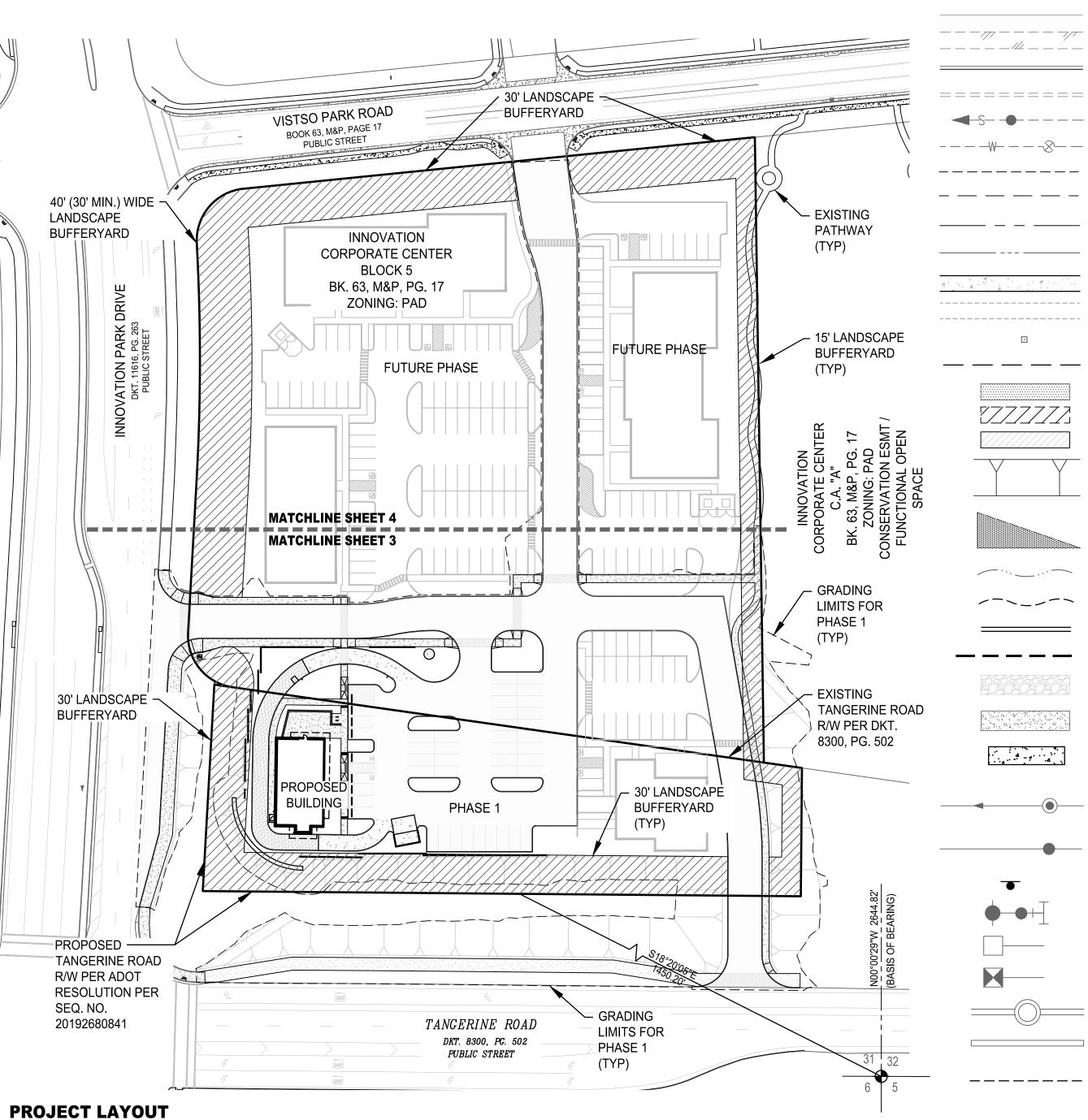
GENERAL NOTES

- THE GROSS AREA OF THIS DEVELOPMENT IS 5.60 ± ACRES.
- 2. TOTAL GRADED AREA IS 5.38 ± ACRES.
- TOTAL UNDISTURBED AREA = 0.22
- 4. TOTAL AMOUNT OF OPEN SPACE REQUIRED (10% PER PAD): 0.56 AC. PROVIDED = 1.15 AC. "FRONTAGE" AS DEFINED PER OVZC CHAPTER 31
- LANDSCAPING IN RIGHT-OF-WAY REQUIRES A SEPARATE PERMIT
- 6. EXISTING ZONING IS RANCHO VISTOSO PAD C-1
- THE PROJECT IS DESIGNED TO MEET THE SPECIFIC CRITERIA OF THE TANGERINE CORRIDOR OVERLAY DISTRICT (TRCOD) AND THE ORACLE ROAD SCENIC CORRIDOR OVERLAY DISTRICT (ORSCOD) OVERLAY ZONES.
- 8. ASSURANCES FOR LANDSCAPING AND RE-VEGETATION BONDS MUST BE POSTED PRIOR TO ISSUANCE OF GRADING PERMITS. A LANDSCAPE BOND IN THE AMOUNT OF 10% OF THE ORGINAL LANDSCAPE BOND SHALL REMAIN IN PLACE FOR A PERIOD OF ONE YEAR FROM THE COMPLETE INSTALLATION OF LANDSCAPE MATERIALS AND ANY REPLACEMENT MATERIALS.
- PROPERTY OWNER SHALL MAINTAIN BUFFER YARD PLANTINGS TO ENSURE UNOBSTRUCTED VISIBILITY TO MOTORISTS, ALL SHRUBS, ACCENTS, AND GROUNDCOVERS SHALL NOT EXCEED THIRTY (30") INCHES IN HEIGHT WITHIN SITE VISIBILITY TRIANGLES. TREES WITHIN SITE VISIBILITY TRIANGLES WILL BE MAINTAINED TO ENSURE THAT BRANCHES/FOLIAGE IS NOT BELOW A HEIGHT OF SIX (6') FEET AND THE TRUNK DIAMETER SHOULD NOT EXCEED 1-FOOT WHEN FULLY MATURE.
- 10. LANDSCAPE MATERIALS SHALL NOT OBSTRUCT SIGHT DISTANCES OR VEHICLE TURNING MOVEMENTS.
- 11. IN THE EVENT OF ABANDONMENT OF THE SITE AFTER GRADING / DISTURBANCE OF NATURAL AREAS. DISTURBED AREAS SHALL BE RE-VEGETATED WITH A NON-IRRIGATED HYDRO SEED MIX FROM OVZCR ADDENDUM D: APPROVED REVEGETATION SEED MIX.
- 12. ALL PLANT MATERIAL SHALL MEET THE MINIMUM STANDARDS CONTAINED IN THE CURRENT EDITIONS OF THE ARIZONA NURSERY ASSOCIATION'S GROWERS COMMITTEE RECOMMENDED TREE SPECIFICATIONS AND THE AMERICAN ASSOCIATION OF NURSERYMEN AS TO SIZE. CONDITION AND APPEARANCE.
- 13. PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY IRRIGATION SYSTEM AS LONG AS NECESSARY IN ORDER TO TRANSITION PLANTS OVER TO NATURAL SOURCES. IRRIGATION SHALL BE REDUCED THREE YEARS AFTER ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY. METERED WATER USE FOR LANDSCAPE IRRIGATION SHALL BE REDUCED BY FIFTY PERCENT, FIVE YEARS FROM THE DATE OF THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
- 14. ANY PLANT MATERIALS THAT DIE IN TRANSITION, FOR ANY REASONS, SHALL BE REPLACED IN ACCORDANCE WITH SECTION 27.6.E.4., MAINTENANCE.
- 15. PROPERTY OWNERS, LESSEES, AND OCCUPANTS SHALL MAINTAIN REQUIRED LANDSCAPE, IRRIGATION, BUFFERING, SCREENING AND RAINWATER HARVESTING SYSTEM IMPROVEMENTS PER THE APPROVED PLANS.
- 16. LANDSCAPE SHALL CONFORM TO ORO VALLEY LANDSCAPE CODE.
- 17. MITIGATION OF SURVEYED PLANTS IN THE NATIVE PLANT PRESERVATION PLAN WILL BE INCORPORATED INTO THE LANDSCAPE DESIGN
- 18. ALL PLANTS TO BE IRRIGATED WITH AN UNDERGROUND AUTOMATIC DRIP IRRIGATION SYSTEM.
- 19. HYDROSEED ALL AREAS DISTURBED BY GRADING OPERATIONS AROUND LOTS AND ALONG ROADS. DECOMPOSED GRANITE SHALL BE PLACED AT ENTRIES.
- 20. LANDSCAPE AREAS THAT ARE SUSCEPTIBLE TO DAMAGE BY PEDESTRIAN OR AUTO TRAFFIC SHALL BE PROTECTED BY CURBS, TREE GUARDS OR OTHER DEVICES.
- 21. LANDSCAPE SHALL BE DESIGNED TO MINIMIZE SEDIMENT, SAND AND GRAVEL BEING CARRIED INTO THE STREETS BY STORM WATER OR OTHER RUNOFF.
- 22. LANDSCAPE DESIGN ENABLES ADEQUATE PLANT SPACING TO ENSURE SURVIVABILITY AT PLANT MATURITY.
- 23. ALL LANDSCAPED AREAS ARE TO BE FINISHED WITH A NATURAL TOPPING OF AT LEAST TWO (2) INCHES IN DEPTH.
- 24. TREES AND LARGE SHRUBS SHALL BE ADEQUATELY SUPPORTED WHEN PLANTED.
- 25. ANY SPADED OR BOXED TREE TRANSPLANTED ON SITE THAT DIES DUE TO NEGLECT OR LACK OF MAINTENANCE SHALL BE REPLACED WITH THE SAME SIZE AND SPECIES OF THE ORIGINAL SALVAGED TREE, AS REQUIRED BY THE SALVAGE PLAN.
- 26. THE LIMITS OF GRADING SHALL BE STAKED IN THE FIELD, IN ACCORDANCE WITH SECTION 27.6.B.7.c.ii. DISTURBANCE OUTSIDE THE APPROVED GRADING LIMITS SHALL NOT BE PERMITTED.
- 27. THE DEVELOPER SHALL REPLACE REMOVED OR DAMAGED PLANT MATERIALS WITH LIKE SIZE AND SPECIES, AND SHALL MAINTAIN AND GUARANTEE THE REPLACEMENT PLANT MATERIALS FOR A PERIOD OF THREE (3) YEARS.
- 28. NO SALVAGE OF PLANTS REGULATED BY THE ENDANGERED SPECIES ACT AND/OR THE ARIZONA NATIVE PLANT LAW MAY OCCUR WITHOUT THE ISSUANCE OF THE APPROPRIATE PERMIT BY THE STATE DEPARTMENT OF AGRICULTURE.
- 29. DEEP ROOTED VEGETATION AND TREES SHALL NOT BE PLANTED CLOSER THAN 7.5 FEET FROM A PUBLIC WATER LINE. EXCEPTIONS FOR ALTERNATIVE DESIGN SOLUTIONS SUCH AS ROOT BARRIERS SHALL BE CONSIDERED ON A CASE BY CASE BASIS.
- 30. CURB-WAY CONSISTING OF INORGANIC GROUNDCOVER OR PLANTS NOT TO EXCEED TYPE 2 WATER USE SHALL BE PROVIDED BETWEEN THE CURB AND ALL SIDEWALKS.



