

3410 Taft Boulevard Wichita Falls, Texas 76308-2099

ADDENDUM TWO

July 26, 2016

TO WHOM IT MAY CONCERN

Reference: RFP #735-16-8163 Legacy Hall Landscaping

This letter serves as addendum two to the above referenced RFP. Please note the narrative and the drawings, attached.

- Final day for questions is August 2, 2016.
- The new date for bids to be received is now August 9, 2016.
- Schedule to be included with your bid per the order for the new bid sheet, attached, with the start and completion of each item on the bid sheet..

If you have any questions please contact me.

Thank You.

Director of Purchasing/Contract Management

stephen.shelley@mwsu.edu

940 397-4110

BID SHEET RFP #735-16-8163 LEAGCY HALL LANDSCAPING

Base Bid:
Top Soil, Bed Prepared Soil Mix, Sod and Hydromulch (excluding Alternate 1 area)
Adder #1:
Irrigation System (excluding Alternate 1 area)
Adder #2:
Shrubs and Bed Mulch (excluding Alternate 1 area)
Adder #3:
Trees Installed Per Planting Details (excluding Alternate 1 area)
Adder #4:
Alternate 1 - Killingsworth Area Complete (soil, sod, bushes, trees, irrigation and sand volleyba court) (Adder #4 will only occur if all other adders are being done.)
Base Bid with Adders # 1 and 2:
Base Bid with Adders # 1, 2 and 3:



BID DOCUMENT ADDENDUM

Page 1 of 1

Project: Midwestern State University

New Residence Hall

Site Improvements - Bid Package 02

RFP No.: #735-16-8163 **Date of Issuance**: July 22, 2016

You are instructed to read and to note the following described changes, corrections, clarifications, omissions, deletions, additions, approvals and statements pertinent to the Contract Bid and Construction Documents.

Addendum No.2 is a part of the Contract Bid and Construction Documents and shall govern in the performance of the Work.

General:

- 1. C102 Site Grading Plan (Attachment) is included "For Reference Only" to provide the following information:
 - a. Final finish grades
 - b. Location of storm water inlets that will require riser extensions to meet final finish grades.
- 2. PROVIDE and INSTALL the following storm water riser extension drains at all storm water inlets as indicated on C102 to meet final finish grades:
 - a. Nyloplast, 8in-30in Riser Extension. (Cut Sheet Attached). Size extension per already installed storm water riser and grates.

Addendum No.: 02

3. CLARIFICATION: Landscape contractor to provide 4" of topsoil across the entire project site. Topsoil is to meet the performance specifications of Section 32 9200 Turf and Grasses.

Article 2-1, Drawings, L100.02, Landscape Plan, Bid Package 2 (Attachment):

- A. REPLACE Sheet L100.02 with the following Sheet L100.02, Rev 1. Changes to the sheet include the following:
 - 1. Modified quantity of shrubs and groundcover.

