

PLANT SCHEDULE

SYMBOL CODE BOTANICAL / COMMON NAME

QUERCUS VIRGINIANA 'AUGUSTINA' / AUGUSTINA LIVE OAK

ORNAMENTAL TREES

CHILOPSIS LINEARIS / DESERT WILLOW

CERCIS CANADENSIS 'TEXENSIS' / TEXAS REDBUD

ILEX CORNUTA 'CARISSA' / CARISSA HOLLY

LEUCOPHYLLUM FRUTESCENS 'COMPACTA' / COMPACT TEXAS RANGER

ILEX VOMITORIA / DWARF YAUPON HOLLY MUHLENBERGIA CAPILLARIS / GULF MUHLY

NASSELLA TENUISSIMA / MEXICAN FEATHER GRASS LANTANA X 'NEW GOLD' / NEW GOLD LANTANA

HESPERALOE PARVIFLORA / RED FLOWERING YUCCA

SALVIA COCCINEA / SCARLET SAGE

YUCCA RECURVIFOLIA / SOFTLEAF YUCCA MALVAVISCUS DRUMMONDII / TURK`S CAP

GROUND COVERS

TRACHELOSPERMUM ASIATICUM / ASIAN STAR JASMINE

FICUS TIKOUA / SANDI LEAF FIG

SCUTELLARIA SUFFRUTESCENS / TEXAS SKULLCAP

RIVER ROCK / RIVER ROCK

CYNODON DACTYLON / BERMUDA GRASS

SEE LP 3.00 FOR FULL PLANT SCHEDULE

MATERIALS SCHEDULE:

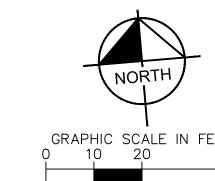
LIMESTONE 6" X 6" X VARYING LENGTHS REF. HARDSCAPE DETAILS

MATT ARNOLD (979.361.2900) matt.arnold@kniferiver.com

RIVER ROCK

1"-3" REF. PLANS AND DETAILS KNIFE RIVER

MATT ARNOLD (979.361.2900) matt.arnold@kniferiver.com



ALL PROPOSED LANDSCAPE IMPROVEMENTS SHALL BE PROVIDED A PERMANENT IRRIGATION SYSTEM PER CITY OF BRYAN CODE OF ORDINANCES.

PLANTING NOTES:

I. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL UNDERGROUND UTILITIES. PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE LANDSCAPE ARCHITECT OF ANY

- CONDITION FOUND ON SITE WHICH PERMITS INSTALLATION AS SHOWN ON THESE DRAWINGS. 3. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY, GROWING CONDITION AND MUST BE
- REPLACED WITHIN 30 DAYS WITH PLANT MATERIAL OF THE SAME VARIETY AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND REMOVAL OF DEBRIS PRIOR TO PLANTING IN ALL AREAS.
- 5. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES. ALL PLANT QUANTITIES ARE LISTED FOR INFORMATION PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FULL COVERAGE IN ALL PLANTING AREAS AS SHOWN ON THE PLANS AND SPECIFIED IN THE PLANT
- 6. CONTRACTOR TO PROVIDE CONCRETE MOW STRIP BETWEEN ALL PLANTING BEDS AND TURF AREAS
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS. 7. ALL PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS GIVEN IN THE PLANT SCHEDULE,
- PLANTING DETAILS, AND PLANTING SPECIFICATIONS. B. ALL PLANT MATERIAL SHALL MEET INDUSTRY STANDARDS AS INDICATED IN THE CURRENT EDITION
- OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1). 9. ALL PLANT MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO
- 10. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH OTHER CONTRACTORS ON SITE AS
- REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS. 11. ALL PLANTING AREAS SHALL RECEIVE SOIL AMENDMENTS.
- 12. PLANT MATERIAL SHALL BE PRUNED PER PLANTING DETAILS UNLESS OTHERWISE NOTED ON
- 3. PLANTING AREAS SHALL BE KEPT FREE OF TRASH, WEEDS, DEBRIS, AND DEAD PLANT MATERIAL 14. ALL LIME STABILIZED SOIL AND INORGANIC SELECT FILL FOR BUILDING OR PAVING CONSTRUCTION SHALL BE REMOVED FROM ALL PLANTING BEDS TO A MINIMUM DEPTH OF 24" UNLESS OTHERWISE
- NOTED. REPLACE MATERIAL REMOVED WITH IMPORTED TOPSOIL. 15. TREES OVERHANGING PEDESTRIAN WALKS AND WITHIN VISIBILITY TRIANGLES AS NOTED ON THE PLANS SHALL BE LIMBED TO A HEIGHT OF SEVEN FEET (7'). TREE OVERHANGING PUBLIC STREETS
- AND FIRELANES SHALL BE LIMBED TO A HEIGHT OF FOURTEEN FEET (14').
- 16. TREES PLANTED NEXT TO ACCESSIBLE ROUTES AND ACCESSIBLE AREAS SHALL BE LIMBED TO 7'6" (80" MIN.) AFF. 17. ALL PROPOSED TREES SHALL BE STAKED WITH AN AT-GRADE ROOT BALL SECURING SYSTEM AS
- SHOWN IN THE PLANTING DETAILS AND SPECIFICATIONS. NO ABOVE-GROUND STAKING SYSTEMS, GUY WIRES/WIRES, HOSES, STRAPS, POSTS (METAL OR WOOD) SHALL BE ALLOWED UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT.



BENCH MARK LIST

PROJECT BENCHMARK, N-10230985.46, E-3545537.34, Z-331.46 CITY OF BRYAN MONUMENT GPS-35 (ELEVATION DATUM NAVD 1988, GEOID09)

TEMPORARY BENCHMARK 1, N-10231086,94, E-3542601.54, Z-368.50; 5/8 IR WITH RED PLASTIC CAP STAMPED 'KERR SURV CONTROL POINT' SET ON EAST SIDE OF N. HOUSTON AVENUE, 2.7' FROM THE BACK OF CURB AND ~33' SOUTH OF THE WILLIAM JOEL BRYAN PKWY PAVEMENT

TEMPORARY BENCHMARK 2, N-10230780.54, E-3542534.14, Z-371.94; 5/8 IR WITH RED PLASTIC CAP STAMPED 'KERR SURV CONTROL POINT' SET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF E. 26TH STREET AND N. HOUSTON AVENUE, ~5.6' FROM THE BACK OF CURB

