTIL SUBSTANTIAL PROJECT COMPLETION AND FOR A MINIMUM PERIOD OF 90 DAYS THEREAFTER. MAINTENANCE SHALL INCLUDE ALL WORK NECESSARY TO KEEP THE PROJECT IN NEAT, CLEAN, WEED FREE CONDITION AND TO ASSURE HEALTHY PLANT GROWTH.
2. CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM AND MAKE ANY NECESSARY REPAIRS, REPLACEMENTS, OR ADJUSTMENTS REGARDLESS OF CAUSE TO ASSURE A COMPLETE AND OPERATIONAL SYSTEM AND COMPLETE 100% UNIFORM HEAD TO HEAD COVERAGE TO THE NEW AND EXISTING PLANTINGS AND LAWN AREAS. PROJECT WILL BE ACCEPTED AND TOWN OF GILBERT MAINTENANCE WILL BEGIN.
3. 1 WEEK PRIOR TO THE END OF THE MAINTENANCE PERIOD, AND ONCE OWNER'S REPRESENTATIVE AGREES ALL LANDSCAPE AREAS ARE GRADED SMOOTH AND WEED FREE, LAWN AREAS AND PLANT MATERIALS ARE IN SATISFACTORY GROWING CONDITION, AND AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL WITH COMPLETE 100% UNIFORM HEAD TO HEAD COVERAGE TO ALL INSTALLED PORTION OF LANDSCAPE PLANTINGS AND LAWN AREAS, PROJECT WILL BE ACCEPTED AND TOWN OF GILBERT MAINTENANCE WILL BEGIN.
4. CONTRACTOR WILL GUARANTEE PLANT MATERIALS AS FOLLOWS: 1 AND 5 GAL. PLANTS - 90 DAYS. TREES - 1 YEAR FROM DATE OF SUBSTANTIAL COMPLETION. AT NO ADDITIONAL COST TO THE OWNER, REPLACE IN KIND AND SIZE PLANT MATERIALS NOT SURVIVING OR IN POOR CONDITION.
5. CONTRACTOR WILL GUARANTEE INSTALLED PORTION OF IRRIGATION SYSTEM FOR 1 YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
6. AFTER SATISFACTORY COMPLETION OF CONTRACTOR MAINTENANCE PERIOD, THE TOWN OF GILBERT WILL HAVE THE RESPONSIBILITY FOR MAINTAINING THE LANDSCAPING IN ACCORDANCE WITH APPROVED PLANS.

DRAWING SHEET INDEX

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KEYMAP



NO.	REVISIONS	DATE	DESCRIPTION

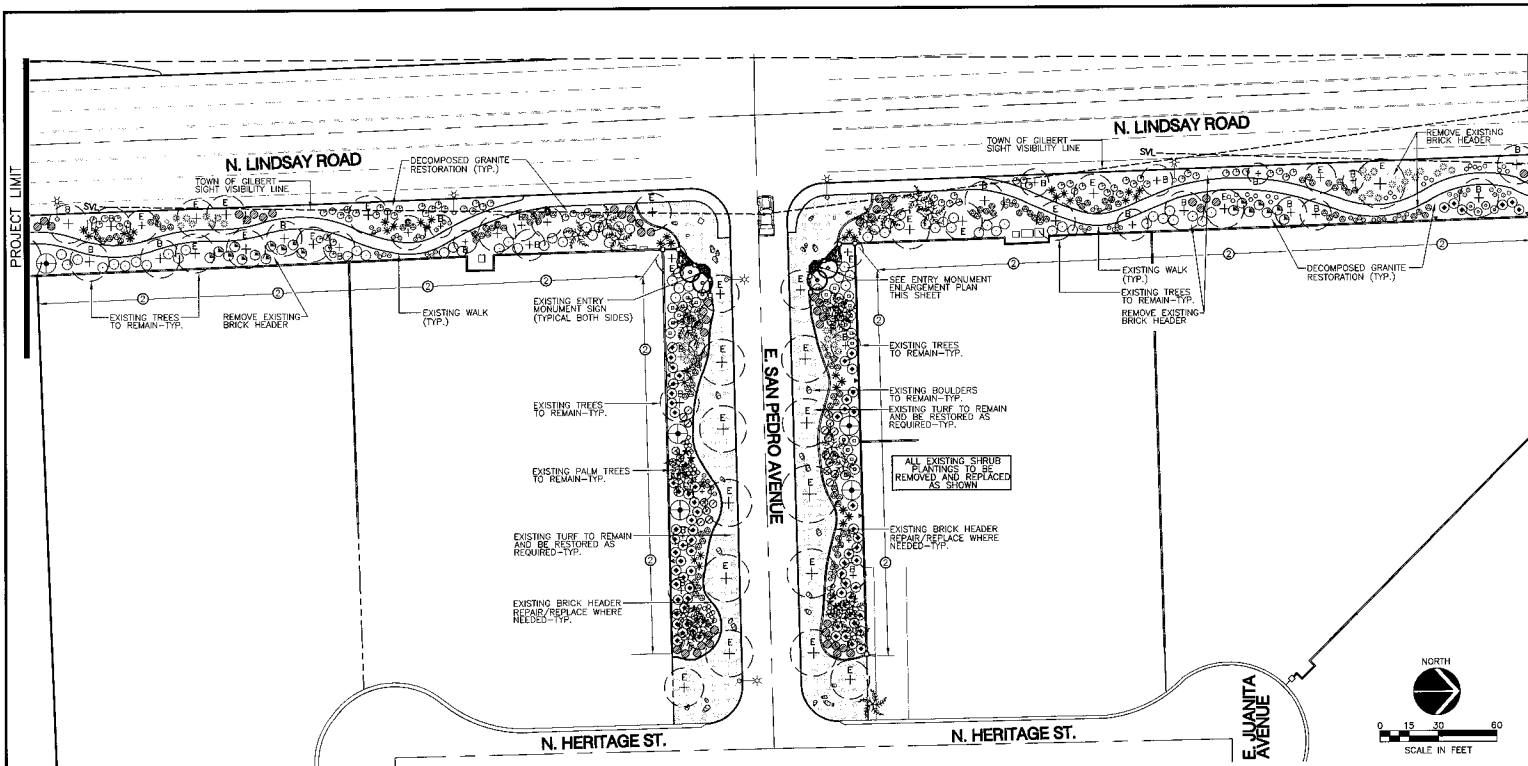


McCloskey + Peltz, Inc.
LANDSCAPE ARCHITECTS
Tempe, Arizona 85288
Phone: (480) 838-0777

General Notes Sheet
Parkway Improvement District 07-7
CIRCLE G RANCHES VI
PREPARED FOR: Town of Gilbert

DESIGNED BY: MP1
DRAWN BY: BCD
CHECKED BY: DGM
PROJECT NO: 06422
DATE: 1/2008

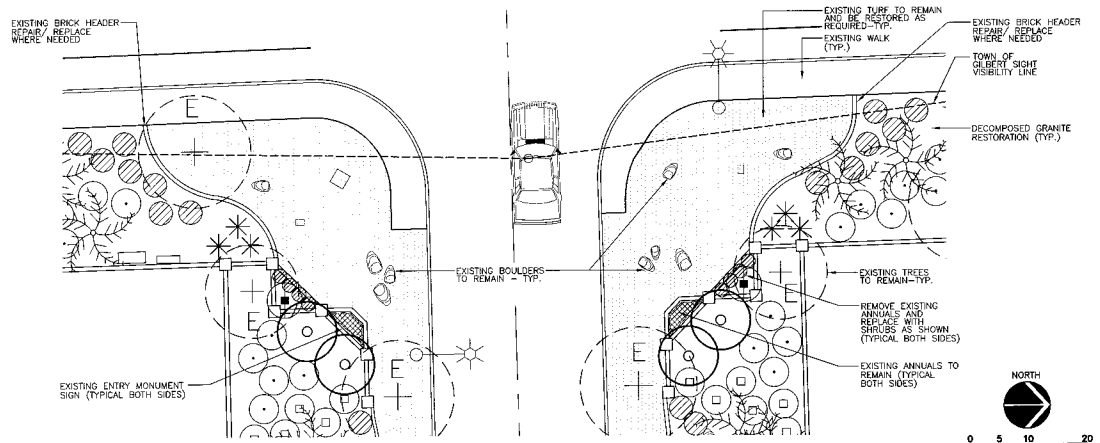
DRAWING NO.
L-1
SHEET 1 OF 13



LANDSCAPE MATERIALS LIST

SYM.	BOTANICAL NAME COMMON NAME	SIZE
○	TREES	
○	NERIUM OLEANDER	24" BOX
○	STANDARD OLEANDER 'RED'	
SHRUBS, GROUND COVERS, AND ACCENTS		
*	AGAVE DESMETIANA	5 GAL.
▲	AGAVE	
▲	BOLGANVILLEA 'LA JOLLA'	5 GAL.
▲	BOLGANVILLEA	
+	CAESALPINIA MEXICANA	15 GAL.
+	MEXICAN BIRD OF PARADISE	
+	CALLIANDRA CALIFORNICA	5 GAL.
+	BALK FAIRY DUSTER	
⊙	CASSIA PHYLLODENA	5 GAL.
⊙	SILVER LEAF CASSIA	
⊙	CHRYSACTINIA MEXICANA	1 GAL.
⊙	DAMIANITA	
*	HESPERALOE PARVIFLORA	5 GAL.
*	RED YUCCA	
○	LANTANA 'NEW GOLD'	1 GAL.
○	NEW GOLD LANTANA	
○	LEUCOPHYLLUM LANGMANIAE	5 GAL.
○	'RIO BRAVO' SAGE	
○	MUHLENBERGIA CAPILLARIS	5 GAL.
○	PINK MUHLY	
○	MUHLENBERGIA RICENS	5 GAL.
○	DEER GRASS	
○	NERIUM OLEANDER	5 GAL.
○	'PETITE PINK' OLEANDER	1 GAL.
○	ROSMARINUS OFFICINALIS	5 GAL.
○	'HUNTINGTON CARPET'	
○	DWARF ROSEMARY	
○	RUELLIA BRITTONIANA 'KATIE'	1 GAL.
○	KATIE RUELLIA	
○	RUELLIA PENINSULARIS	5 GAL.
○	DESERT RUELLIA	
○	SMANDONIA CHINENSIS	5 GAL.
○	JOJOBA	
○	SOPHORA SECUNDFLORA	15 GAL.
○	TEXAS MOUNTAIN LAUREL	
○	TETRANEURIS ACALUIS	1 GAL.
○	ANGELITA DAISY	
■	TURF-SEED (NUMEX SAHARA)	
■	OVERSEEDED 'MIDWAY' SOG IF PLANTED OUT OF SEASON	
—	BRICK HEADER - AS NOTED ON PLAN	
—	CONCRETE HEADER - AS NOTED ON PLAN	
ROCK/GROUND COVER		
DECOMPOSED GRANITE, INSTALL 2" MIN. DEPTH IN ALL LANDSCAPE PLANTING AREAS.		
SAN PEDRO - 3/8" SCREENED 'PINK CORAL'		
ALL OTHER LANDSCAPE PLANTING AREAS - 1/2" SCREENED 'MADISON GOLD'		
EXISTING TREE LEGEND		
○	EXISTING TREE TO REMAIN	
○	A=ASH TREE	
○	S=SPRUE TREE	
○	E=ELM TREE	
○	EXISTING PALM TREE TO REMAIN	

MATCHLINE A SEE DRAWING L-3



ENTRY MONUMENT ENLARGEMENT PLAN
1"=10'-0"

NO.	DATE	DESCRIPTION



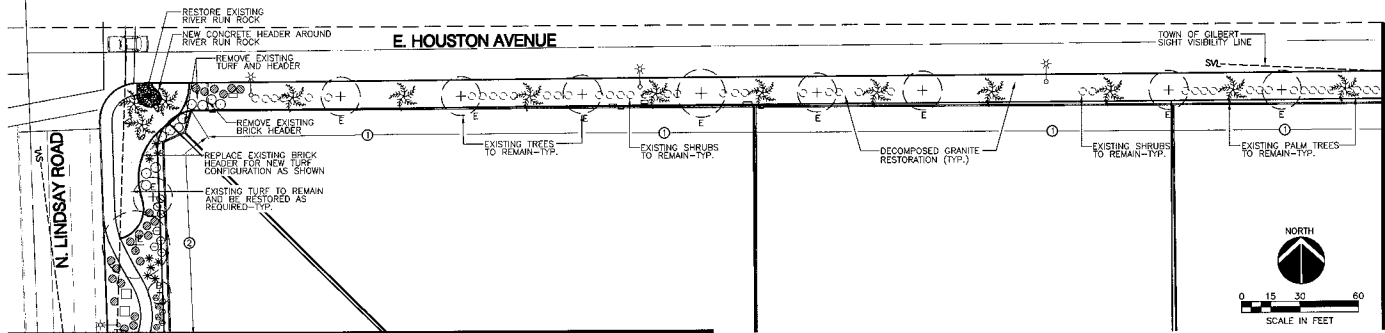
McCloskey + Peltz, Inc.
LANDSCAPE ARCHITECTS
One West Blvd. Floor 110
Tempe, Arizona 85284
Phone: (480) 838-8777 Fax: (480) 831-1714