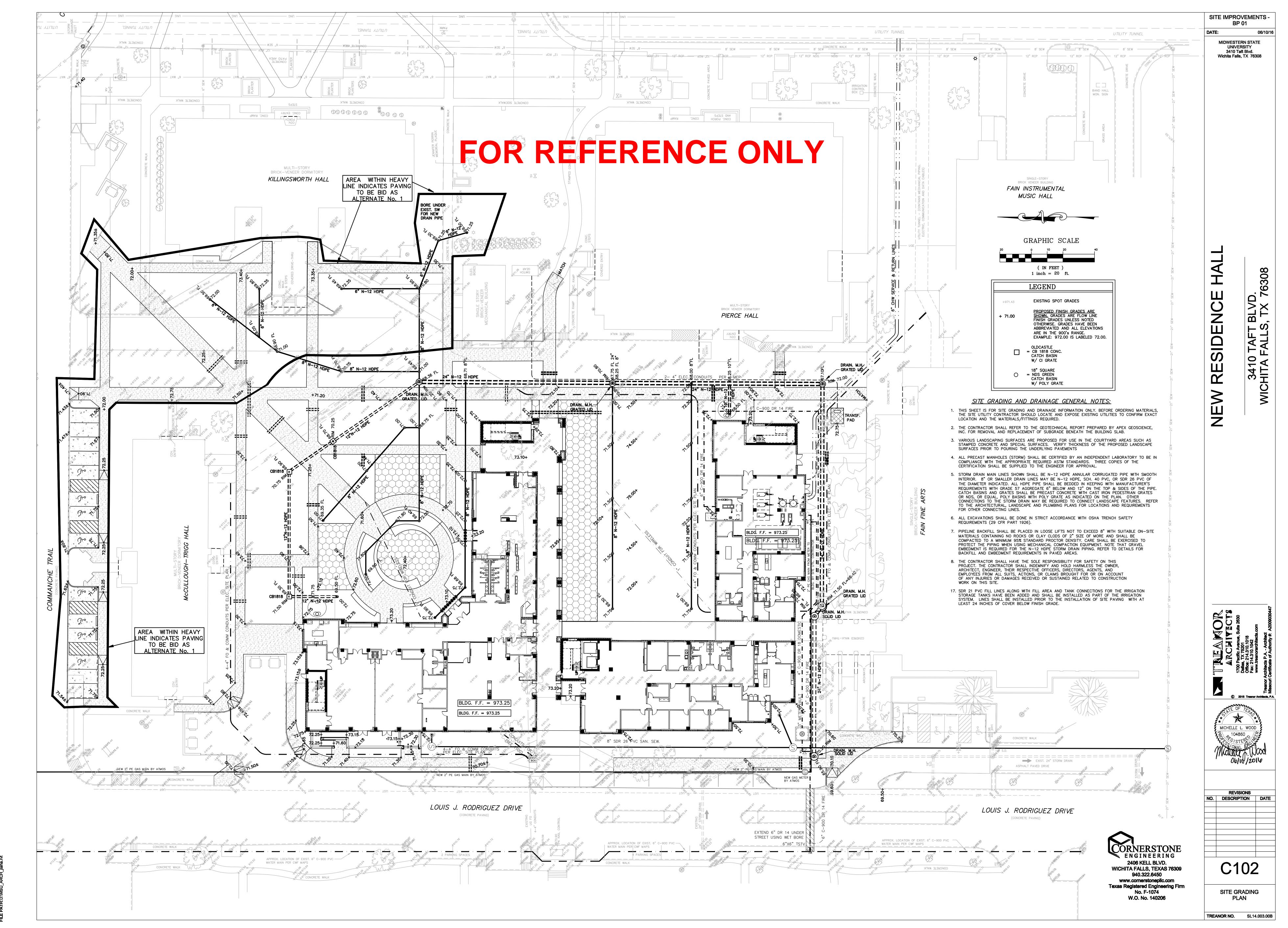
Article 2-2, Drawings, L200.01, Irrigation Plan, Bid Package 2 (Attachment):

A. ADD Sheet 200.01 – Irrigation Plan.

Article 2-3, Drawings, L201.02, Irrigation Plan, Alternate, Bid Package 2 (Attachment):

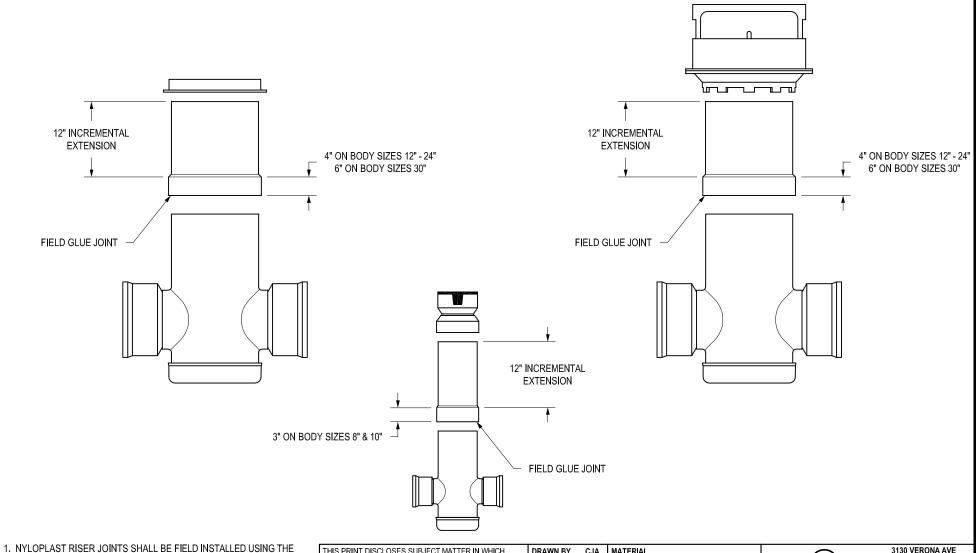
A. ADD Sheet 201.01 – Irrigation Plan, Alternate.