, 3.3' FROM THE BACK OF CURB AND ~19' EAST

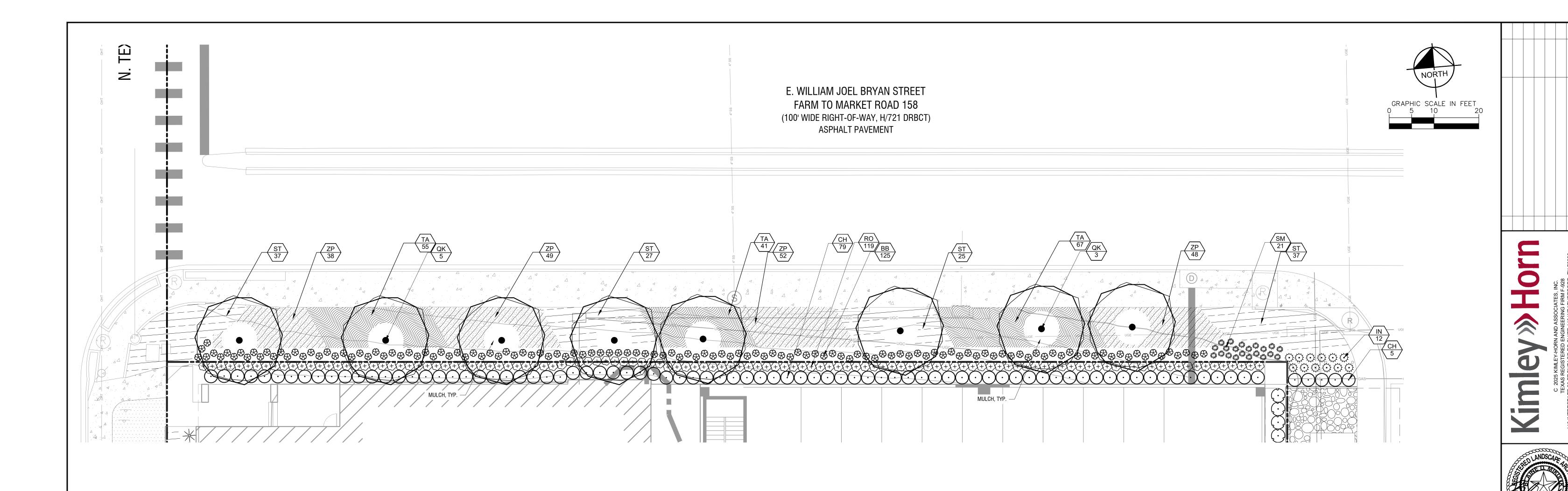
: DINATES SHOWN HEREON ARE TEXAS STATE PLAN

DISTANCES SHOWN HEREON ARE SURFACE DISTANCES UNLESS OTHERWISE NOTED. TO OBTAIN GRID DISTANCES (NOT AREAS) DIVIDE BY A COMBINED SCALE FACTOR OF 1.00010125847445 (CALCULATED USING GEOID12B)

SHEET NUMBER LP 1.00

EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO ANY TRENCHING OR EXCAVATION.

Know what's **below. Call** before you dig.



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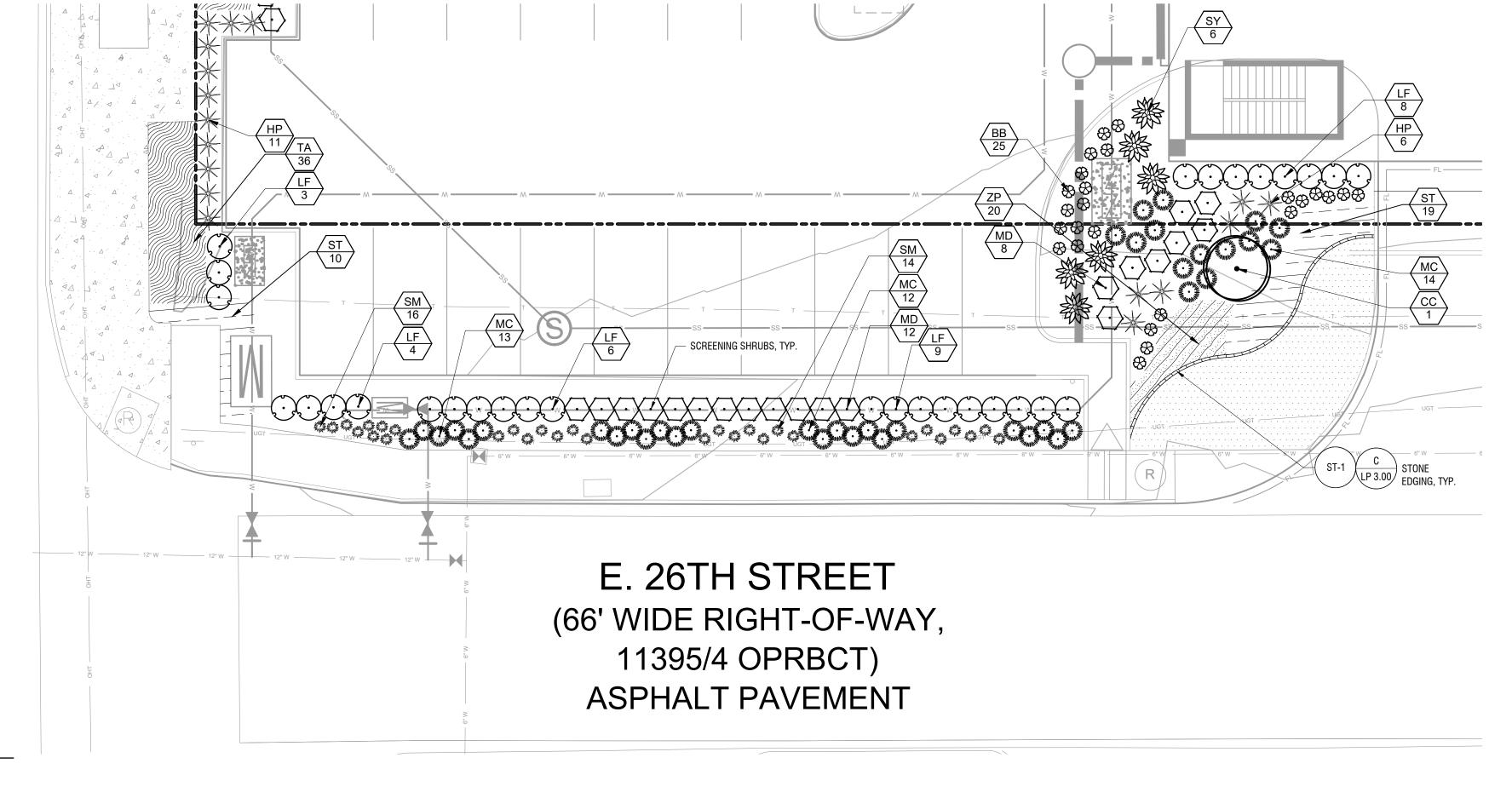
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SHEET NUMBER LP 2.00