Landscape Planning Plan
Parkway Improvement District 07-7
CIRCLE G RANCHES VI
PREPARED FOR: Town of Gilbert

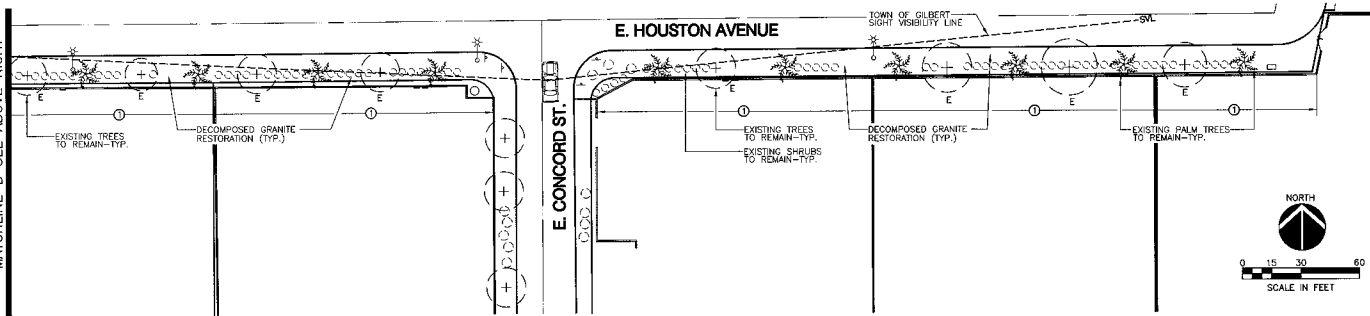
DESIGNED BY: **MP1**
DRAWN BY: **BCD**
CHECKED BY: **DCM**
PROJECT NO: **06422**
DATE: **1/2008**

DRAWING NO.
L-2
SHEET 2 OF 13





MATCHLINE A SEE DRAWING L-2



MATCHLINE B SEE ABOVE RIGHT

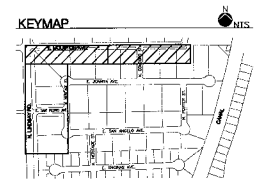
LANDSCAPE MATERIALS LIST

SYM.	BOTANICAL NAME COMMON NAME	SIZE
○	TREES	
○	NERIUM OLEANDER	24" BOX
○	STANDARD OLEANDER 'RED'	
* SHRUBS, GROUND COVERS, AND ACCENTS		
★	AGAVE DESMETTIANA	5 GAL.
▲	BOUGAINVILLEA 'LA JOLLA'	5 GAL.
▲	BOUGAINVILLEA	
⊕	CAESALPINIA MEXICANA	15 GAL.
⊕	MEXICAN BIRD OF PARADISE	
⊕	CALLIANDRA CALIFORNICA	5 GAL.
⊕	BAJA FAIRY DUSTER	
⊕	CASSIA PHYLLODENIA	5 GAL.
⊕	SILVER LEAF CASSIA	
⊕	CHRYSACTINIA MEXICANA	1 GAL.
⊕	DAMBANTA	
★	HESPERALOE PARVIFLORA	5 GAL.
★	RED YUCCA	
⊕	LANTANA 'NEW GOLD'	1 GAL.
⊕	NEW GOLD LANTANA	
⊕	LEUCOPHYLLUM LANGMANIAE	5 GAL.
⊕	'RIO BRAVO' SAGE	
⊕	MUHLENBERGIA CAPILLARIS	5 GAL.
⊕	PINK MILLY	
⊕	MUHLENBERGIA RIGENS	5 GAL.
⊕	DEER GRASS	
⊕	NERIUM OLEANDER	5 GAL.
⊕	'PETITE PINK' OLEANDER	
⊕	ROSMARINUS OFFICINALIS	1 GAL.
⊕	'HUNTINGTON CARPET'	
⊕	'DWARF' ROSEMARY	
⊕	RUPELLIA BRITTONIANA 'KATIE'	1 GAL.
⊕	KATIE RUPELLIA	
⊕	RUPELLIA PENINSULARIS	5 GAL.
⊕	DESERT RUPELLIA	
⊕	SIMMONDSIA CHINENSIS	5 GAL.
⊕	VOJOBA	
⊕	SOPHORA SECUNDFLORA	15 GAL.
○	TEXAS MOUNTAIN LAUREL	
○	TETRANURIS AGAULIS	1 GAL.
○	ANGELITA DAISY	
■	TURF-SEED (NUMEX SAHARA)	
■	OVERSEEDED 'MIDWON' SOD IF PLANTED OUT OF SEASON	
—	BRICK HEADER - AS NOTED ON PLAN	
—	CONCRETE HEADER - AS NOTED ON PLAN	
ROCK GROUND COVER		
DECOMPOSED GRANITE, INSTALL 2" MIN. DEPTH IN ALL LANDSCAPE PLANTING AREAS.		
SAN PEDRO - 3/8" SCREENED 'PINK CORAL'		
ALL OTHER LANDSCAPE PLANTING AREAS - 1/2" SCREENED 'MADISON GOLD'		
EXISTING TREE LEGEND		
⊕	EXISTING TREE TO REMAIN	
⊕	ASH TREE	
⊕	B-DOTTED TREE	
⊕	E=ELM TREE	
⊕	EXISTING PALM TREE TO REMAIN	

NO.	DATE	DESCRIPTION



McCloskey • Peltz, Inc.
 LANDSCAPE ARCHITECTS
 One West Elm Street, Suite 110
 Tempe, Arizona 85284
 Phone: (480) 838-8777 Fax: (480) 831-7174

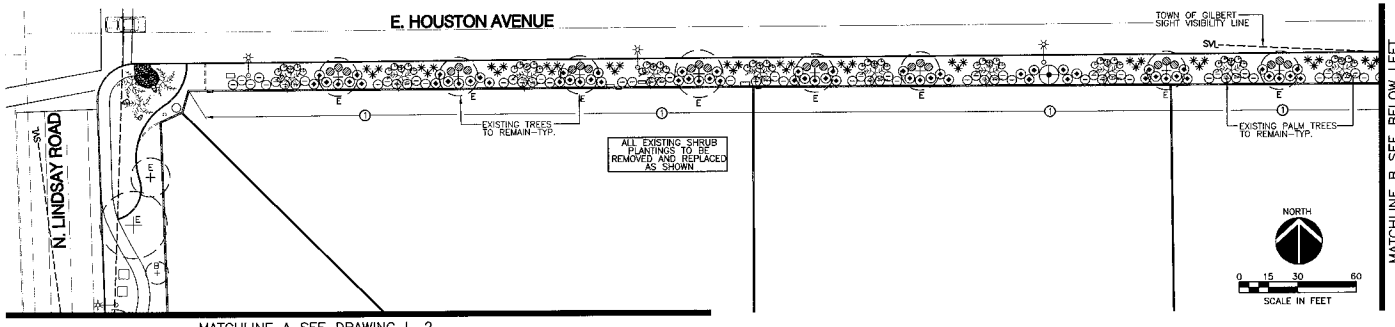


Landscape Planting Plan
 Parkway Improvement District 07-7
CIRCLE G RANCHES VI
 PREPARED FOR: Town of Gilbert

DESIGNED BY: MPH
DRAWN BY: BCD
CHECKED BY: DCM
PROJECT NO: 08422
DATE: 1/2008

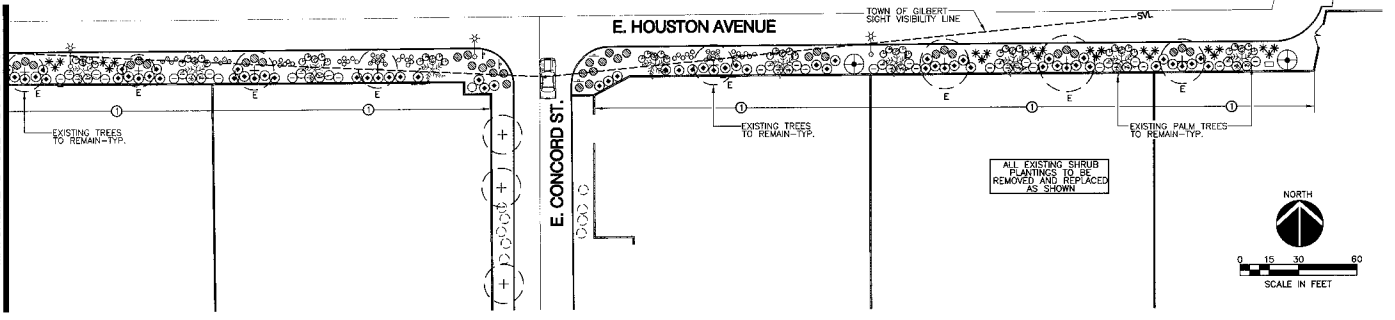
CALL THE PLANNING DEPT.
602-263-1100
1-800-STRAHE-IT
DESIGN • PLANNING • CONSTRUCTION

DRAWING NO.
L-3
 SHEET 3 OF 13



MATCHLINE A SEE DRAWING L-2

LANDSCAPE PLANTING PLAN OPTION FOR E. HOUSTON AVENUE ONLY



LANDSCAPE PLANTING PLAN OPTION FOR E. HOUSTON AVENUE ONLY

LANDSCAPE MATERIALS LIST

SYM	BOTANICAL NAME COMMON NAME	SIZE
○	TREES	
○	NERIUM OLEANDER STANDARD OLEANDER 'RED'	24" BOX
SHRUBS, GROUND COVERS, AND ACCENTS		
*	AGAVE DESMETIANA AGAVE	5 GAL.
▲	BOUGAINVILLEA 'LA JOLLA' BOUGAINVILLEA	5 GAL.
⊕	CAESALPHIA MEXICANA MEXICAN BIRD OF PARADISE	15 GAL.
⊙	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	5 GAL.
⊙	CASSIA PHYLLODENIA SILVER LEAF CASSIA	5 GAL.
⊙	CHRYSACTINIA MEXICANA DAMIANITA	1 GAL.
*	HESPERALOE PARVIFLORA RED YUCCA	5 GAL.
⊙	LANTANA 'NEW GOLD' NEW GOLD LANTANA	1 GAL.
⊙	LEUCOPHYLLUM LANGMANIAE 'RIO BRAVO' SAGE	5 GAL.
⊙	MUHLENBERGIA CAPILLARIS PINK MUHLY	5 GAL.
⊙	MUHLENBERGIA RIGENS DEER GRASS	5 GAL.
⊙	NERIUM OLEANDER 'PETITE PINK' OLEANDER	5 GAL.
⊙	ROSMARINUS OFFICINALIS 'HUNTINGTON CARPET' DWARF ROSEMARY	1 GAL.
⊙	RUPELLIA BRITTONIANA 'KATIE' KATIE RUPELLIA	1 GAL.
⊙	RUPELLIA PENINSULARIS DESERT RUPELLIA	5 GAL.
⊙	SIMMONDSIA CHINENSIS IOJOBA	5 GAL.
⊙	SOPHORA SECUNDFLORA TEXAS MOUNTAIN LAUREL	15 GAL.
⊙	TETRANEURIS ACAULIS ANGELITA DAISY	1 GAL.