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INNOVATION CORPORATE CENTER BLOCK 5 BLOCK 5 OF THE INNOVATION CORPORATE CENTER FINAL PLAT BOOK 63, M&P PAGE 17, ORO VALLEY, ARIZONA



LANDSCAPE PLAN **INNOVATION CORPORATE CENTER BLOCK 5** 2300342

SCALE 1"=60'

BUFFER

LOCATION

NORTH

SOUTH

EAST

WEST

20

5 <u>U</u>

LANDSCAPE BUFFER TABLE

N	BUFFER YARD TYPE 'B'	WIDTH	BUFFER LENGTH (If)	TREES REQUIRED	SHRUBS REQUIRED	ACCENTS REQUIRED	TREES PROVIDED	SHRUBS PROVIDED	ACCENTS PROVIDED
	STREET VISTOSO PARK RD	30'	390'	16	20	39	16	20	39
	STREET (MS&R) TANGERINE RD	30'	242'	10	12	24	10	12	24
	COMMERCIAL (C1) TO GOLF/REC	15'	380'	19	30	57	19	30	57
	STREET INNOVATION PARK DRIVE	30'-40'	391'	16	20	39	16	20	39

APPROVAL

TOWN ENGINEER

Sheet Title LANDSCAPE PLAN COVER SHEET

File:Q:\185050\VW-30 Inn Corp Ctr Block 5 Starbucks\02 Landscape\06 LP\185050 Starbucks L1.dwg

EXIST. MAJOR CONTOUR

- EXIST. MINOR CONTOUR
- PROJECT BOUNDARY
- EXISTING LOT LINE
- EXIST. PAVEMENT

LEGEND

- PROPOSED VERTICAL CURB
- EXISTING VERTICAL CURB
- EXIST. PUBLIC SEWER LINE & MANHOLE
- EXIST. PUBLIC WATERLINE & VALVE
- EXISTING EASEMENT LINE
- LOT SETBACKS (TYP.)
- SECTION LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- CENTERLINE MONUMENT
- GRADING LIMITS
- ASPHALT PAVEMENT PAVEMENT SAWCUT
- PARKING STALLS
- TOP OF SLOPE
- BOTTOM OF SLOPE SIGHT VISIBILITY TRIANGLE (SVT)
- 100 YR FLOOD PLAIN
- **EROSION HAZARD SETBACK**
- PROPOSED WALL
- DEVELOPED AREA BOUNDARY
- PROPOSED RIPRAP
- PROPOSED DG PATH
- PROPOSED CONCRETE SIDEWALK
- PROPOSED PRIVATE SEWER LINE & MANHOLE
- PROPOSED PUBLIC WATERLINE
- & VALVE PROPOSED SIGN
- **FIRE HYDRANT**
- WATER METER
- **IRRIGATION METER**
- EX. STORM DRAIN SYSTEM
- PROPOSED CULVERT
- PROPOSED CULVERT

29 28 25 30 32 33 R.V. W2 & W2 SE4 /INEIG 3/ INV BIK∖ SEC 33 & ELY P.C CTRL PTN ΡK B3 PTN SEC 32 SEC 29,30,31 BLK D1 \INV \PK VIS PAR ∕BLK OV LLC D1 HOSPITA ANGERINE ROAD-PROJE I AREA ORO VALLEY .31 MARKET + 06 05 0106 R.V. PAD 06 NEIGHBORHOOD 4 DESERT SPRINGS BK 51(M&P), PG IRR PTN 3 CATALINA SHADOWS **W2** VLG. SILV PH ESTATES BK.41(M&P), PG.1 IRR ELY PTN SEC 5-12-14 SAN. SILV PALISADES COMM. PT. AREA B LOCATION MAP A PORTION OF SECTION 31 T11S, R14E, G & S.R.M., TOWN OF ORO VALLEY, 3" = 1 MILE PIMA COUNTY, ARIZONA

OWNER/DEVELOPER

VWI/VISTOSO DEVELOPMENT, INC. 6007 E. GRANT ROAD TUCSON, AZ 85712 PHONE: (520) 392-8835 ATTENTION: NEIL SIMON NSIMON@VENTUREWESTAZ.COM

ARCHITECT

EGLIN + BRESLER, ARCHITECTS, INC. 7391 E. TANQUE VERDE RD TUCSON, AZ. 85715 PHONE: (520) 419-0728 ATTENTION: EVAN S. EGLIN EVANE@EGLINBRESLER.COM

ENGINEER

THE WLB GROUP, INC 4444 E. BROADWAY BLVD. **TUCSON, AZ 85711** PHONE: (520) 881-7480 ATTENTION: DAVID LITTLE DLITTLE@WLBGROUP.COM

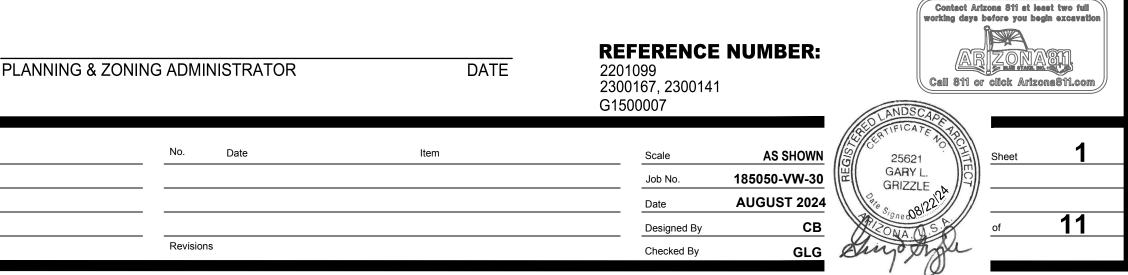
LANDSCAPE ARCHITECT

THE WLB GROUP, INC. 4444 E. BROADWAY BLVD. **TUCSON, AZ 85711** PHONE: (520) 881-7480 ATTENTION: GARY GRIZZLE GGRIZZLE@WLBGROUP.COM

SHEET INDEX

SHEET 1	COVER SHEET
SHEET 2	PLANTING PLAN
SHEET 3	PLANTING PLAN
SHEET 4	IRRIGATION PLAN
SHEET 5	IRRIGATION PLAN
SHEET 6	PLANT LEGEND WATER USE
	SCHEDULE / NOTES
SHEET 7	LANDSCAPE DETAILS
SHEET 8	IRRIGATION DETAILS
SHEET 9	LANDSCAPE SPECIFICATIONS
SHEET 10	IRRIGATION SPECIFICATIONS
SHEET 11	WALLS

DATE



IRRIGATION NOTES

- IRRIGATION AND/OR WATERING PLANS SHALL MEET THE MINIMUM STANDARDS OF THE AMERICAN SOCIETY OF IRRIGATIO CONSULTANTS.
- THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY SYSTEM AS LONG AS NECESSARY IN ORDER TO TRANSITION PLANTS OVER TO NATURAL SOURCES. ANY PLANT MATERIALS THAT DIE IN TRANSITION, FOR ANY REASON, SHALL BE REPLACED IN ACCORDANCE WITH SECTION27.6.E.4 - MAINTENANCE.
- IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER MAINS (PUBLIC OR PRIVATE) SHALL BE EQUIPPED WITH BACKFLOW PREVENTERS.
- THE ANNUAL WATER USE FOR A PROJECT SHALL NOT EXCEED THE ANNUAL LANDSCAPE WATER PLAN. IRRIGATION METER READINGS SHALL BE USED TO DETERMINE COMPLIANCE WITH THE LANDSCAPE WATER PLAN
- NON-COMPLIANCE IS SUBJECT TO PENALTIES UNDER ORO VALLEY TOWN CODE.
- 6. METER READINGS SHALL BE TAKEN, AT A MINIMUM, ON AN ANNUAL BASIS. MONTHLY READINGS MAY BE REQUIRED, AT TH DISCRETION OF THE PLANNING AND ZONING ADMINISTRATOR, IN ORDER TO ADDRESS NON-COMPLIANCE WITH THE WAT PLAN.
- 7. AN INITIAL METER READING SHALL BE TAKEN PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY AND RECORDED FOR REFERENCE AS PART OF THE WATER PLAN.
- 8. IRRIGATION WATER SHALL NOT LEAVE THE LANDSCAPED AREAS AND FLOW ONTO ROADS, PARKING AREAS OR SIDEWALKS.

IRRIGATION CONTROLLER SCHEDULE

YEAR	DAYS	FREQUENCY	TIME (HRS.)	TOTAL WATER
3	MON. WED. FRI.	1	2.75	849,027
4	MON. THUR.	1	3	636,770
5	WED.	1	4	424,514

TREES

WATERING DEPTH OF 24 - 36 INCHES SHRUBS / GROUNDCOVER WATERING DEPTH OF 18 - 24 INCHES

IRRIGATION CONTROLLER NOTES

PLANT WATERING REQUIREMENTS VARY ACCORDING TO SIZE OF PLANT, AGE, EXPOSURE, SOIL, LOCATION, WEATHER, AND OTHER FACTORS. ADJUST CONTROLLER AS NEEDED.

ADJUST CONTROLLER AND INSPECT THE TIME CLOCK AT LEAST ONCE A MONTH TO MAKE SURE IT IS OPERATING PROPERLY. LESS IRRIGATION IS GENERALLY REQUIRED IN DECEMBER, JANUARY, AND FEBRUARY.

LANDSCAPE WATER PLAN

SYME

26"

48"

CM

PV

08

WINTER		SPRING			SUMMER	MONSOON				WINTER
MONTH								1,59,0837		
1	2	3	4	5	6	7	8	9	10	11
YEAR 3:										
	O INCREASE II	RRIGATION WA	ATER USE A	S NEEDED AS	S PLANTS MA	TURE UP TO,	BUT NOT EX	CEEDING, 100)% ADWR VAL	UE BY END
67,215	72,167	75,705	81,365	83,488	83,488	57,309	57,309	65,800	70,752	67,92
		TOTAL (100%	ADWR)		GAL/YEAR					
YEAR 4:										
BEGIN GRAD	UALLY DECRE	ASING IRRIGA	TION TO BU	FFER MEDIAN	AND ROW A	REAS IN ORD	ER TO REACI	H ZERO IRRIG	ATION IN TH	DSE AREAS
YEAR 5.										
50,411	54,125	56,779	61,024	62,616	62,616	42,982	42,982	49,350	53,064	50,94
		TOTAL (75% /	ADWR)		GAL/YEAR					
YEAR 5:			-							
CONTINUE DI	ECREASING IF	RIGATION TO	BUFFER. M	EDIAN. AND R	ROW AREAS. E	BY END OF YE	EAR 5 IRRIGA		ER. MEDIAN	
		UNT OF WATE								
GAL/MONTH)										
48,465	49,527	53,064	56,602	60,139	56,602	53,064	24,763	17,688	3,538	1,06
		TOTAL (50% /	ADWR)		GAL/YEAR					,

PLANT MATERIAL / WATER USE SCHEDULE

BOL	PLANT NAME	QUANTITY	SIZE	WATER USE TYPE (NEEDS)	ADWR ANNUAL USE AT MATURITY (GALLONS)	ANNUAL WATER USE QUANTITY TIMES ADWR ANNUAL USE (GALLONS)	Monthly water use adwr Annual use divided by 12 Months
``\	TREES						
	CERCIDIUM FLORIDUM BLUE PALO VERDE (TRANSPLANT)	6	Transplant	1	5,702	34,212	2,851
\leq	CERCIDIUM MICROPHYLLUM FOOTHILL PALO VERDE (TRANSPLANT)	16	Transplant	1	1,754	28,064	2,339
	CERCIDIUM MICROPHYLLUM	2	36" Box	1	1,754	3,508	292
	FOOTHILL PALO VERDE	2	48" Box				
	CERCIDIUM MICROPHYLLUM FOOTHILL PALO VERDE	31	15 Gallon	1	1,754	54,374	4,531
	CHILOPSIS LINEARIS BUBBA JONES	11	15 Gallon	2	5,702	62,722	5,227
	BUBBA JONES DESERT WILLOW						
	PROSOPIS VELUTINA VELVET MESQUITE (TRANSPLANT)	36	Transplant	2	5,702	205,272	17,106
	PROSOPIS VELUTINA	5	36" Box	2	5,702	28,510	2,376
	VELVET MESQUITE	5	48" Box	2	5,702	28,510	2,376
	PROSOPIS VELUTINA VELVET MESQUITE	37	15 Gallon	2	5,702	210,974	17,581

EXISTING NATIVE TREES TO REMAIN

USE PROTECTIVE FENCING DURING

CONSTRUCTION FOR TREES ON SITE TO BE PRESERVED IN PLACE - SHEET 7 FOR DETAIL



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INNOVATION CORPORATE CENTER BLOCK 5 BOOK 63, M&P PAGE 17, ORO VALLEY, ARIZONA

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PLANT NAME	QUANTITY	SIZE	WATER USE TYPE (NEEDS)	ADWR ANNUAL USE AT MATURITY (GALLONS)	ANNUAL WATER USE QUANTITY TIMES ADWR ANNUAL USE (GALLONS)	MONTHLY WATER USE ADWR ANNUAL USE DIVIDED BY 12 MONTHS
SHRUBS ACACIA CONSTRICTA	101	Transplant	1	1,754	177,154	14,763
WHITE THORN ACACIA ACACIA CONSTRICTA	11	15 Gallon	1	1,754	19,294	1,608
WHITE THORN ACACIA	4	Transplant	1	1,754	7,016	585
CATCLAW ACACIA CALLIANDRA ERIOPHYLLA						
PINK FAIRY DUSTER	36	5 Gallon	1	70	2,520	210
CELTIS PALLIDA DESERT HACKBERRY	13	Transplant	1	634	8,242	687
CORDIA PARVIFOLIA LITTLE LEAF CORDIA	20	5 Gallon	1	439	8,780	732
DODONEA VISCOSA HOPSEED BUSH	29	5 Gallon	2	632	18,328	1,527
ENCELIA FARINOSA BRITTLEBUSH	33	5 Gallon	2	70	2,310	193
ERICAMERIA LARICIFOLIA TURPENTINE BUSH	50	5 Gallon	2	70	3,500	292
JUSTICIA CALIFORNICA	23	5 Gallon	2	101	2,323	194
CHUPAROSA LEUCOPHYLLUM ZYGOPHYLLUM	72	5 Gallon	2	101	7,272	606
BLUE RANGER SIMMONDSIA CHINENSIS	6	5 Gallon	2	281	1,686	141
IOJOBA /IGUIERA DELTOIDEA (PARISHII)	70	5 Gallon	1	25	1,750	25
GOLDEN EYE						
ZIZIPHUS OBTUSIFOLIA GREYTHORN	3	Transplant	2	634	1,902	159
ACCENTS AGAVE MURPHEYI MURPHEY'S AGAVE	11	5 Gallon	1	79	869	72
AGAVE PARRYI var. TRUNCATA ARTICHOKE AGAVE	3	5 Gallon	1	79	237	20
AGAVE VICTORIAE-REGINAE QUEEN VICTORIA AGAVE	4	5 Gallon	1	79	316	26
ALOE HYBRID 'BLUE ELF' BLUE ELF ALOE	48	5 Gallon	1	79	3,792	316
ASCLEPIAS SUBULATA DESERT MILKWEED	16	5 Gallon	1	57	912	76
CARNEGIEA GIGANTEA SAGUARO	29	(2) Transplant (27) 4-6' Tall Spear	1	2,741	79,489	6,624
DASYLIRION WHEELERI DESERT SPOON	84	5 Gallon	1	110	9,240	770
ECHINOCACTUS GRUSONII GOLDEN BARREL	7	5 Gallon	1	110	770	64
EUPHORBIA ANTISYPHILITICA CANDELILLA	18	5 Gallon	1	39	702	59
FEROCACTUS WISLIZENII FISH-HOOK BARREL	61	(7) Transplant (54) 6"-8" diameter	1	10	610	51
FOUQUIERIA SPLENDENS DCOTILLO	18	8-10 Canes	1	281	5,058	422
HESPERALOE PARVIFLORA 'BRAKE LIGHTS' BRAKE LIGHTS RED YUCCA	98	5 Gallon	1	70	6,860	572
LANTANA HYBRID 'GOLD' GOLD LANTANA	2	5 Gallon	1	70	140	12
NOLINA MICROCARPA BEAR GRASS	10	5 Gallon	1	158	1,580	132
OPUNTIA ENGELMANNII ENGELMANN PRICKLY PEAR	8	3-5 Pad Minimum	1	158	1,264	105
OPUNTIA (CYLINDROPUNTIA) VERSICOLOR STAGHORN CHOLLA	5	3-5 Pad Minimum	1	158	790	66
PEDILANTHUS MACROCARPUS	7	5 Gallon	1	25	175	25
LADY'S SLIPPER YUCCA RIGIDA	8	5 Gallon	1	110	880	110
BLUE YUCCA TOTAL WATER AT MATURITY					849,027	70,679