ANDSCAPE

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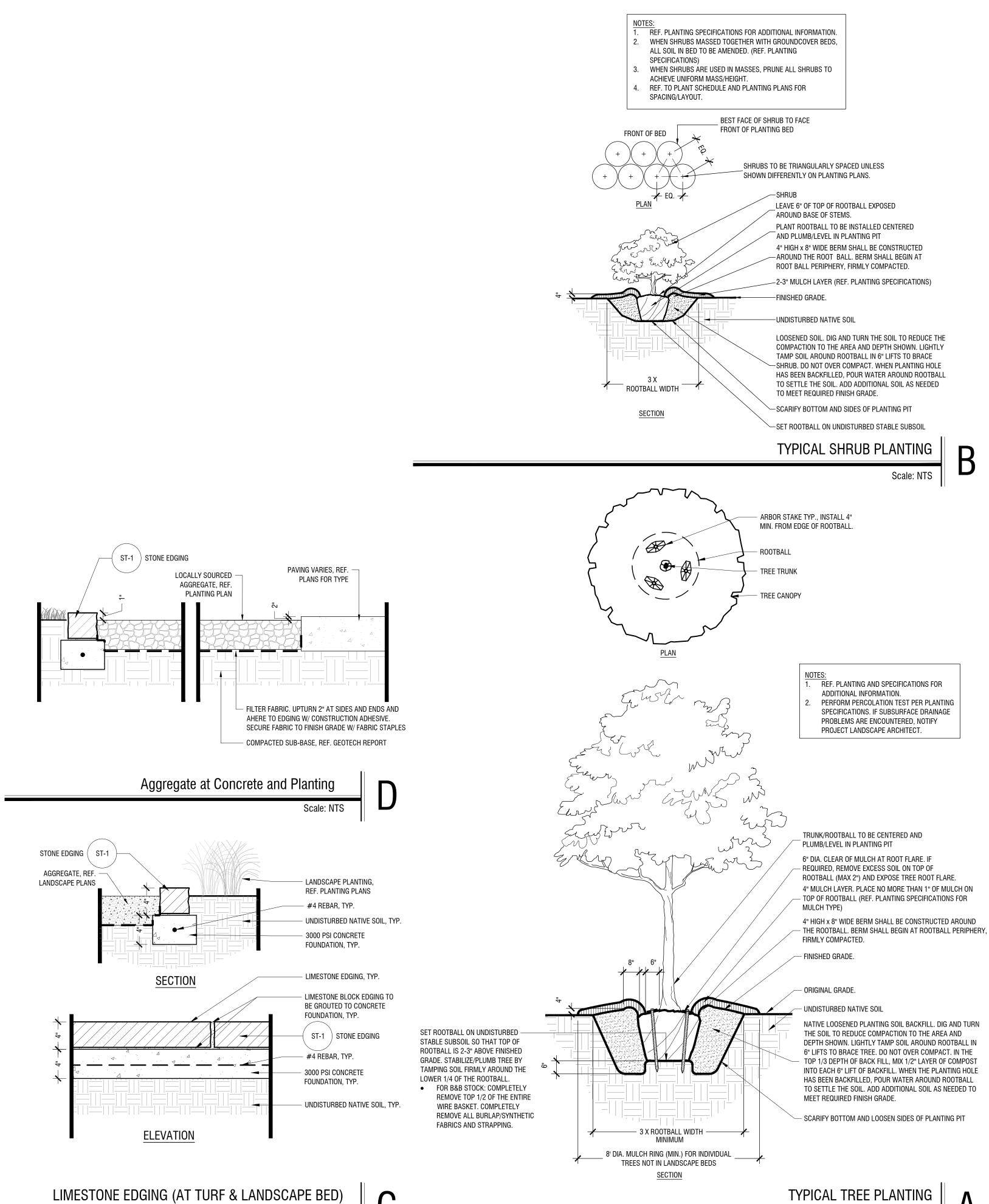
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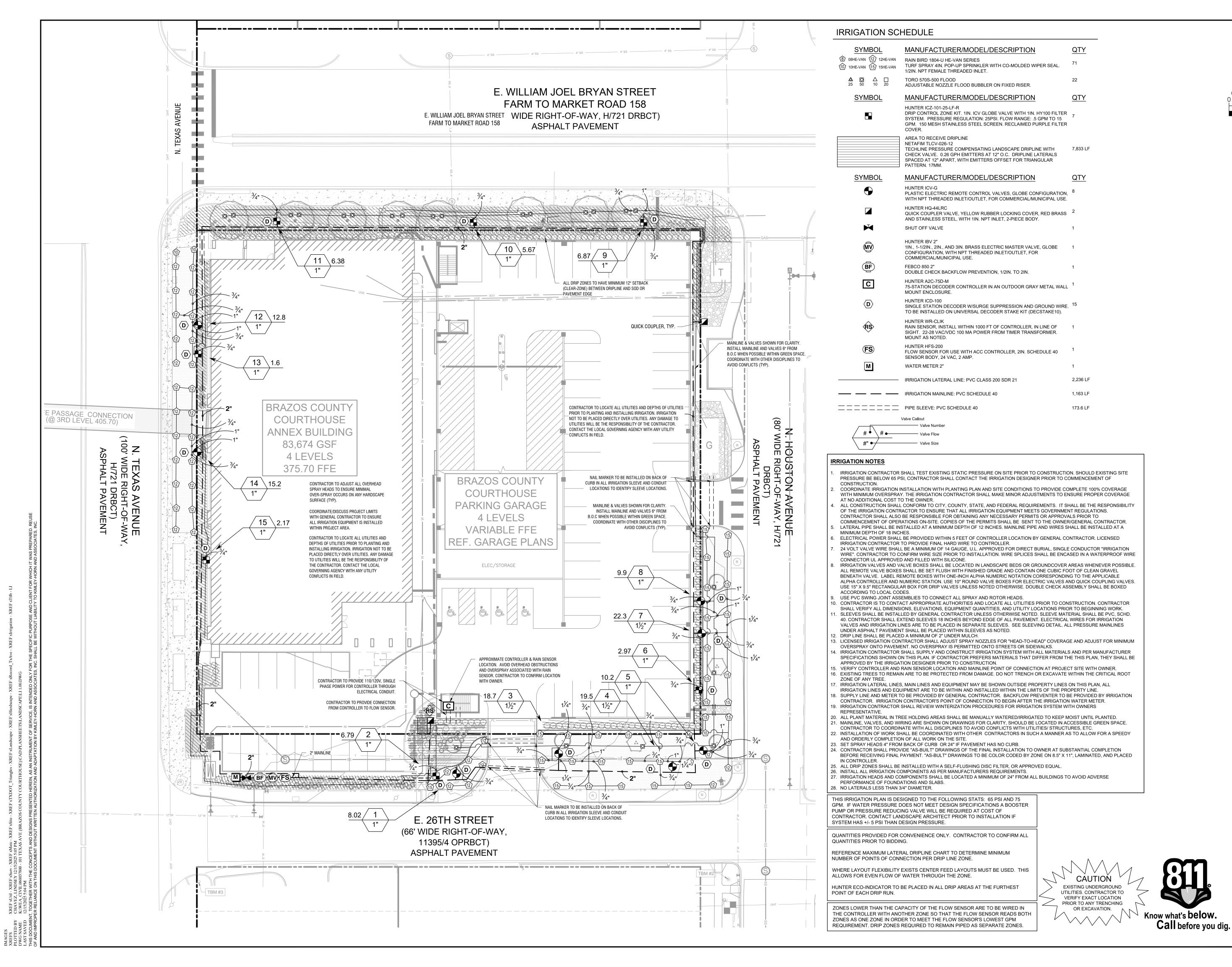
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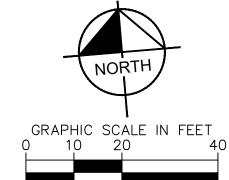
ANDSCAPE