- TURF-SEED (NUMEX SAHARA)
COVERSEED 'MIDWAY' SOO IF
PLANTED OUT OF SEASON
- BRICK HEADER - AS NOTED ON PLAN
- CONCRETE HEADER - AS NOTED ON PLAN

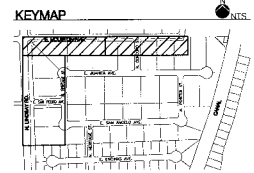
- ROCK/GROUND COVER**
- DECOMPOSED GRANITE, INSTALL
2" MIN. DEPTH IN ALL
LANDSCAPE PLANTING AREAS.
 - SAN PEDRO- 3/8" SCREENED 'PINK CORAL'
 - ALL OTHER LANDSCAPE PLANTING AREAS-
1/2" SCREENED 'MADISON GOLD'
- EXISTING TREE LEGEND**
- EXISTING TREE TO REMAIN
 - ⊕ ASH TREE
 - ⊙ SOTOL TREE
 - ⊙ ELM TREE
 - ⊙ EXISTING PALM TREE TO REMAIN

NO.	DATE	DESCRIPTION



McCloskey + Peltz, Inc.
LANDSCAPE ARCHITECTS
One West Blvd. 8000 S. 110th Ave. Suite 110
Phoenix, Arizona 85048
Phone: (602) 344-8777 Fax: (602) 344-1774

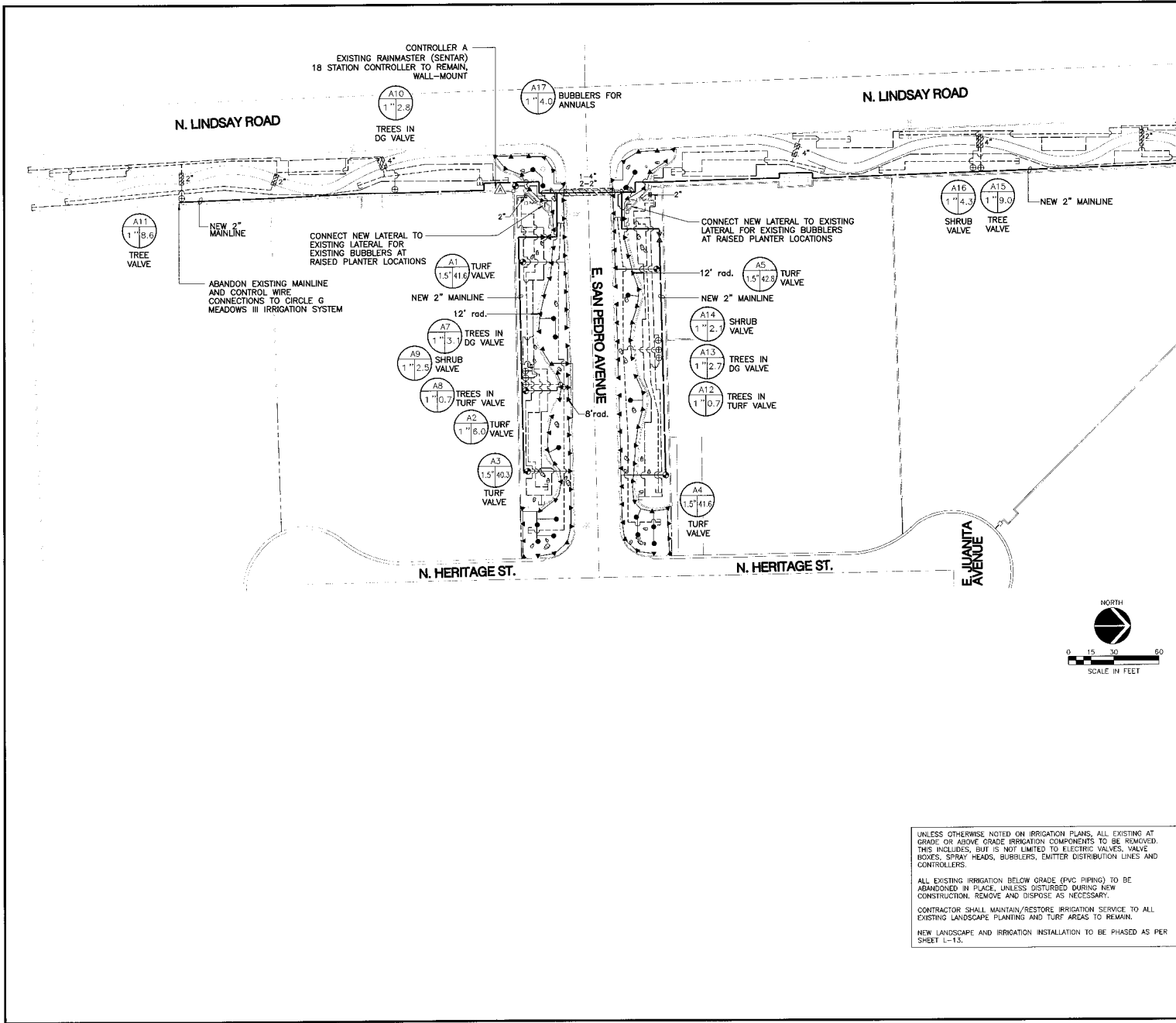
Landscape Planting Plan Option
Parkway Improvement District 07-7
CIRCLE G RANCHES VI
PREPARED FOR: Town of Gilbert



DESIGNED BY: MPI
DRAWN BY: BCD
CHECKED BY: DCM
PROJECT NO: 06422
DATE: 1/2008

CALL FOR PRICING, PLAN
REVISIONS, ETC.
602-263-1100
1-800-STRAE-IT
MEMBER: NATIONAL ASSOCIATION OF ARCHITECTS

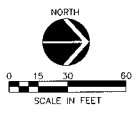
DRAWING NO.
L-4
SHEET 4 OF 13



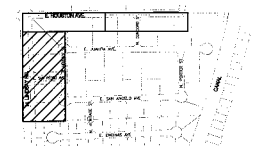
IRRIGATION MATERIALS LEGEND

SYMBOL	DESCRIPTION
⊕	EXISTING WATER METER (SIZE AND LOCATION AS SHOWN ON PLANS)
⊖	EXISTING BACKFLOW PREVENTER (SEE PLANS FOR LOCATION)
⊗	NEW SCHEDULE 40 PVC SLEEVE (ALL PIPING AND WIRING UNDER PAVEMENT TO BE SLEEVED) (SIZE AS NOTED)
—	NEW MAINLINE SCHEDULE 40 PVC - 2" AND SMALLER (SIZE AS NOTED)
⊕	NEW ISOLATION BALL VALVE - 2" AND SMALLER - NIROO MODEL I-585 (LINE SIZE) (SEE DETAIL)
⊕	NEW EMITTER VALVE MANIFOLD ASSEMBLY INCLUDES: RAINBIRD PEB ELECTRIC REMOTE CONTROL VALVE WITH LINE SIZE BRASS RESILIENT SEATED BALL VALVE WITH FULL PORT OPENINGS; 40 POUNDS PER SQUARE INCH CLEAN FETER WITH 150 MESH SCREEN; AND SEMI-RING LOW FLOW PRESSURE REDUCING VALVE (FOR FLOWS 1-5 GPM) (P/R - 50 PSI) OR DOWN FLOW PRESSURE REDUCING VALVE (FOR FLOWS 2-20 GPM) (P/R - 50 PSI) - 3/4" FRICKET AT 30 PSI (SEE DETAIL)
⊕	NEW REMOTE CONTROL VALVE - (SIZE PER PLAN) RAINBIRD PEB SERIES ELECTRIC REMOTE CONTROL VALVE WITH LINE SIZE BRASS RESILIENT SEATED BALL VALVE WITH FULL PORT OPENINGS ON INLET
—	NEW LATERAL (SIZE PER SCHEDULE), CLASS 200 PVC PIPE
—	NEW 3/4" DRIP LATERAL, CLASS 200 PVC PIPE (UNLESS OTHERWISE NOTED ON PLANS)
—	NEW 3/4" DRIP LATERAL, CLASS 200 PVC PIPE (UNLESS OTHERWISE NOTED ON PLANS)
—	1/2" DRIP SUBLATERAL (NOT SHOWN), CLASS 315 PVC PIPE - ALL SUBLATERAL PIPE SHALL BE PVC CLASS 315 - PROVIDE AND INSTALL ALL SUBLATERAL PIPE JOINTS AND FITTINGS AS NECESSARY FROM LATERAL PIPE (SEE DETAILS) EMITTER INSTALLATION AT EACH PLANT (SEE DETAILS)
▲	HUNTER INSTITUTIONAL SERIES - 4" POP UP TURF SPRAY HEADS 8 SERIES - 8"-9" RADIUS 12 SERIES - 12"-13" RADIUS
PER EMITTER SCHEDULE	NEW MULTI OUTLET EMITTER - BOWSMITH M200 SERIES - 11.0 AND 2.0 GPM OUTLETS @ 30 PSI (TREES) WITH SWIVEL OUTLET 90° ELBOWS FOR EACH DISTRIBUTION TUBE (SEE DETAILS AND SCHEDULE)
PER EMITTER SCHEDULE	NEW SINGLE OUTLET EMITTER - BOWSMITH S200 SERIES - 0.5 AND 1.0 GPM OUTLETS @ 20 PSI (SHRUBS) (SEE DETAIL AND SCHEDULE)
—	DRIP SYSTEM FLUSH PLUG OUTLET (SEE DETAIL)
⚡	ELECTRIC SOLID STATE CONTROLLER, RAINMASTER PEB SERIES (SEE AS NOTED ON PLANS) PROVIDE WITH HEAVY DUTY LIGHTNING/SURGE PROTECTION
—	WIRING AND ELECTRICAL CONDUIT (SCHEDULE 80, GRAY) FOR CONTROLLER POWER SERVICE CONNECTION
⊕	ALL IRRIGATION VALVE BOXES TO BE CARSON/BROOKS AMETER OR EQUAL BOLT DOWN UB MODELS (TAN COLOR IN GRANITE AREAS, GREEN IN TURF AREAS) (SEE DETAILS AND NOTES), PROVIDE STAINLESS STEEL BOLTS.
⊕	CONTROL VALVE KEY CONTROLLER STATION ASSIGNMENT
⊕	SIZE
—	ALL WIRING TO BE UL APPROVED #14 MIN FOR DIRECT BURIAL, SOLID COPPER - INCREASE SIZE AS NECESSARY TO CONDUCT VOLTAGE REQUIRED TO PROVIDE AUTOMATIC OPERATION OF ALL VALVES.
—	WIRETE SPONG AND WIRING INSTALLATIONS ARE TO BE SLEEVED, INSTALL IN SEPARATE SLEEVES.
—	CONTRACTOR TO VERIFY A MINIMUM WATER PRESSURE OF 72 P.S.I. AT WATER SOURCE.

MATCHLINE A SEE DRAWING L-6



KEYMAP



UNLESS OTHERWISE NOTED ON IRRIGATION PLANS, ALL EXISTING AT GRADE OR ABOVE GRADE IRRIGATION COMPONENTS TO BE REMOVED. THIS INCLUDES, BUT IS NOT LIMITED TO, ELECTRIC VALVES, VALVE BOXES, SPRAY HEADS, BUBBLERS, EMITTER DISTRIBUTION LINES AND CONTROLLERS.

ALL EXISTING IRRIGATION BELOW GRADE (PVC PIPING) TO BE ABANDONED IN PLACE, UNLESS DISTURBED DURING NEW CONSTRUCTION, REMOVE AND DISPOSE AS NECESSARY.

CONTRACTOR SHALL MAINTAIN/RESTORE IRRIGATION SERVICE TO ALL EXISTING LANDSCAPE PLANTING AND TURF AREAS TO REMAIN.

NEW LANDSCAPE AND IRRIGATION INSTALLATION TO BE PHASED AS PER SHEET L-13.

REVISIONS	NO.	DATE	DESCRIPTION



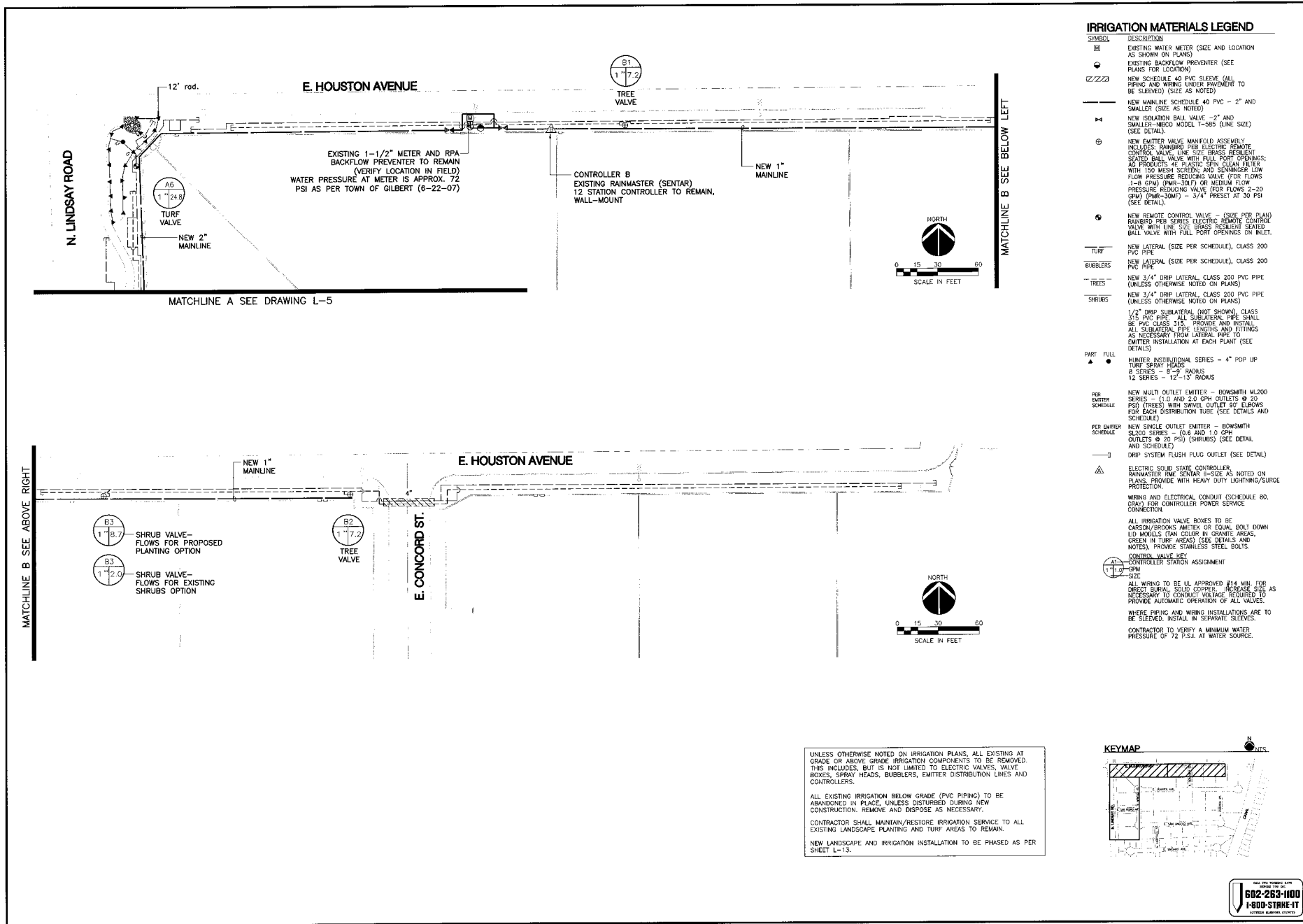
McCloskey + Peltz, Inc.
 LANDSCAPE ARCHITECTS
 10000 E. South Ave., Suite 110
 Denver, CO 80231-3777
 Phone: (303) 755-9777
 Fax: (303) 755-1774