PLANT MATERIAL / WATER USE SCHEDULE

BOTANICA

ACACIA (
ACACIA (
CARNEG
CELTIS P
CERCIDI
CERCIDI
FEROCA
PROSOP
ZYZIPHU
TOTAL
NOTE: SO

(3) ACACIA CONSTRICTA TO BE MITIGATED PER DAMAGE BY 3RD PARTY OPERATOR (3) 15 GALLON ACACIA CONSTRICTA (NURSERY STOCK) TO BE SUPPLEMENTED FOR DAMAGE PLANTS.

AMOUNT OF SIGNIFICANT VEGETATION = 3,620 ± SQ. FT. AMOUNT OF SIGNIFICANT VEGETATION DISTURBED = $3,620 \pm$ SQ. FT. PERCENTAGE OF SIGNIFICANT VEGETATION DISTURBED = 100%

SIGNIFICANT VEGETATION REMOVED

(1) CERCIE (1) CERCIE (4) PROSO

TO BE REMOVED

CERCIDIUM FLORIDUM - CF64 PROSOPIS VELUTINA - PV104 PV157 PV106 CERCIDIUM MICROPHYLLUM - CM275 PV107

SEEDED AREA

SHRUBS: Acacia co Calliandra Celtis pall Encelia fa Larrea trid

SMALL PI Baileya m Cassia [= Psilostrop Sphaeralc Zinnia pu

PERENNI Aristida p Bouteloua Digitaria c Muhlenbei ANNUAL

Erigeron of Lupinus a Orthocarp Penstemo Salvia col

DECORATIVE ROCK - DR (typ)

1" SCREENED DECORATIVE ROCK - COLOR: APACHE RED 2" MINIMUM DEPTH. 1/2 " DECOMPOSED GRANITE - COLOR: APACHE RED 1" MINIMUM DEPTH.

BOULDERS

Revisions

SYMB P

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NATIVE PLANT SUMMARY

		BLUE RIBBON	RED RIBBON	WHITE RIBBON	
CAL NAME	COMMON NAME	TRANSPLANT	REMOVE	PRESERVE IN PLACE	TOTAL PER PLANT
CONSTRICTA	WHITETHORN ACACIA	101	121	0	222
GREGGII	CAT CLAW ACACIA	4	4	0	8
SIEA GIGANTEA	SAGUARO	2	0	0	2
PALLIDA	DESERT HACKBERRY	13	10	0	23
UM FLORIDIUM	BLUE PALO VERDE	6	18	0	24
UM MICROPHYLLUM	FOOTHILL PALO VERDE	16	5	0	21
CTUS WISLIZENII	FISH-HOOK BARREL	7	3	0	10
PIS VELUTINA	MESQUITE	36	71	1	108
IS OBTUSIFOLIA	GREYTHORN	3	3	0	6
		188	235	1	424

OME TRANSPLANTS TO BE USED FOR THE PROPOSED STARBUCKS SITE

VEGETATION MITIGATION

SIGNIFICANT VEGETATION MITIGATION

MITIGATION OF SIGNIFICANT VEGETATION SHALL BE IN A ACCORDANCE WITH SECTION 27.6.B.3.c

(3) TREES	MITIGATION RATIO 2:1	REPLACEMENT TREES 12	UNDERSTORY VEGETATION REQUIRED (5 PER TREE)
IDIUM FLORIDUM IDIUM MICROPHYLLUM OPIS VELUTINA	[(1) 36" (1) 48"] [(1) 36" (1) 48"] [(4) 36" (4) 48"]	(6) 36" BOX TREES (50%) (6) 48" BOX TREES (50%)	60 UNDERSTORY PLANTS

SIGNIFICANT VEGETATION

TO BE TRANSPLANTED

PROSOPIS VELUTINA - PV367

SIGNIFICANT VEGETATION

SEED MIX SHALL BE ORO VALLEY APPROVED SEED MIX "D".

AREA TO BE SEEDED SHALL INCORPORATE THE USE OF IMPRINTING OR PITTING OF THE SOIL. REVEGETATION IS REQUIRED TO RESTORE NATURAL VEGETATION ON DISTURBED LAND. TIMING OF REVEGETATION SHALL BE PLANTED TO MAXIMIZE AVAILABILTY OF RAINFALL. SEED MIX SHALL BE PER

OVZCR ADDENDUM "D", SPECIES AS FOLLOWS:

ORO VALLEY APPROVED REVEGETATION SEED MIX 'D'

Key: A = Annual; P = Perennial; C = Germinates and thrives in the cool season;

W = Germinates and thrives in warm season; C/W = Germinates and thrives in cool/warm seasons.

indices and times in warm season, $OW = Ochninates$	
: minimum of 5 PLS/acre onstricta, Whitethorn Acacia (P,W) a eriophylla, Fairy Duster (P,C/W) lida, Desert Hackberry (P,C/W) arinosa, Brittlebush (P,C/W) dentata [=L. divaricata], Creosote (P,W)	PLS 2.0 2.0 2.0 1.0 1.0
ERENNIALS: minimum of 5 PLS/acre nultiradiata, Desert Marigold (P,C/W) Senna] covesii, Desert Senna (P,W) ohe cooperi, Paper Flower (P,C/W) cea ambigua, Desert Globemallow (P,C,W) imila, Desert Zinnia (P, C)	2.0 1.0 2.0 1.0 2.0
IAL GRASSES: minimum of 5 PLS/acre ourpurea, Purple Three-Awn (P,W) a curtipendula, Side-Oats Grama (P,W) californica, Arizona Cottontop (P,W) ergia porteri, Bush Muhly (P,W)	2.0 1.0 1.0 1.0
HERBS AND GRASSES: minimum of 5PLS/acre divergens, Spreading Fleabane (A,W) arizonicus, Arizona Lupine (A,W) pus purpurascens, Owlclover (A,C) on parryi, Parry's Penstemon (P,A,C/W) lumbariae, Chia (A,C)	1.0 2.0 2.0 3.0 2.0

BOL	QTY	SIZE (FT.)	COMMENTS
Ð	63 84	1 X 2 X 2 2 X 2 X 3	COLOR: APACHE RED

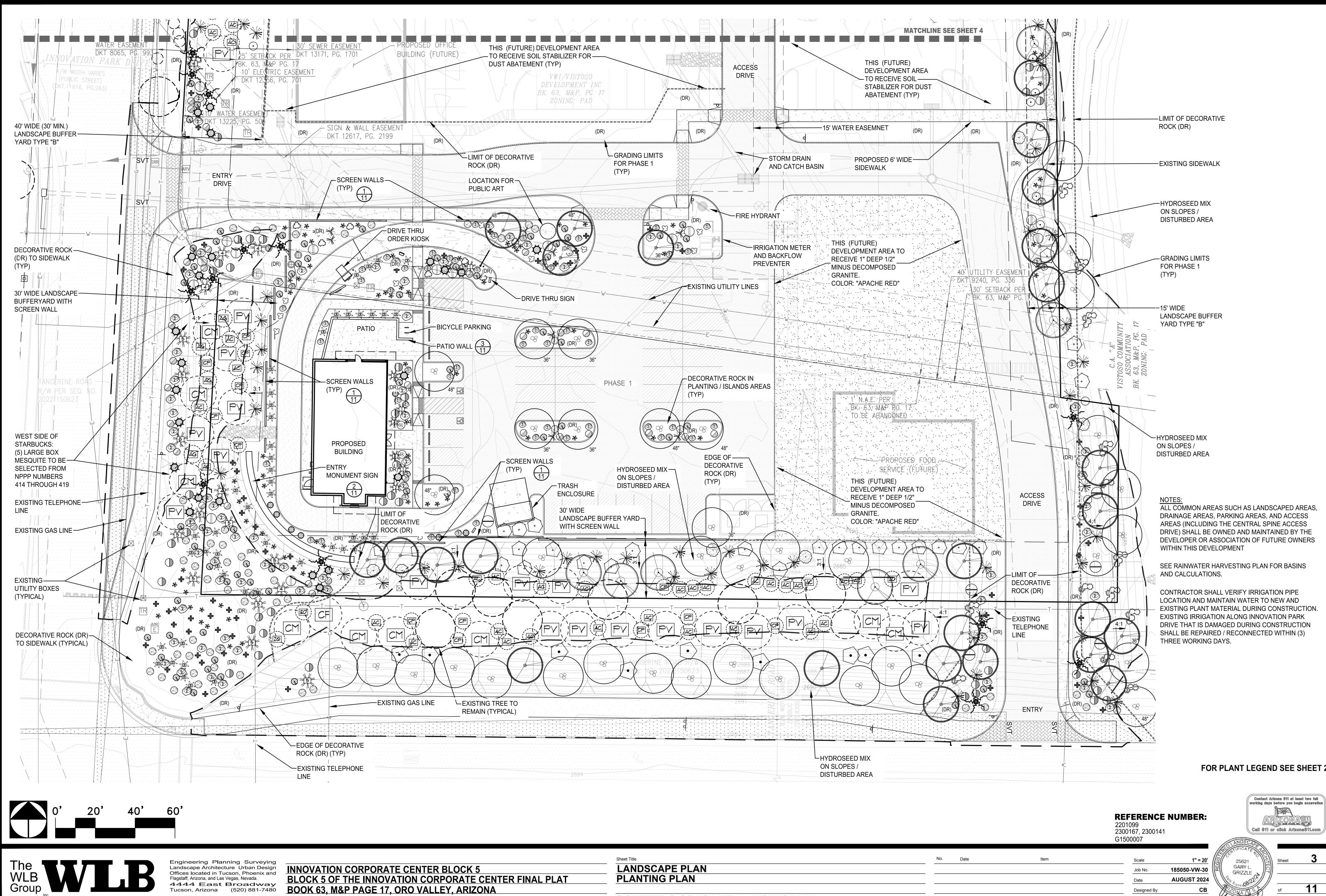
Contact Arizona 811 at least two full working days before you begin excavat **REFERENCE NUMBER:** 1570D 2201099 Call 811 or click Arizona811.con 2300167, 2300141 G1500007 No. Date Item Scale 25621 Sheet GARY L. 185050-VW-30 Job No. GRIZZLE AUGUST 2024 11