Scale: $1 \frac{1}{2}$ " = 1'-0"

Scale: NTS

LP 3.00





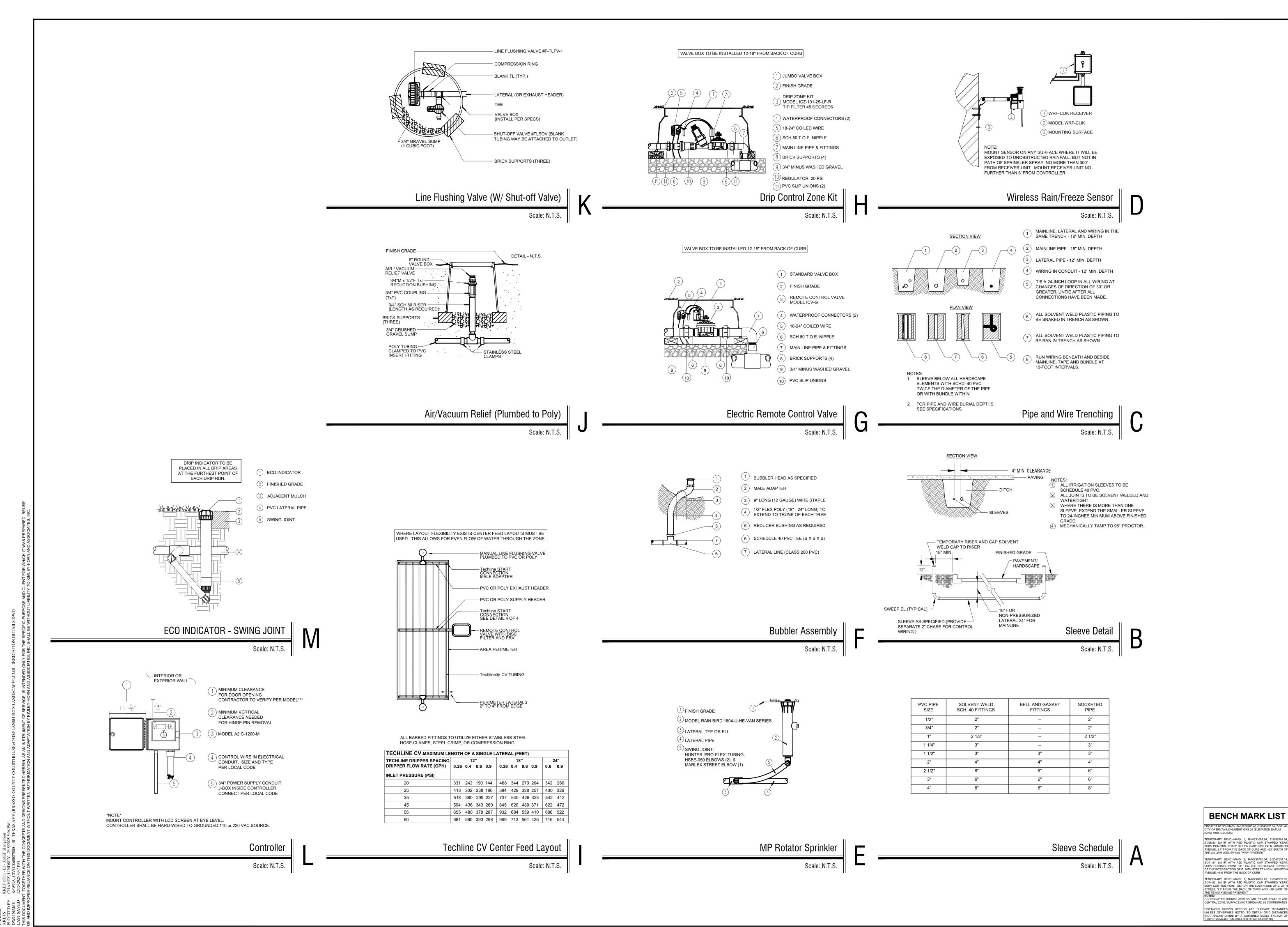
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SHEET NUMBER

B. GENERAL:

1. PERMITS AND FEES: OBTAIN ALL PERMITS AND PAY REQUIRED FEES TO ANY GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE WORK. INSPECTIONS REQUIRED BY LOCAL ORDINANCES DURING THE COURSE OF CONSTRUCTION SHALL BE ARRANGED AS REQUIRED. ON COMPLETION OF THE WORK, SATISFACTORY EVIDENCE SHALL BE FURNISHED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE TO SHOW THAT ALL WORK HAS BEEN INSTALLED IN ACCORDANCE WITH THE STATE AND LOCAL BUILDING/ PLUMBING CODE AND ALL OTHER CODE

2. APPROVAL: WHEREVER THE TERMS "APPROVE" OR "APPROVED" ARE USED IN THE SPECIFICATIONS, THEY SHALL MEAN THE APPROVAL OF THE OWNER'S CONSTRUCTION REPRESENTATIVE IN WRITING

3. BEFORE ANY WORK IS STARTED, A CONFERENCE SHALL BE HELD BETWEEN THE CONTRACTOR AND THE OWNER'S CONSTRUCTION REPRESENTATIVE CONCERNING THE WORK UNDER THIS CONTRACT.

4. COORDINATION: COORDINATE AND COOPERATE WITH OTHER CONTRACTORS TO ENABLE THE WORK TO

PROCEED AS RAPIDLY AND EFFICIENTLY AS POSSIBLE 5. INSPECTION OF SITE:

A. CONTRACTOR SHALL ACQUAINT THEMSELVES WITH ALL SITE CONDITIONS. SUBMISSION OF THEIR PROPOSAL SHALL BE CONSIDERED EVIDENCE THAT THE EXAMINATION HAS BEEN CONDUCTED. SHOULD UTILITIES NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S CONSTRUCTION REPRESENTATIVE FOR INSTRUCTIONS AS TO FURTHER ACTION. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGE THERETO ARISING FROM HIS OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN IN PLANS.

B. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS IN THE LAYOUT AS MAY BE REQUIRED TO CONNECT TO EXISTING STUBOUTS, SHOULD SUCH STUBS NOT BE LOCATED EXACTLY AS SHOWN, AND AS MAY BE REQUIRED TO WORK AROUND EXISTING WORK AT NO INCREASE IN COST TO THE OWNER'S CONSTRUCTION REPRESENTATIVE.