Irrigation Plan
 Parkway Improvement District 07-7
CIRCLE G RANCHES VI
 PREPARED FOR: Town of Gilbert

DESIGNED BY: MPI
DRAWN BY: BCD
CHECKED BY: DCM
PROJECT NO: 06422
DATE: 1/2008

DRAWING NO.
L-5
 SHEET 5 OF 13





IRRIGATION MATERIALS LEGEND

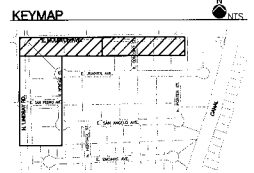
SYMBOL	DESCRIPTION
(M)	EXISTING WATER METER (SIZE AND LOCATION AS SHOWN ON PLANS)
(B)	EXISTING BACKFLOW PREVENTER (SEE PLANS FOR LOCATION)
(Z/Z/Z)	NEW SCHEDULE 40 PVC SLEEVE (ALL PIPING AND WIRING UNDER PAVEMENT TO BE SLEEVED) (SIZE AS NOTED)
(—)	NEW MAINLINE SCHEDULE 40 PVC - 2" AND SMALLER (SIZE AS NOTED)
(I)	NEW ISOLATION BALL VALVE - 2" AND SMALLER - NIBCO MODEL T-585 (LINE SIZE) (SEE DETAIL)
(E)	NEW EMITTER VALVE MANIFOLD ASSEMBLY INCLUDES: RAINBIRD PER SERIES ELECTRIC REMOTE CONTROL VALVE, LINE SIZE BRASS RESILIENT SEATED BALL VALVE WITH FULL PORT OPENINGS; 40' PROUDS 44 PLASTIC SPIN CLEAN FILTER WITH 150 MESH SCREEN; AND SEMINGER LOW FLOW PRESSURE REDUCING VALVE (FOR FLOWS 1-8 GPM) (PVC-SOFT) OR MEDICAL FLOW PRESSURE REDUCING VALVE (FOR FLOWS 2-20 GPM) (CNR-JOINT) - 3/4" PRESET AT 30 PSI (SEE DETAIL)
(R)	NEW REMOTE CONTROL VALVE - (SIZE PER PLAN) RAINBIRD PER SERIES ELECTRIC REMOTE CONTROL VALVE WITH LINE SIZE BRASS RESILIENT SEATED BALL VALVE WITH FULL PORT OPENINGS ON INLET.
(L)	NEW LATERAL (SIZE PER SCHEDULE), CLASS 200 PVC PIPE
(BUB)	NEW LATERAL (SIZE PER SCHEDULE), CLASS 200 PVC PIPE
(T)	NEW 3/4" DRIP LATERAL, CLASS 200 PVC PIPE (UNLESS OTHERWISE NOTED ON PLANS)
(S)	NEW 3/4" DRIP LATERAL, CLASS 200 PVC PIPE (UNLESS OTHERWISE NOTED ON PLANS)
(S)	1/2" DRIP SUB-LATERAL (NOT SHOWN), CLASS 200 PVC PIPE. ALL SUB-LATERAL PIPES SHALL BE PVC CLASS 315. PROVIDE AND INSTALL ALL SUB-LATERAL PIPE LENGTHS AND FITTINGS AS NECESSARY FROM LATERAL PIPE TO EMITTER INSTALLATION AT EACH PLANT (SEE DETAILS)
(P)	HUNTER INSTITUTIONAL SERIES - 4" POP UP TURF SPIN HEADS: P SERIES - 8"-9" RADIUS T2 SERIES - 12"-13" RADIUS
(M)	NEW MULTI OUTLET EMITTER - BOWSMITH M200 SERIES - 11.0 AND 2.0 GPM OUTLETS @ 20 PSI (TREES) WITH SWIVEL OUTLET 90° ELBOWS FOR EACH DISTRIBUTION TUBE (SEE DETAILS AND SCHEDULE)
(M)	NEW SINGLE OUTLET EMITTER - BOWSMITH SLU40 SERIES - (0.6 AND 1.0 GPM OUTLETS @ 20 PSI) (SHRUBS) (SEE DETAIL AND SCHEDULE)
(P)	DRIP SYSTEM FLUSH PLUG OUTLET (SEE DETAIL)
(E)	ELECTRIC SOLID STATE CONTROLLER, RAINMASTER PER SENTAR 12-50X AS NOTED ON PLANS. PROVIDE WITH HEAVY DUTY LIGHTNING/SURGE PROTECTION
(W)	WIRING AND ELECTRICAL CONDUIT (SCHEDULE 80, 66X) FOR CONTROLLER POWER SERVICE CONNECTION
(V)	ALL IRRIGATION VALVE BOXES TO BE CARSON/BROOKS AMITEX OR EQUAL BOLT DOWN LID MODELS (TAN COLOR IN GRANITE GRASS, GREEN IN TURF AREAS) (SEE DETAILS AND NOTES). PROVIDE STAINLESS STEEL BOLTS.
(A)	CONTROLLER STATION ASSIGNMENT
(A)	ALL WIRING TO BE UL APPROVED #14 MIN. FOR DIRECT BURIAL, SOLID COPPER. INCREASE SIZE AS NECESSARY TO CONDUIT VOLTAGE REQUIRED TO PROVIDE AUTOMATIC OPERATION OF ALL VALVES.
(A)	WHERE PIPING AND WIRING INSTALLATIONS ARE TO BE SLEEVED, INSTALL IN SEPARATE SLEEVES.
(A)	CONTRACTOR TO VERIFY A MINIMUM WATER PRESSURE OF 72 P.S.I. AT WATER SOURCE.

UNLESS OTHERWISE NOTED ON IRRIGATION PLANS, ALL EXISTING AT GRADE OR ABOVE GRADE IRRIGATION COMPONENTS TO BE REMOVED. THIS INCLUDES, BUT IS NOT LIMITED TO, ELECTRIC VALVES, VALVE BOXES, SPRAY HEADS, BUBBLERS, EMITTER DISTRIBUTION LINES AND CONTROLLERS.

ALL EXISTING IRRIGATION BELOW GRADE (PVC PIPING) TO BE ABANDONED IN PLACE, UNLESS DISTURBED DURING NEW CONSTRUCTION. REMOVE AND DISPOSE AS NECESSARY.

CONTRACTOR SHALL MAINTAIN/RESTORE IRRIGATION SERVICE TO ALL EXISTING LANDSCAPE PLANTING AND TURF AREAS TO REMAIN.

NEW LANDSCAPE AND IRRIGATION INSTALLATION TO BE PHASED AS PER SHEET L-13.



NO.	DATE	DESCRIPTION



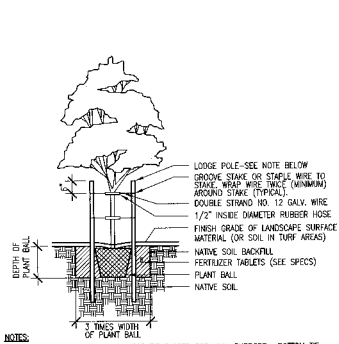
McCloskey • Pelitz, Inc.
 LANDSCAPE ARCHITECTS
 One West Ebor Road Suite 110
 Tempe, Arizona 85284
 Phone: (602) 388-8777
 Fax: (602) 311-1774

Irrigation Plan
 Parkway Improvement District 07-7
CIRCLE GRANCHES VI
 PREPARED FOR: Town of Gilbert

DESIGNED BY: MPJ
DRAWN BY: BCD
CHECKED BY: DCM
PROJECT NO: 06422
DATE: 1/2008

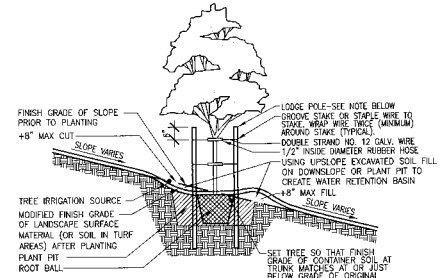
DRAWING NO.
L-6
 SHEET 6 OF 13





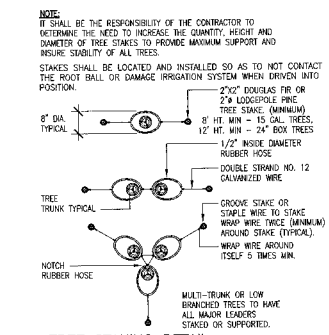
- NOTES:**
- HEIGHT OF STAKE VARIES. TOP TO BE PLACED FOR MAX. SUPPORT. BOTTOM TO BE PLACED HALFWAY BETWEEN TOP TIE AND GRADE. SEE TREE STAKING DETAIL.
 - ONLY STAKE TREES THAT HAVE PREVIOUSLY BEEN STAKED IN THE NURSERY.
 - STAKES SHALL BE LOCATED AND INSTALLED SO AS TO NOT CONTACT THE ROOT BALL OR DAMAGE IRRIGATION SYSTEM WHEN DRIVEN INTO POSITION.

1 TREE PLANTING
N.T.S.

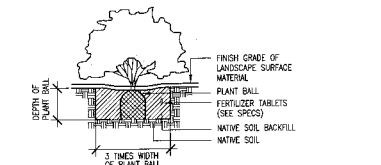


- NOTES:**
- PLANTING AND STAKING SHALL BE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS.
 - ALWAYS SET TREE TO MINIMIZE UPSLOPE CUT AND DOWNSLOPE FILL.
 - ROUND ALL CHANGES BETWEEN SURFACE SLOPE TRANSITIONS.
 - LOCATE IRRIGATION SOURCE ON UPSLOPE SIDE OF PLANT PIT.

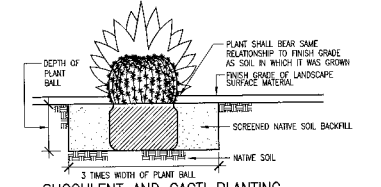
2 TREE PLANTING ON SLOPE
N.T.S.



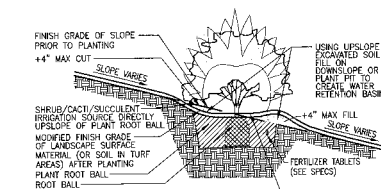
3 TREE STAKING DETAIL
N.T.S.



4 SHRUB PLANTING
N.T.S.



5 SUCCULENT AND CACTI PLANTING
N.T.S.

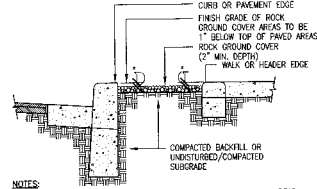


- NOTES:**
- PLANTING AND STAKING SHALL BE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS.
 - ALWAYS SET SHRUB/CACTI/SUCCULENT TO MINIMIZE UPSLOPE CUT AND DOWNSLOPE FILL.
 - ROUND ALL CHANGES BETWEEN SURFACE SLOPE TRANSITIONS.
 - LOCATE IRRIGATION SOURCE ON UPSLOPE SIDE OF PLANT ROOT BALL.

6 SHRUB/CACTI/SUCCULENT PLANTING ON SLOPE
N.T.S.

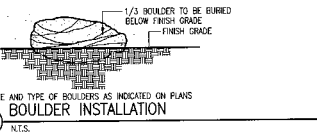
IF IMPERVIOUS SUBSURFACE CALICHE, ROCK OR HARDPAN EXISTS BENEATH EXCAVATED PLANT PIT, CONTRACTOR SHALL COMPLETE NECESSARY REMOVAL OR PENETRATION OF IMPERVIOUS MATERIAL TO PROVIDE NECESSARY PLANT PIT DRAINAGE AT A MINIMUM RATE OF 1 INCH PER HOUR. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACCURATE PLANT PIT DRAINAGE PRIOR TO PLANT INSTALLATION.