End of Addendum No. 2 Attachments



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NYLOPLAST RISER EXTENSION: 29 _ _ AG



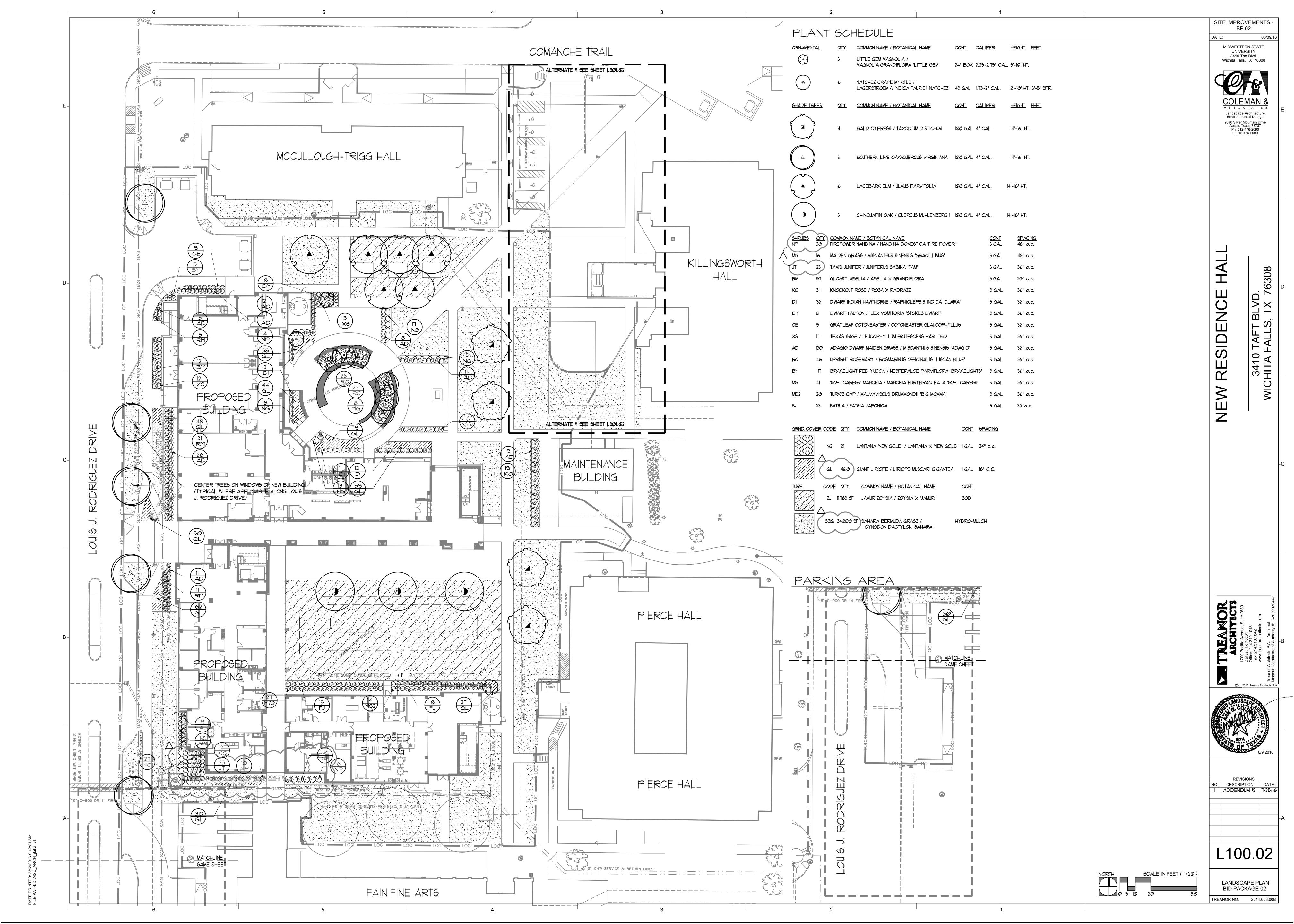
- GUIDELINES OUTLINED IN ASTM D2855.
- PVC CEMENT USED SHALL MEET THE REQUIREMENTS OF ASTM D2564.
- 3. PVC PRIMER USED SHALL MEET THE REQUIREMENTS OF ASTM F656.

