

FINAL LANDSCAPE PLANS FOR:



PHASE 1 - INFRASTRUCTURE

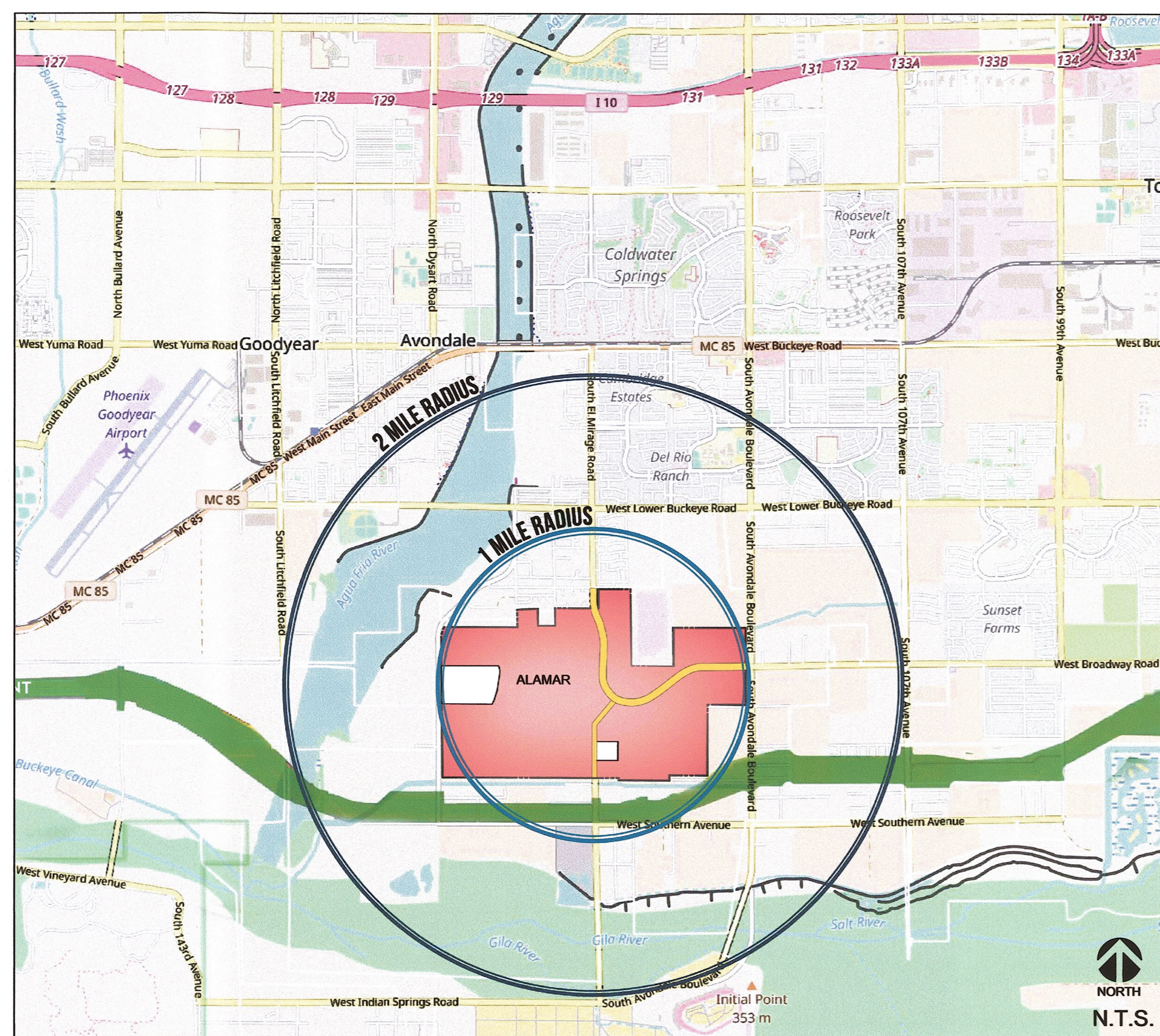
Avondale, Maricopa County, Arizona

A PROPOSED SUBDIVISION OF A PORTION OF THE NORTHEAST QUARTER OF SECTION 25,
AND SOUTHWEST QUARTER OF SECTION 26,
TOWNSHIP 1 NORTH, RANGE 1 WEST, OF THE GILA AND SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA

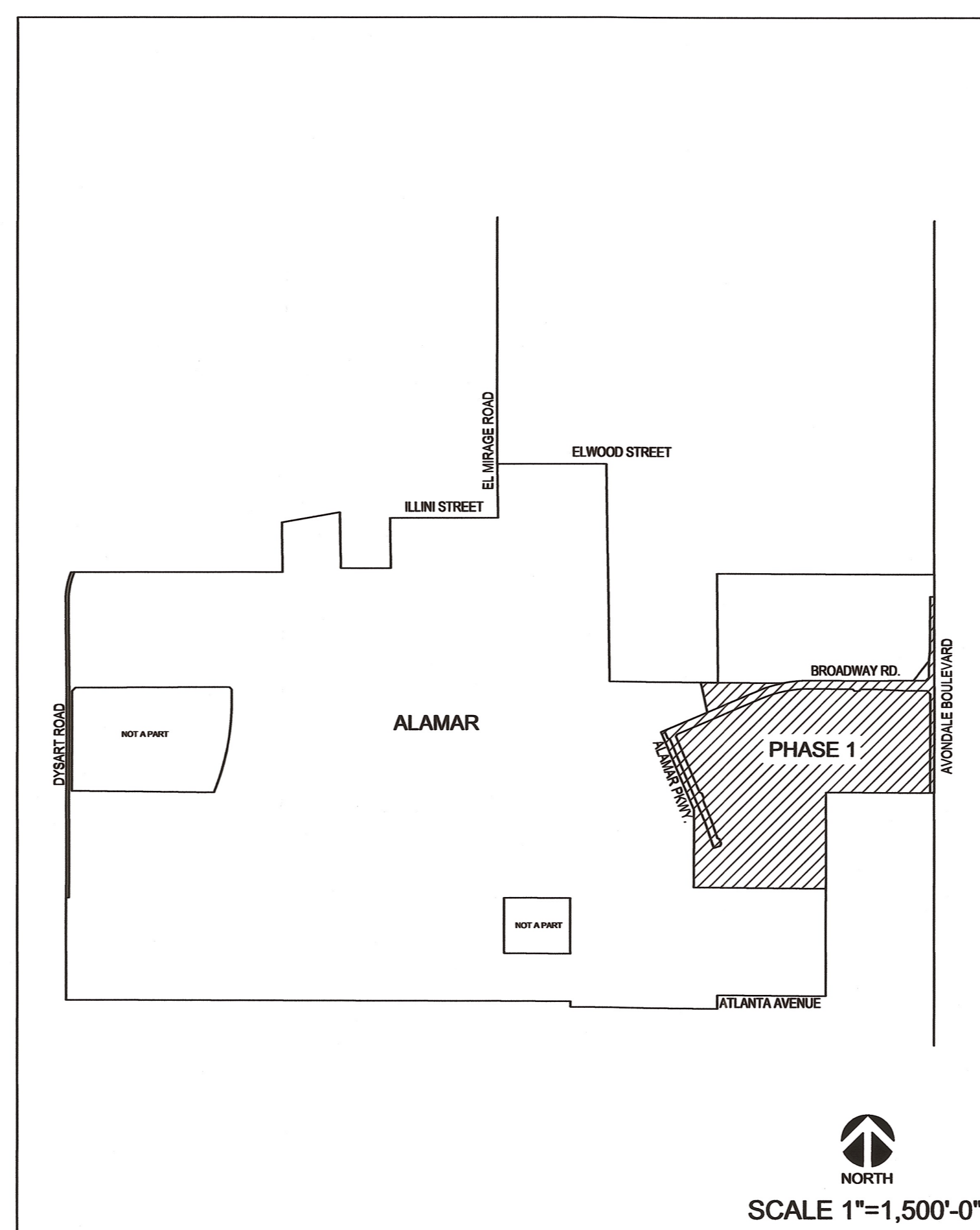
OWNER/ DEVELOPER
Brookfield Residential
14646 N. Kierland Boulevard, Suite 165
Scottsdale, AZ 85254
Phone: (602) 903-7509
Contact: Roger Theis

ARCHITECT & LANDSCAPE ARCHITECT
Swaback Partners
7550 E. McDonald Drive
Scottsdale, AZ 85250
Phone: (480) 367-2100
Contact: Jeffrey M. Denzak ASLA, APA

CIVIL ENGINEER
Wood/ Patel
2051 W. Northern Ave, Suite 100
Phoenix, AZ 85021
Phone: (602).335-8500
Contact: Frank Koo, PE



VICINITY MAP



CONTEXT MAP

SHEET INDEX

SHEET	DESCRIPTION
C-001	COVER SHEET
G-001	GENERAL NOTES
A-201	LAYOUT PLAN
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**CITY OF AVONDALE
GENERAL LANDSCAPE NOTES**

- ALL SINGLE TRUNK TREES SHALL BE 2-INCH CALIPER MINIMUM AT TIME OF INSTALLATION. ALL MULTI-TRUNK TREES SHALL BE 1-1/2-INCH CALIPER MINIMUM AT TIME OF INSTALLATION. TREE CALIPERS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE MEASURED AT THE WIDEST POINT WITHIN THE FIRST 4 TO 6 INCHES ABOVE THE SOIL LINE FOR TREES WITH 4-INCH CALIPER AND LESS; AND 6 TO 12 INCHES FOR TREES GREATER THAN 4-INCH CALIPER. TREE CALIPER FOR MULTI-TRUNK TREES SHALL BE MEASURED AT THE WIDEST POINT WITHIN THE FIRST 6 INCHES ABOVE ORIGINATION POINT OF THE SECOND LARGEST TRUNK OR 6 INCHES ABOVE GROUND IF ALL TRUNKS ORIGINATE FROM THE SOIL. CALIPER OF MULTIPLE TRUNK TREES SHALL BE DETERMINED BY TAKING THE AVERAGE CALIPER OF ITS TWO LARGEST TRUNKS.
- TREE CALIPER AND HEIGHT SHALL GOVERN OVER ANY OTHER PLANTING SIZE INFORMATION PROVIDED ON THE DRAWINGS. TREES SPECIFIED BY CONTAINER SIZES ONLY SHALL NOT BE ACCEPTED.
- THE PROPERTY OWNER AND/OR LESSEE SHALL BE RESPONSIBLE TO INSTALL/MAINTAIN ALL LANDSCAPING WITHIN THE RIGHT-OF-WAY. ALL LANDSCAPING SHALL BE MAINTAINED AS APPROVED ON THE LANDSCAPE MAINTENANCE SCHEDULE (SEE ATTACHED).
- A 3-FOOT CLEAR SPACE IS REQUIRED AROUND ALL FIRE SUPPRESSION EQUIPMENT. NO PLANTS MAY BE INSTALLED THAT WILL ENCRUCH UPON THIS CLEAR SPACE WHEN MATURE.
- PLANTINGS WITHIN ANY SITE VISIBILITY EASEMENT SHALL BE MAINTAINED SO THAT NO LIMBS HANG LOWER THAN SEVEN (7) FEET AND SHRUBS OR OTHER PLANTS PLANTED WITHIN ANY SIGHT VISIBILITY EASEMENT SHALL BE NO TALLER THAN TWO (2) FEET AT FULL GROWTH.
- THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS.