ALL NATIVE SOIL BACKFILL WITHIN 18\"/>

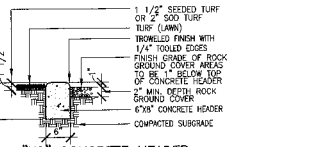


- NOTES:**
- FINISH GRADES SHALL BE UNIFORM THROUGHOUT ALL PLANTING AREAS. ALL ROCK GROUND COVER EDGES SHALL BE AFTER FINISH GRADING, WATER WASHING AND SETTLEMENT.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER TRADES AS NECESSARY TO PROMOTE ALL FILL AND SOIL GRADING REQUIRED TO ACHIEVE FINISH GRADE OF ROCK GROUND COVER AS INDICATED HEREIN.
 - WATER WASH ALL ROCK GROUND COVER SURFACES TO REMOVE FINES AND DUST.

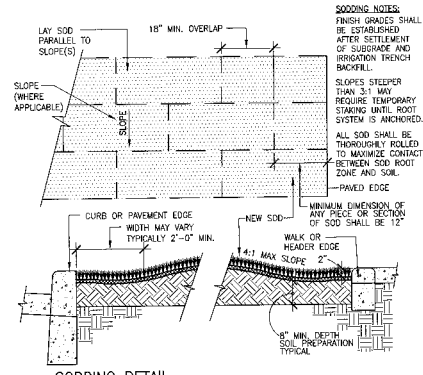
7 FINISH GRADE ROCK GROUND COVER
N.T.S.



8 BOULDER INSTALLATION
N.T.S.



9 6\"/>



10 SODDING DETAIL
N.T.S.

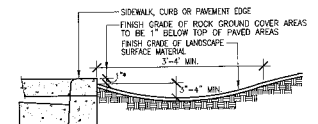
SODDING NOTES:

FINISH GRADES SHALL BE ESTABLISHED AFTER SETTLEMENT OF SUBGRADE AND IRRIGATION TRENCH BACKFILL.

SLOPES STEEPER THAN 3:1 MIN. REQUIRE TEMPORARY STAKING UNTIL ROOT SYSTEM IS ANCHORED.

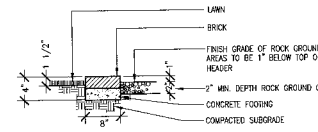
ALL SOD SHALL BE THOROUGHLY ROLLED TO MAXIMIZE CONTACT BETWEEN SOD ROOT ZONE AND SOIL.

MINIMUM DIMENSION OF ANY PIECE OR SECTION OF SOD SHALL BE 12\"/>



- GENERAL NOTES:**
- NUISANCE SWALES SHALL BE LOCATED BETWEEN ALL PAVEMENT EDGES AND ANY ADJACENT ELEVATED LANDSCAPE SURFACES.
 - FINISH GRADING (PRIOR TO PLACEMENT OF PLANTS AND ROCK GROUND COVER) SHALL INCLUDE GRADING / CONSTRUCTING NUISANCE SWALES.
 - 1/2\"/>

11 NUISANCE WATER SWALE
N.T.S.



12 BRICK HEADER
N.T.S.

NO.	DATE	DESCRIPTION



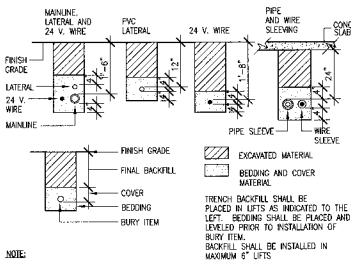
McCloskey + Peltz, Inc.
LANDSCAPE ARCHITECTS
One West Ebor Road Suite 110
Tampa, Florida 33609
Phone: (813) 342-4777

Landscape Details
Parkway Improvement District 07-7
CIRCLE G RANCHES VI
PREPARED FOR: Town of Gilbert

DESIGNED BY: **MPJ**
DRAWN BY: **BCD**
CHECKED BY: **DCM**
PROJECT NO: **06422**
DATE: **1/2008**

DRAWING NO.
L-7
SHEET **7** OF **13**

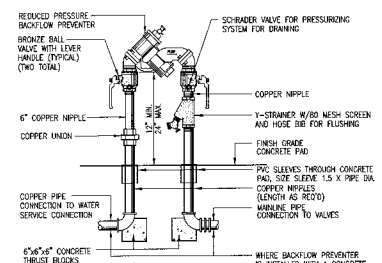




NOTE:

- SLEEVE ALL PIPE AND WIRE SEPARATELY
- ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. PLASTIC PIPE TO BE "SANDWICHED" IN TRENCHES. PROVIDE A MIN. OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES
- ALL 120 V. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. TAP AND BUNDLE WIRES EVERY 10', PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 90°

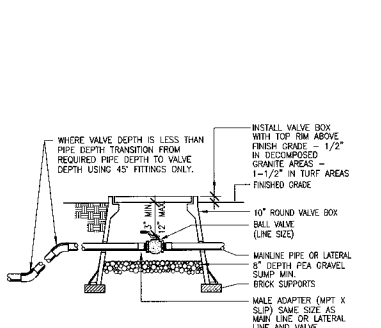
1 IRRIGATION TRENCHING
N.T.S.



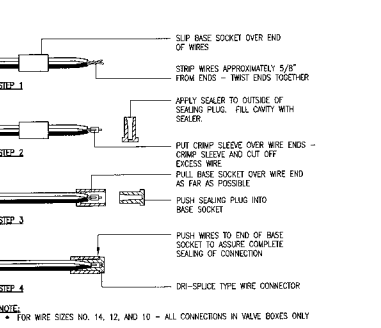
NOTE:

- LOCAL CODE SHALL COVER ALL INSTALLATION REQUIREMENTS
- ALL CONNECTIONS SHALL BE COPPER OR BRASS
- COORDINATE INSTALLATION OF CONCRETE SLAB AND BACKFLOW PREVENTER ENCLOSURE CASE IF INDICATED

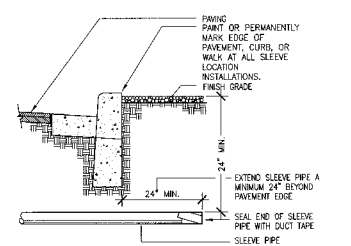
2\"/>



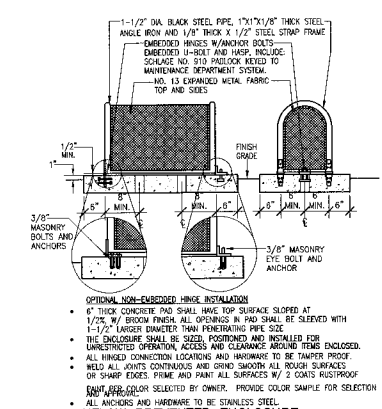
3 BALL VALVE/ISOLATION VALVE
N.T.S.



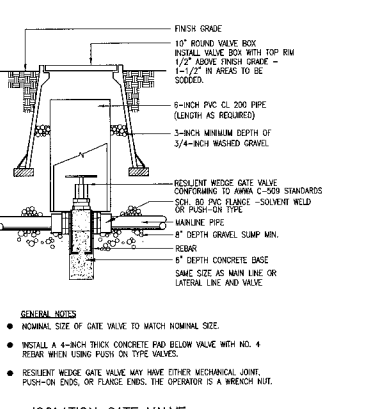
4 TYPICAL WIRE CONNECTION
N.T.S.



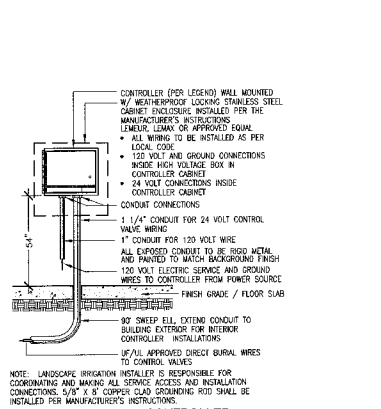
5 IRRIGATION SLEEVE
N.T.S.



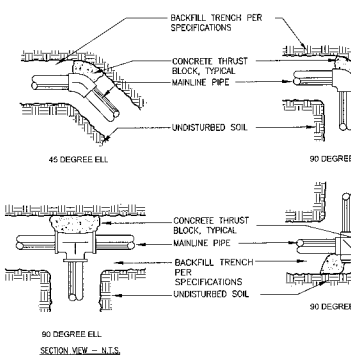
6 BACKFLOW PREVENTER ENCLOSURE
N.T.S.



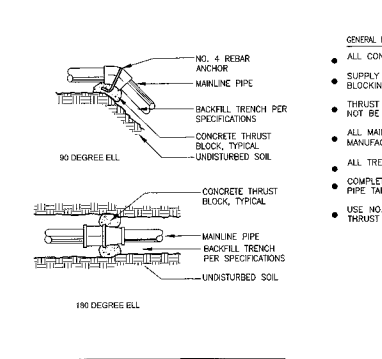
7 ISOLATION GATE VALVE
N.T.S.



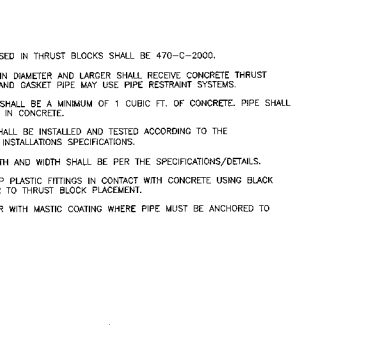
8 WALL MOUNTED CONTROLLER
N.T.S.



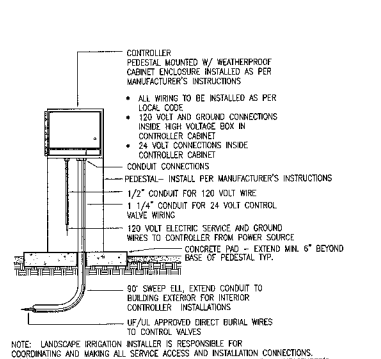
9 THRUST BLOCKS
N.T.S.



10 BACKFLOW PREVENTER ENCLOSURE
N.T.S.



11 ISOLATION GATE VALVE
N.T.S.



12 PEDESTAL MOUNTED CONTROLLER
N.T.S.

NO.	DATE	DESCRIPTION

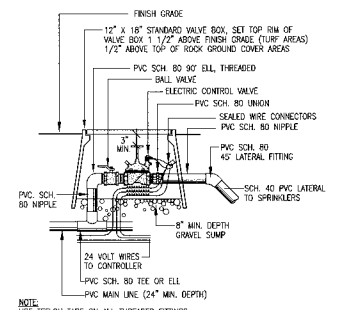


McCloskey + Pelitz, Inc.
LANDSCAPE ARCHITECTS
1001 N. GILBERT AVENUE, SUITE 110
TAMPA, FLORIDA 33604
PHONE: (813) 973-0077
FAX: (813) 973-1774

Irrigation Details
Parkway Improvement District 07-7
CIRCLE G RANCHES VI
PREPARED FOR: Town of Gilbert

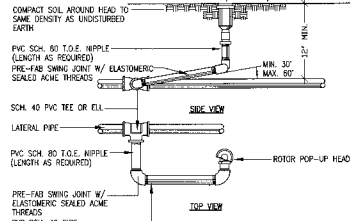
DESIGNED BY: **MPI**
DRAWN BY: **BCD**
CHECKED BY: **DCM**
PROJECT NO: **06422**
DATE: **1/2008**

DRAWING NO.
L-8
SHEET **8** OF **13**

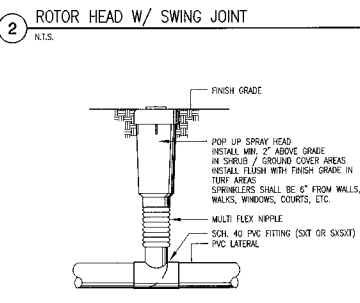


1 REMOTE CONTROL VALVE (TURF)
N.T.S.

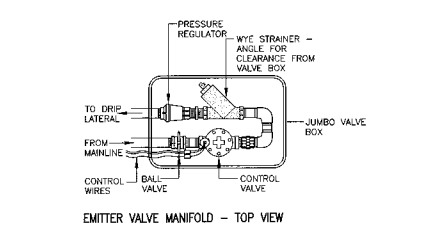
SWING JOINTS:
LASCO G172-212 OR APPROVED
EQUAL FOR 1"
LASCO T722-212 OR APPROVED
EQUAL FOR 3/4"
4-1/2" STREET ELLS WITH SCH.
80 NIPPLE FOR 1/2"



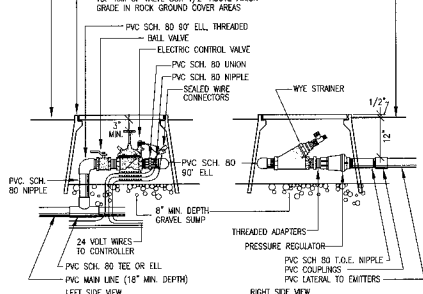
2 ROTOR HEAD W/ SWING JOINT
N.T.S.