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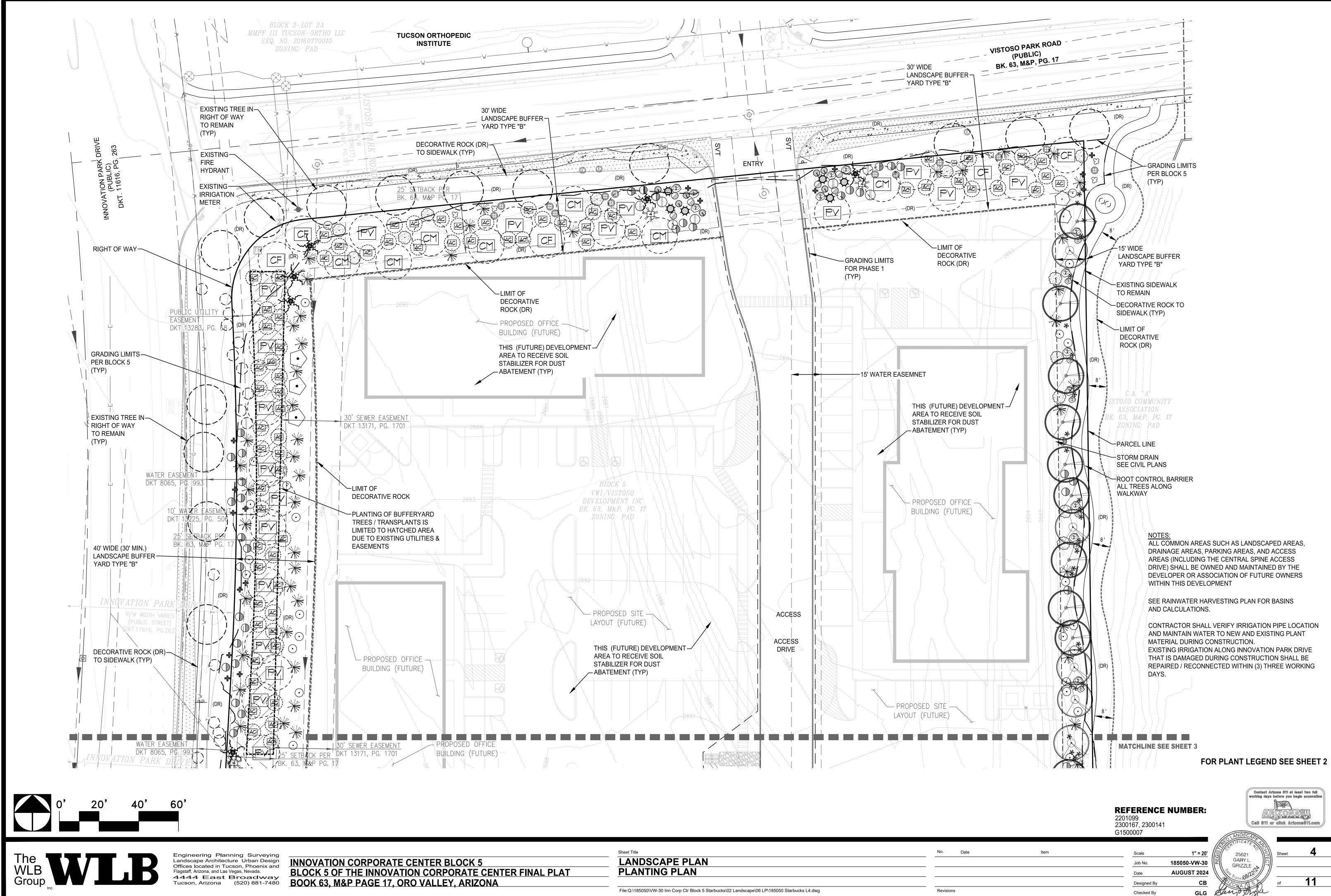
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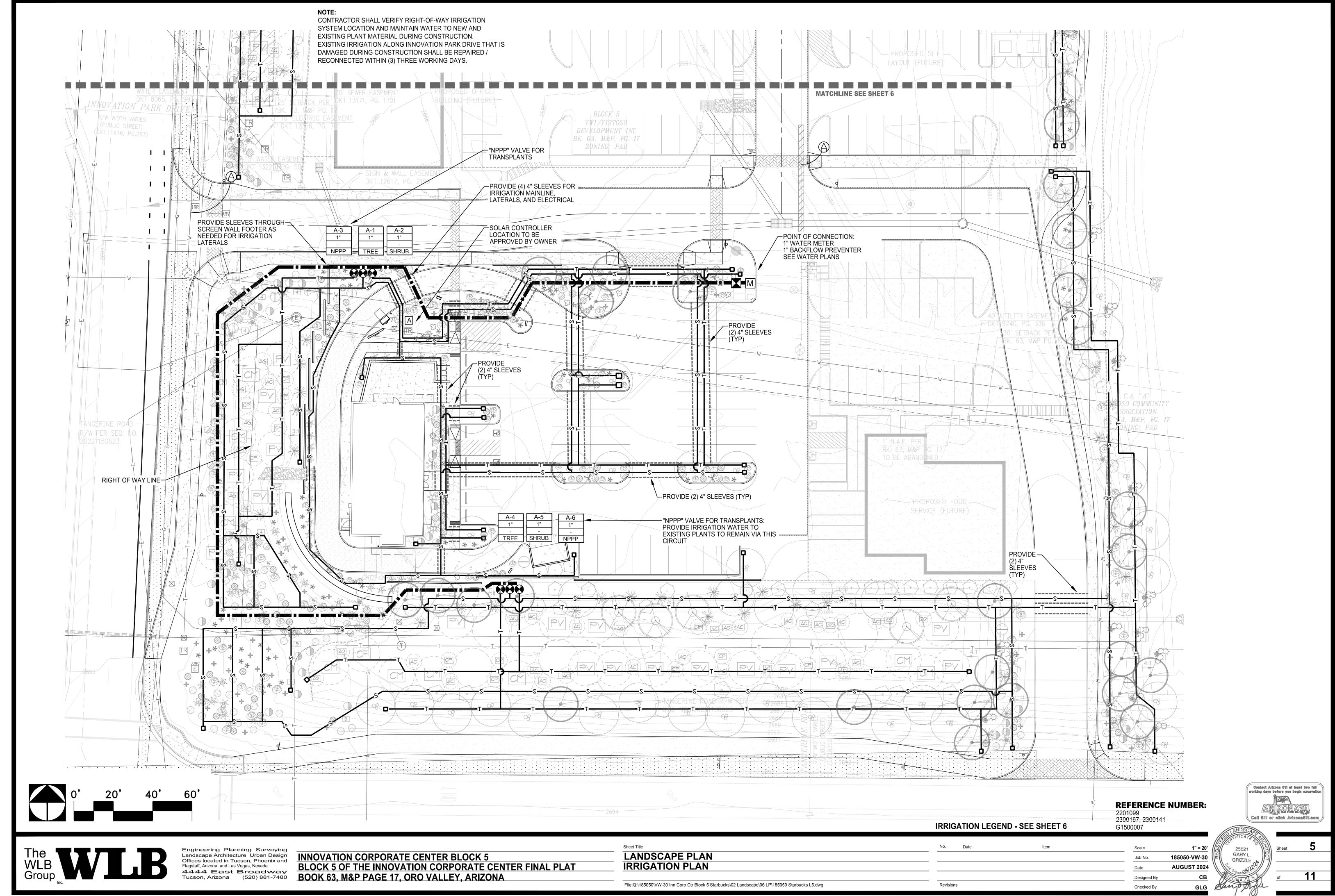
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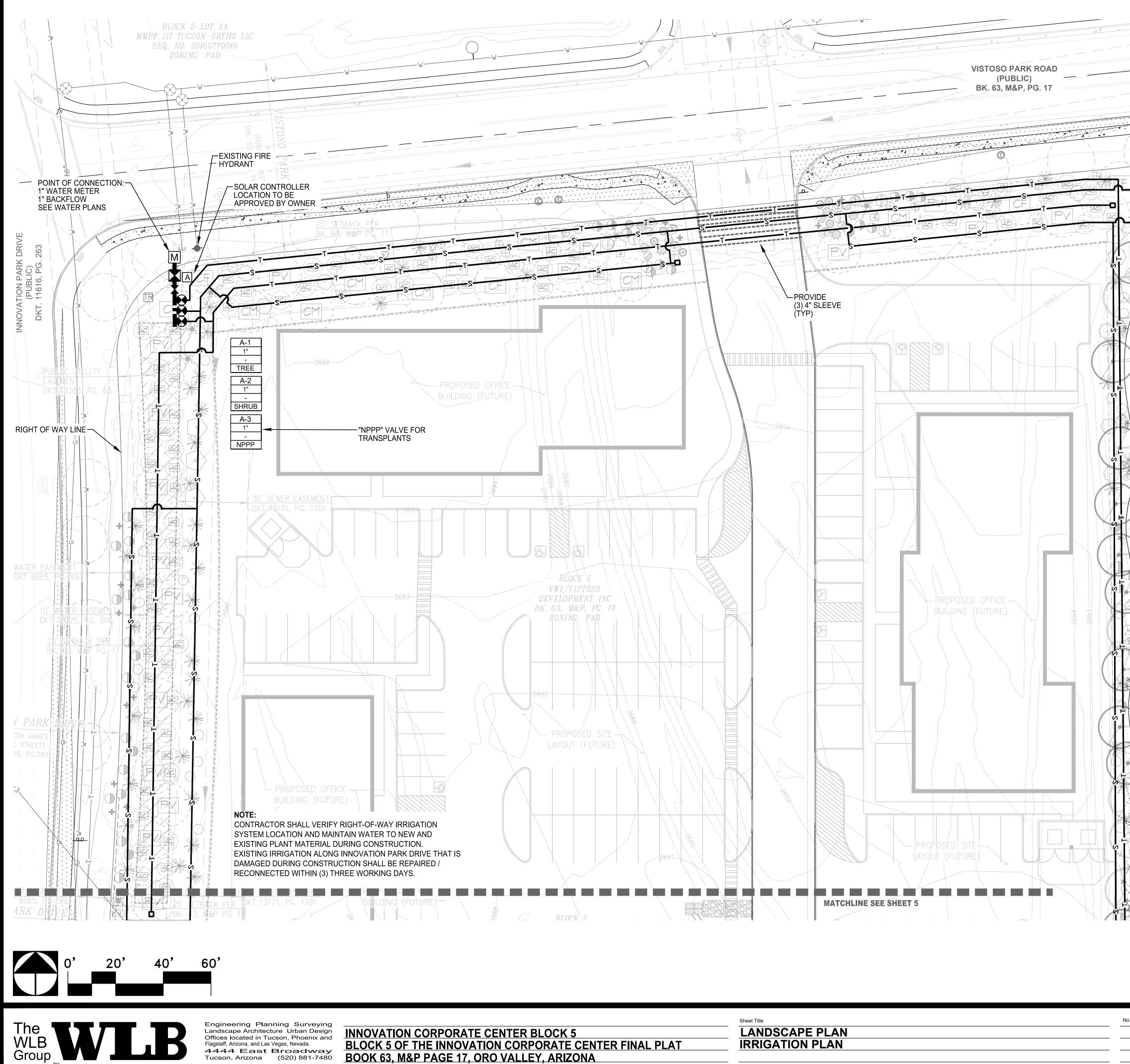
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BOOK 63, M&P PAGE 17, ORO VALLEY, ARIZONA

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IRRIGATIO	DN LEGEND		
SYMBOL	DESCRIPTION	MANUFACTURER/MODEL	COMMENTS
Μ	WATER METER		1" SIZE. SEE WATER PLANS
	BACKFLOW PREVENTER IN ENCLOSURE	FEBCO 825Y-A, 1" SIZE. SEE WATER PLANS	GUARDSHACK ENCLOSURE GS-3, COLOR: WOODLAND TAN. INSTALL TAN COLOR GUARDSHACK R30 "FROSTGUARD" BLANKET
X	ISOLATION VALVE	NIBCO T-113K BRASS GATE VALVE, OR EQUAL	LINE SIZE, IN VALVE BOX BOX SIZE: AMETEK 10" ROUND, OR EQUAL. COLOR: TAN
A	IRRIGATION CONTROLLER	LEIT XRC06 SOLAR CONTROLLER 6 STATION. IN STAINLESS STEEL ENCLOSURE (ENCL-X) AND ON 35" MOUNTING COLUMN	REMOTE CONTROL HANSET -LEIT MULTI-PRO LOCATION TO BE APPROVED BY OWNER.
	REMOTE CONTROL VALVE ASSY. (TREE/SHRUB)	CONTROL VALVE: IRRITROL 700 P SERIES, OR EQUAL. BALL VALVE: KBI PVC BALL VALVE, OR EQUAL. PRESSURE REGULATOR: RAIN BIRD PSI-M40X-100 WYE FILTER: RAIN BIRD RBY-150-MX, OR EQUAL	SIZE PER PLAN. PROVIDE DC SOLENOIDS. INSTALL IN VALVE BOX (ONE VALVE PER BOX). BOX SIZE: AMETEK "JUMBO", OR EQUAL. COLOR: TAN
NOT SHOWN	MULTI-OUTLET EMITTER - TREE (NOT SHOWN)	RAIN BIRD XBT-20-6 MULTI-OUTLET XERI-BUG, OR EQUAL	NOT SHOWN ON PLAN. PROVIDE (1) TO EACH TREE. BOX SIZE: AMETEK 6" ROUND, OR EQUAL. COLOR: TAN
	MAIN LINE	SCH. 40 PVC PIPE - 1 1/2"	SCH. 80 FITTINGS. SOLVENT WELD
	SLEEVE	SCH. 40 PVC PIPE	SCH 40 PVC. 4" DIA.
т	TREE IRRIGATION	SCH. 40 PVC PIPE	SIZE 1 1/2"
s	TREE IRRIGATION LATERAL	SCH. 40 PVC PIPE	SIZE 1 1/2"
•	FLUSH END	SEE DETAIL	LOCATE AT END OF LATERAL RUN IN VALVE BOX, 10" ROUND SIZE. BOX COLOR: TAN