NOTE: ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF AVONDALE SUPPLEMENT TO MAG SPECIFICATIONS & STANDARD DETAILS CURRENTLY ON FILE AND AVAILABLE AT THE CITY OF AVONDALE ENGINEERING DEPARTMENT

PHASE A

APPROVED BY: *Mark J. Wood* 2-12-19
ENGINEERING DIVISION DATE
THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS.
11465 W. CIVIL CENTER DRIVE
AVONDALE, AZ 85323
(623) 333-4200

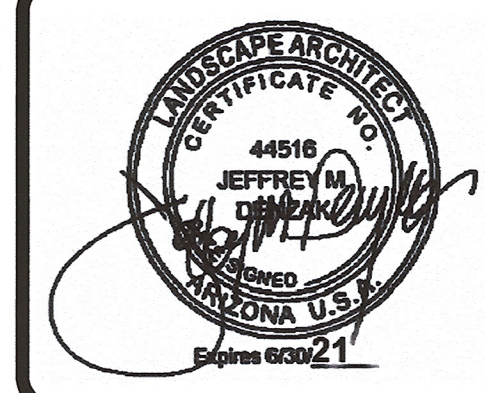
PHASE B

APPROVED BY: *Mark J. Wood* 2-12-19
ENGINEERING DIVISION DATE
THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS.
11465 W. CIVIL CENTER DRIVE
AVONDALE, AZ 85323
(623) 333-4200

PHASE A & B DESCRIPTIONS

PHASE A INCLUDES BROADWAY ROAD, ALAMAR PARKWAY AND AVONDALE BOULEVARD SOUTH OF BROADWAY ROAD. THE ESTIMATED S.F. OF LANDSCAPE IN THE RIGHT-OF-WAY 117,448 SF.
PHASE B INCLUDES AVONDALE BOULEVARD NORTH OF BROADWAY ROAD. THE ESTIMATED S.F. OF LANDSCAPE IN THE RIGHT-OF-WAY 8,252 SF.

SVT NOTE:
PLANTINGS WITHIN THE SIGHT VISIBILITY TRIANGLE LINE SHALL BE MAINTAINED SO THAT NO LIMBS HANG LOWER THAN SEVEN (7) FEET AND SHRUBS OR OTHER PLANTS PLANTED WITHIN THE SIGHT VISIBILITY TRIANGLE LINE SHALL BE NO TALLER THAN TWO (2) FEET AT FULL GROWTH.



REVISIONS

NO.	DATE
1	CITY 1ST. REVIEW - 09/04/18
2	CITY 2ND. REVIEW - 10/23/18
3	

ALAMAR
CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
COVER SHEET
ENG-18-0215

C-001
1 OF 24 SHEETS

DRAWN	SV/ RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	C-001

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF SWABACK PARTNERS P.L.L.C.

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PLANTING DATA:

Location	Row / Setback	Trees required	Trees Provided	Shrubs and Groundcovers Required	Shrubs and Groundcovers Provided
Avondale Blvd (South of Broadway Rd.)	ROW (1,183 LF)	48	48	338	338
	L/S Setback (43,247 SF)	60	60	35% coverage (Per PAD)	921
Avondale Blvd (North of Broadway Rd.)	ROW (1,012 LF)	41	41	290	290
	ROW within SRP Easement (1,664 LF)	n/a	40	n/a	468
Broadway Road (north side)	ROW (1,475 LF)	59	59	422	422
	Broadway Road Median (1,411 LF)	48	48	236	831
Broadway Road (south side)	ROW (3,082 LF)	124	124	881	881
	L/S Setback (103,153 SF)	155	155	35% coverage (Per PAD)	2221
Alamar Pkwy.	ROW (east side) (1,270 LF)	51	51	363	363
	L/S Setback (34,728 SF)	62	62	35% coverage (Per PAD)	996
	ROW (west side) (1,270 LF)	51	51	363	363
TOTAL		699	699	2,893 + 35% coverage (LS Setback - Avondale, Broadway & Alamar Pkwy)	7,626

Avondale Blvd., Broadway Rd. and Alamar Pkwy. Landscape requirements (Per PAD):

Street ROW	Tree requirement (Per PAD)	Shrub requirement
Avondale Blvd.	1 Tree per 25 lf of frontage	10 Shrubs per 35 lf of frontage
Broadway Rd.*	1 Tree per 25 lf of frontage	10 Shrubs per 35 lf of frontage
Alamar Pkwy.	1 Tree per 25 lf of frontage	10 Shrubs per 35 lf of frontage

Landscape Setback	Landscape setback area (SF)/ 35% area (SF)	Tree requirement (Per PAD)	Shrubs and Grouncover requirement
Avondale Blvd.	43,247 SF / 15,136 SF	1 Tree per 20 lf of frontage	35% Vegetative Coverage
Broadway Rd.	103,153 SF / 36,225 SF	1 Tree per 20 lf of frontage	35% Vegetative Coverage
Alamar Pkwy.	34,728 SF / 12,155 SF	1 Tree per 20 lf of frontage	35% Vegetative Coverage

Median	Tree requirement (Per PAD)	Shrub requirement
Broadway Rd.	1 Tree per 30 lf of frontage	5 Shrubs per 30 lf of frontage

*The landscape in the SRP powerline easement include trees, shrubs and groundcovers approved by SRP.

GENERAL NOTES:

- THE LANDSCAPE AND GENERAL CONTRACTORS SHALL REVIEW THIS PROJECT WITH THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES REGARDING THESE PLANS PRIOR TO PROCEEDING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND TO CROSS-CHECK DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK, LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND SHALL NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS OR REGULATIONS PERTAINING TO THE PROJECT.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO LOCAL CODES.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
- ALL EXISTING VEGETATION, WEEDS, DEBRIS, ETC. SHALL BE REMOVED FROM THE PROJECT 'LIMITS OF CONSTRUCTION' AND PROPERLY DISPOSED OF OFFSITE AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING: DAMAGES TO UTILITIES CAUSED AS A RESULT OF CONSTRUCTION; DAMAGES TO EXISTING WALKS, WALLS, DRIVES, CURBS, ETC.; INSPECTION OF THE SITE IN ORDER TO BE FULLY AWARE OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID; SITE SECURITY UNTIL PROJECT ACCEPTANCE
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
- CONTRACTOR SHALL REFERENCE CIVIL ENGINEERING DRAWINGS FOR GRADING AND DRAINAGE FLOWS AND SHALL BE RESPONSIBLE FOR MAINTAINING THESE FLOWS FREE OF OBSTRUCTIONS.
- QUANTITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS SHOWN ON PLANS.
- SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION.
- DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.

LANDSCAPE GRADING & BERMING GENERAL NOTES:

- BERMING IN LANDSCAPE AREAS WITHIN THE NEIGHBORHOOD PARKS SHALL BE TO A MAXIMUM HEIGHT OF 2 FEET AND A MAX. SLOPE RATIO OF FOUR TO ONE (4:1). REFER TO LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BERMING.
- ALL FINE GRADING SHALL BE EVALUATED IN THE FIELD FOR CONFLICTS POINTS WITH DESIGN BERMING.
- FINISHED SHAPE AND CONTOURING SHALL BE AT LANDSCAPE ARCHITECT'S AND OWNER'S DIRECTION.
- CONTRACTOR SHALL GRADE TO MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND MAINTAIN AND/OR CREATE DRAINAGE AS SPECIFIED BY THE CIVIL ENGINEER. REFER TO CIVIL PLANS FOR GRADING AND DRAINAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY CALICHES ENCOUNTERED ON SITE AT NO ADDITIONAL COST TO THE OWNER.

PLANTING NOTES:

- INSTALL ROCK MULCH TO A 2" DEPTH IN ALL PLANTING BED AREAS UNLESS OTHERWISE NOTED ON PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY QUANTITIES INCLUDING TREES, SHRUBS, GROUNDCOVERS, DESERT PAVEMENT, MULCH AND OTHER ITEMS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION OF MAJOR DISCREPANCIES. IN CASE OF A DISCREPANCY BETWEEN THE NUMBER OF PLANTS INDICATED ON THE PLANT LIST, THE DRAWINGS SHALL BE ACCEPTED AS CORRECT.
- NO PLANT MATERIAL SHALL BE PLACED WITHIN SEVEN (7') FEET OF A FIRE HYDRANT, LIGHT POLE, ELECTRICAL, OR COMMUNICATION BOX.
- LANDSCAPE CONTRACTOR TO CONTACT LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE EACH APPLICATION OF PRE-EMERGENT FOR VERIFICATION. ALL PLANTING BED MULCH AREAS SHALL RECEIVE PRE-EMERGENT HERBICIDE AS SPECIFIED. THE CONTRACTOR SHALL PROVIDE THE LANDSCAPE ARCHITECT WITH A LETTER CERTIFYING THE CHEMICAL, DATE AND RATE OF APPLICATION FOR BOTH WEED KILLER AND PRE-EMERGENT.
- ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO ARIZONA NURSERYMAN ASSOCIATION STANDARDS AND SIZES.
- ALL RIGHT-OF-WAY PLANT MATERIAL TO BE IN COMPLIANCE WITH THE DEPARTMENT OF WATER RESOURCES LOW WATER USE PLANT LIST.
- THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE IS TO APPROVE ANY OR ALL SUBSTITUTIONS BEFORE INSTALLATION. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT.
- THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL DEEMED UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE INSPECTED BEFORE INSTALLATION. THE CONTRACTOR SHALL REQUEST INSPECTION 24 HOURS IN ADVANCE OF PLANTING. UPON SUCH INSPECTIONS IF THE ROOTBALL CONDITION IS UNACCEPTABLE THE CONTRACTOR SHALL SUPPLY REPLACEMENT PLANT AT NO COST.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITY COVER, BOXES, LIDS AND MANHOLES IN AN EXPOSED CONDITION.
- LOCATE PLANTS AWAY FROM SPRINKLER HEADS, LIGHT FIXTURES AND OTHER OBSTRUCTIONS.
- WATER TEST ALL TREE PLANTING HOLES PRIOR TO PLANTING. IF TREE HOLE DOES NOT DRAIN WITHIN A 24 HOUR PERIOD, REFER TO HARDPAN DETAIL.
- ALL TOP SOIL MIXTURES FOR PLANTS SHALL BE FREE OF GRASS AND NOXIOUS WEEDS. SEE SECTION 795 OF THE M.A.G. SPECIFICATIONS.
- TREES LOCATED WITHIN THE SIGHT VISIBILITY LINES SHALL BE SINGLE TRUNKED WITH CANOPIES HIGHER THAN SEVEN (7) FEET.
- SHRUBS AND ACCENT PLANTS LOCATED WITHIN SIGHT VISIBILITY LINES SHALL BE LESS THAN TWO (2) FEET IN HEIGHT AT THEIR MATURE GROWTH UNLESS OTHERWISE APPROVED BY THE ZONING ADMINISTRATOR OR AUTHORIZED DESIGNEE.
- MAINTAIN 3' CLEARANCE OF CACTI FROM ALL PEDESTRIAN ROUTES UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT.
- FINISH GRADE IN ALL AREAS SHALL BE SMOOTH, EVEN AND 1/2" BELOW TOP OF CURBS, PAVING AND ADJACENT WALKS.
- WHEN BOXED TREES ARE INSTALLED, THE BOTTOM OF THE TREE BOXES SHALL NOT BE REMOVED UPON PLANTING. THE SOIL LINE OF THE PLANTED TREE SHALL MATCH THE SURROUNDING FINISH GRADE.
- GROUNDCOVER & DESERT PAVEMENT SHALL EXTEND UNDER SHRUBS UNLESS OTHERWISE NOTED ON THE PLANS.