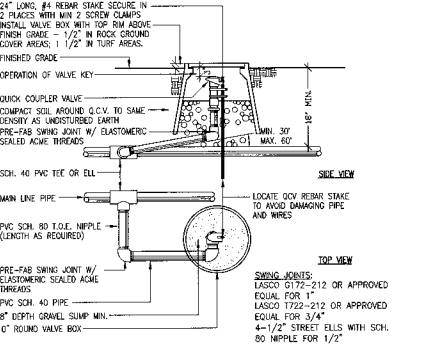
3 POP UP SPRAY HEAD
N.T.S.



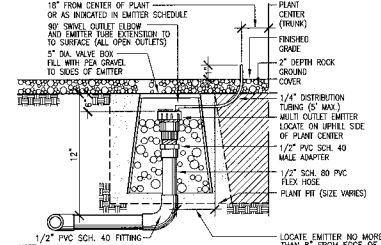
EMITTER VALVE MANIFOLD - TOP VIEW



4 EMITTER VALVE MANIFOLD
N.T.S.

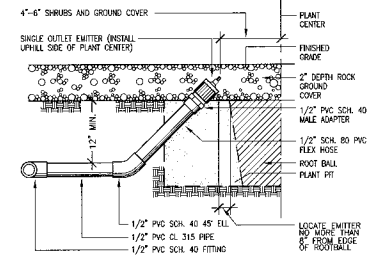


5 QUICK COUPLER VALVE
N.T.S.

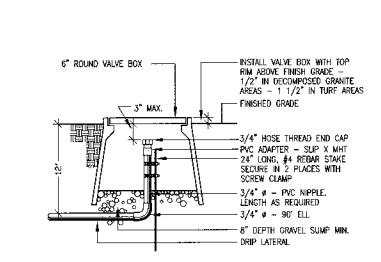


6 MULTI OUTLET EMITTER IN VALVE BOX
N.T.S.

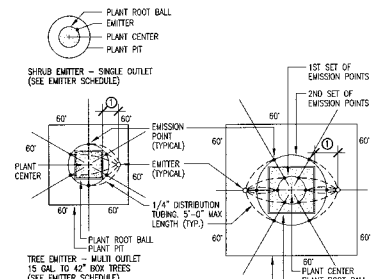
- PIPE CEMENT SHALL BE AS SPECIFIED BY MANUFACTURER FOR FLEXIBLE AND RIGID PIPE CONNECTIONS.
- EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO PLANT ROOT BALL.
- A MINIMUM OF THREE EMITTERS OPEN INITALLY. ADDITIONAL OPENINGS AND EMISSION POINTS SHALL BE BASED ON PLANT SIZE (SEE EMITTER LAYOUT AND SCHEDULE).
- EMITTER VALVE BOX SIZE: 6" DIA. BAINBRG MODEL SEB-6X OR APPROVED EQUAL.



7 SINGLE OUTLET EMITTER
N.T.S.



8 DRIP SYSTEM FLUSH PLUG
N.T.S.



9 EMITTER LAYOUT
N.T.S.

- ① LOCATE MULTI OUTLET EMITTER NO MORE THAN 8" FROM EDGE OF ROOT BALL.
- ② TREE EMITTER - MULTI OUTLET 15 GAL TO 42" BOX TREES (SEE EMITTER SCHEDULE)
- ③ TREE EMITTERS - MULTI OUTLET 48" BOX TO 60" BOX TREES, AND 50" TREES (SEE EMITTER SCHEDULE)

NOTE:
EMITTER SHALL BE LOCATED ON UPHILL SIDE OF PLANT ROOT BALL. EMISSION POINTS SHALL BE EQUALLY DISTRIBUTED AROUND PLANT PIT PERIMETER PER SCHEDULE.
EMITTER SHALL BE 8" MAXIMUM FROM EDGE OF TREE ROOT BALL TYPICAL. DISTRIBUTION TUBING SHALL NOT EXCEED 5'-0" MAXIMUM IN LENGTH.

TREES

TREE SIZE	NUMBER OF MULTI OUTLET EMITTERS OUTLET QUANTITY = EMITTER GPH TOTAL	DISTANCE FROM TRUNK	1ST SET OF EMISSION POINTS	2ND SET OF EMISSION POINTS
15 GAL.	1 - 1 GPH = 6 GPH	3 @ 12"		
24" BOX	1 - 1 GPH = 6 GPH	4 @ 18"		
30" BOX	1 - 1 GPH = 6 GPH	6 @ 21"		
36" BOX	1 - 2 GPH = 12 GPH	6 @ 24"		
42" BOX	1 - 2 GPH = 12 GPH	6 @ 27"		
48" BOX	2 - 2 GPH = 24 GPH	6 @ 12"	4 @ 42"	
54" BOX	2 - 2 GPH = 24 GPH	6 @ 15"	5 @ 45"	
EX. LG. TREES	2 - 2 GPH = 24 GPH	6 @ 18"	6 @ 48"	
EX. TREES IN RUFF	1 - 2 GPH = 12 GPH	6 @ 24"		
EX. F. PALM	1 - 2 GPH = 12 GPH	6 @ 24"		

SHRUBS

PLANT	SIZE	EMITTER TYPE (G.P.H.)
ANABELIA INEY, KATIE'S BRUELLA, SUN LAY, AND PENSTEMON	ALL	.6 G.P.H. SINGLE OUTLET
ALL OTHER SHRUBS, GROUND COVER, AND ACCENTS	1 OR 5 GAL.	1 G.P.H. SINGLE OUTLET

10 EMITTER SCHEDULE
N.T.S.

**FOR CL 315
(1/2" SIZE) AND
CL 200 PVC
(3/4" AND
LARGER)**

PIPE SIZE	FLOW (GPH)	FLOW (GPM)
1/2"	0-4	0-5
3/4"	4-8	5-10
1"	8-13	10-15
1-1/4"	13-22	15-25
1-1/2"	22-30	25-35
2"	30-50	35-50
2-1/2"	50-70	55-80
3"	70-120	80-120
4"	120-200	120-200

11 PIPE SCHEDULE
N.T.S.

1. ALL VALVE BOXES TO BE CARBON/BROOKS, AMETEK, OR EQUAL
2. ALL LATERAL PIPE TO BE CLASS 200 PVC, 1/2" DRIP SUB-LATERAL - CL 315 (PVC)
3. MAINLINE PIPE TO BE SCHEDULE 40 PVC (OSWEGO WELDED) - LESS THAN 3" AND CLASS 200 PVC (RING-TITE) - 3" AND GREATER

NO.	DATE	DESCRIPTION

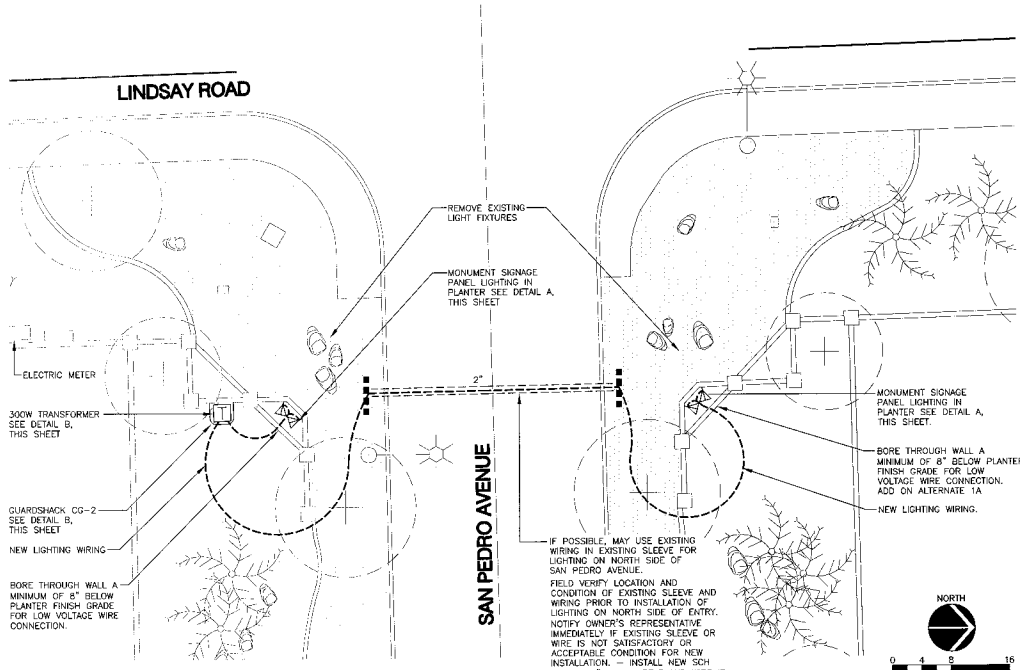


McCloskey + Peltz, Inc.
LANDSCAPE ARCHITECTS
10000 E. 10th Avenue, Suite 110
Denver, CO 80231
Phone: (303) 556-0777
Fax: (303) 556-1774

Circle G Ranches VI
Prepared For: **Town of Gilbert**

DESIGNED BY: **MP**
DRAWN BY: **BCD**
CHECKED BY: **DCM**
PROJECT NO: **08422**
DATE: **1/2008**

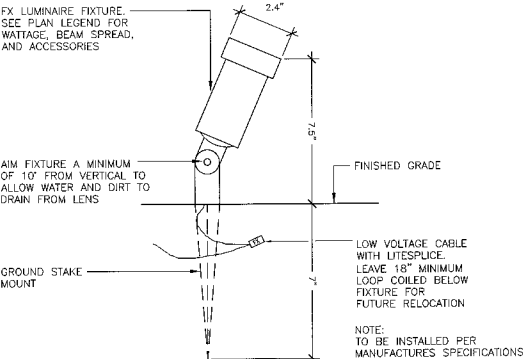
DRAWING NO:
L-9
SHEET **9** OF **13**



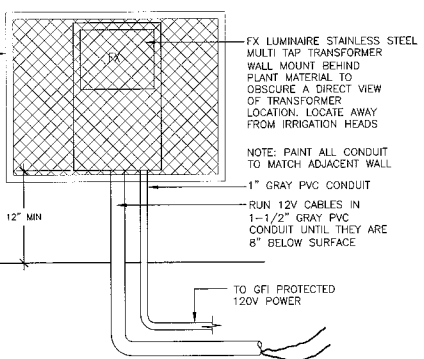
ENTRY MONUMENT PLAN VIEW

1/8"=1'-0"

LOW VOLTAGE LIGHTING DETAILS



A MACCIA ULTIMO ON SPIKE MOUNT
N.T.S.



B TRANSFORMER WALL MOUNTED WITH METAL ENCLOSURE
N.T.S.

LOW VOLTAGE LIGHTING LEGEND

SEE THIS SHEET FOR LOW VOLTAGE LIGHTING DETAILS AND NOTES

SYM.	MANUFACTURER	MODEL	NOTES
LOW VOLTAGE LIGHTING			
△	FX LUMINAIRE	MU-20-W	SIGN LIGHT
□	FX LUMINAIRE	PX-300-TPC	
U	GUARDSHACK	CG-2	OR APPROVED EQUAL
UNLESS OTHERWISE NOTED, ALL LIGHTS			NOTE: PROVIDE PLANT MATERIAL TO TO HAVE BRONZE FINISH TYP.
			SCREEN THE TRANSFORMER FROM VIEW-TYP.

LOW VOLTAGE LIGHTING NOTES

GENERAL
Scope of Work: The supply and installation of a 12 volt landscape lighting system which includes the fixtures specified on Lighting Legend as well as the installation of low voltage transformers, conduit, and direct burial cable as necessary to complete the layout shown on plans. Lighting plans are diagrammatic and intended to show general fixture locations. Contractor is responsible for necessary line (120v) and low voltage (12v) work to complete the lighting design as shown.

Standards: All work performed is to comply with the National Electric Code and applicable local codes and ordinances. Contractor shall possess all necessary licenses to complete the described work. Contractor is to obtain all necessary permits to complete work described.

INSTALLATION
Contractor is to verify site measurements, grades, existing sleeves, existing plant locations, and existing utilities, equipment and switching controls. Contractor is to provide all necessary components and accessories to complete installation as specified.