ISTOSO COMMUNI ASSOCIATIC

K. 63. M&P.

No. Date

Revisions

- **IRRIGATION NOTES**
- p_{AD} 1. IRRIGATION PLAN IS SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. INSTALL EQUIPMENT WITHIN PLANTING AREAS WHEREVER POSSIBLE.
- 2. IRRIGATION SYSTEM IS DESIGNED FOR 55 PSI AND 20 GPM MINIMUM AT THE POINT OF CONNECTION. CONFIRM PRIOR TO START OF WORK. ADVISE LANDSCAPE ARCHITECT IF PRESSURE EXCEEDS 125 PSI.
- 3. MAKE IRRIGATION POINT OF CONNECTION AS INDICATED ON PLANS AND COORDINATE WITH OTHER WORK AS REQUIRED.
- 4. EXACT LOCATION OF CONTROLLER AND BACKFLOW PREVENTOR TO BE APPROVED PRIOR TO INSTALLATION.
- 5. DO NOT MECHANICALLY TRENCH WITHIN DRIP LINE OF EXISTING TREES OR NEAR CACTUS. WHERE TRENCHING WITHIN DRIP LINE IS NECESSARY, ONLY HAND TRENCHING WILL BE PERMITTED. REVIEW WITH LANDSCAPE ARCHITECT PRIOR TO START OF TRENCHING.
- CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES. 6.
- 7. INSTALL PIPE AND WIRE UNDER PAVING IN PVC SCH. 40 SLEEVE, SIZE AS REQUIRED. COORDINATE WITH OTHER WORK AS REQUIRED.
- 8. INSTALL LATERALS DRIP EMITTERS AS REQUIRED TO PROVIDE IRRIGATION TO ALL NEW PLANTS
- 9. INSTALL FLUSHABLE-TYPE END CAP AT ENDS OF ALL LATERAL LINES AND FLUSH THOROUGHLY
- 10. FOR CACTI, SHRUBS & GROUNDCOVER : INSTALL SINGLE OUTLET EMITTERS AS FOLLOWS: (2) 2-GPH EMITTERS AT EACH 5 GALLON PLANT (1) 2-GPH EMITTERS AT EACH 1 GALLON PLANT. MULTI-OUTLET EMITTERS MAY BE SUBSTITUTED FOR INDIVIDUAL EMITTERS.
 - FOR TREES: INSTALL MULTI-OUTLET EMITTER AS FOLLOWS:
 - (3) 2-GPH EMITTERS AT EACH 15 GALLON TREE (6) 2-GPH EMITTERS AT EACH 24" BOX SINGLE OUTLET EMITTER - RAIN BIRD MULTI-OUTLET EMITTER - RAIN BIRD XB-20-6
- 11. USE SHORT PIECES OF DISTRIBUTION TUBING (MAXIMUM LENGTH 10') TO EXTEND EMITTERS TO EACH ROOTBALL. HOLD IN PLACE WITH STAKES.
- 12. REVIEW EMITTER LAYOUT WITH ARCHITECT AND ADJUST NUMBER OF EMITTERS FOR SPECIFIC PLANTS THAT REQUIRE GREATER OR LESSER VOLUME OF WATER THAN INDICATED.
- 13. ALL BURIED IRRIGATION PIPE GREATER THAN TWO INCHES IN DIAMETER SHALL HAVE A #18 UF TYPE TRACER WIRE ATTACHED SECURELY TO IT AT 8 FT. INTERVALS. AT THE TERMINATION POINT ATTACH WIRE SECURELY TO PIPE AND PROVIDE TWELVE INCHES OF TRACER WIRE ACCESSIBLE ABOVE GRADE.
- 14. ALL WATER USE FOR LANDSCAPE IRRIGATION AND ENHANCEMENT SHALL CONFORM TO THE ARIZONA GROUNDWATER CODE, ARIZONA REVISED STATUTES 45, CHAPTER 2.

TYPICAL VALVE CALL OUT

- A-1 CONTROLLER & VALVE NUMBER
- SIZE OF VALVE 1" - ZONE DESIGNATION

Item



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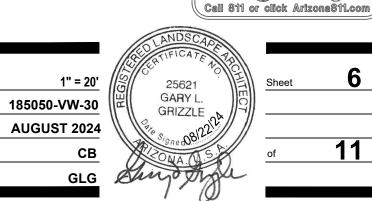
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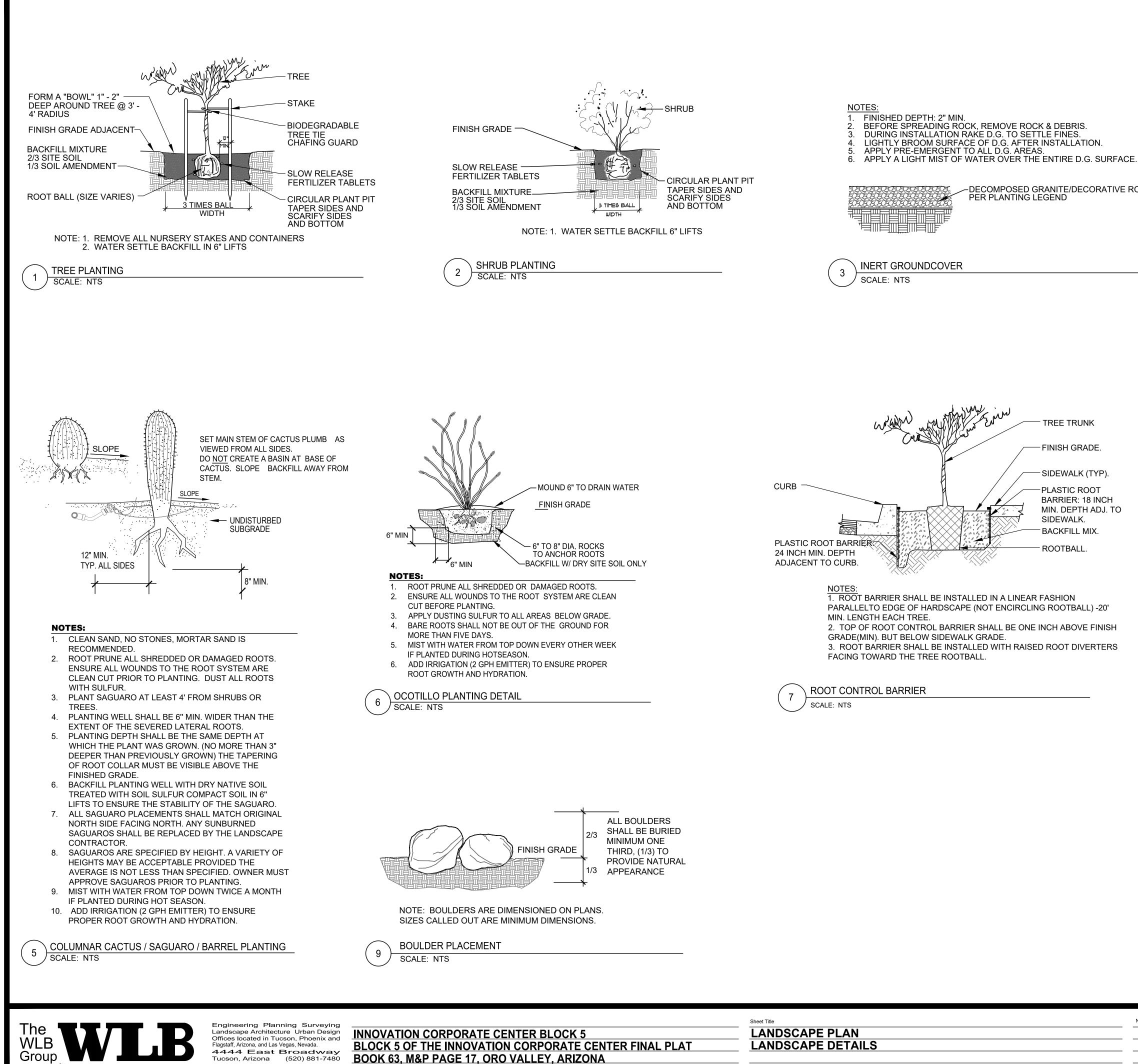
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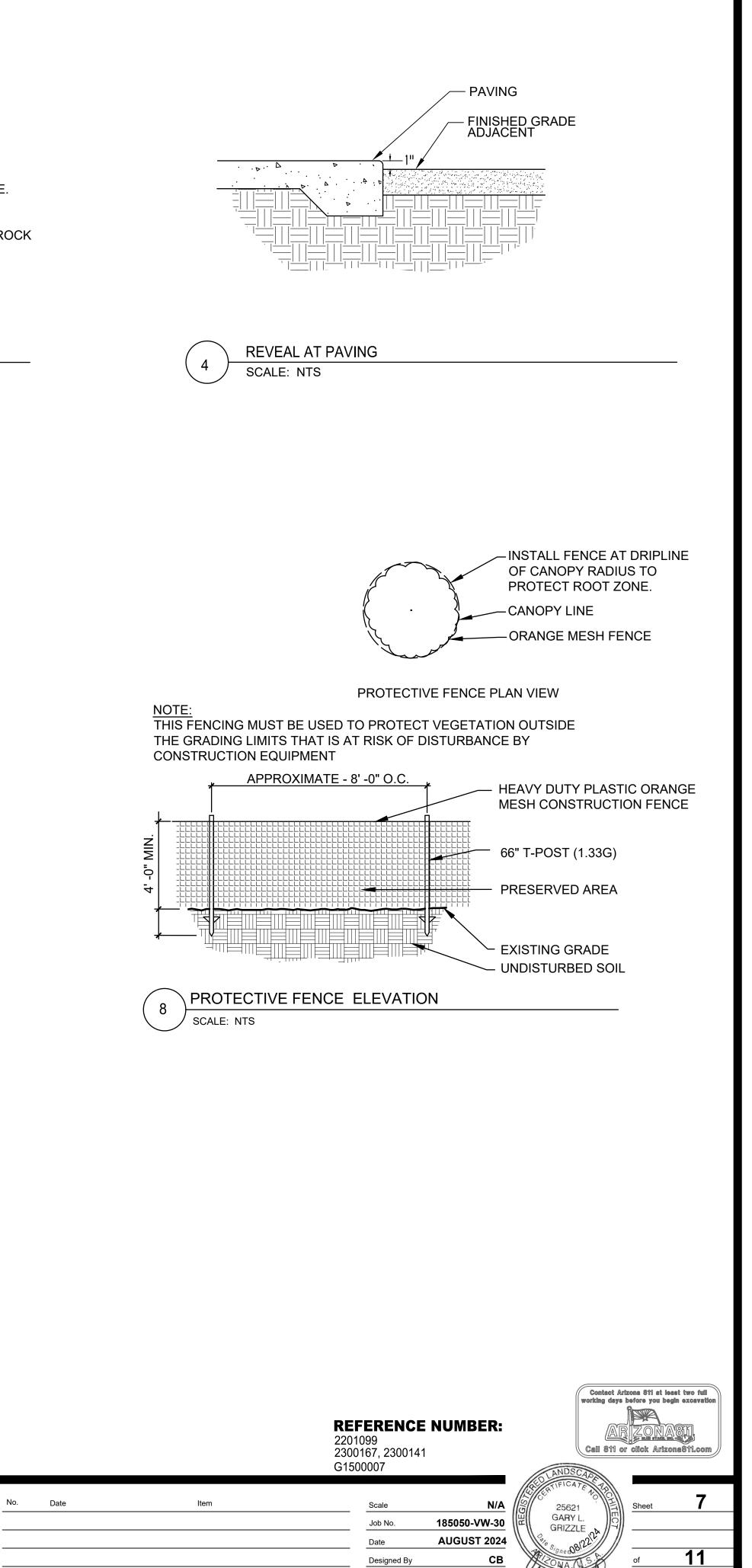
Contact Arizona 811 at least two full working days before you begin excavation

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DECOMPOSED GRANITE/DECORATIVE ROCK