SWABACK PARTNERS PLLC
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 Scottsdale, Arizona 85250
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 info@swabackpartners.com
 www.swabackpartners.com



REVISIONS	
NO.	DATE
1	CITY 1ST. REVIEW - 09/04/18
2	CITY 2ND. REVIEW - 10/23/18

ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
GENERAL NOTES

DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	G-001
2 OF 24 SHEETS	

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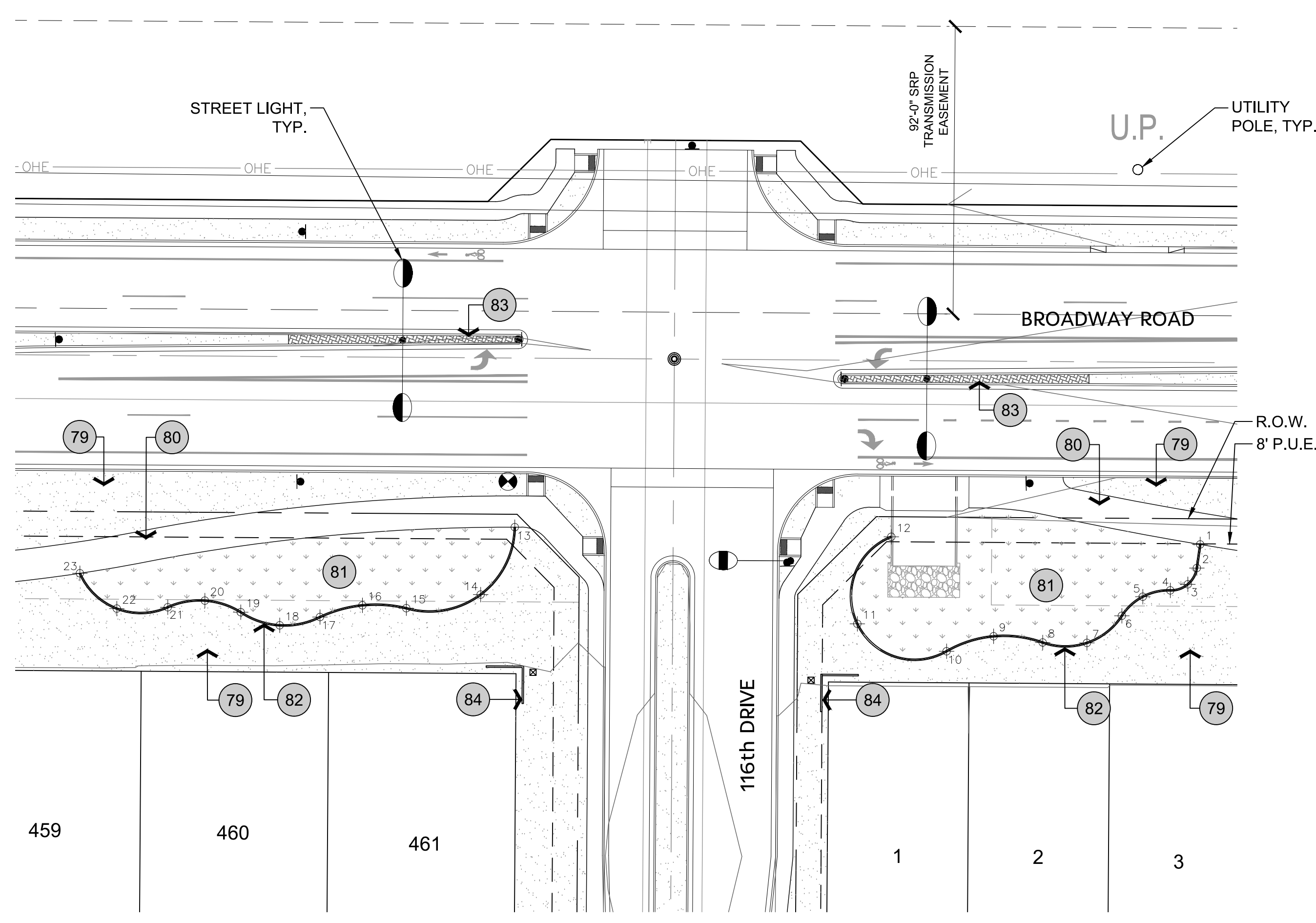


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ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, Arizona
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
 LAYOUT PLAN

DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	A-201
3 OF 24 SHEETS	

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- REFERENCE NOTES SCHEDULE
- SYMBOL DESCRIPTION
- 79 LANDSCAPE AREA - SEE PLANTING PLANS
 - 80 SIDEWALK - PER CIVIL ENGINEER
 - 81 TURF - SEE PLANTING PLANS
 - 82 CONCRETE HEADER - SEE DETAIL 9, SHEET LP-501
 - 83 MEDIAN PAVERS - SEE CIVIL ENGINEER PLANS FOR LAYOUT, QUANTITY, & DIMENSIONS, SEE DETAIL 10, SHEET LP-501 FOR INSTALLATION METHOD & MATERIAL
 - 84 NEIGHBORHOOD ACCENT WALL & PIER - SEE ALAMAR PHASE 1 ON-SITE CD SET

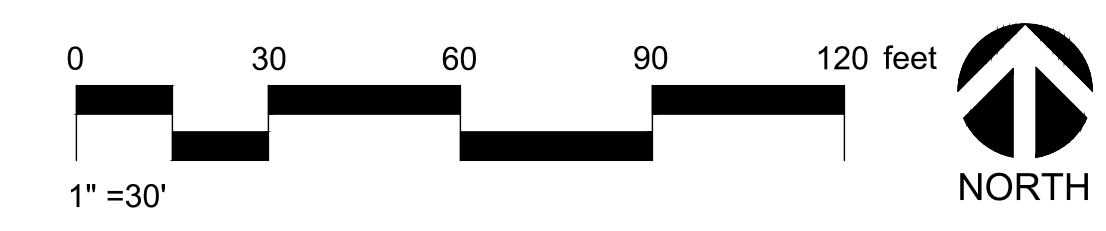
NORTHING/EASTING POINT SCHEDULE

POINT	NORTHING	EASTING
1	N 875452.88436	E 580368.57899
2	N 875445.34324	E 580367.50138
3	N 875440.14223	E 580364.61614
4	N 875438.18552	E 580358.99952
5	N 875436.15557	E 580350.19224
6	N 875430.07313	E 580343.50697
7	N 875421.39243	E 580332.31453
8	N 875421.52125	E 580318.15089
9	N 875423.51570	E 580302.46271
10	N 875418.72746	E 580287.39056
11	N 875427.50161	E 580258.82944
12	N 875455.32960	E 580269.70720
13	N 875458.42250	E 580149.19100
14	N 875436.84852	E 580138.25316
15	N 875432.48141	E 580114.46237
16	N 875433.42788	E 580100.40444
17	N 875429.65676	E 580086.82872
18	N 875427.00846	E 580073.93310
19	N 875431.22052	E 580061.46036
20	N 875434.92388	E 580049.99004
21	N 875432.80365	E 580038.12463
22	N 875432.37088	E 580021.79847
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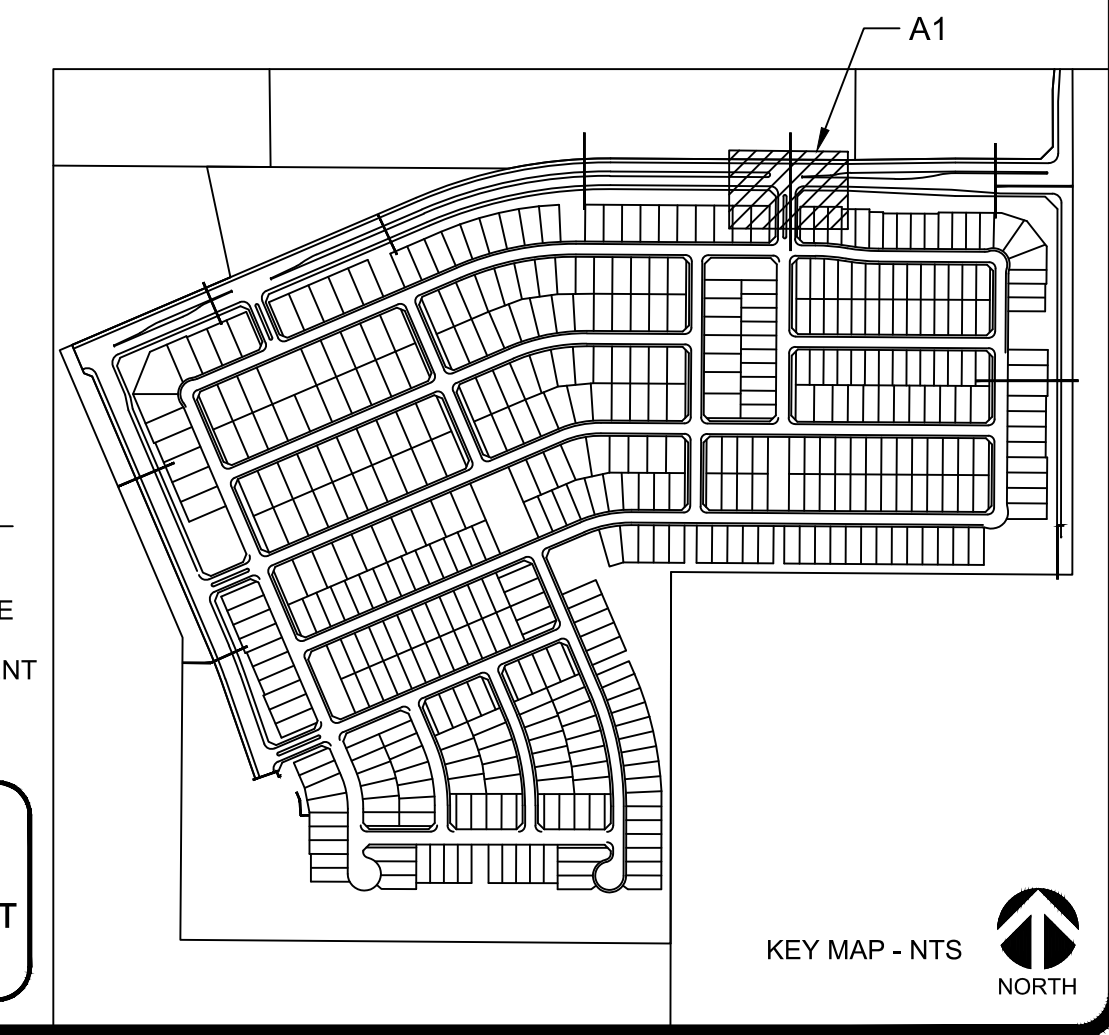
A1 LAYOUT PLAN
 SCALE: 1"=30'-0"