6. PROTECTION OF EXISTING PLANTS AND SITE CONDITIONS: THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SITE CONDITIONS TO REMAIN. SHOULD DAMAGE BE INCURRED, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

7. THE OWNER RESERVES THE RIGHT TO SUBSTITUTE, ADD, OR DELETE ANY MATERIAL OR WORK AS THE WORK PROGRESSES. ADJUSTMENTS TO THE CONTRACT PRICE SHALL BE NEGOTIATED IF DEEMED NECESSARY BY THE

8. THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS. REJECTED WORK SHALL BE REMOVED OR CORRECTED AT THE EARLIEST TIME POSSIBLE.

9. WORK SCHEDULE: WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE OWNER A WORK SCHEDULE.

10. "AS-BUILT" IRRIGATION DRAWINGS: PREPARE AN "AS-BUILT" DRAWING ON A FULL-SIZE PLAN SET WHICH SHALL SHOW DEVIATIONS FROM THE BID DOCUMENTS MADE DURING CONSTRUCTION AFFECTING THE MAIN LINE PIPE, CONTROLLER LOCATIONS, REMOTE CONTROL VALVES AND QUICK COUPLING VALVES. THE DRAWINGS SHALL ALSO INDICATE AND SHOW APPROVED SUBSTITUTIONS OF SIZE, MATERIAL AND MANUFACTURERS NAME AND CATALOG NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE DELIVERED TO THE TENANT'S CONSTRUCTION REPRESENTATIVE BEFORE FINAL ACCEPTANCE OF WORK

11. FINAL ACCEPTANCE: FINAL ACCEPTANCE OF THE WORK MAY BE OBTAINED FROM THE OWNER'S CONSTRUCTION REPRESENTATIVE UPON THE SATISFACTORY COMPLETION OF ALL WORK.

12. GUARANTEE: ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE AGAINST ALL DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP, GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL. EQUIPMENT AND WORKMANSHIP TO THE SATISFACTION OF THE TENANT'S CONSTRUCTION REPRESENTATIVE, REPAIRS, IF REQUIRED. SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.

13. A LAMINATED PLAN (8 1/2 X 11) SHOWING THE DIFFERENT IRRIGATION ZONES IN COLOR, PREPARED BY THE IRRIGATION CONTRACTOR, SHALL BE POSTED IN THE MECHANICAL ROOM OR WITHIN CONTROL! FR CARINFT

C. MATERIALS:

1. GENERAL: ALL MATERIALS THROUGHOUT THE SYSTEM SHALL BE NEW AND IN PERFECT CONDITION. 2. PLASTIC PIPING: ALL MAIN LINES AND LATERAL LINES SHALL BE CLASS 200 POLYVINYL CHLORIDE (PVC) PIPE AND SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS: ASTM D 1785, ASTM D-2241, AWWA C-900, OR AWWA C-905. SDR-PR PIPE SHALL HAVE A MINIMUM WALL THICKNESS AS REQUIRED BY SDR-26. PVC GASKETS FITTINGS SHALL CONFORMING TO ASTM D 3139. GASKETS SHALL CONFORM TO ASTM F 477. SOLVENT-WELD PVC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTMID 2466. THREADED PVC PIPE FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2464. CONFORMING TO ASTM D-1784

3. PLASTIC FITTINGS: ALL SOLVENT-WELD PVC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. SCHEDULE 40 SOLVENT-WELD, POLYVINYL CHLORIDE (PVC) STANDARD WEIGHT AS MANUFACTURED BY SLOANE, LASCO, OR APPROVED EQUAL.

4. SOLVENT CEMENT: PVC CEMENT SHALL MEET ASTM D 2564 AND PVC CLEANER-TYPE SHALL MEET ASTM F 656.

5. SPRINKLER HEAD RISERS: SCHEDULE 40 PVC FOR RISERS. PIPE SHALL BE CUT WITH A STANDARD PIPE CUTTING TOOL WITH SHARP CUTTERS, REAM ONLY TO FULL DIAMETER OF PIPE AND CLEAN ALL ROUGH EDGES OR BURRS. CUT ALL THREADS ACCURATELY WITH SHARP DIES. NOT MORE THAN THREE(3) FULL THREADS SHALL SHOW BEYOND FITTINGS WHEN PIPE IS MADE UP. ASSEMBLIES SHALL BE AS DETAILED

6. AUTOMATIC CONTROLLER: SEE LEGEND 7. REMOTE CONTROL VALVES: SEE LEGEND

8. CONTROL WIRING: CONVENTIONAL SYSTEMS TO USE 24 VOLT SOLID UL APPROVED FOR DIRECT BURIAL IN GROUND. MINIMUM WIRE SIZE: 14 GAUGE. ALL SPLICES SHALL BE MADE WITHIN VALVE BOX. TWO-WIRE SYSTEMS TO UTILIZE CONTROL WIRING PER MANUFACTURER STANDARDS.

9. SLEEVES FOR CONTROL WIRING: UNDER ALL WALKS AND PAVED AREAS AND WHERE INDICATED ON DRAWINGS. MINIMUM PVC SCHEDULE 40 PLASTIC PIPE.

10. SPRINKLER HEADS/ DRIP LINE: SEE LEGEND

11. QUICK COUPLING VALVES: SHALL BE NOTED ON DRAWINGS.

D. WORKMANSHIP:

1. LAY OUT WORK AS ACCURATELY AS POSSIBLE TO THE DRAWINGS. THE DRAWINGS, THOUGH CAREFULLY DRAWN, ARE GENERALLY DIAGRAMMATIC TO THE EXTENT THAT SWING JOINTS, OFFSETS, AND ALL FITTINGS ARE NOT

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL AND COMPLETE COVERAGE OF ALL IRRIGATED AREAS AND SHALL MAKE ANY NECESSARY MINOR ADJUSTMENTS AT NO ADDITIONAL COST TO THE OWNER'S CONSTRUCTION

3. ANY MAJOR REVISIONS TO THE IRRIGATION SYSTEM MUST BE SUBMITTED AND ANSWERED IN WRITTEN FORM, ALONG WITH ANY CHANGE IN CONTRACT PRICE.

E. INSTALLATION:

1. EXCAVATION AND TRENCHING:

A. PERFORM ALL EXCAVATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK INCLUDING UNDER THIS SECTION, INCLUDING SHORING OF EARTH BANKS TO PREVENT CAVE-INS. RESTORE ALL SURFACES, EXISTING UNDERGROUND INSTALLATIONS, ETC., DAMAGED OR CUT AS A RESULT OF THE EXCAVATIONS TO AND IN A MANNER

B. TRENCHES SHALL BE MADE WIDE ENOUGH TO ALLOW A MINIMUM OF 6 INCHES BETWEEN PARALLEL PIPE LINES. TRENCHES FOR PIPE LINES SHALL BE MADE OF SUFFICIENT DEPTHS TO PROVIDE THE MINIMUM COVER FROM FINISH **GRADE AS FOLLOWS:**

1) 24" MINIMUM BELOW BOTTOM PAVEMENT PER SLEEVING INSTALLATION DETAIL FOR MAIN LINE.18" MINIMUM FOR NON-PRESSURIZED LATERALS. 2) MINIMUM COVER OVER IRRIGATION LINES TO HEADS/ DRIPLINE EXCEPT VEHICLE TRAFFIC

AREAS ARE AS FOLLOWS: 12" COVER OVER LATERALS

18" COVER OVER MAINLINE

C. MAINTAIN ALL WARNING SIGNS, SHORING, BARRICADES, FLARES AND RED. LANTERNS AS REQUIRED BY THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY AND LOCAL ORDINANCES.