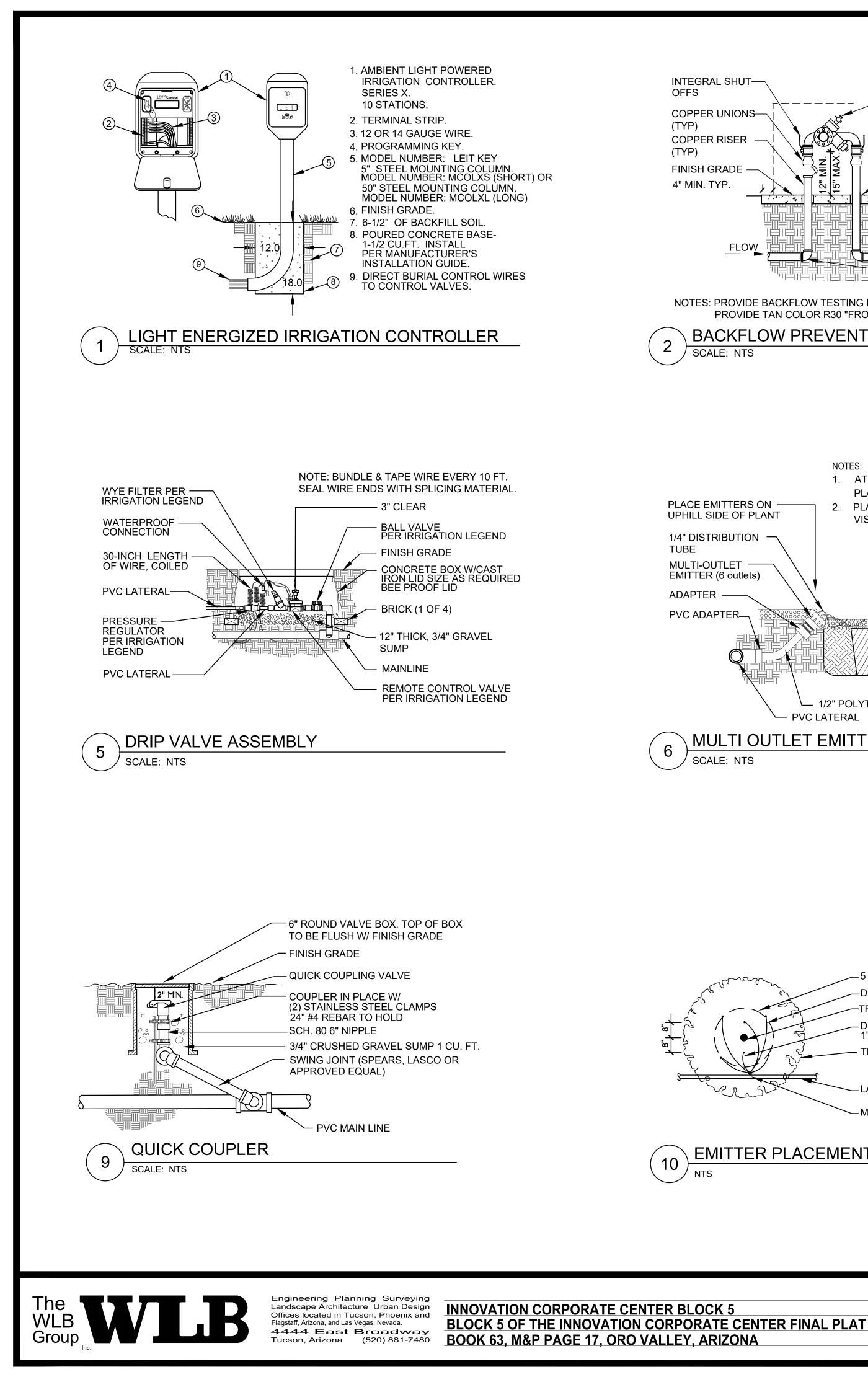
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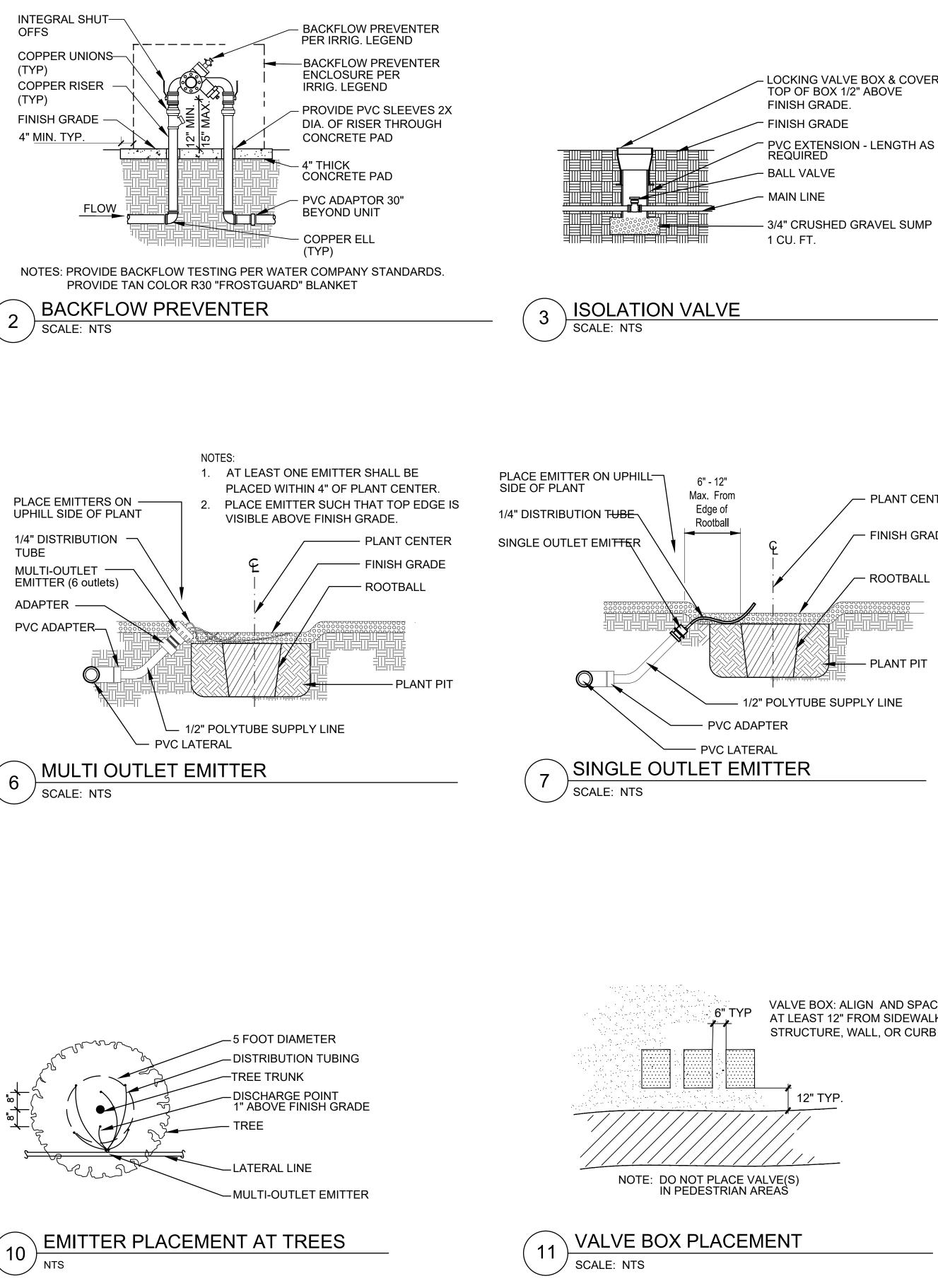


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Sheet Title LANDSCAPE PLAN **IRRIGATION DETAILS**

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LOCKING VALVE BOX & COVER

NOTE: TAPE & BUNDLE TUBING AND WIRING AT 10' INTERVALS ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED AS PER LOCAL CODES ALL PVC PIPING TO BE SNAKED IN TRENCHES AS SHOWN

> PIPE BEDDING MATERIAL TO BE ROCK & DEBRIS FREE, BACKFILL IN 6" LIFTS, PUDDLE WITH WATER, BETWEEN LIFTS.

MAIN

SUPPLY

PVC

LATERAL

THRUST BLOCK ALL DIRECTION CHANGES OF THE MAINLINE WITH 1 C.F. OF 3000 P.S.I. CONCRETE

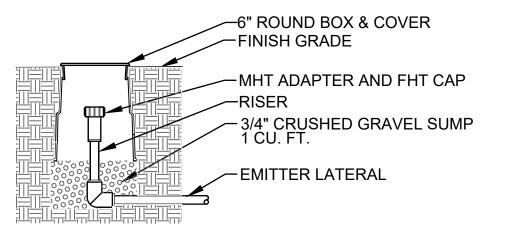


- PLANT CENTER

- FINISH GRADE

- ROOTBALL

PLANT PIT



FLUSH END 8 SCALE: NTS

VALVE BOX: ALIGN AND SPACE EVENLY AT LEAST 12" FROM SIDEWALK, STRUCTURE, WALL, OR CURB

> Contact Arizona 811 at least two full working days before you begin excavation **REFERENCE NUMBER:** 2201099 Call 811 or click Arizona811.com 2300167, 2300141 G1500007 No. Date Item Scale 25621 Sheet GARY L. 185050-VW-30 Job No. GRIZZLE AUGUST 2024 Date 11 СВ Designed By Revisions GLG Checked By

LANDSCAPE WORK

PART 1 - GENERAL

- 1.1 SUMMARY
- A. This Section includes the following: 1. Trees, Shrub and Cacti. 2. Inert Ground Cover.
- 1.2 SUBMITTAL REQUIREMENTS
- A. General: The Contractor shall make the submittals identified below. Submittals shall be approved prior delivery or placement of materials.
- B. Certificates of Compliance: Submit 3 copies of the following certificates of compliance to the Owner's Representative for review and approval:
- 1. Fertilizer, Soil Sulfur, Gypsum, Manganese Sulfate: Manufacturer's certified statement of analysis for each.
- 2. Organic Soil Conditioner: A certificate, signed by the supplier, stating that the product complies with the project specifications
- 3. Soil Stabilizer: Manufacturer's certified statement of analysis.
- C. Materials Test Reports: for existing surface soil and imported soil.
- D. Samples for Verification: For each of the following provide the following samples: 1. 5 lb of decomposed granite mulch for the color and gradation of decomposed granite proposed for use on the project, in labeled plastic bag.
- 1.3 COMPLIANCE WITH APPLICABLE REGULATIONS
- A. The Contractor shall comply with all local, state, and federal regulations regarding materials, methods of work, and disposal of excess and waste materials. The Contractor shall provide notices required by all governmental authorities, request required inspections, obtain required permits, and pay for all associated fees.
- 1.4 QUALITY ASSURANCE
- A. Installer Qualifications: All work shall be performed by a Contractor licensed by the State of Arizona Register of Contractors. The commercial license held by the Contractor shall be appropriate for the work being performed. 1. The Contractor shall maintain an experienced full-time supervisor on Project site
 - during the construction period.
- B. Observation: Owner's Representative may observe plants either at place of growth or at site before planting for compliance with requirements for genus, species, variety, size, and quality. Owner's Representative retains right to observe plants further for size and condition of balls and root systems, insects, injuries, and latent defects and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected plants immediately from Project site. Owner's Representative may observe any and all plant pits prior to backfilling or planting.
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. Do not prune trees, shrubs and cacti before delivery, except as approved by Owner's Representative. Protect bark, branches, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees, shrubs or cacti in such a manner as to destroy their natural shape. Provide protective covering of plants during delivery. Do not drop plants during delivery.
- B. Deliver plants after preparations for planting have been completed and install immediately. If planting is delayed more than six hours after delivery, protect from weather and mechanical damage, and keep roots moist. Do not remove container-grown stock from containers before time of planting.
- C. Inorganic Soil Amendments: Deliver in original sealed, labeled, and undamaged containers.
- D. Fertilizer: Deliver in original sealed, labeled, and undamaged containers.
- 1.6 COORDINATION
- A. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit.
- B. Work that is completed or in-progress shall be protected during installation of landscape work. The Contractor shall coordinate all landscape related work with the Owner's Representative.
- 1.7 GUARANTEE
- A. The Contractor shall guarantee all Contractor provided plants for the period indicated, commencing on the date of Final Acceptance, against all defects including death and unsatisfactory growth, except for defects resulting from lack of adequate maintenance, neglect, or abuse by Owner, causes deliberate, or incidents that are beyond Contractor's control.
- 1. Guarantee Period for Trees, Shrubs and Cacti: One year from date of Substantial
- Completion. 2. Remove dead plants immediately. Replace immediately unless directed otherwiseby
- Owner's Representative 4. Replace plants that are diseased, or that exhibit more than 25 percent die-back, at end of guarantee period.
- 5. A limit of one replacement of each plant will be required, except for losses or replacements due to failure to comply with requirements.
- 6. Include the following remedial actions for turf as a minimum: a. Immediately remove dead turf and replace. b. Repair failed areas due to erosion, replace erosion control materials in failed areas.

1.8 MAINTENANCE DURING CONSTRUCTION

- Owner.

 - free of insects.

Item No.	Task Work Item Description	Task Work Item Description	Time Frame
1	Prune Plants	Once	4th Month
2	Fertilize Plants	Once	4th Month
3	Irrigate Plants	Adjust per Season	
4	Weed All Areas	2x Month	
5	Apply Pre-Emergent Herbicide	Once	4th Month
6	Ensure Soil Conditions	Once	2nd Month
7	Insect, Rodent and Disease Control	Monthly	
8	Granite Areas	Monthly	
9	Police Site	Weekly	

The frequencies of the tasks stated above are suggested minimums only. During extremely wet or dry periods, the Contractor must adjust schedules to ensure correct and proper conditions are maintained.

- for landscape maintenance

PART 2 - PRODUCTS

- 2.1 TREE, SHRUB, AND CACTI MATERIAL
- review and approval.
- abrasions, and disfigurement.
- cause a hardening of the root system.



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INNOVATION CORPORATE CENTER BLOCK 5 BOOK 63. M&P PAGE 17. ORO VALLEY, ARIZONA

A. The Contractor shall maintain throughout the construction period all trees, shrubs, cacti, decomposed granite, and other landscape improvements. Maintenance during construction shall continue until the issue of a Certificate of Substantial Completion. All maintenance and plant replacements throughout the construction period shall be at no additional cost to the

1. Trees, Shrubs and Cacti: During the construction, maintain by pruning, cultivating, watering, weeding, fertilizing, restoring planting saucers, tightening and repairing stakes and guy supports, clean-up and resetting to proper grades or vertical position, as required to establish healthy, viable plantings. Spray as required to keep trees, shrubs, and cacti

Decomposed Granite (including stabilized and field mixes): During the construction, maintain by raking, weeding, recompacting, reapplying, regrading, and repairing eroded areas. Protect field areas from traffic.

B. Inspection of Completed Landscape Work: Upon completion of the landscape work, the Contractor shall notify the Owner's Representative who will schedule an inspection of the landscape improvements. During the inspection, items that are incomplete or that must be repaired or replaced will be identified. Completion or correction of items noted will be required prior to the issuance of a Certificate of Substantial Completion.