LEGEND

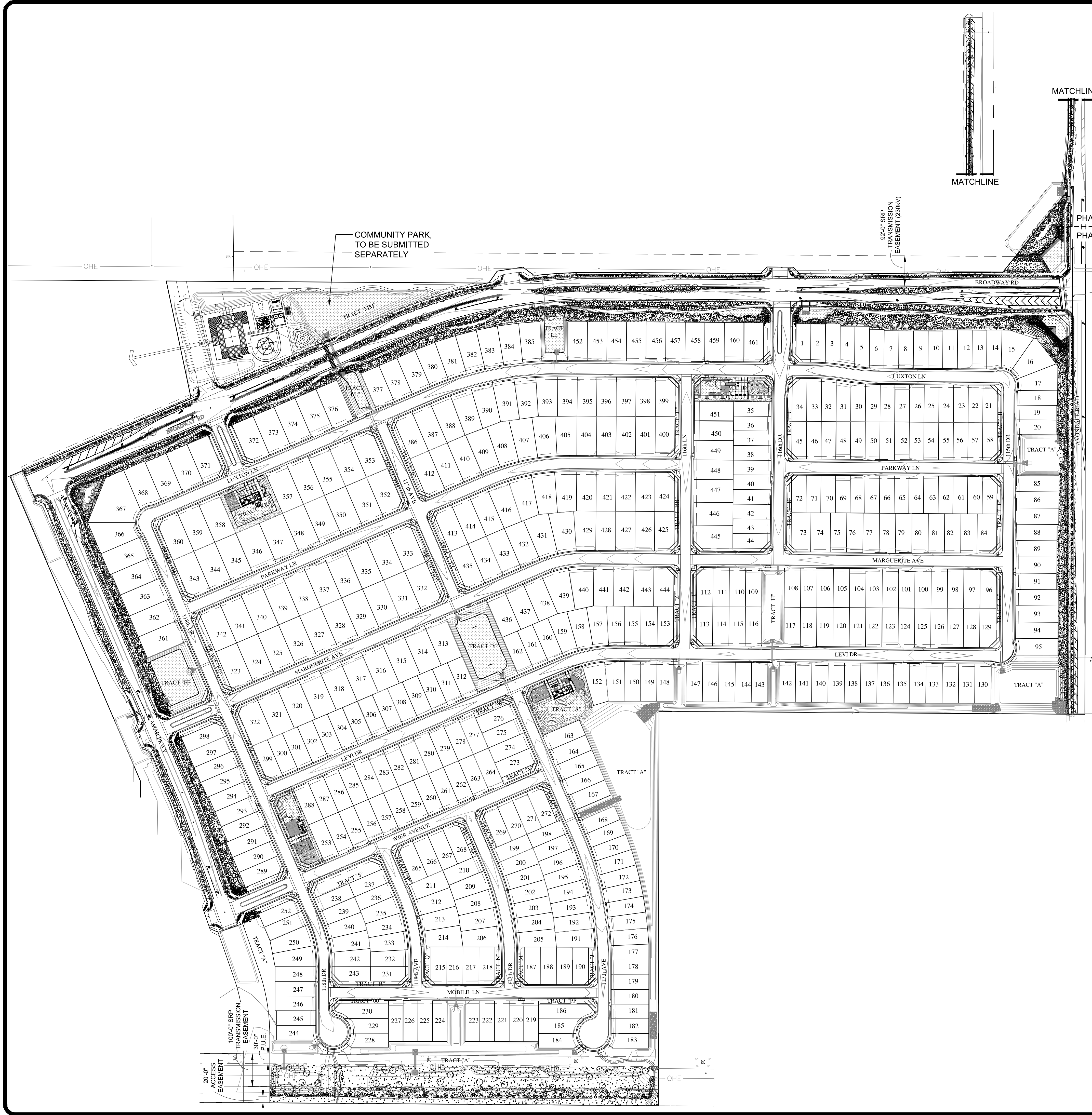
	PROPERTY BOUNDARY
	SIGHT VISIBILITY TRIANGLE
	8' PUBLIC UTILITY EASEMENT
	R.O.W.



CALL TWO WORKING DAYS BEFORE YOU DIG
 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)



ENG-18-0215



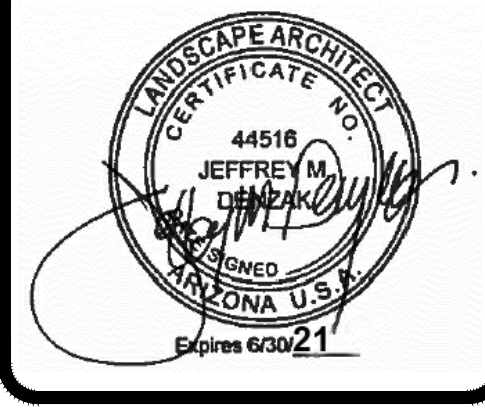
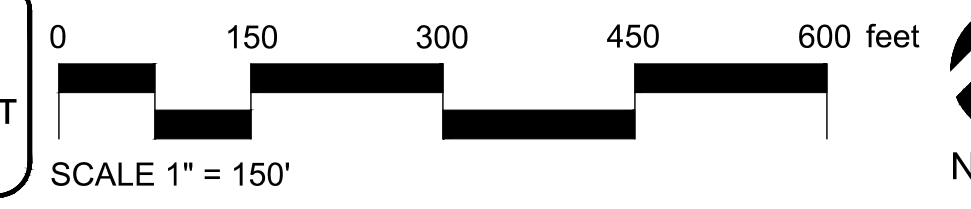
PLANT SCHEDULE - INFRASTRUCTURE

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Acacia aneura / Mulga	24" Box	107
	Caesalpinia cacalaco `Smoothie` TM / Cascalote	24" Box	286
	Parkinsonia x `Desert Museum` / Palo Verde	24" Box	13
	Pistacia chinensis `Red Push` / Chinese Pistache	24" Box	266
	Prosopis chilensis / Chilean Mesquite	24" Box	7
	Prosopis x `Phoenix` TM / Hybrid Mesquite	24" Box	16
	Sophora secundiflora / Texas Mountain Laurel	24" Box	63
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Acacia redolens / Bank Catclaw	5 Gal.	125
	Agave weberi / Weber's Agave	5 Gal.	210
	Aloe x `Blue Elf` / Aloe	1 Gal.	140
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.	31
	Bougainvillea x `Rosenka` / Bougainvillea	5 Gal.	83
	Bougainvillea x `La Jolla` / Bougainvillea	5 Gal.	313
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.	6
	Convolvulus cneorum / Bush Morning Glory	1 Gal.	641
	Dalea greggii / Trailing Indigo Bush	1 Gal.	114
	Dasyliiron wheeleri / Grey Desert Spoon	5 Gal.	191
	Dodonaea viscosa `Green` / Green Hopseed Bush	5 Gal.	39
	Encelia farinosa / Brittle Bush	1 Gal.	352
	Eremophila glabra `Kalgoortie` / Emu Bush	1 Gal.	222
	Eremophila glabra `Mingenew Gold` / Emu Bush	1 Gal.	771
	Eremophila glabra carnosa / Emu Bush	1 Gal.	3
	Hesperaloe funifera / Giant Yucca	5 Gal.	114
	Hesperaloe parviflora `Brakelights` TM / Red Yucca	1 Gal.	1,050
	Lantana camara `Dallas Red` / Dallas Red Lantana	1 Gal.	222
	Lantana x `New Gold` / New Gold Lantana	1 Gal.	2,018
	Nerium oleander `Petite Pink` / Petite Pink Oleander	1 Gal.	492
	Rosmarinus officinalis `Prostratus` / Trailing Rosemary	1 Gal.	659
	Ruellia brittoniana / Blue Bells	1 Gal.	790
	Tecoma x `Crimson Flare` / Red Yellow Bells	5 Gal.	11
	Vauquelinia californica / Arizona Rosewood	5 Gal.	116
	Yucca rupicola / Texas Yucca	5 Gal.	9
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Cynodon dactylon `Midiron` / Bermuda Grass	Sod	5,984

INERT MATERIAL SCHEDULE INFRASTRUCTURE LANDSCAPE

SYMBOL	NOTES	QTY
	Desert Natural Pavement - 3" Minus Express Carmel by Granite Express	369,316 sf
	1" Screened D.G. at Drainage Basin Slopes Express Carmel by Granite Express	53,455 sf

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OVERALL PLANTING PLAN

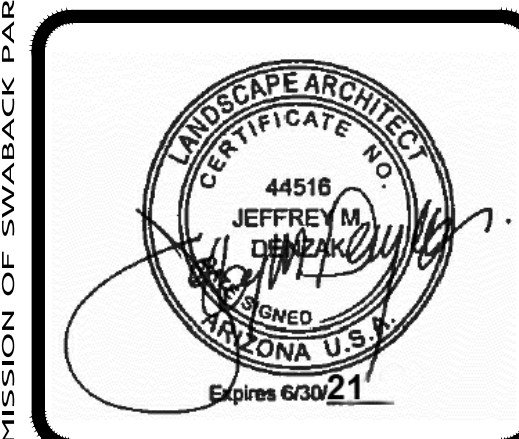
DRAWN	SY / RP / TH
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SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-100
4 OF 24 SHEETS	

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1	CITY 1ST. REVIEW - 09/04/18
2	CITY 2ND. REVIEW - 10/23/18

ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA

FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
PLANTING PLAN

DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-101
5 OF 24 SHEETS	

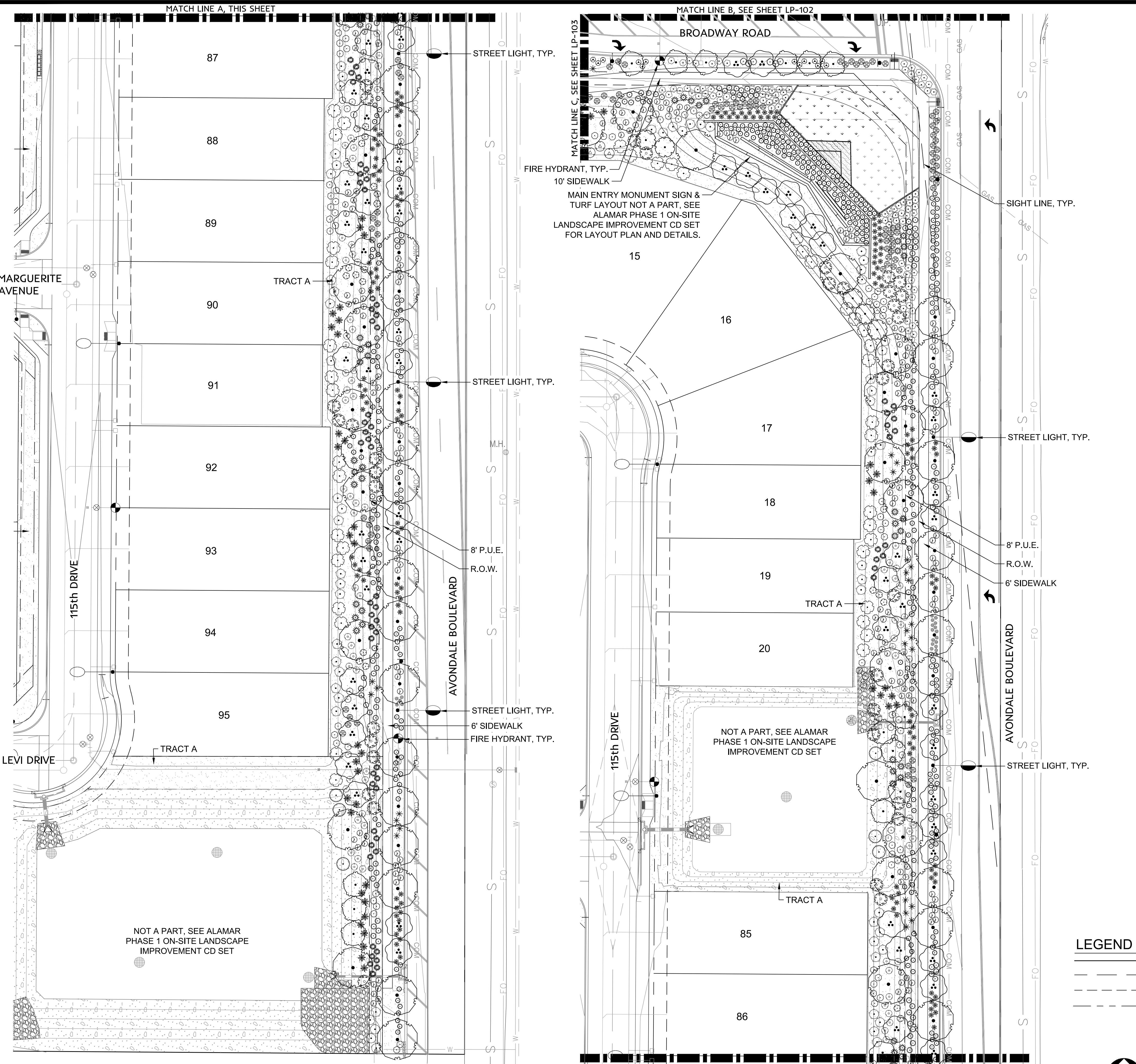
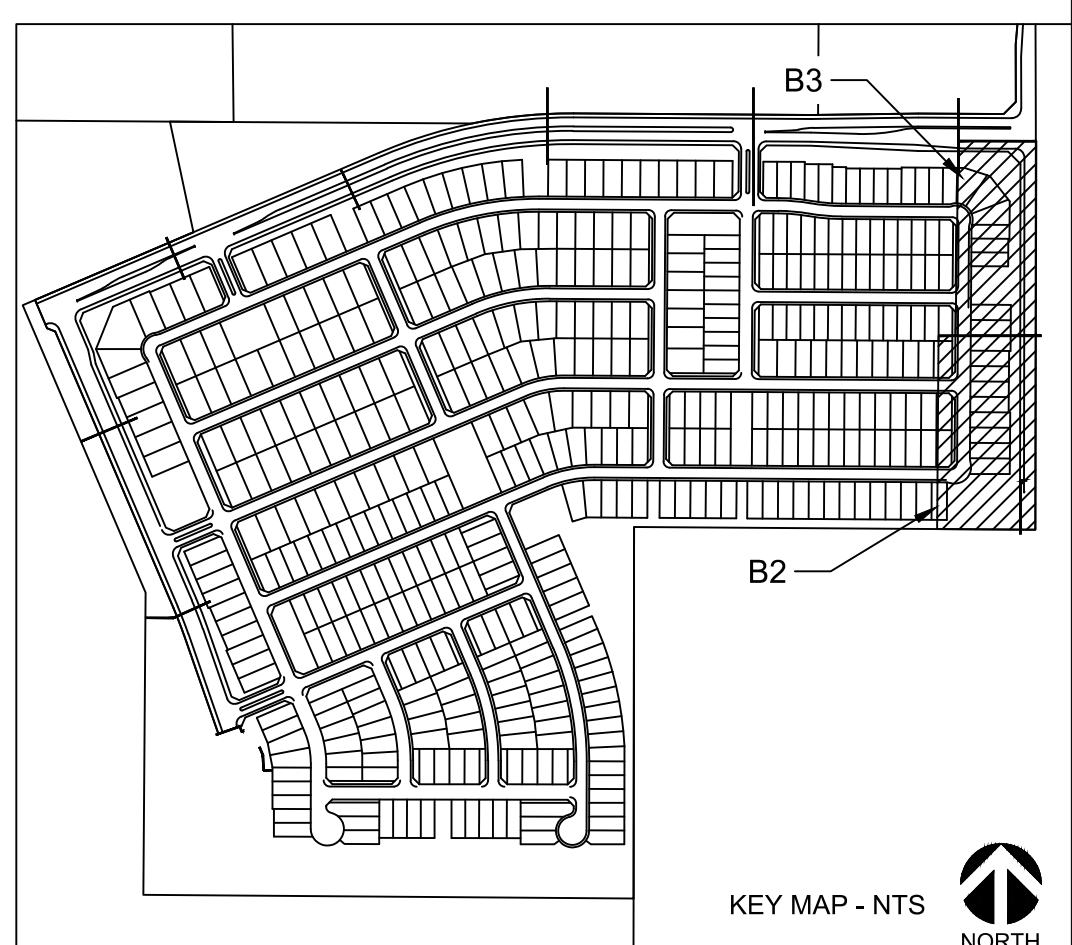
PLANT SCHEDULE - INFRASTRUCTURE

TREES	BOTANICAL NAME / COMMON NAME	CONT
	Acacia aneura / Mulga	24" Box
	Caesalpinia cacalaco 'Smoothie' TM / Cascalote	24" Box
	Parkinsonia x 'Desert Museum' / Palo Verde	24" Box
	Pistacia chinensis 'Red Push' / Chinese Pistache	24" Box
	Prosopis chilensis / Chilean Mesquite	24" Box
	Prosopis x 'Phoenix' TM / Hybrid Mesquite	24" Box
	Sophora secundiflora / Texas Mountain Laurel	24" Box
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
	Acacia redolens / Bank Catclaw	5 Gal.
	Agave weberi / Weber's Agave	5 Gal.
	Aloe x 'Blue Elf' / Aloe	1 Gal.
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.
	Bougainvillea x 'Rosenka' / Bougainvillea	5 Gal.
	Bougainvillea x 'La Jolla' / Bougainvillea	5 Gal.
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.
	Convolvulus cneorum / Bush Morning Glory	1 Gal.
	Dalea greggii / Trailing Indigo Bush	1 Gal.
	Dasyliirion wheeleri / Grey Desert Spoon	5 Gal.
	Dodonaea viscosa 'Green' / Green Hopseed Bush	5 Gal.
	Encelia farinosa / Brittle Bush	1 Gal.
	Eremophila glabra 'Kalgoorlie' / Emu Bush	1 Gal.
	Eremophila glabra 'Mingenew Gold' / Emu Bush	1 Gal.
	Eremophila glabra carnosa / Emu Bush	1 Gal.
	Hesperaloe funifera / Giant Yucca	5 Gal.
	Hesperaloe parviflora 'Brakelights' TM / Red Yucca	1 Gal.
	Lantana camara 'Dallas Red' / Dallas Red Lantana	1 Gal.
	Lantana x 'New Gold' / New Gold Lantana	1 Gal.
	Nerium oleander 'Petite Pink' / Petite Pink Oleander	1 Gal.
	Rosmarinus officinalis 'Prostratus' / Trailing Rosemary	1 Gal.
	Ruellia brittoniana / Blue Bells	1 Gal.
	Tecoma x 'Crimson Flare' / Red Yellow Bells	5 Gal.
	Vauquelinia californica / Arizona Rosewood	5 Gal.
	Yucca rupicola / Texas Yucca	5 Gal.
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
	Cynodon dactylon 'Midiron' / Bermuda Grass	Sod

LEGEND

	PROPERTY BOUNDARY
	SIGHT VISIBILITY TRIANGLE
	8' PUBLIC UTILITY EASEMENT
	R.O.W.

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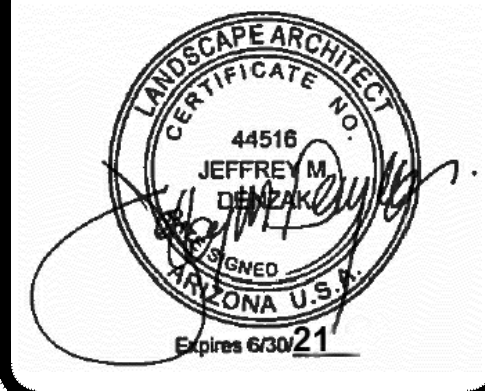


B2 PLANTING PLAN
 SCALE: 1"=30'-0"

B3 PLANTING PLAN
 SCALE: 1"=30'-0"

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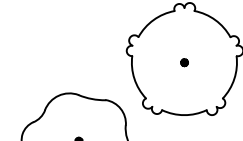
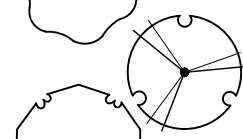


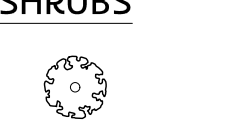
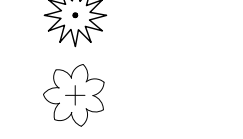
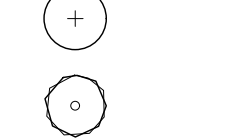
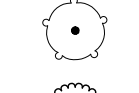
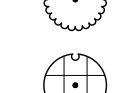


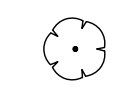
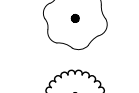
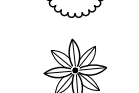

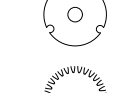
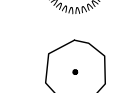

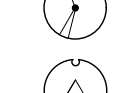
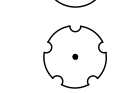
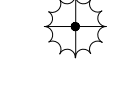






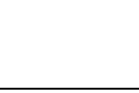
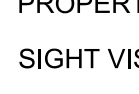
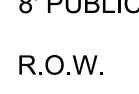