2. PIPE LINE ASSEMBLY A. INSTALL REMOTE CONTROL VALVES WHERE SHOWN AND GROUP TOGETHER WHERE PRACTICAL, PLACE NO CLOSER THAN 12-18 INCHES TO WALK EDGES, WALLS, AND OTHER PAVEMENTS. PLACE A MINIMUM OF 24" FROM

B. PLASTIC PIPE AND FITTINGS SHALL BE SOLVENT WELDED USING SOLVENTS AND METHODS RECOMMENDED BY MANUFACTURER OF THE PIPE, EXCEPT WHERE SCREWED CONNECTIONS ARE REQUIRED. PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED OF DIRT, DUST AND MOISTURE BEFORE APPLYING SOLVENT WITH A NON-SYNTHETIC

C. PIPE MAY BE ASSEMBLED AND WELDED ON THE SURFACE. SNAKE PIPE FROM SIDE TO SIDE OF TRENCH BOTTOM TO ALLOW FOR EXPANSION AND CONTRACTION.

D. MAKE ALL CONNECTIONS BETWEEN PLASTIC PIPE AND METAL VALVES OR STEEL PIPE WITH THREADED FITTINGS USING PLASTIC MALE ADAPTERS.

1. PIPE SIZES 2 1/2 INCH OR SMALLER SHALL HAVE BELL AND SOCKET JOINTS. 2. PIPE SIZES LARGER THAN 2 1/2 INCH SHALL HAVE SNAP CONNECTIONS WITH RUBBER GASKET JOINTS. 3. THRUST BLOCKING SHALL BE REQUIRED WHEN PIPE SIZE IS 4" OR GREATER.

SPRINKLER HEADS/ DRIPLINE:

A. INSTALL ALL SPRINKLERS/ DRIPLINE AS DETAILED ON DRAWINGS. B. DO NOT SCALE PLANS FOR EXACT HEAD LOCATION.

4. CLOSING OF PIPE AND FLUSHING LINES:

A. CAP OR PLUG ALL OPENINGS AS SOON AS LINES HAVE BEEN INSTALLED TO PREVENT THE ENTRANCE OF MATERIALS THAT WOULD OBSTRUCT THE PIPE. LEAVE IN PLACE UNTIL REMOVAL IS NECESSARY FOR COMPLETION

B. THOROUGHLY FLUSH OUT ALL WATER LINES BEFORE INSTALLING HEADS, DRIPLINE, VALVES AND OTHER

C. TEST IN ACCORDANCE WITH PARAGRAPH ON HYDROSTATIC TESTS. D. UPON COMPLETION OF THE TESTING, THE CONTRACTOR SHALL COMPLETE ASSEMBLY AND ADJUST SPRINKLER HEADS FOR PROPER DISTRIBUTION.

5. INSPECTIONS:

10" PLASTIC BOX

3/4" MINUS

WASHED GRAVEL

LOCKING ISOLATION/GATE VALVE -

STANDARD VALVE -

NEW WATER METER

BRICK SUPPORTS TYP.

A. SPRINKLER/ DRIPLINE LAYOUT AND SPACING INSPECTION: VERIFICATION THAT THE IRRIGATION DESIGN IS ACCURATELY INSTALLED IN THE FIELD. IT WILL ALSO PROVIDE FOR ALTERATION OR MODIFICATION OF THE SYSTEM TO MEET FIELD CONDITIONS. SPACING SHOULD BE WITHIN 5% OF THE DESIGN SPACING B. PIPE INSTALLATION DEPTH INSPECTION: ALL PIPES IN THE SYSTEM SHALL BE INSTALLED TO DEPTHS AS PREVIOUSLY DESCRIBED IN SECTION 'E' OF THESE SPECIFICATIONS.

C. OPEN TRENCH INSPECTION: THE TRENCH AND ALL JOINTS AND EVERY TRANSITION IN PIPE SIZE, WILL BE OPEN WHERE OPEN TRENCH INSPECTION IS REQUIRED

D. INSPECTIONS WILL BE PERFORMED THROUGHOUT THE DURATION OF THE INSTALLATION. INSPECTION MAY BE MADE BY THE GOVERNING AGENCY/ OWNER TO ENSURE COMPLIANCE WITH DESIGN INTENT, SPECIFICATIONS, AND

JUMBO BOX -

FEBCO 850 DOUBLE

CHECK ASSEMBLY

BACKFLOW PREVENTER

PRESSURE REDUCING -

FINISHED GRADE -

-WASHED GRAVEL

A. REQUEST THE PRESENCE OF THE OWNER AND/OR OWNERS REPRESENTATIVE IN WRITING AT LEAST 48 HOURS IN B. TESTING TO BE ACCOMPLISHED AT THE EXPENSE OF THE CONTRACTOR AND IN THE PRESENCE OF THE OWNER.

C. CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE.

D. APPLYING A CONTINUOUS AND STATIC WATER PRESSURE OF 125 PSI WHEN WELDED PLASTIC JOINTS HAVE CURED AT LEAST 3 HOURS AND WITH THE RISERS CAPPED AS FOLLOWS:

2) NO PRESSURE LOSS IS ALLOWED FOR SOLVENT WELD MAINLINE/ PIPE.

E. FOR PVC AND O-RING GASKET PIPE THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FOLLOWING FORMULA:

IN WHICH: L=ALLOWABLE LEAKAGE, IN GALLONS PER HOUR

1) MAIN LINES AND SUBMAINS TO BE TESTED

N=NUMBER OF JOINTS D=PIPE DIAMETER IN INCHES

P=AVERAGE TEST PRESSURE IN PSI GAUGE F. REPAIR LEAKS RESULTING FROM TESTS.

7. AUTOMATIC CONTROLLERS:

A. CONNECT REMOTE CONTROL VALVES TO CONTROLLER IN A CLOCKWISE SEQUENCE TO CORRESPOND WITH STATION SETTING BEGINNING WITH STATIONS 1, 2, 3, ETC.

A. INSTALL CONTROL WIRING, SPRINKLER MAINS AND LATERALS IN COMMON TRENCHES WHEREVER POSSIBLE.

B. INSTALL CONTROL WIRES AT LEAST 18" BELOW FINISHED GRADE AND SNAKE WIRE SIDE TO SIDE IN TRENCH BELOW MAIN LINE. EXPANSION CURLS SHALL BE PROVIDED WITHIN THREE (3') FEET OF EACH WIRE CONNECTION TO SOLENOID AND AT LEAST EVERY THREE HUNDRED (300') FEET IN LENGTH. (EXPANSION CURLS ARE FORMED BY WRAPPING AT LEAST FIVE (5) TURNS OF WIRE AROUND A ROD OR PIPE 1" OR MORE IN DIAMETER, THEN WITHDRAWING THE ROD).