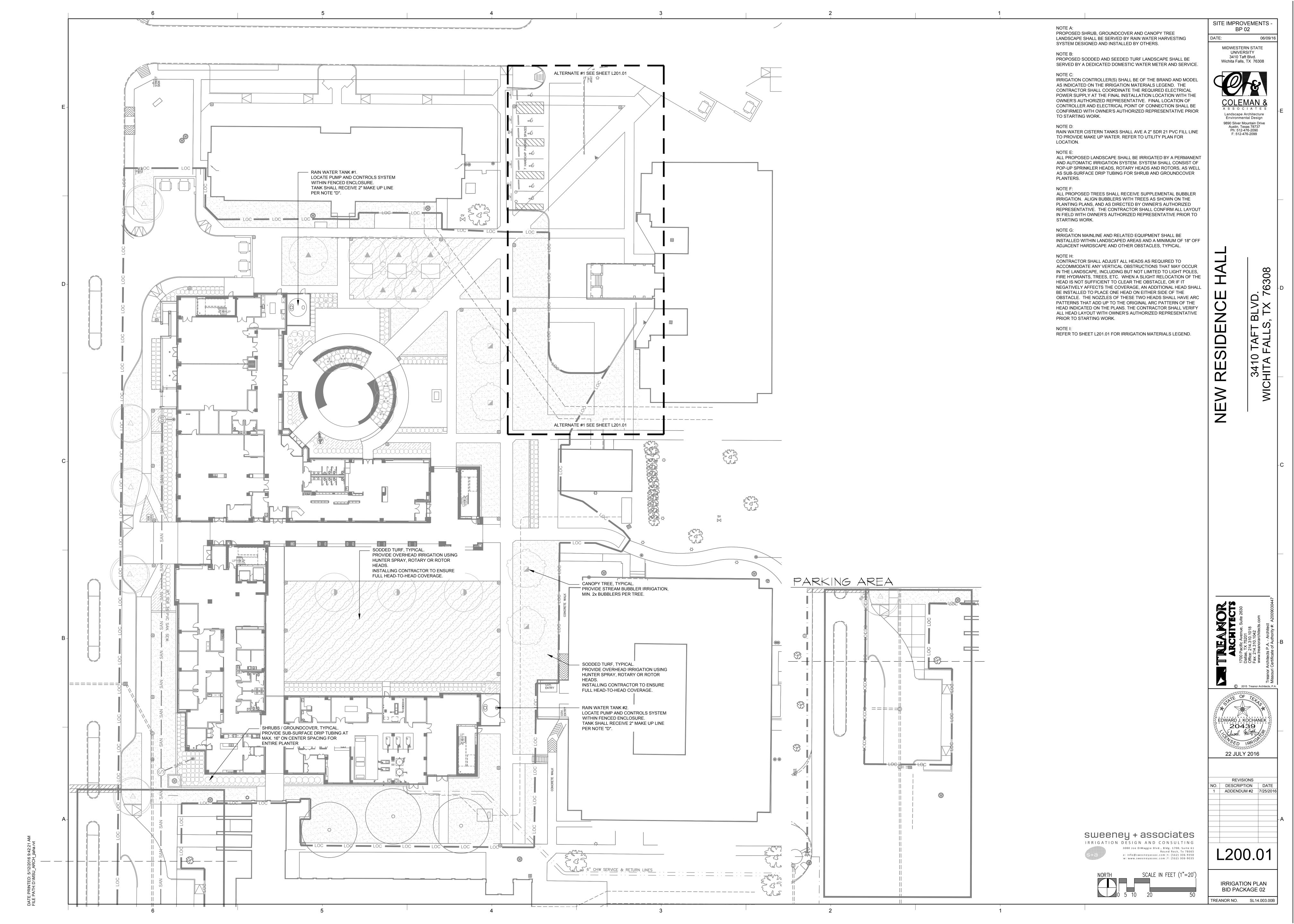
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DRAWN BY CJA	MATERIAL	3130 VERONA AVE
OATE 9-18-00		BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2449 WWW DVIO 198-145 COTT
REVISED BY JJC	PROJECT NO./NAME	www.nyloplast-us.com
		TITLE
OATE 1-30-12		8 IN - 30 IN RISER EXTENSION
OWG SIZE A	SCALE 1:20 SHEET 1 OF	1 DWG NO. 7001-110-065 REV D