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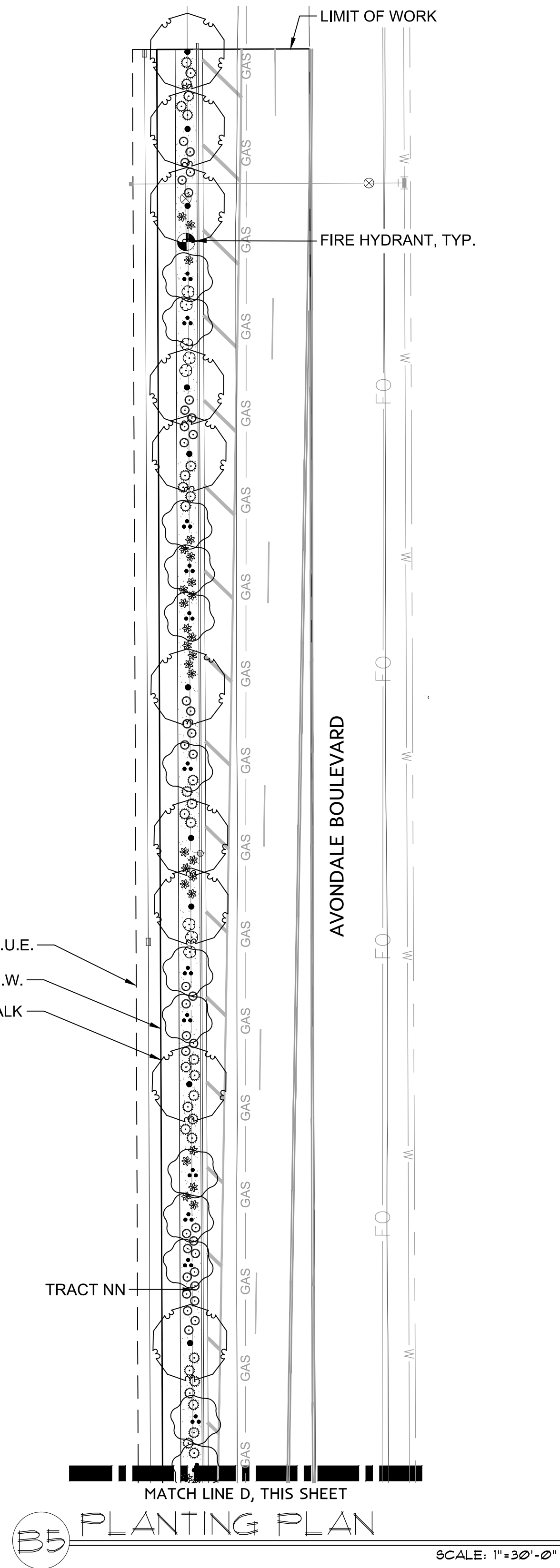


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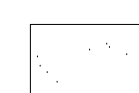
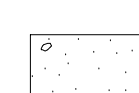
ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
PLANTING PLAN - PHASE A & B


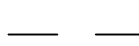
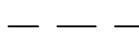
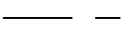
DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-102
6 OF 24 SHEETS	

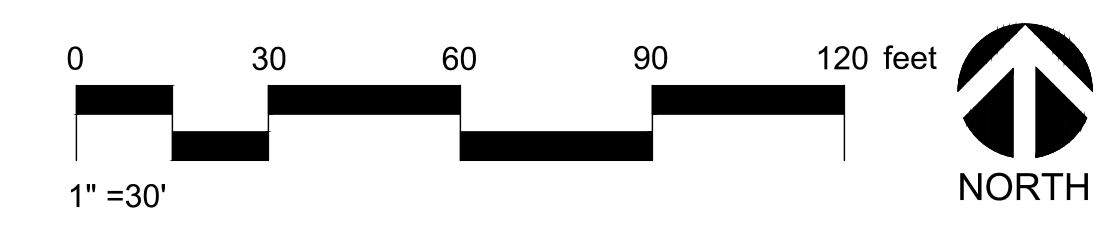
PLANT SCHEDULE - INFRASTRUCTURE		
TREES	BOTANICAL NAME / COMMON NAME	CONT
	Acacia aneura / Mulga	24" Box
	Caesalpinia cacalaco 'Smoothie' TM / Cascalote	24" Box
	Parkinsonia x 'Desert Museum' / Palo Verde	24" Box
	Pistacia chinensis 'Red Push' / Chinese Pistache	24" Box
	Prosopis chilensis / Chilean Mesquite	24" Box
	Prosopis x 'Phoenix' TM / Hybrid Mesquite	24" Box
	Sophora secundiflora / Texas Mountain Laurel	24" Box
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
	Acacia redolens / Bank Catclaw	5 Gal.
	Agave weberi / Weber's Agave	5 Gal.
	Aloe x 'Blue Elf' / Aloe	1 Gal.
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.
	Bougainvillea x 'Rosenka' / Bougainvillea	5 Gal.
	Bougainvillea x 'La Jolla' / Bougainvillea	5 Gal.
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.
	Convolvulus cneorum / Bush Morning Glory	1 Gal.
	Dalea greggii / Trailing Indigo Bush	1 Gal.
	Dasyliirion wheeleri / Grey Desert Spoon	5 Gal.
	Dodonaea viscosa 'Green' / Green Hopseed Bush	5 Gal.
	Encelia farinosa / Brittle Bush	1 Gal.
	Eremophila glabra 'Kalgoorlie' / Emu Bush	1 Gal.
	Eremophila glabra 'Mingenew Gold' / Emu Bush	1 Gal.
	Eremophila glabra carnosa / Emu Bush	1 Gal.
	Hesperaloe funifera / Giant Yucca	5 Gal.
	Hesperaloe parviflora 'Brakelights' TM / Red Yucca	1 Gal.
	Lantana camara 'Dallas Red' / Dallas Red Lantana	1 Gal.
	Lantana x 'New Gold' / New Gold Lantana	1 Gal.
	Nerium oleander 'Petite Pink' / Petite Pink Oleander	1 Gal.
	Rosmarinus officinalis 'Prostratus' / Trailing Rosemary	1 Gal.
	Ruellia brittoniana / Blue Bells	1 Gal.
	Tecoma x 'Crimson Flare' / Red Yellow Bells	5 Gal.
	Vauquelinia californica / Arizona Rosewood	5 Gal.
	Yucca rupicola / Texas Yucca	5 Gal.
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
	Cynodon dactylon 'Midiron' / Bermuda Grass	Sod



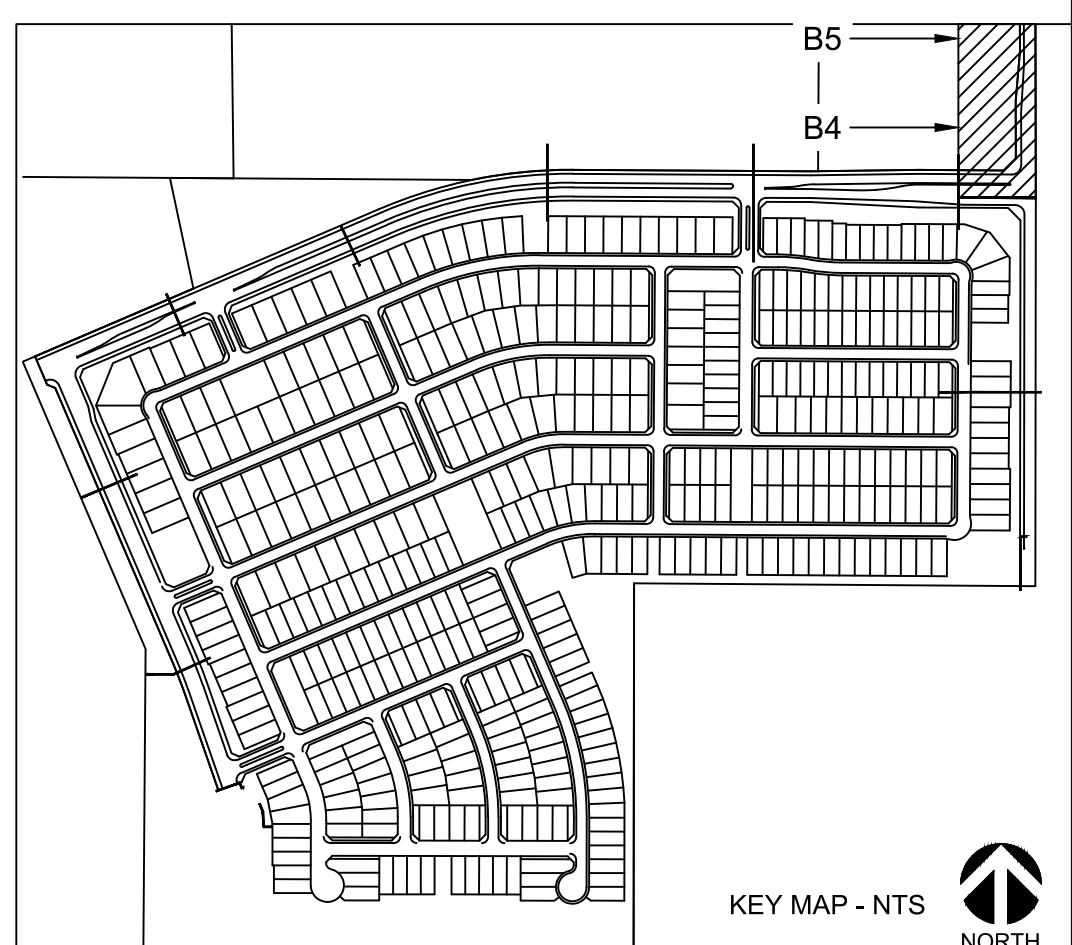
B5 PLANTING PLAN
 SCALE: 1" = 30'-0"

INERT MATERIAL SCHEDULE INFRASTRUCTURE LANDSCAPE	
SYMBOL	NOTES
	Desert Natural Pavement - 3" Minus Express Carmel by Granite Express
	1" Screened D.G. at Drainage Basin Slopes Express Carmel by Granite Express

LEGEND	
	PROPERTY BOUNDARY
	SIGHT VISIBILITY TRIANGLE
	8' PUBLIC UTILITY EASEMENT
	R.O.W.