1.9 MAINTENANCE AFTER SUBSTANTIAL COMPLETION

A. Maintenance Period: Six months from date of Substantial Completion for trees, shrubs, cactus and other landscape improvements. All work shall be performed in a professional manner within the standards of the industry, using quality equipment methods and materials.

B. Work Schedule: Contractor will supply the Owner's Representative with a proposed schedule of the expected day and time tasks listed below will be performed. This schedule shall be approved prior to project maintenance commencement.

C. After satisfactory completion of the maintenance period, the Owner will assume responsibility

1.10 SUSPENSION OF MAINTENANCE PERIOD FOR NON-COMPLIANCE

A. Failure to comply with the specified maintenance requirements, as determined by the Owner's representative, may result in the suspension of the maintenance period until such time as the required remedial actions have been completed by the Contractor. A number of days equal to the number of days of the suspension will be added to the maintenance period.

A. General: All Contractor-provided plants used on the project shall be subject to the Owner's

B. Plant Form and Quality: All plants shall comply with the project specifications, be normally developed individuals of their species. Provide well-shaped, fully branched, healthy, vigorous stock free of disease, insects, eggs, larvae, and defects such as knots, sun scald, injuries,

C. Grade: Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1, "American Standard for Nursery Stock" or "Arizona Nurseryman's Association Recommended Average Tree Specifications", whichever is the more stringent. Trees, shrubs, and cacti of a larger size may be used if acceptable to Owner's Representative and at no additional cost to Owner.

D. Plant Root Systems: All plants shall have healthy root systems. Container-grown plants shall have been in containers for a sufficient time for the root system to hold the soil when the plant is removed from the container, but not long enough for the plant to become root-bound or to

E. Label at least one tree, shrub, and cacti of each variety and caliper with a securely attached, waterproof tag bearing legible designation of botanical and common name.

2.2 PREPARED PLANTING SOIL MIX FOR TREES, SHRUBS, AND CACTI

- following soil amendments and fertilizers in the following quantities per cubic yard:
- placement in plant pits.
- each cactus.

- water-insoluble nitrogen, and phosphorus in the following composition:
- clay, and other foreign substances.
- the project, stakes longer than specified shall be used at no cost to the Owner.
- trunks from damage. Cut tree ties are not acceptable.
- 2.6 HORTICULTURAL CHEMICALS
- fully labeled containers and mixed according to manufacturer's written instructions.
- containers and mixed according to manufacturer's written instructions.

- 3.1 EXAMINATION
- been corrected.

3.2 BLUE STAKING

3.6 TREE AND SHRUB PRUNING A. Prune, thin, and shape trees and shrubs according to standard horticultural practice. Unless otherwise A. Planting Soil Mix: Planting soil shall be native topsoil mixed to a uniform volume and loose measure, with the indicated by Owner's Representative, do not cut tree leaders; remove only injured or dead branches. Prune shrubs to ANA Standards to retain natural character. Shrub sizes indicated are sizes after 1. Trees and Shrubs: 20 cubic feet of (native) topsoil, 7 cubic feet of organic soil conditioner, 2 lbs soil pruning. sulfur, 1 lb of fertilizer (16-20-0). The prepared planting soil shall be thoroughly blended prior to 1. All dead wood, suckers, broken or bruised branches shall be removed. 2. Pruning shall be carried out with clean, sharp tools. 2. Cacti: Planting soil shall be native topsoil with 0.25 lbs of soil sulfur incorporated into the soil backfill at 3. If, in the opinion of the Owner's Representative, pruning results in a plant not natural in character, the plant shall be replaced by the Contractor at no additional cost to the Owner. 2.3 FERTILIZER 3.7 TREE STAKING A. General Requirements: All fertilizers used on the project shall be in pelleted form and of recent manufacture. A. Upright Staking and Tying: Stake trees as detailed on the drawings. Use a minimum of 2 stakes of B. Slow-Release Fertilizer for Tree and Shrub Planting: Ammonium Phosphate consisting of 50 percent length required to penetrate at least 18 inches below bottom of backfilled excavation and to extend at least 72 inches above grade. Set vertical stakes and space to avoid penetrating root balls or root masses. Support trees with two tree ties at contact points with tree trunk. Allow enough slack to avoid 1.Composition: 16 percent nitrogen, 20 percent phosphoric acid by weight. rigid restraint of tree. Use the number of stakes shown on the drawings. 1. Staking and tying shall be capable of supporting the plant, without repair, for two years. 2.4 INERT GROUNDCOVER 3.8 INORGANIC SURFACING INSTALLATION A. Decomposed Granite: Decomposed granite shall be durable granite material size as shown on the plan. Except as may be approved by the Owner's Representative, all materials used on the project shall be from A. Decomposed Granite Surfacing: All areas to be surfaced with decomposed granite shall be brought to the same source and shall match the approved sample. Decomposed granite shall be free of loam, sand, the lines and grades shown on the plans, with allowance made for depth of the decomposed granite. Install decomposed granite in accordance with the project drawings. 1. Type: As indicated on plans. 1. A reveal shall be provided adjacent to paved surfaces as shown on the project drawings. Where not detailed, the reveal shall be $\frac{3}{4}$ inch. 2.5 TREE STAKING 3.9 HORTICULTURAL CHEMICALS A. Tree Stakes: Tree Stakes shall be 2-inch (minimum) diameter by 8 feet (minimum) long peeled Lodge Pole Pine stakes. Treat with an EPA approved wood preservative. If required to support properly trees used on A. Herbicides: Herbicides shall be applied according to manufacturer's written instructions by an Applicator licensed by the state of Arizona. B. Tie Wire: 12 gauge, annealed, galvanized wire. 3.10 CLEANUP AND PROTECTION C. Chafing Guard: Biodegradable cotton tree ties with brass eyelet, provided in lengths required to protect tree A. During landscape operations, keep adjacent paving and construction clean and work area in an orderly condition. B. Protect all plants and decomposed granite areas from damage due to landscape operations, operations by other contractors and trades, and others. Maintain protection during installation and maintenance A. Pre-Emergent Herbicide: "Surflan" or "Pendulum", or approved equal. Delivered in original, sealed, and periods. Treat, repair, or replace damaged items. C. Promptly remove soil and debris created by landscape work from paved areas. Clean wheels of B. Post-Emergent Herbicide: "Round-Up", or approved equal. Delivered in original, sealed, and fully labeled vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas. D. Erect barricades and warning signs as required, to protect newly landscaped areas from traffic. PART 3 - EXECUTION 3.11 DISPOSAL A. Disposal: Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and A. Examine areas to receive plants and decomposed granite for compliance with requirements and conditions debris and trimmings, and dispose of them legally off Owner's property. affecting installation and performance. Proceed with installation only after unsatisfactory conditions have A. The Contractor shall have the work area Blue-Staked prior to the start of any excavation work. Blue Staking shall be kept current throughout the course of the work. All utilities damaged by the Contractor shall be repaired or replaced by the Contractor, as required by the Owner or applicable utility company, at the Contractor's expense. A. Protect structures, utilities, sidewalks, pavements and other facilities and existing plants from damage caused by landscape operations. B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways. C. Lay out individual tree locations. Stake locations, adjust locations when requested, and obtain Owner's Representative's acceptance of layout before planting. Make minor adjustments as required. 3.4 TREE AND SHRUB PIT EXCAVATION A. Seasonal Limitations: The planting of trees and shrubs may be done at any time selected by the Contractor consistent with the overall project schedule. Planting during excessively hot, cold, or windy weather shall be at the Contractor's risk. Plants that die or are damaged as a result of weather conditions shall be replaced by the Contractor at no additional cost to the Owner. B. Excavation of Plant Pits: Excavate circular pits with sides sloped inward, pit size according to the drawings. Do not disturb sub-grade. Scarify sides of plant pit if smeared or smoothed during excavation. C. Subsoil removed from excavations may be amended as specified and used as backfill. D. Obstructions: Do not install any plant if a large obstruction is encountered below the rootball. Notify Owner's Representative if unexpected rock or obstructions detrimental to trees, shrubs or cactus are encountered in excavations. E. Tests for Drainage: Partially fill plant pits with water and allow water to percolate away. For acceptance, all pits shall drain at least 6" per hour. All pits not draining at 6" per hour shall be deepened or relocated as directed by Owner's Representative. Drainage testing for up to 25 percent of all tree pits shall be performed by the Contractor at no additional cost to the Owner. 1. Deepening Tree Pits: Drill 6-inch diameter holes into free-draining strata or to a depth of ten feet, whichever is less, and backfill with free-draining material. 2. Deepening all tree pits shall be performed by the Contractor at no additional cost to the Owner. 3.5 TREE AND SHRUB PLANTING B. Set container-grown stock plumb and in center of pit or trench with top of root ball one inch above adjacent finish grades. Plants that settle shall be excavated and re-planted at correct grade. 1. Carefully remove root ball, immediately prior to planting, from container, without damaging root ball, stems or foliage. Damaged plants shall be replaced by the Contractor at no additional cost to the Owner 2. Backfill planting soil mix around root ball in layers, tamping to settle mix and eliminate voids and air Contact Arizona 811 at least two full vorking days before you begin excave pockets. When pit is approximately one-half backfilled, water thoroughly before placing remainder of N/A backfill. Repeat watering until no more water is absorbed. Water again after placing and tamping final **REFERENCE NUMBER:** layer of planting soil mix. 2201099 Call 811 or click Arizona811.con 2300167, 2300141 G1500007

- 3.3 SITE PREPARATION

Sheet Title LANDSCAPE PLAN LANDSCAPE SPECIFICATIONS

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Item	Scale N/A	25621 IT	Sheet	9
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	Checked By GLG	Shingthe		
	Item	Job No. 185050-VW-30 Date AUGUST 2024 Designed By CB	Job No. 185050-VW-30 GARY L. Date AUGUST 2024 Sane 08121 Designed By CB CB	Job No. 185050-VW-30 GARY L. Date AUGUST 2024 GRIZZLE Designed By CB ONA. (15.1) of

IRRIGATION PART 1 - GENERAL PART 2-PRODUCTS 1.1 RELATED DOCUMENTS 2.1 PIPES, TUBES, AND FITTINGS A. Codes and Standards: A. Comply with requirements for applications of pipe, tube, and fitting materials, and 1. NFPA 70: National Electric Code for joining methods for specific services, service locations, and pipe sizes. 2. American Water Works Association (AWWA) for pipe and fitting manufacturer B. PVC Pipe: ASTM D 1785, PVC 1120 compound, Schedule 40. 1. PVC Socket Fittings: ASTM D 2466, Schedule 40. compliance 3. American Society for Testing and Materials International (ASTM) for pipe and 2. PVC Threaded Fittings: ASTM D 2464, Schedule 80. fitting manufacturer compliance 3. PVC Socket Unions: Construction similar to MSS SP-107, except both headpiece and tailpiece shall be PVC with socket ends. 1.2 SUMMARY 2.2 PIPING JOINING MATERIALS A. Section Includes: 1. Piping. A. Solvent Cements for Joining PVC Piping: ASTM D 2564. Include primer according 2. Encasement for piping. to ASTM F 656. 3. Manual valves. B. Plastic, Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by 4. Automatic control valves. piping system manufacturer unless otherwise indicated. 5. Transition fittings. Miscellaneous piping specialties. 2.3 ISOLATION VALVES 7. Quick couplers. 8. Drip irrigation specialties. Isolation Valves shall be as indicated on the irrigation plans. 9. Controllers. 10. Boxes for automatic control valves. 2.4 AUTOMATIC CONTROL VALVES 11. Backflow Preventer. 12. Evapo-transpiration Sensor or Weather Station. A. Automatic Circuit Control Valves shall be as indicated on the irrigation plans. 1.3 DEFINITIONS 2.5 TRANSITION FITTINGS A. Circuit Piping: Downstream from control valves to sprinklers, specialties, and drain A. General Requirements: Same size as, and with pressure rating at least equal to valves. Piping is under pressure during flow. and with ends compatible with, piping to be joined. Provide products compatible B. Drain Piping: Downstream from circuit-piping drain valves. Piping is not under with piping, valves, heads and controllers for proposed system which conform to pressure. standards of practice. C. Main Piping: Downstream from point of connection to water distribution piping to, and including, control valves. Piping is under water-distribution-system pressure. 2.6 QUICK COUPLERS 1.4 PERFORMANCE REQUIREMENTS A. Quick-Coupling Valves shall be as indicated on the irrigation plans. A. Irrigation zone control shall be automatic operation with controller and automatic 2.7 DRIP IRRIGATION SPECIALTIES control valves. B. Location of Emission Devices and Specialties: It is hereby specified that the A. Drip Tubes: system shall be complete and fully operational covering 100% of the planted area. 1. Tubing: C. Minimum Working Pressures: The following are minimum pressure requirements a. Body Material: PE or vinyl. for piping, valves, and specialties, unless otherwise indicated: b. Mounting: On riser, inserted into lateral line at set intervals. 1. Minimum Pressure at drip emission devices: 15 psi. Capacities and Characteristics: As indicated on the irrigation plans. B. Emission Device: 1.5 CLOSEOUT SUBMITTALS 1. Emitter: As indicated on Irrigation Plans. C. Off-Ground Supports: Plastic stakes. A. As-built Drawings: Document the piping sizes and layout, each zone, zone type, D. Application Pressure Regulators: Brass or plastic housing, NPS ³/₄, with number of heads in each zone, note emitter spacing. In addition closeout corrosion-resistant internal parts; capable of controlling outlet pressure to submittals should include: approximately 30 psig. Controller Kevs. E. Filter Units: Brass or plastic housing, with corrosion-resistant internal parts; of size Controller manual. and capacity required for devices downstream from unit. Quick Coupler key. F. Air Relief Valves: Brass or plastic housing, with corrosion-resistant internal parts. 3 G. Vacuum Relief Valves: Brass or plastic housing, with corrosion-resistant internal As-built drawings. Submit 2 copies; one 11"x17" laminated copy, one full-sized copy. Submit parts. one electronic copy in .pdf format Controller schedule 2.8 CONTROLLERS Backflow preventer test certificate. 6. Warranty documents for the irrigation system. A. Controller shall be as indicated on the irrigation plans. 1. Provide 2 spare - unused controller zones. Provide expansion modules as Backflow preventer enclosure keys. 8. necessary to operate number of valves indicated on irrigation plans. 1.6 DELIVERY, STORAGE, AND HANDLING B. Mount at location indicated on the irrigation plans. 2.9 BOXES FOR AUTOMATIC CONTROL VALVES AND FLUSH ENDS A. Store plastic piping protected from direct sunlight. Support to prevent sagging and bending. A. Plastic Boxes shall be as indicated on the irrigation plans. Description: Box and 1.7 PROJECT CONDITIONS cover, with open bottom and openings for piping; designed for installing flush with grade. A. Interruption of Existing Water Service: Do not interrupt water service to facilities 1. Size: 10" Round-Isolation Valve; "Jumbo" Rectangular-Control Valve. One Valve per Box. occupied by Owner or others unless permitted under the following conditions and Shape: Round and Rectangular. then only after arranging to provide temporary water service according to requirements indicated: Sidewall Material: PE. 1. Notify Owner's Representative no fewer than two (2) days in advance of 4. Cover Material: PE. proposed interruption of water service. 5. Lettering: Irrigation Valve Box 2. Do not proceed with interruption of water service without Owner's 2.10 BACKFLOW PREVENTER Representative's permission. 1.8 MAINTENANCE SERVICE A. Provide backflow preventer on concrete pad in lockable enclosure as indicated on the irrigation plans A. Initial Maintenance Service: Provide full maintenance by skilled employees of a. Provide R-30 Insulation cover. irrigation installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until not less than the following period: 2.11 WEATHER SENSOR 1. Maintain until 30 days after handover and approved at "30 Day Walk." A. Weather Sensor shall be as indicated on the irrigation plans. 1.9 WARRANTY **PART 3 - EXECUTION** A. Special Warranty: Installer agrees to repair or replace irrigation and accessories tha 3.1 EARTHWORK fail in materials or workmanship within on-year warranty period. A. Install warning tape directly above pressure piping, 12 inches below finished grades, except 6 inches below subgrade under pavement and slabs. B. Provide minimum cover over top of underground piping according to the following: 1. Irrigation Main Piping: Minimum depth of 18 inches 2 Circuit Piping: 12 inches. 3. Drain Piping: 12 inches. 4. Sleeves: 24 inches.