IRRIGATION NOTES

- 1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- 5. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- 6. PROPOSED DOMESTIC WATER CONNECTION SERVING TURF LANDSCAPE SHALL RECEIVE A BACKFLOW PREVENTER AT THE POINT OF CONNECTION. FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 7. EACH RAIN WATER TANK SHALL RECEIVE MAKE UP FILL LINE. SEE UTILITY PLAN FOR MORE INFORMATION.
- 8. AUTOMATIC CONTROLLER(S) SHALL BE INSTALLED WITHIN FENCE ENCLOSURES HOUSING THE RAIN WATER CISTERN TANKS AS NOTED ON SHEET L200.01.
- 9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- 10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING 2.5 TIMES THE DIAMETER OF THE PIPE CARRIED (MINIMUM 4"). SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. SLEEVES TO EXTEND AT LEAST 24" PAST THE EDGE OF THE PAVING.
- 11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- 12. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- 13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
- 14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

IRRIGATION MATERIAL LEGEND

POP-UP SPRIN	IKLER HEADS FOR LANDSCAPES 5' - 15' IN WIDTH. 6" POP-UPS TO BE USED IN TURF LANDSCAPE				
HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 5Q/5H NOZZLES	.12, .23	30	5 FT	2.05 IN./HR.
HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 8Q/8T/8H/8F NOZZLES	.24, .32, .47, .97	30	8 FT	1.69 IN./HR.
HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 10Q/10T/10H/10F NOZZLES	.42, .57, .88, 1.59	30	10 FT	1.77 IN./HR.
HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 12Q/12T/12H/12F NOZZLES	.67, .89, 1.30, 2.70	30	12 FT	2.09 IN./HR.
HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 15Q/15T/15H/15F NOZZLES	.97, 1.30, 1.86, 3.75	30	15 FT	1.85 IN./HR.
HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH LCS/RCS/SS530 NOZZLES	.65, 1.30	30	4X15 FT	2.09 IN./HR.
POP-UP STREAM BUBBLER FOR ALL PROPOSED TREES					
HUNTER	PROS-04-PRS30-CV 4" POP-UP BUBBLER HEAD WITH A RAIN BIRD 5Q-B STREAM BUBBLER NOZZLE, EACH SYMBOL REPRESENTS TWO BUBBLERS PER TREE, PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL.	.50 (1.0)	30	N/A	N/A

PSI RADIUS PREC. RATE

POP-UP ROTARY I	HEADS FOR LANDSCAPES 15' - 23' IN WIDTH. 6" POP-UPS TO BE USED IN TURF LANDSCAPE				
HUNTER	PROS-06-PRS40-CV POP-UP TURF HEAD W/ MP1000 NOZZLE	.19, .37, .75	40	14 FT	0.39 IN./HR.
HUNTER	PROS-06-PRS40-CV POP-UP TURF HEAD W/ MP2000 NOZZLE	.40, .74, 1.47	40	20 FT	0.39 IN./HR.
HUNTER	PROS-06-PRS40-CV POP-UP TURF HEAD W/ MP3000 NOZZLE	.86, 1.82, 3.64	40	30 FT	0.39 IN./HR.
HUNTER	PROS-06-PRS40-CV POP-UP TURF HEAD W/ MP[LCS/RCS/SS530] NOZZLES	.22, .44	40	4X15 FT 4X30 FT	0.47 IN./HR.

POP-UP ROTO	OR HEADS FOR LANDSCAPES 23' - 35' IN WIDTH. 4" POP-UPS TO BE USED IN TURF LANDS	CAPE, 12" HIGH-POP FOR SHRUB PLA	NTINGS		
HUNTER	PGP-04-CV 4" POP-UP TURF ROTOR WITH MPR-25 NOZZLES (RED)	1.00, 1.38, 1.98, 3.82	45	25 FT	0.70 IN./HR.
HUNTER	PGP-04-CV 4" POP-UP TURF ROTOR WITH MPR-30 NOZZLES (GREEN	1.40, 1.85, 2.96, 5.78	45	30 FT	0.70 IN./HR.
HUNTER	PGP-04-CV 4" POP-UP TURF ROTOR WITH MPR-35 NOZZLES (BEIGE)	1.92, 2.46, 3.81, 7.58	45	35 FT	0.70 IN./HR.
HUNTER	MPR-25/30/35 NOZZLES ARE NOT SUPPLIED AS STANDARD NOZZLES WITH THE HU MUST ORDER THESE NOZZLES SEPARATELY AS AN ADDITIONAL COMPONENT FOR NOZZLES SHALL BE ACCEPTABLE IN THE ROTOR HEADS.		_		_