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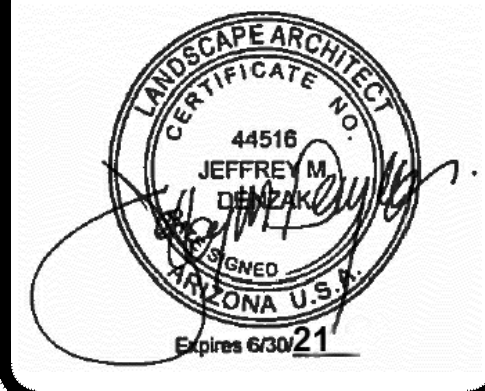
FUTURE SECONDARY ENTRY MONUMENT SIGN & TURF LAYOUT, NOT A PART, SEE ALAMAR PHASE 1 ON-SITE LANDSCAPE IMPROVEMENT CD SET
 PLANT MATERIAL LOCATED WITHIN THIS BOUNDARY TO BE INSTALLED AT TIME OF SECONDARY ENTRY MONUMENT CONSTRUCTION

B4 PLANTING PLAN
 SCALE: 1" = 30'-0"

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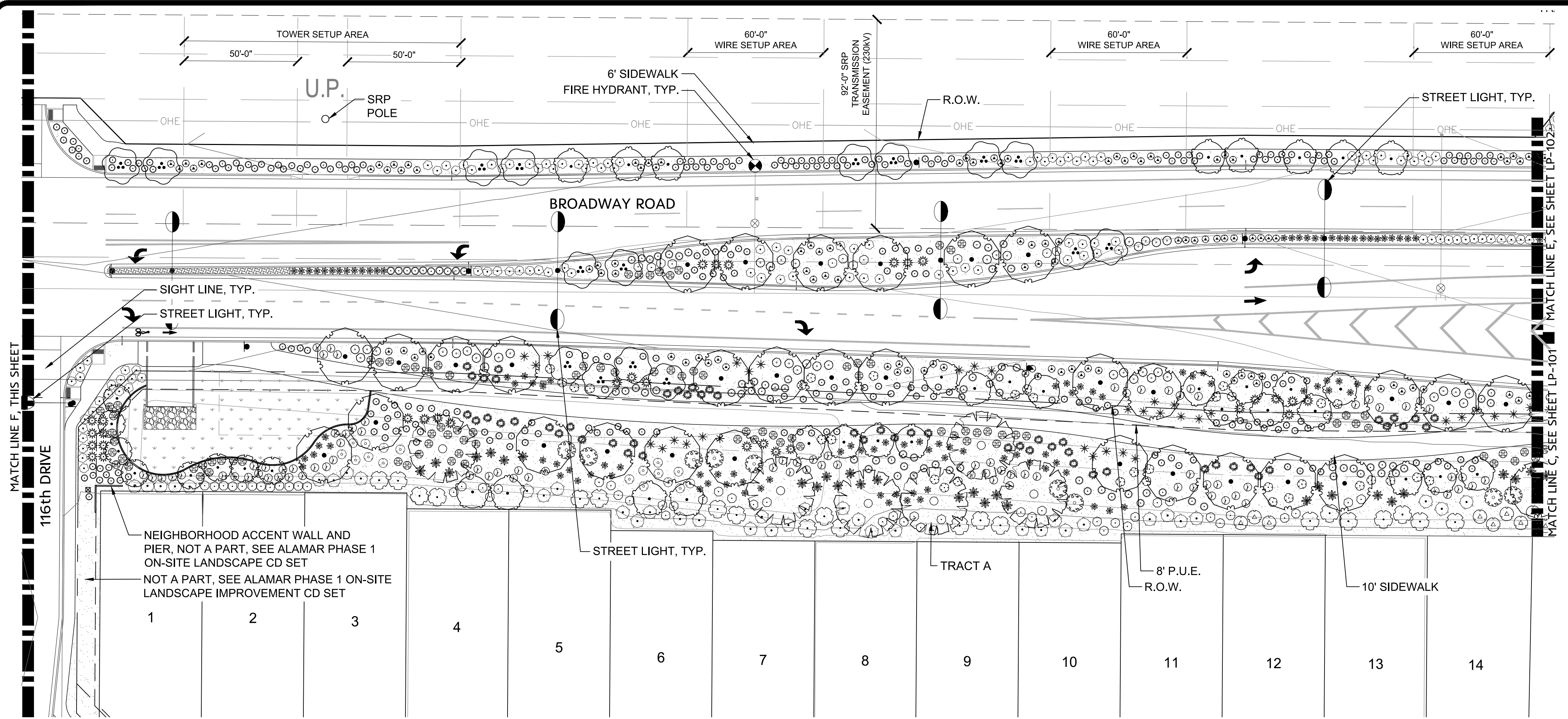
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE

PLANTING PLAN

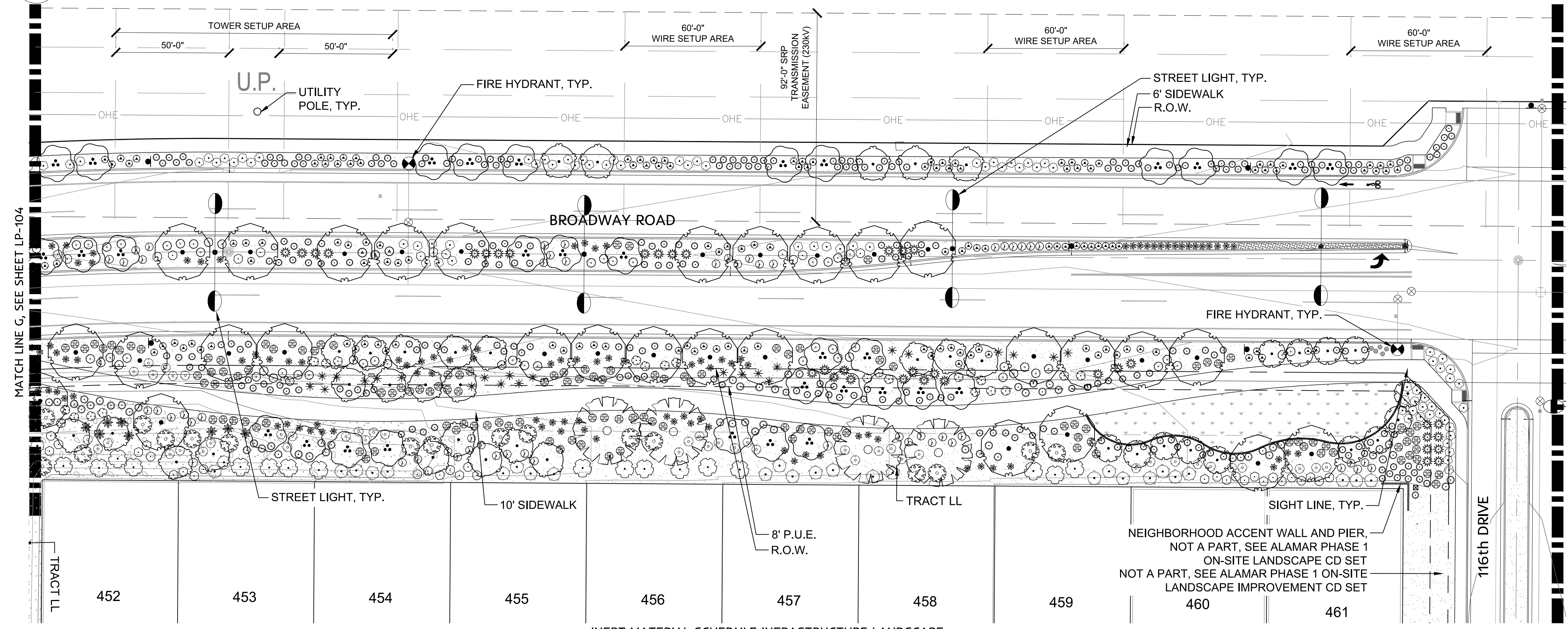
DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-103
7 OF 24 SHEETS	

PLANT SCHEDULE - INFRASTRUCTURE

TREES	BOTANICAL NAME / COMMON NAME	CONT
	Acacia aneura / Mulga	24" Box
	Caesalpinia cacalaco 'Smoothie' TM / Cascalote	24" Box
	Parkinsonia x 'Desert Museum' / Palo Verde	24" Box
	Pistacia chinensis 'Red Push' / Chinese Pistache	24" Box
	Prosopis chilensis / Chilean Mesquite	24" Box
	Prosopis x 'Phoenix' TM / Hybrid Mesquite	24" Box
	Sophora secundiflora / Texas Mountain Laurel	24" Box
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
	Acacia redolens / Bank Catclaw	5 Gal.
	Agave weberi / Weber's Agave	5 Gal.
	Aloe x 'Blue Elf' / Aloe	1 Gal.
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.
	Bougainvillea x 'Rosenka' / Bougainvillea	5 Gal.
	Bougainvillea x 'La Jolla' / Bougainvillea	5 Gal.
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.
	Convolvulus cneorum / Bush Morning Glory	1 Gal.
	Dalea greggii / Trailing Indigo Bush	1 Gal.
	Dasyliion wheeleri / Grey Desert Spoon	5 Gal.
	Dodonaea viscosa 'Green' / Green Hopseed Bush	5 Gal.
	Encelia farinosa / Brittle Bush	1 Gal.
	Eremophila glabra 'Kalgoorlie' / Emu Bush	1 Gal.
	Eremophila glabra 'Mingenew Gold' / Emu Bush	1 Gal.
	Eremophila glabra carnosa / Emu Bush	1 Gal.
	Hesperaloe funifera / Giant Yucca	5 Gal.
	Hesperaloe parviflora 'Brakelights' TM / Red Yucca	1 Gal.
	Lantana camara 'Dallas Red' / Dallas Red Lantana	1 Gal.
	Lantana x 'New Gold' / New Gold Lantana	1 Gal.
	Nerium oleander 'Petite Pink' / Petite Pink Oleander	1 Gal.
	Rosmarinus officinalis 'Prostratus' / Trailing Rosemary	1 Gal.
	Ruellia brittoniana / Blue Bells	1 Gal.
	Tecoma x 'Crimson Flare' / Red Yellow Bells	5 Gal.
	Vauquelinia californica / Arizona Rosewood	5 Gal.
	Yucca rupicola / Texas Yucca	5 Gal.
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
	Cynodon dactylon 'Midiron' / Bermuda Grass	Sod

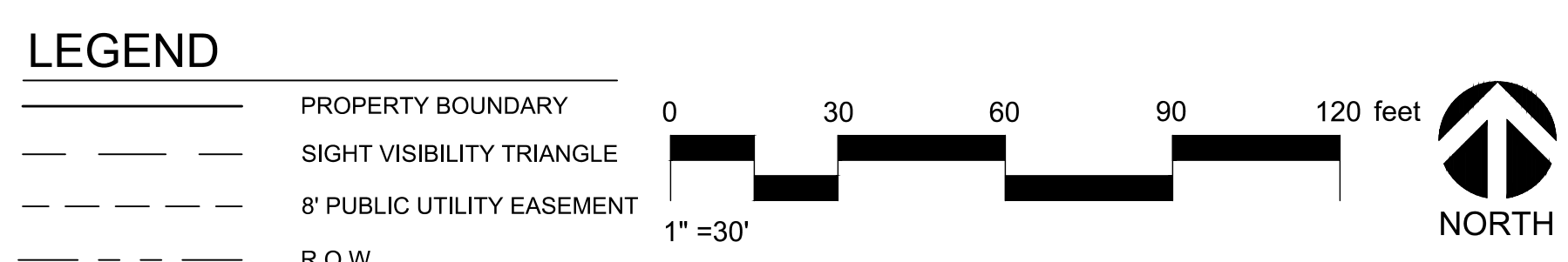


B6 PLANTING PLAN
 SCALE: 1" = 30'-0"