C. CONTROL WIRE SPLICES WILL BE ALLOWED ONLY RUNS OVER 1000 FT. CONNECTIONS SHALL BE IN VALVE BOX AND LOCATION TO BE SHOWN ON AS-BUILT PLANS. D. ALL WIRING PASSING UNDER EXISTING OR FUTURE PAVING, CONSTRUCTION, ETC., SHALL BE ENCASED IN

PLASTIC OR GALVANIZED STEEL CONDUIT EXTENDING AT LEAST 24" BEYOND EDGES OF PAVING OR CONSTRUCTION. E. CONTRACTOR SHALL RUN TWO SPARE WIRES IN EACH DIRECTION FROM CONTROLLER TO FARTHEST VALVE TO

9. BACKFILL AND COMPACTING:

A. AFTER SYSTEM IS OPERATING AND REQUIRED TESTS AND INSPECTIONS HAVE BEEN MADE. BACKFILL EXCAVATIONS AND TRENCHES WITH CLEAN SOIL. FREE OF RUBBISH. INITIAL BACKFILL MATERIAL TO 6 INCHES ABOVE THE TOP OF PIPE SHALL BE FREE OF ROCKS OR STONES LARGER THAN ONE INCH IN DIAMETER FINAL BACKFILL MATERIAL SHALL BE FREE OF ROCKS OR STONES LARGER THAN 3 INCHES IN DIAMETER

B. BACKFILL FOR ALL TRENCHES, REGARDLESS OF THE TYPE OF PIPE COVERED, SHALL BE COMPACTED TO

C. COMPACT TRENCHES IN AREAS TO BE PLANTED BY THOROUGHLY FLOODING THE BACKFILL. JETTING PROCESS MAY BE USED IN THOSE AREAS.

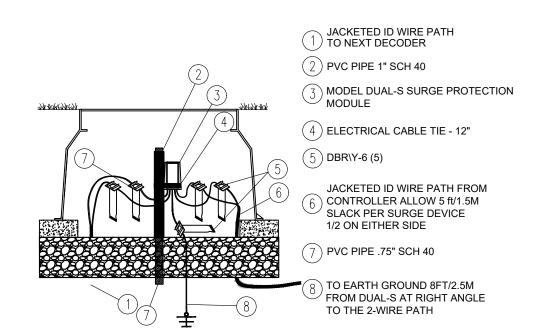
D. DRESS OFF ALL AREAS TO FINISH GRADES. 10. PROTECTIVE RADIUS OF EXISTING TREES:

A AN AUGER IS TO BE USED TO TUNNEL UNDER EXISTING TREES IF IRRIGATION IS INSTALLED WITHIN THE PROTECTIVE RADIUS OF EXISTING TREES AND ONLY IF THERE IS NO OTHER OPTION OR TO DO SO CREATES AN UNREASONABLE HARDSHIP.

1. REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM WORK OF THIS SECTION.

10" PLASTIC BOX -

MASTER VALVE -



DUAL-S SURGE DEVICE

VALVE BOX -

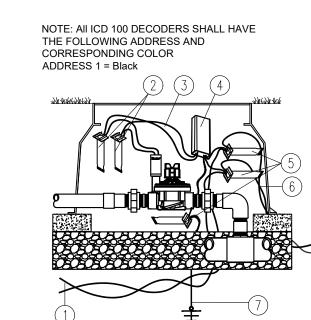
FLOW SENSOR -

-3/4" MINUS WASHED

Double Check Assembly Backflow Preventer with Pressure Reducer

Scale: N.T.S.

Scale: N.T.S



1 ID WIRE PATH TWISTED TO NEXT DECODER) DBY (2)

TWO BLACK WIRES TO

VALVE SOLENOID/UP TO 150 FT./45M

4) MODEL ICD-100 DECODER DBY-6 (3)

CONTROLLER ALLOW 5 ft/1.5M SLACK PER DECODER/1/2 ON EITHER SIDE OF DECODER

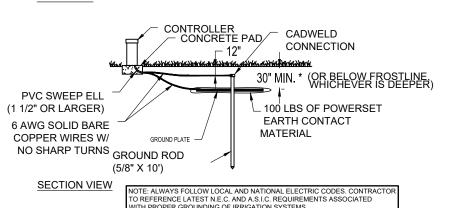
12 DECODERS OR

EVERY 1000ft./330M.

) TO EARTH GROUND INSTALLED

PER ASIC GUIDELINES. 1 PER

ICD 100 DECODER Scale: N.T.S. COPPER GROUND PLATE -(4" X 96" X .0625") #6 AWG SOLID BARE COPPER WIRE SPHERE OF INFLUENCE \ BOUNDARIES DO NOT INSTALL PAIGE GROUND ANY OTHER \ROD (5/8"/X 10') WIRES OR CABLE WITHIN THE SPHERE OF INFLUENCE √ #6 AWG SOLID BARE COPPER WIRE PLAN VIEW NTROLLER CONCRETE PAD/ CADWELD CONNECTION



CONTROLLER GROUNDING

Scale: N.T.S

PROJECT BENCHMARK, N-10230985.46, E-3545537.34, Z-331.46 FEMPORARY BENCHMARK 2. N-10230780.54, E-3542534.14. Z-371.94; 5/8 IR WITH RED PLASTIC CAP STAMPED KERR SURV CONTROL POINT' SET ON THE SOUTHEAST CORNEF OF THE INTERSECTION OF E. 26TH STREET AND N. HOUSTON AVENUE, ~5.6' FROM THE BACK OF CURB MPORARY BENCHMARK 3, N-10230801.23, E-3542272.0 74.93; 5/8 IR WITH RED PLASTIC CAP STAMPED 'KER RY CONTROL POINT' SET ON THE SOUTH SIDE OF E. 26T REET, 3.3' FROM THE BACK OF CURB AND ~19' EAST C