SUB-SURFACE DRIP TUBING TO BE USED WITHIN SHRUB AND GROUNDCOVER PLANTERS

MODEL NO. / DESCRIPTION

MANUFACT.

300-30IN ACE DIN	TOBING TO BE USED WITHIN STINOB AND GROUNDGOVERT LANTERS
HUNTER	PLD-06-12 SERIES DRIP TUBING (BROWN EXTERIOR COLOR) WITH 0.60 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE
	DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING EMITTERS SHALL BE EQUIPPED WITH A BUILT IN CHECK VALVE TO PREVENT TUBING DRAINAGE.
	DRIP TUBING SHALL BE INSTALLED 4-INCHES BELOW SOIL GRADE (NOT COUNTING THE MULCH LAYER) AND IN PARALLEL ROWS A MAXIMUM OF 16"
	ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE.
	ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16"
	MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE
	TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH
	PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE ACTUAL SPACING
	REQUIREMENTS ABOVE AND IN DETAILS.

CONNECTION BETWEEN PLD DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING PLD DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A PLD-050 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) PLD-050 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE

NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.

PLD-AVR AIR/VACUUM RELIEF VALVE INSTALLED WITH A PLD-075-TBTEE BARB X BARB X 3/4" FIPT TEE FITTING AND A 3/4" X 1/2" SCH. 40 PVC THREADED REDUCER BUSHING. INSTALL AIR RELIEF ASSEMBLY AT THE HIGH POINT OF EACH PLANTER. SEE PLANS FOR APPROXIMATE LOCATION AND QUANTITY OF ARV'S PER DRIP ZONE. USING AN AIR RELIEF LATERAL CONSTRUCTED OF "BLANK" PLD TUBING, CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S MAY BE REQUIRED PER DRIP TUBING ZONE, SEE PLANS. INSTALL INSIDE A 6" ROUND VALVE

LASCO 1/2" SCH. 40 PVC BALL VALVE WITH THREADED ENDS AND A LASCO MHT-102 3/4" MHT X 1/2" FIPT ADAPTER WITH A LASCO FHT-301 HOSE THREAD CAP FOR USE AS A DRIP TUBING FLUSH VALVE. SEE PLANS FOR LOCATIONS. INSTALL INSIDE A 10" ROUND VALVE BOX

IRRIGATION POINT OF CONNECTION AND SYSTEM CONTROLS

HUNTER

JOHN DEERE OR EQUAL	JDL MANUFACTURED IRRIGATION BOOSTER PUMP CONNECTED DOWNSTREAM OF IRRIGATION CISTERN. CONFIRM ELECTRICAL AVAILABILITY IN FIELD PRIOR TO ORDERING. MODEL TO BE DETERMINED BY JDL REPRESENTATIVE. BOTH PROPOSED IRRIGATION BOOSTER PUMPS SHALL BE DESIGNED TO PROVIDE 60 PSI BOOST PRESSURE AT 35 GALLONS PER MINUTE.
FEBCO	850-Y SERIES SMALL DIAMETER DOUBLE CHECK VALVE ASSEMBLY WITH WYE STRAINER, INSTALLED WITHIN VALVE BOX
SUPERIOR	3300 SERIES NORMALLY OPEN MASTER CONTROL VALVE
HUNTER	HFS SERIES FLOW SENSOR IN A PVC TEE, WIRE TO CONTROLLER WITHIN A 1" CONDUIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
HUNTER	IC-600-PP 6 STATION I-CORE BASE CONTROLLER WITH ICM-600 6-STATION EXPANSION MODULES. INSTALL MODULES AS NECESSARY TO ACCOMMODATE ALL PROPOSED CONTROL VALVES. INSTALL CONTROLLER INSIDE A PLASTIC PEDESTAL ENCLOSURE AS PART OF MODEL
HUNTER	SOLAR-SYNC-SEN ET SENSOR, INSTALL ADJACENT TO CONTROLLER PEDESTAL AND WIRE TO CONTROLLER. CONTRACTOR SHALL ENSURE SENSOR IS MOUNTED IN AN OPEN AIR LOCATION
N/A	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD
AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)
3M	DBR/Y-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED)