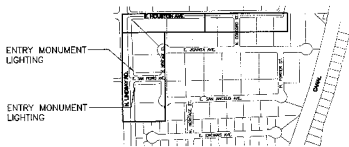
1. Direct Burial Cable: Cable shown on plans is for fixture grouping only. Cable to be circled and sized to provide a minimum of 10.5 volts and a maximum of 11.5 volts to all lighting fixtures. Refer to FX Luminaire's "Cabling Guidelines" included with the transformer. Minimum underground low voltage cable size is 12 gauge multi-strand direct burial. Install cable along edge of hardscape wherever possible. Minimum cable depth is 8". All cable run under hardscape areas shall be installed in sleeves with sweep corners. Leave 24" loops at all fixture locations for final adjustment. All wire junctions shall be waterproofed with FX Luminaire Life Splice connectors or APPROVED equal. Only fully encapsulated waterproof connectors rated for direct burial will be accepted. Black taped connections will be rejected.
2. Fixture location: Verify exact location with Landscape Architect or Owner's agent before commencing installation. All fixtures shall be in a new, unused condition. Equipment shall be the type specified - there will be no substitutions without prior approval from Landscape Architect or Owner's agent. Install all equipment as per manufacturer's specifications and details.
3. Transformers: Shall be FX Luminaire stainless steel Multi-Tap sized to be 80% loaded. Transformers to be installed inconspicuously using plant material or site features to obscure a direct view of their locations. Avoid locations that are easily accessible to children or that are in a direct path of irrigation water. Install transformers 12" above finish grade and level. All wires leading to or from transformer shall be in conduit sleeves that is firmly affixed to mounting surface. All junction boxes and other equipment shall be as approved for wet locations. Paint transformers and any necessary junction boxes or conduit to match the surface on which they are mounted. Install transformers according to manufacturer's specifications and local codes. All exposed metal parts including transformers shall be permanently grounded in accordance with the National Electrical Code.
4. Switches: Contractor shall install switches at locations indicated on plan.
5. Testing: Contractor is to coordinate a convenient time in the evening to test and aim all equipment to the satisfaction of the Landscape Architect or Owner's agent.
6. Guarantee: Upon completion and acceptance of the described work, the Contractor shall provide a guarantee for all workmanship and equipment for the period of one year from the date of acceptance. All warranty service work shall be performed at no cost to Owner and be done in a timely fashion.
7. As Built: Contractor will provide Owner with complete and reproducible drawing of the system layout as it was actually installed. This drawing should include the location of underground cable, sleeves, and all fixtures and equipment.

FX LUMINAIRE CONTACT: GREG REDLAWSK
PHONE: 1-888-711-7963
FAX: 1-858-535-1234
EMAIL: greg@fxl.com

NOTE:
ALL LOW VOLTAGE LIGHTING SHALL BE ON AN AUTOMATIC TIMER AND SHALL BE EXTINGUISHED BETWEEN THE HOURS OF MIDNIGHT AND SUNRISE.

NOTE:
ELECTRICAL METER/ POWER SOURCE IS EXISTING, FIELD VERIFY.

KEYMAP



NO.	DATE	DESCRIPTION



McCloskey + Peltz, INC.
LANDSCAPE ARCHITECTS
10000 E. 15th Avenue, Suite 110
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Phone: (303) 755-9777
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Low Voltage Entry Lighting Plan
Parkway Improvement District 07-7
CIRCLE G RANCHES VI
PREPARED FOR: Town of Gilbert

DESIGNED BY: MPI
DRAWN BY: BCD
CHECKED BY: DCM
PROJECT NO: 08422
DATE: 1/2008

DRAWING NO:
L-10
SHEET 10 OF 13



PLANTING SPECIFICATIONS

PART 1 - GENERAL

- A. Work Schedule - The work of this Section shall include all labor, materials, equipment and services necessary to furnish and install all landscape plant materials... B. Safety - All work shall be performed in accordance with the safety requirements of the Department of Labor... C. Quality Assurance - All plants shall be subject to review and approval of Owner's Representative... D. Submittals - Submit quality certificates on plant materials as specified herein... E. Pre-Construction Conference - The Owner's Representative may schedule a pre-construction conference with Contractor... F. Site Preparation - The Contractor shall be responsible for clearing the site... G. Planting - The Contractor shall be responsible for planting all plants... H. Maintenance - The Contractor shall be responsible for maintaining all plants... I. Warranty - The Contractor shall warrant all work for a period of one year...

PART 2 - MATERIAL STANDARDS

- A. Bark of Bark - The following organic amendments, soil amendments, and fertilizers are for listing purposes only... B. Organic Soil Amendment - Shall be stabilized, fertilized, treated (nitrated) wood products with no more than one (1) percent external fire... C. Soil Amendments - Shall be stabilized, fertilized, treated (nitrated) wood products with no more than one (1) percent external fire... D. Soil Amendments - Shall be stabilized, fertilized, treated (nitrated) wood products with no more than one (1) percent external fire... E. Commercial Fertilizer - Shall be of uniform composition, dry and free-flowing... F. Plant Materials - All plants shall be subject to review and approval of Owner's Representative... G. Seed - Seed shall be fresh, clean, and new crop seed material... H. Soil - Soil shall be Bermuda hybrid Melton... I. Wood Mulch - Shall be made of wood chips... J. Topsoil - Shall be made of topsoil... K. Water - Free of oil, acid, salts, or other substance harmful to seed growth... L. Concrete Header - As noted and detailed on drawings

PART 3 - SOIL PREPARATION

- A. Topsoil - Topsoil, if required, shall be screened, fertilized, friable soil from well-drained, erable land... B. Planting Area - Plant pit backfill for all trees and shrubs shall be screened, clean on-site native soil... C. Lawn Areas - Where the existing soil is cohesive type, it shall be excavated to a depth of 6 inches... D. Preparation - Remove rocks, weeds, sticks, roots, debris, and extraneous matter over 1" in any dimension from area to be planted...

PART 4 - EXECUTION

- A. Grades - Verify that final grades to a 0.10 foot in elevation have been established prior to commencing landscaping operations... B. Irrigation System - The Contractor shall be responsible for installing all irrigation systems... C. Plant Removal Operations - Remove any existing trees or shrubs not to remain according to the Planting Plans... D. Layout - Owner's Representative will check the location of all planting areas prior to the start of irrigation system installation... E. Pit Excavation - Excavation of pits shall be done in accordance with the specifications... F. Planting Operations - Remove any rocks or other underground obstructions if possible... G. Watering - The Contractor shall be responsible for watering all plants... H. Planting - The Contractor shall be responsible for planting all plants... I. Maintenance - The Contractor shall be responsible for maintaining all plants... J. Warranty - The Contractor shall warrant all work for a period of one year...

PART 5 - LAWN PLANTING AND RESTORATION

- A. Excavation - Conditions causing retention of water in turf areas for more than 24 hours shall be brought to the attention of the Owner... B. Installation of Seed - Seed may be broadcast by means of a rotary or drop type distributor... C. Watering - The Contractor shall be responsible for watering all plants... D. Maintenance - The Contractor shall be responsible for maintaining all plants... E. Warranty - The Contractor shall warrant all work for a period of one year...

PART 6 - ROCK GROUND COVERED CONTROL

- A. Herb Control - The application of weed control materials shall be licensed by the State of Arizona... B. Planting - The Contractor shall be responsible for planting all plants... C. Maintenance - The Contractor shall be responsible for maintaining all plants... D. Warranty - The Contractor shall warrant all work for a period of one year...

PART 7 - CLEANUP, MAINTENANCE, AND GUARANTEE

- A. Cleanup - Keep all areas of the project in a clean, neat and orderly condition... B. Maintenance - The Contractor shall be responsible for maintaining all plants... C. Warranty - The Contractor shall warrant all work for a period of one year... D. Plant Loss and Replacement - The Contractor shall be responsible for replacing all plants lost during the warranty period...

McCluskey • Peltz, Inc. LANDSCAPE ARCHITECTS. PROJECT NO. 06422. DRAWING NO. L-11. SHEET 11 OF 13.

Planting Specifications Parkway Improvement District 07-7 CIRCLE G RANCHES VI. PREPARED FOR: Town of Gilbert. DRAWING NO. L-11. SHEET 11 OF 13.

IRRIGATION SPECIFICATIONS

PART 1 - GENERAL

- A. Work Specified Herein - The work of this Section shall include all labor, materials, equipment and services necessary to furnish and install a complete landscape irrigation system including:
 1. Trenching, staking, excavation, installation, and rolling trenches.
 2. Complete system including but not limited to piping, backflow preventer assemblies, valves, fittings, heads, controller and wiring, and final adjustments to insure complete coverage.
 3. Meter and electrical services as required.
 4. Replacement of unsatisfactory materials.
 5. Clean up, inspection and approval.
 6. Tests.
- B. Substitutions - No change from the design shall be made without written authorization from the Owner's Representative and Town of Gilbert.
 1. Equipment specified is to establish performance and quality standards and shall be understood to include the words, "or approved equal." Any proposed equivalent materials shall be reviewed for approval by Owner's Representative prior to bidding.
- C. Quality Assurance
 1. Return all work in accordance with requirements of this Contract, MAG Standard Specifications, Town of Gilbert standards, as well as provisions of all applicable laws, codes, ordinances, rules, and regulations.
 2. Conform to requirements of reference information listed below except where more stringent requirements are shown or specified in the Contract Documents.
 - a. American Society for Testing and Materials (ASTM) - Specifications and Test Methods specifically referenced in this Section.
 - b. Underwriters Laboratories (UL) - UL Wees and Codes
 3. Specific Requirements:
 - a. Tolerances - Specified depths of masts and laterals and pitch of pipes are minimums. Settlement of trenches is cause for removal of each grade treated, regrading, reconstruction, and repair of finish grade treatment.
 - b. Protect, maintain, and coordinate work with other trades.
 - c. Contractor shall replace or repair damage to paving, grading, soil preparation, sodding, or planting during work associated with irrigation system installation at no additional cost to Owner.
 - d. Work involving substantial plumbing for installation of backflow preventer to copper service, and related work shall be executed by licensed and bonded plumbers.
 4. Pre-Construction Conference - The Owner's Representative may schedule a pre-construction conference with contractor as required for beginning work under this Section. Purpose of this conference is to review questions Contractor may have regarding the work, administrative procedures during construction and project work schedule.
- D. Submittals - Prepare and make submit of the following:
 1. Submit 5 sets Shop Drawings and complete materials list indicating manufacturer, model number(s), sizes, and description of all materials and equipment to be used on this project. Show appropriate dimensions and adequate detail to accurately portray intent of construction.
 2. All submittals shall be accompanied by a cover sheet indicating dimensions all deviations from approved plans.
 3. Controller Charts indicating areas of coverage for each station on each Controller. Do not prepare Controller charts until As-Built Record Drawings have been approved by Owner's Representative.
 4. Operation manual - in 3 ring binder include instructions for operation and maintenance of all equipment and components of irrigation system.
- E. Delivery, Storage, and Handling - Deliver, unload, store, and handle materials by packaging, handling products in dry, well-ventilated, waterproof conditions in manner to prevent damage, breaking, deterioration, abrasion, lamination, and delamination. Deliver materials in original manufacturer's packaging prominently displaying manufacturer name, volume, quantity, contents, instructions, and conformances to local, state, and federal law. Remove and replace dented, broken, or contaminated items or elements promptly upon receipt to minimize, eliminate weather, temperature extremes, fire, or job site damage. Exercise care in handling and loading of PVC pipe.
 1. Protection of Property - Preserve and protect all trees, plants, monuments, buildings, wells, structures, paved areas, curbs and other property from damage. In the work of this Section, in the event damage does occur, all damage to items shall be completely repaired or replaced to original condition or better to the satisfaction of the Owner. All costs for such repairs shall be paid by Contractor.
 2. Fire and barricade open ditches.
 3. Protection and Repair of Underground Lines
 - a. Contractor is responsible for verifying location (including depth) of all underground utility lines by BLUE STAKE (1002) 263-1100 or other means prior to starting excavation. Note all deviations in necessary lines from underground utility lines. In the event damage does occur, damage shall be repaired by Contractor to the approval of the Owner. All costs for such repairs shall be paid by Contractor.
 - b. Warranty / Guarantee - Manufacturer shall warrant materials against defects for a period of one year from date of Substantial Completion. Contractor shall guarantee workmanship for similar period. Contractor shall be responsible for coordinating material warranty items with manufacturer / distributor.
 4. Settlement of localized trenches that may occur during guarantee period shall be repaired by Contractor at no expense to Owner, including complete restoration of damaged property.
 5. Expenses due to variations between Substantial Completion shall be borne by Contractor.
 6. Check site at least once every two (2) weeks during warranty period for proper maintenance and operation of irrigation system, and notify Owner, in writing of any observed changes.
- F. Maintenance - Continuously maintain the irrigation system included in the contract during the progress of the work, until final acceptance of the work. Maintenance shall consist of making any necessary repairs, replacements, or adjustments regardless of cause to assure a complete and operational system and complete 100% coverage for all plant material and lawn areas.
- G. Extra Stock - In addition to the installed system furnish the following items to the Owner:
 1. 2 pop up spray heads and rotor heads of each type used.
 2. 6 ring emitters and no ballbets of each type used.
 3. Two wrenches for disassembly and adjusting of each type of sprinkler head and valve supplied.
 4. Two keys to each of the Controllers.