ILESS OTHERWISE NOTED. TO OBTAIN GRID DISTANCE OT AREAS) DIVIDE BY A COMBINED SCALE FACTOR C

BENCH MARK LIST

IE TEXAS AVENUE PAVEMENT ISTANCES SHOWN HEREON ARE SURFACE DISTAN

IRRIGATION

SHEET NUMBER

IRRIGATION SCHEDULE

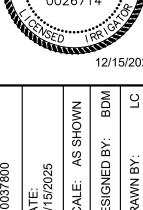
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>		
8 08HE-VAN (12) 12HE-VAN (10) 10HE-VAN (15) 15HE-VAN	RAIN BIRD 1804-U HE-VAN SERIES TURF SPRAY 4IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET.	71		
△ ○ △ □ 25 50 10 20	TORO 570S-500 FLOOD ADJUSTABLE NOZZLE FLOOD BUBBLER ON FIXED RISER.			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION			
	HUNTER ICZ-101-25-LF-R DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: .5 GPM TO 15 GPM. 150 MESH STAINLESS STEEL SCREEN. RECLAIMED PURPLE FILTER COVER.	7		
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-026-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.26 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	7,833 LF		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>		
•	HUNTER ICV-G PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	8		
	HUNTER HQ-44LRC QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1IN. NPT INLET, 2-PIECE BODY.	2		
	SHUT OFF VALVE	1		
MV	HUNTER IBV 2" 1IN., 1-1/2IN., 2IN., AND 3IN. BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.			
BF	FEBCO 850 2" DOUBLE CHECK BACKFLOW PREVENTION, 1/2IN. TO 2IN.			
C	HUNTER A2C-75D-M 75-STATION DECODER CONTROLLER IN AN OUTDOOR GRAY METAL WALL MOUNT ENCLOSURE.			
(D)	HUNTER ICD-100 SINGLE STATION DECODER W/SURGE SUPPRESSION AND GROUND WIRE. TO BE INSTALLED ON UNIVERSAL DECODER STAKE KIT (DECSTAKE10).	15		
RS	HUNTER WR-CLIK RAIN SENSOR, INSTALL WITHIN 1000 FT OF CONTROLLER, IN LINE OF SIGHT. 22-28 VAC/VDC 100 MA POWER FROM TIMER TRANSFORMER. MOUNT AS NOTED.			
FS	HUNTER HFS-200 FLOW SENSOR FOR USE WITH ACC CONTROLLER, 2IN. SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.			
M	WATER METER 2"	1		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	2,236 LF		
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,163 LF		
======	PIPE SLEEVE: PVC SCHEDULE 40	173.6 LF		
	Valve Callout			
# # # #	valve runnuei			

VALVE SCHEDULE

NUMBER	MODEL	SIZE	<u>TYPE</u>	<u>GPM</u>	WIRE	DESIGN PSI	FRICTION LOSS	VALVE LOSS	<u>PSI</u>	PSI @ POC	PRECIP
1 2 3 4 5 6 7 8 9 10 11	HUNTER ICZ-101-25-LF-R HUNTER ICV-G HUNTER ICV-G HUNTER ICV-G HUNTER ICZ-101-25-LF-R HUNTER ICV-G HUNTER ICV-G HUNTER ICZ-101-25-LF-R HUNTER ICZ-101-25-LF-R HUNTER ICZ-101-25-LF-R HUNTER ICZ-101-25-LF-R HUNTER ICZ-101-25-LF-R	1" 1" 1-1/2" 1-1/2" 1" 1" 1" 1" 1" 1" 1"	AREA FOR DRIPLINE TURF SPRAY TURF SPRAY TURF SPRAY TURF SPRAY AREA FOR DRIPLINE TURF SPRAY BUBBLER AREA FOR DRIPLINE AREA FOR DRIPLINE AREA FOR DRIPLINE TURF SPRAY	8.02 6.79 18.65 19.47 10.23 2.97 22.28 9.9 6.87 5.67 6.38 12.79	48.1 59.1 118.7 169.3 193.3 221.5 251.5 267.2 485.7 565.3 467.8 381.9	35 30 30 30 30 35 30 35 30 35 35 35 35 35	0.8 0.19 0.78 0.5 0.63 0.18 0.93 4.05 0.46 0.27 0.41 0.52	6.81 2.68 1.5 1.5 3 3.64 1.5 2.99 6.12 5.4 5.83	42.6 32.9 32.3 32.0 33.6 38.8 32.4 37.0 41.6 40.7 41.2 33.5	48.9 39.1 38.7 38.5 39.9 45.0 39.2 43.3 47.9 46.9 47.5 39.8	0.41 in/h 1.39 in/h 1.31 in/h 1.15 in/h 1.23 in/h 0.41 in/h 1.58 in/h 1.63 in/h 0.41 in/h 0.41 in/h 0.41 in/h 1.45 in/h
13 14 15	HUNTER ICZ-101-25-LF-R HUNTER ICV-G HUNTER ICZ-101-25-LF-R Common Wire	1" 1" 1"	AREA FOR DRIPLINE TURF SPRAY AREA FOR DRIPLINE	1.6 15.23 2.17	366.2 317.8 264.2 1,163	35 30 35	0.1 2.46 0.09	3 3 3.11	38.1 35.5 38.2	44.3 41.8 44.4	0.41 in/h 1.47 in/h 0.41 in/h

CRI	TICAL	ANAL	_YSIS

CRITICAL ANALY	SIS
Generated:	2025-12-15 16:24
P.O.C. NUMBER: 01 Water Source Information:	
FLOW AVAILABLE	
Water Meter Size: Flow Available	2" 120 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	60 PSI
Elevation Change:	5.00 ft
Service Line Size:	4"
Length of Service Line:	20 ft
Pressure Available:	58 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	22.28 GPM
Flow Available at POC:	120 GPM
Residual Flow Available:	97.72 GPM
Critical Station:	1
Design Pressure:	35 PSI
Friction Loss:	0.73 PSI
Fittings Loss:	0.07 PSI
Elevation Loss:	0 PSI
Loss through Valve:	6.81 PSI
Pressure Req. at Critical Station:	42.6 PSI
Loss for Fittings:	0.0 PSI
Loss for Main Line:	0.02 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	5 PSI
Loss for Master Valve:	0.8 PSI
Loss for Water Meter:	0.4 PSI
Critical Station Pressure at POC:	48.8 PSI
Pressure Available:	58 PSI
Residual Pressure Available:	9.15 PSI



BENCH MARK LIST TEMPORARY BENCHMARK 2, N-10230780.54, E-3542534.14, Z-371.94; 5/8 IR WITH RED PLASTIC CAP STAMPED 'KERR SURV CONTROL POINT' SET ON THE SOUTHEAST CORNER OF THE INTERSECTION OF E. 26TH STREET AND N. HOUSTON AVENUE, ~5.6' FROM THE BACK OF CURB

TEMPORARY BENCHMARK 3, N-10230801.23, E-3542272.01, Z-374.93; 5/8 IR WITH RED PLASTIC CAP STAMPED 'KERR SURV CONTROL POINT' SET ON THE SOUTH SIDE OF E. 26TH STREET, 3.3' FROM THE BACK OF CURB AND ~19' EAST OF THE TEXAS AVENUE PAVEMENT

NOTES:
COORDINATES SHOWN HEREON ARE TEXAS STATE PLANE CENTRAL ZONE SURFACE (NOT GRID) NAD 83 COORDINATES

DISTANCES SHOWN HEREON ARE SURFACE DISTANCES UNLESS OTHERWISE NOTED. TO OBTAIN GRID DISTANCES (NOT AREAS) DIVIDE BY A COMBINED SCALE FACTOR OF 1.00010125847445 (CALCULATED USING GEOID12B)

SHEET NUMBER