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INNOVATION CORPORATE CENTER BLOCK 5 BLOCK 5 OF THE INNOVATION CORPORATE CENTER FINAL PLAT BOOK 63. M&P PAGE 17. ORO VALLEY, ARIZONA

- 3.2 PREPARATION
- A. Set stakes to identify locations of proposed irrigation system. Obtain Owner's Representative's approval before excavation. Notify Owner's Representative of any conflicts prior to installation.
- 3.3 PIPING INSTALLATION
- A. Location and Arrangement: Drawings indicate location and arrangement of piping systems.
- B. Install piping at minimum uniform slope of 0.5 percent down toward drain valves. C. Install piping free of sags and bends.
- D. Install group of pipes parallel to each other, spaced to permit valve servicing.
- E. Install fittings for changes in direction and branch connections. F. Install unions adjacent to valves and to final connections to other components with
- NPS 2 or smaller pipe connection. G. Install flanges adjacent to valves and to final connections to other components with NPS 2-1/2 or larger pipe connection.
- H. Install expansion loops in control-valve boxes for plastic piping.
- I. Lay piping on solid sub-base, uniformly sloped without humps or depressions. J. Install PVC piping in dry weather when temperature is above 40 deg F. Allow
- joints to cure at least 24 hours at temperatures above 40 deg F before testing.
- K. Install pressure regulators with shutoff valve and strainer on inlet and pressure gauge on outlet. Install shutoff valve on outlet. Install aboveground or in control-valve boxes.
- L. Install piping in sleeves under parking lots, roadways, and sidewalks. M. Install sleeves made of 4" Schedule 40 PVC pipe and socket fittings, and
- solvent-cemented joints. N. Install transition fittings for plastic-to-metal pipe connections according to the following:
- 1. Underground Piping:
- a. NPS 1-1/2 and Smaller: Plastic-to-metal transition fittings.
- b. NPS 2 and Larger: AWWA transition couplings.
- 2. Aboveground Piping (Not permitted in markets of freezing environments): a. NPS 2 and Smaller: Plastic-to-metal transition fittings and unions.
- b. NPS 2 and Larger: Use dielectric flange kits with one plastic flange.
- 3.4 JOINT CONSTRUCTION
- A. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe. B. Remove scale, slag, dirt and debris from inside and outside of pipe and fittings before assembly
- C. PVC Piping Solvent-Cemented Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:
- 1. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements.
- 2. PVC Pressure Piping: Join schedule number, ASTM D 1785, PVC pipe and PVC socket fittings according to ASTM D 2672. Join other-than-schedule-number PVC pipe and socket fittings according to ASTM D 2855.
- 3. PVC Non-pressure Piping: Join according to ASTM D 2855.

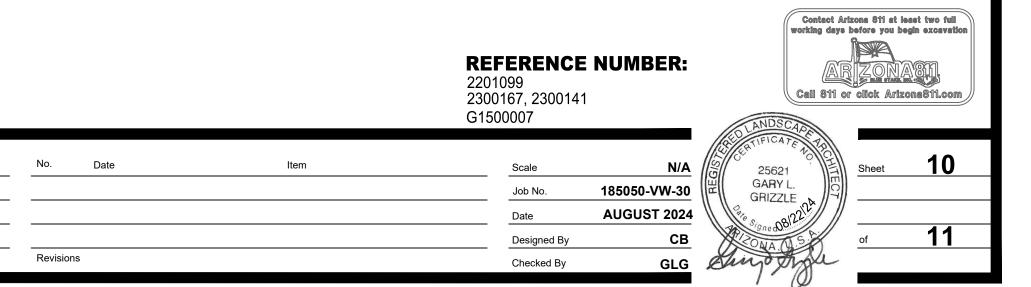
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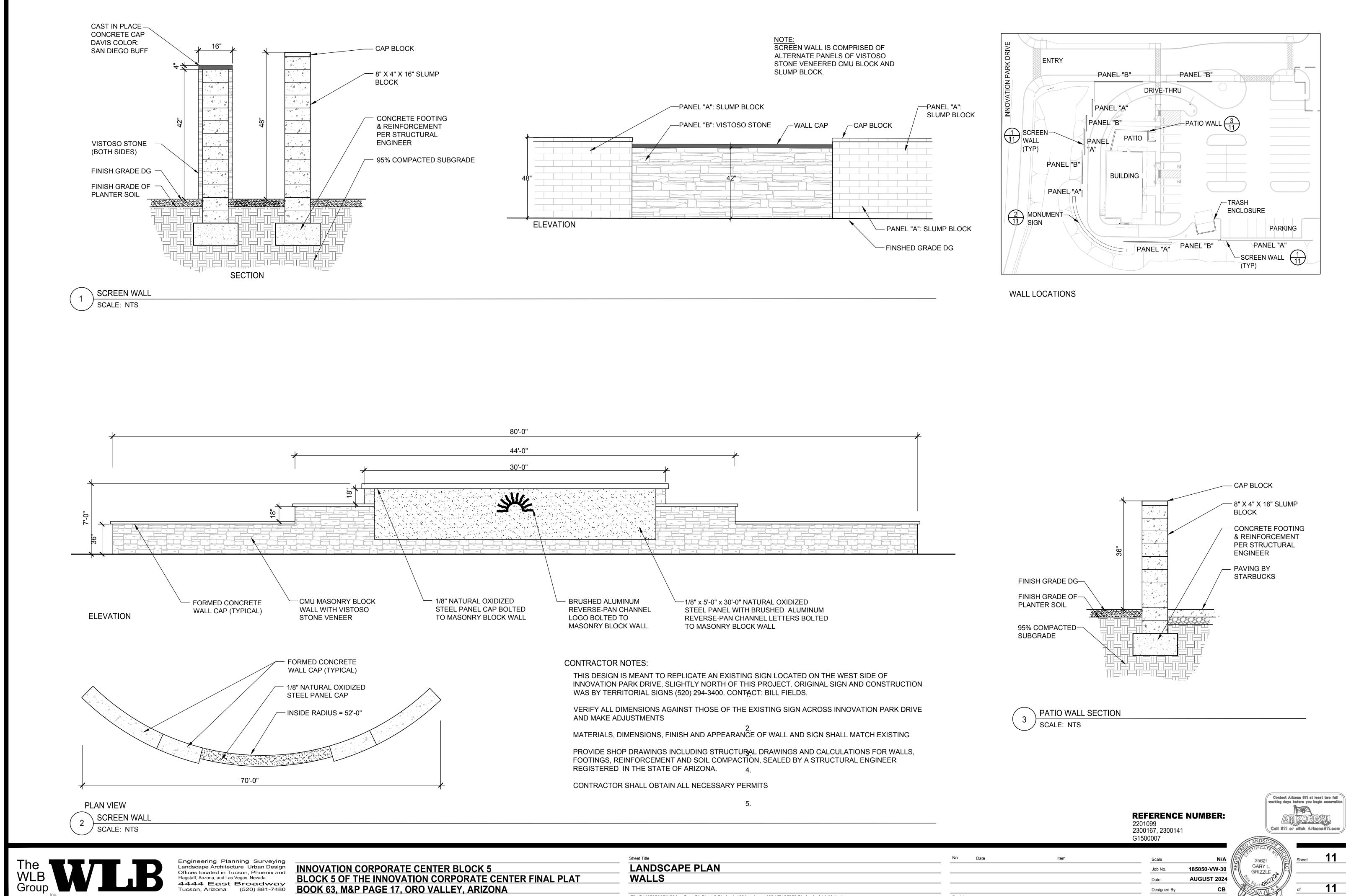
3.5 VALVE INSTALLATION

- A. Valve (All) Location:
- 1. Valve and Control Boxes must be a minimum 3' behind face of curb or sidewalk. 2. Top of all Irrigation Boxes must be at grade or slightly above. Above-ground Valves: Install as components of connected piping system.
- 3.6 DRIP IRRIGATION SPECIALTY INSTALLATION
- A. Install freestanding emitters on pipe riser to mounting height indicated. B. Install manifold emitter systems with tubing to emitters. Plug unused manifold
- outlets. Install emitters on off-ground supports at height indicated. C. Install multiple-outlet emitter systems with tubing to outlets. Plug unused emitter
- outlets. Install outlets on off-ground supports at height indicated. D. Install drip tubes with direct-attached emitters on in 6" round valve boxes.
- E. Install drip tubes with remote-discharge in 6" round valve boxes. with outlets on off-ground supports at height indicated
- Install off-ground supports of length required for indicated mounted height of device.
- G. Install drip assembly pressure regulator and filter below grade in a 10" round valve box as shown on the detail. Locate within 2' of the electronic control valve.
- 3.7 AUTOMATIC IRRIGATION-CONTROL SYSTEM INSTALLATION
- A. Equipment Mounting: Install interior controllers in Low Voltage Cabinet. 1. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded. 2. Install anchor bolts to elevations required for proper attachment to supported equipment.
- B. Install control wire in same trench as irrigation piping and at least 2 inches beside piping. Provide conductors of size not smaller than recommended by controller manufacturer. Install cable in separate sleeve under paved areas.
- 3.8 CONNECTIONS
- A. Drawings indicate general arrangement of piping, fittings, and specialties. B. Install piping adjacent to equipment, valves, and devices to allow service and
- C. Connect wiring between controllers and automatic control valves.
- 3.9 FIELD QUALITY CONTROL
- A. Tests and Inspections:

maintenance.

- 1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
- 2. Operational Test: After electrical circuitry has been energized, operate controllers and automatic control valves to confirm proper system operation. 3. Test and adjust controls and safeties. Replace damaged and malfunctioning
- controls and equipment. Any irrigation product will be considered defective if it does not pass tests and
- В. inspections.
- 3.10 START UP SERVICE
- A. Perform startup service.
- 1. Complete installation and startup checks according to manufacturer's written instructions.
- 2. Verify that controllers are installed and connected according to the Contract Documents.
- 3. Verify that electrical wiring installation complies with manufacturer's submittal.
- 3.11 ADJUSTING
- A. Adjust settings of controllers.
- B. Adjust automatic control valves to provide flow rate at rated operating pressure
- required for each irrigation circuit. C. Adjust devices, except those intended to be mounted aboveground, so they will be flush with finish grade.
- 3.12 CLEANING
- A. Flush dirt and debris from piping before installing emission devices.
- 3.13 DEMONSTRATION
- A. Coordinate an operating demonstration and acceptance meeting with Owner's Representative.





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