PART 2 - PRODUCTS

- A. Copper Pipe and Fittings - Copper pipe shall meet applicable specifications of ASTM B-88 hard tempered copper tubing. Copper pipe fittings shall be 150 pound working water pressure standard, solder and type, constructed of wrought copper, bronze, or brass. Joints shall be made with hot lead solder approximately 85-5 composition.
 1. All ball valves, gate valves, quick couplers, drip line flush caps, wire stubs, control wiring splices, control valves, and other accessories to be installed in steel boxes as shown on drawings.
 2. Valve boxes to be installed with both down lids and stainless steel hardware. Boxes in turf-grass, boxes in D.G. areas-lawn.
- F. Controller - Size and type as shown on drawings, installed in accordance with the details and manufacturer's directions and in conformance with applicable local code requirements. Provide controller with lockable outdoor cabinet.
 - G. Electrical Control Wiring
 1. Low Voltage
 - a. Electrical Control Wire - AWG UF UL 16, 14 gauge (min.) (or larger if required to operate system as designed). Wiring used for connecting the outdoor controller to the automatic controller shall be Type UF R90 with single conductor copper wire with PVC insulation and bare UL approved for direct underground burial feeder cable.
 - b. All control wire shall be shielded. Common wire to be white.
 - c. Control wire connections and splices shall be made with 3M direct bury splices, Rainbird Penrite connectors, or similar approved dry splice method.
 2. High Voltage - Type required by local codes and ordinances, of proper size to accommodate the needs of equipment serviced.
 - H. Electric Remote Control Valves (Turf) - Type, size as shown on drawings.
 1. Sprinkler Heads - As indicated on drawings. Fabricate riser units in accordance with details on drawings with riser bodies of same size as riser opening in sprinkler body.

PART 3 - EXECUTION

- A. Inspection
 1. Examine areas and conditions under which work of this section is to be performed. Do not proceed with work until unsatisfactory conditions have been corrected.
 2. Coding operators with the exception of final grading shall be completed and approved by Owner's Representative before starting or installation of any irrigation system begins.
- B. Preparation
 1. Staking - mark with powdered line or marking paint, routing of pressure supply line and flag heads and control valve locations as directed by Owner's Representative. Owner's Representative will review staking and direct changes if required. Staking review does not relieve installer from coverage problems due to improper placement of heads after staking.
 2. Install staking under power prior to paving operation to accommodate piping and wiring. Compact backfill covered areas to provide firm footing within 24 of optimum moisture content in accordance with ASTM D1557.
 3. Trenching - French excavation shall follow as much as possible layout shown on drawing. Dig trenches straight and support pipe continuously on both sides of trench. Trench bottom shall be clean and smooth with all rock and organic debris 1" and greater in removal. Pressure supply line trenches shall be over excavated to allow for bedding, material.
 - a. Clearances
 1. Piping smaller than 3 inches - trenches shall have a minimum width of 7 inches.
 2. Provide not less than 6 inches of clearance between each line, and not less than 12 inches of clearance between lines of other utilities.
 3. Pipe and wire depth as shown on detail on drawings.
 4. Existing Irrigation Removal - Unless otherwise noted on irrigation plans, all existing at grade or above grade irrigation components to be removed. This includes, but is not limited to electric valves, valve boxes, spray heads, ballbets, emitters, emitter distribution lines, backflow preventers, and controllers. All existing irrigation system components to be removed shall be observed and recorded. Lines, valves, disturbed during new construction. Remove and dispose as necessary.
- C. Installation
 1. Locate all other equipment to be removed or installed as locations designated on drawings. Deviations shall be approved by Owner's Representative prior to installation.
 1. PVC Piping - Snake pipe in trench as much as possible to allow for expansion and contraction. Do not install pipe when air temperature is below 40 degrees (F). When pipe laying is in progress, at end of each day, close pipe ends with tight plug or cap. Perform work in accordance with good practices prevailing in piping trades. Coordinate pressure supply line installation with required bedding operations.
 - a. Solved wet PVC Pipe - Lay pipe and make all plastic to plastic joints in accordance with manufacturer's recommendations. All solvent welded PVC pipe and fittings shall be primed.
 2. Reduced Pressure Vacuum Breaker - Install as detailed in locations shown on drawings. Comply with manufacturer's recommendations, backflow prevention shall be tested in accordance with the requirements as specified in the manual Cross Connection Control Recommended Practice as published by the foundation for Cross Connection Control Research, University of Southern California and local codes. The testing of the backflow prevention unit shall be performed by authorized service-fee personnel. The test shall be performed at no additional cost to the Owner.
 2. Drip System
 - a. Make all fitting connections per manufacturer recommendations and as detailed and shown on drawings.
 - b. Install drip line flush caps at all dead ends of drip laterals.
 3. Automatic Controller
 - a. Electrical service point of connection. Existing controller locations and electrical supply shall be where possible. Where not possible, electrical supply shall be extended from the point of service to the controller location shown on plan. Field verify locations, condition, and operation of existing electrical service. Notify Owner's Representative immediately of existing conditions detrimental to performing work under this contract.
 - b. Connect remote control valves to controller in numerical sequence as shown on the drawings.
 - c. The controller location shown on plan. Field verify location and coordinate with electrical contractor.
 2. Control Wiring
 - a. Bury control wiring between controller and electric valves in pressure supply line trenches, string as close as possible to pressure supply lines with wires consistently located below and to one side of pipe on top of (inlet pipe bedding) or in separate trenches.
 - b. Bundle 24 wall wires of 10 foot intervals.
 - c. Provide an expansion loop at least 8 times around a 3/4" inlet pipe and with a minimum 90°.
 - d. Make all splices and ECV connections using Penrite connectors or similar dry splice method.
 - e. Install all control wires splices not occurring at control valve in a separate splice valve box.
 - f. Install size control wire for each control valve.
 - g. Run 1 splice #14 - 1 wire from controller pedestal to lead electric control valve on each and every leg of mainline.
 - h. Label spare wires of controller and wire stub box. Wire color for extra wire to be green.
 3. Electric Control Valves - Install cross handle 3" min. below finish grade where shown on drawings and as detailed. When grouped together, allow of 3" between valve box sides. Install each remote control valve in a separate side box. Install top of valve box 1/2" above finish grade.
 1. Drip Valve Assemblies - Install drip valve assembly as detailed.
 2. Drip Emitters - Install all emitters as detailed.
 - a. Install one valve box for each type of valve installed as detailed.
 - b. Valve box extensions are not acceptable.
 - c. Install gravel sump after composition of all trenches. Valve box to rest on gravel sump. Place final grade of gravel inside valve box after valve box is installed and compacted.
 - d. All valve boxes to be bolt down lid models. Provide with stainless steel bolts and washers as required.
 - e. Provide sufficient clearances inside valve boxes to properly operate and maintain irrigation system component without wires.
 4. Sprinkler Heads
 - a. Install sprinkler heads where designated on drawings or where staked. Spacing of heads shall not exceed the maximum indicated on drawings unless instructed as directed by Owner's Representative. In no case shall the spacing exceed that recommended by the manufacturer. Contractor is responsible for providing complete 100% head to head coverage.
 - b. Set slump to finish grade as detailed. Install heads on risers as detailed. Adjust heads to correct height after used as established.
 - c. Adjust head clear heads for proper coverage. Plant placement shall not interfere with intended sprinkler head coverage, piping, or other equipment. Owner's Representative may request nozzle changes or adjustments without additional cost to the Owner.
 11. Backfilling - Do not begin backfilling operations until required system tests have been completed. Backfill shall be placed in 6" lifts. Backfill shall be generally composed of selectatory for backfill purposes after completing bedding requirements. Backfill material shall be free of rubric, vegetable matter, frozen materials, and stones larger than 2 inches in maximum dimension. Do not mix soil with legal. Material is not suitable for backfill if excavated material is not sufficient to meet backfill, composition, and final grade requirements.
 - a. All pressure supply lines shall be bedded with construction grade sand 4" below invert of pipe to 6" above top of pipe and width of trench.
 - b. Backfill shall be placed in 6" lifts to maximum compacted selectatory for backfill purposes after completing bedding requirements. Backfill material shall be free of rubric, vegetable matter, frozen materials, and stones larger than 2 inches in maximum dimension. Do not mix soil with legal. Material is not suitable for backfill if excavated material is not sufficient to meet backfill, composition, and final grade requirements.
 - c. Do not leave trenches open for a period of more than 48 hours. Open excavations shall be protected in accordance with OSHA regulations.
 - d. Compact backfill to 95% minimum density as determined in accordance with ASTM D1557 utilizing mechanical or hand tamping method.

12. Piping and wiring under paving to be installed in separate sleeves. Locations, sizes, and condition of existing on site and new to be known. Contractor will be required to provide all shoring required to complete work under this contract and cut repair, and receive pavement as required for installation of new viewing to the approval of the Town of Gilbert.
13. Water Supply and Point of Connection - Water supply points of connection (existing water meters) are shown on plans. Field verify location, size, condition, and proper operation prior to start of construction. Notify Owner's Representative of existing conditions detrimental to performing work under this contract.
- D. Field Quality Control
 1. Flushing - after piping, risers, and valves are in place and connected but prior to installation of sprinkler heads, emitters, quick coupler assemblies, and all relief valves thoroughly flush piping system under full head of water pressure from dead end fittings. Isolation flushing for 5 minutes through furthest end of Gilbert. Cut risers after flushing.
 2. Testing - Conduct tests in the presence of the Owner's Representative. Arrange for presence of Owner's Representative 48 hours in advance of testing. Support zones and all other test equipment.
 - a. Prior to backfills, and after installation of all control valves, fill pressure supply line with water, and pressure to 40 PSI over the designated static pressure or 150 PSI whichever is greater, for a period of 2 hours.
 - b. Test is acceptable if no leakage or loss of pressure is evident during test period.
 - c. Detect and repair all leaks.
 - d. Reset system until test pressure can be maintained for duration of test.
 - e. Pressure supply line may be bled after acceptable pressure test.
 - f. Before final acceptance, pressure supply line shall remain under pressure for a minimum period of 48 hours.
 3. Adjusting - Upon completion of installation, "fine tune" entire system by regulating valves, adjusting patterns and back up arms / covers, and setting pressure reducing valves of proper pressure to provide optimum and efficient coverage. Flush and adjust all sprinkler heads for optimum performance and to prevent over spray onto walls, ceilings, hallways, and walls as much as possible. Heads of some type shall be operating at some pressure +/- 7%.
 - a. If it is determined that irrigation adjustments will provide proper and more adequate coverage, make such adjustments prior to final maintenance inspection as directed or at no additional cost to Owner. Adjustments may also include changes in nozzle sizes, degrees of arc, and control valve throttling.
 - b. All sprinkler heads shall be set perpendicular to finish grade unless otherwise designated.
 - c. Areas that do not conform to designated operation requirements due to uncorrected changes or poor installation practices shall be immediately corrected at no additional cost to the Owner.
 4. Cleanup - Mention contents clearing operation throughout duration of work. Legally disposed of, off-site, at no additional cost to Owner of trash or debris generated by installation of irrigation system.
 5. Substantial Completion Walkthrough
 - a. Period for presence of Owner's Representative 48 hours in advance of walkthrough.
 - b. Entire system shall be completely installed and operational prior to scheduling of walkthrough.
 - c. Operate each zone, in its entirety for Owner's Representative of lines of walk through to insure correction of all incomplete items.
 - d. Expense of all flag emitters and mini spray devices under operation for observation by Owner's Representative to demonstrate that they are performing and installed as designed.
 - e. Submit As-Built record drawings for review of time of Substantial Completion Walkthrough.
 - f. Owner's Representative shall generate partial list of items to be completed before granting substantial completion and initialing 90 day maintenance period.
 6. Contractor shall furnish all materials and perform all work required to correct all inadequacies of coverage due to deviations from the Contract Documents and as directed by the Owner's Representative.
 6. Final Maintenance Inspection
 - a. One week prior to the end of the 90 day maintenance period a final inspection will be performed. Contractor shall show evidence that Owner has received all As-Built Record drawings, accessories, charts, and equipment as required prior to scheduling final maintenance inspection. The same process will be followed as specified for the Substantial Completion Walkthrough. If, after this inspection, the Owner agrees that the irrigation system installation is acceptable, written Notice of Acceptance will be given to the Contractor, and their maintenance will commence. If, after this inspection, remedial work is required by the Contractor, Notice of Acceptance and the commencement of Owner maintenance will be delayed until all remedial work items are completed by the Contractor in a manner acceptable to the Owner's Representative.

NO.	DATE	DESCRIPTION



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Irrigation Specifications
 Parkway Improvement District 07-7
CIRCLE G RANCHES VI
 PREPARED FOR: Town of Gilbert

DESIGNED BY: MPI
DRAWN BY: BCD
CHECKED BY: DCM
PROJECT NO: 06422
DATE: 1/2008

DRAWING NO.
L-12
SHEET 12 OF 13