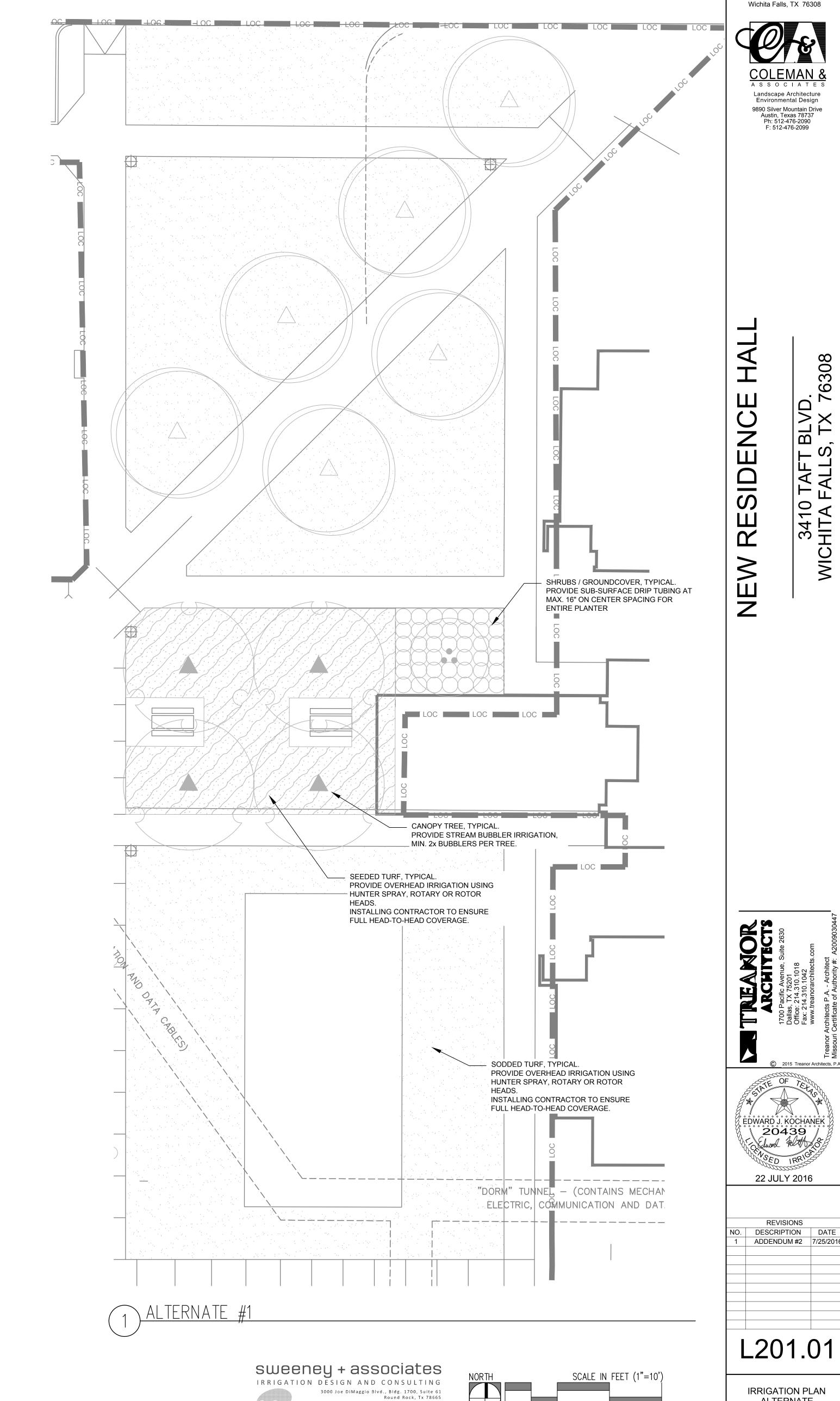
IRRIGATION VALVES AND VALVE BOXES

AND SUPER JUMBO XL SHALL BE MODEL 1730.

_ASCO	SLO-CLOSE SCH. 80 PVC TRUE-UNION BALL VALVE WITH SOLVENT WELD CONNECTIONS, LINE SIZE
HUNTER	HQ-44LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT, INSTALL WITH BRASS BALL VALVE LOCATED UPSTREAM OF QUICK COUPLER WITHIN SAME VALVE BOX
HUNTER	ICV-XX1G-FS-AS-ADJ PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1", 1 1/2" AND 2" SIZES), SET AS-ADJ PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD TO THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE. INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.
HUNTER	ICV-XX1G-FS PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" AND 1 1/2" SIZES). INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S INSTALL A RAIN BIRD LCRBY-100D DISC FILTER AND A SENNINGER 1" PMR-40-MF PRESSURE REGULATOR. FOR 1 1/2" DRCV'S INSTALL A RAIN BIRD LCRBY-150D DISC FILTER AND A SENNINGER 1 1/4" PMR-40-HF PRESSURE REGULATOR. USE A 1 1/2" SCH. 40 PVC THREADED COUPLING, A 1 1/2" X 1 1/4" PVC THREADED REDUCER BUSHING, AND A 1 1/4" X 2" SCH. 80 PVC NIPPLE AS REQUIRED TO CONNECT THE 1 1/4" REGULATOR TO THE DOWNSTREAM SIDE OF THE 1 1/2" FILTER. INSTALL THE DRCV ASSEMBLY INSIDE A JUMBO RECTANGULAR VALVE BOX.
K.B.I.	KSC-XXX-S SWING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV WHEN RCV IS LOWER THAN THE SPRINKLERS INSTALL WITHIN SPRINKER/DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD/EMITTER DRAINAGE.
K.B.I.	KC-XXX-S SPRING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV IMMEDIATELY ABOVE FIRST LATERAL LINE TEE WHEN RCV IS HIGHER THAN THE SPRINKLERS, INSTALL WITHIN SPRINKER/DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD/EMITTER DRAINAGE.
CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. VALVE BOXES SHALL HAVE GREEN HDPE BODY AND GREEN LIDS IN TURF, GREEN LIDS IN SHRUB BEDS, AND TAN LIDS IN ROCK MULCH. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT. 6" ROUND VALVE BOXES SHALL BE MODEL 809; 10" ROUND SHALL BE MODEL 910; 12" STANDARD RECTANGULAR SHALL BE MODEL 1419; 12" JUMBO RECT. SHALL BE MODEL 1220; SUPER JUMBO SHALL BE MODEL 1324;

IRRIGATION LATER	RAL AND MAINLINE PIPING AND CONNECTION, SLEEVE MATERIALS AND WIRE CONDUIT
AS APPROVED	PVC PIPE CL. 200 SOLVENT WELD WITH BELL ENDS AS LATERAL LINES 12" BELOW GRADE
AS APPROVED	PVC PIPE CL. 200 SOLVENT WELD WITH BELL ENDS AS MAINLINES 24" BELOW GRADE
LASCO	ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE AND MAINLINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE OR MAINLINE PIPE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 40 PVC PIPE WITH MOLDED THREADS.
CHRISTY'S	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC, "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE LOW VOC, "GRAY-HEAVY BODY" CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, "RED HOT BLUE GLUE" CEMENT. USE DAUBERS SIZED AT LEAST ONE HALF THE SIZE OF THE LARGEST SIZE PIPE BEING JOINED.
AS APPROVED	PVC PIPE AS SLEEVING, SIZES AS SHOWN ON SLEEVING PLAN (MINIMUM SIZE IS 4"). PLACE BELOW ALL PAVING, HARDSCAPE ETC., AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. SLEEVES SHALL EXTEND 24" BEYOND EDGE OF PAVED SURFACE. CONTRACTOR SHALL MARK SLEEVE LOCATION WITH 3/8" x 3" BRASS OR STAINLESS STEEL STOVE BOLT. SLEEVING BENEATH PEDESTRIAN PAVEMENT SHALL BE CL. 200 PVC SOLVENT WELD

SLEEVING BENEATH DRIVES AND STREETS SHALL BE SCH. 40 PVC SOLVENT WELD



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SITE IMPROVEMENTS -BP 02

> MIDWESTERN STATE UNIVERSITY 3410 Taft Blvd.

ALTERNATE

BID PACKAGE 02

TREANOR NO. SL14.003.00B