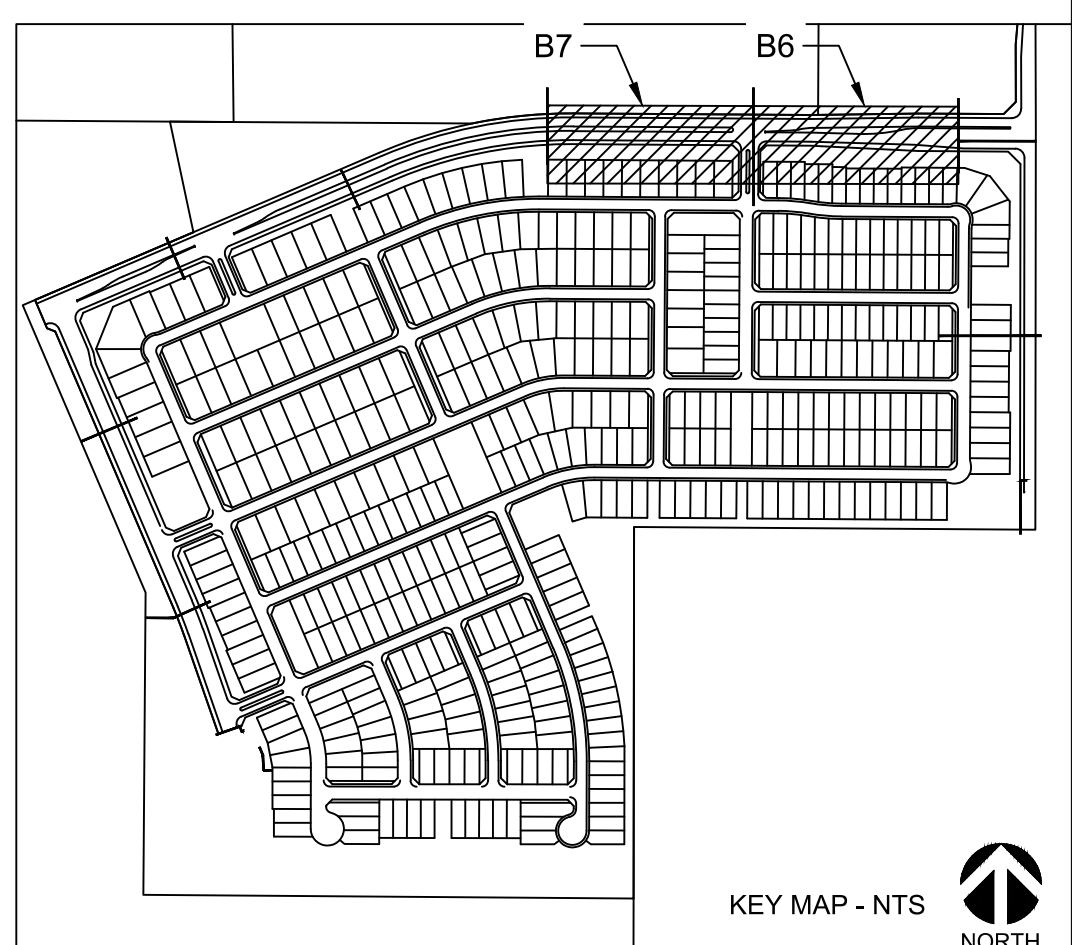


B7 PLANTING PLAN
 SCALE: 1" = 30'-0"

SYMBOL	NOTES
	Desert Natural Pavement - 3" Minus Express Carmel by Granite Express
	1" Screened D.G. at Drainage Basin Slopes Express Carmel by Granite Express



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ALAMAR
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FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
 PLANTING PLAN

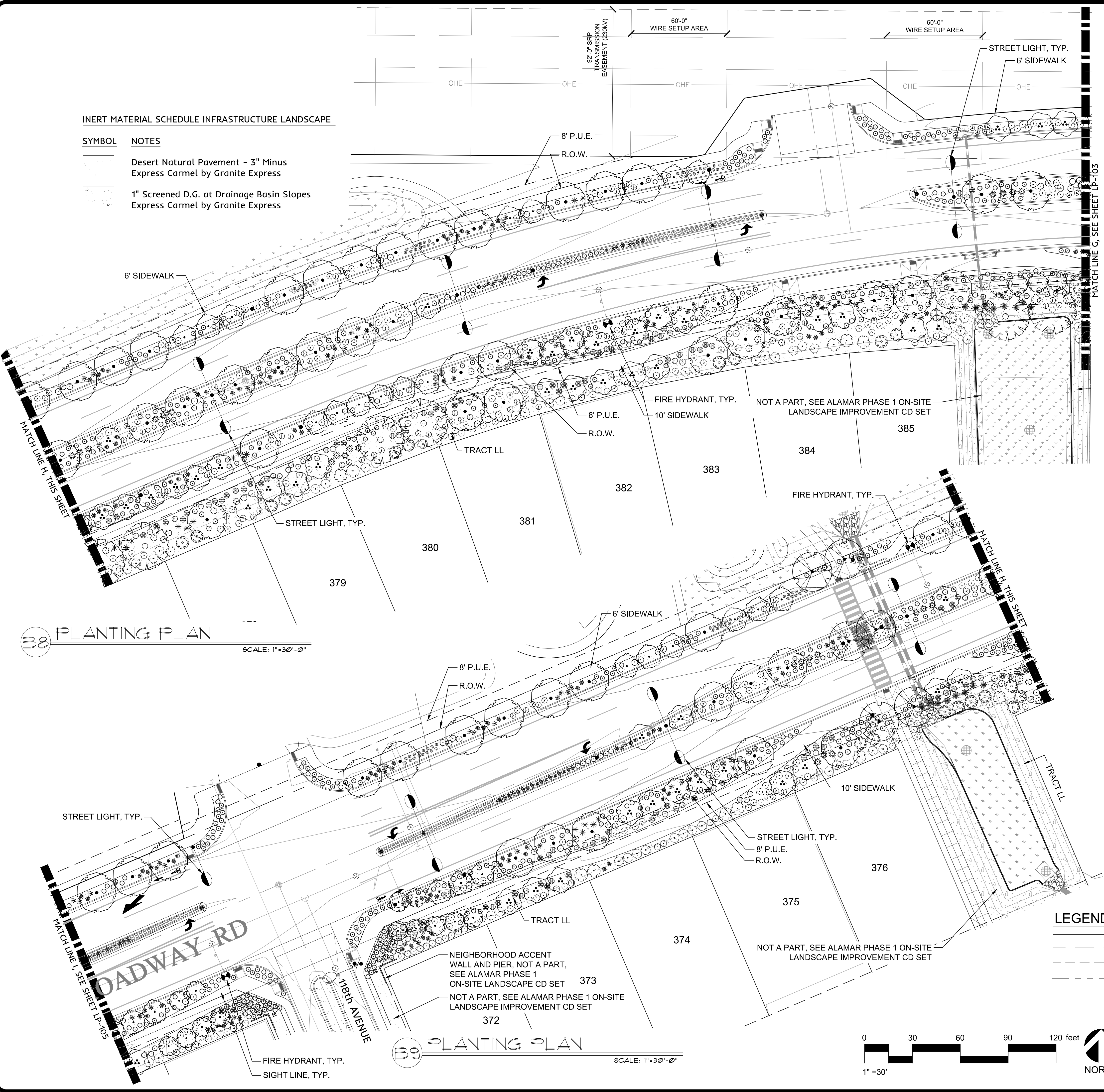
DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-104
8 OF 24 SHEETS	

PLANT SCHEDULE - INFRASTRUCTURE

TREES	BOTANICAL NAME / COMMON NAME	CONT
	Acacia aneura / Mulga	24" Box
	Caesalpinia cacalaco 'Smoothie' TM / Cascalote	24" Box
	Parkinsonia x 'Desert Museum' / Palo Verde	24" Box
	Pistacia chinensis 'Red Push' / Chinese Pistache	24" Box
	Prosopis chilensis / Chilean Mesquite	24" Box
	Prosopis x 'Phoenix' TM / Hybrid Mesquite	24" Box
	Sophora secundiflora / Texas Mountain Laurel	24" Box
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
	Acacia redolens / Bank Catclaw	5 Gal.
	Agave weberi / Weber's Agave	5 Gal.
	Aloe x 'Blue Elf' / Aloe	1 Gal.
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.
	Bougainvillea x 'Rosenka' / Bougainvillea	5 Gal.
	Bougainvillea x 'La Jolla' / Bougainvillea	5 Gal.
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.
	Convolvulus cneorum / Bush Morning Glory	1 Gal.
	Dalea greggii / Trailing Indigo Bush	1 Gal.
	Dasyliiron wheeleri / Grey Desert Spoon	5 Gal.
	Dodonaea viscosa 'Green' / Green Hopseed Bush	5 Gal.
	Encelia farinosa / Brittle Bush	1 Gal.
	Eremophila glabra 'Kalgoorlie' / Emu Bush	1 Gal.
	Eremophila glabra 'Mingenew Gold' / Emu Bush	1 Gal.
	Eremophila glabra carnosa / Emu Bush	1 Gal.
	Hesperaloe funifera / Giant Yucca	5 Gal.
	Hesperaloe parviflora 'Brakelights' TM / Red Yucca	1 Gal.
	Lantana camara 'Dallas Red' / Dallas Red Lantana	1 Gal.
	Lantana x 'New Gold' / New Gold Lantana	1 Gal.
	Nerium oleander 'Petite Pink' / Petite Pink Oleander	1 Gal.
	Rosmarinus officinalis 'Prostratus' / Trailing Rosemary	1 Gal.
	Ruellia brittoniana / Blue Bells	1 Gal.
	Tecoma x 'Crimson Flare' / Red Yellow Bells	5 Gal.
	Vauquelinia californica / Arizona Rosewood	5 Gal.
	Yucca rupicola / Texas Yucca	5 Gal.
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
	Cynodon dactylon 'Midiron' / Bermuda Grass	Sod

INERT MATERIAL SCHEDULE INFRASTRUCTURE LANDSCAPE

SYMBOL	NOTES
	Desert Natural Pavement - 3" Minus Express Carmel by Granite Express
	1" Screened D.G. at Drainage Basin Slopes Express Carmel by Granite Express

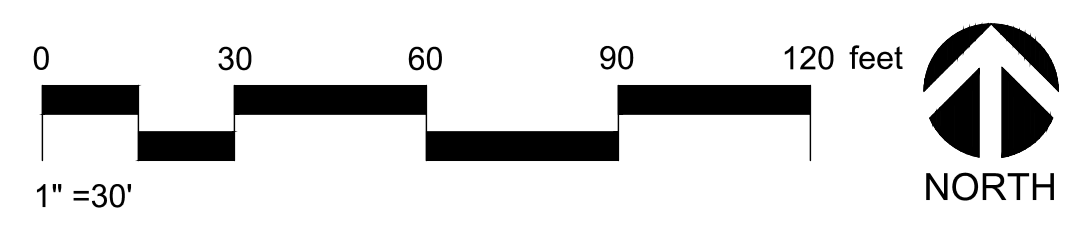


B8 PLANTING PLAN
 SCALE: 1"=30'-0"

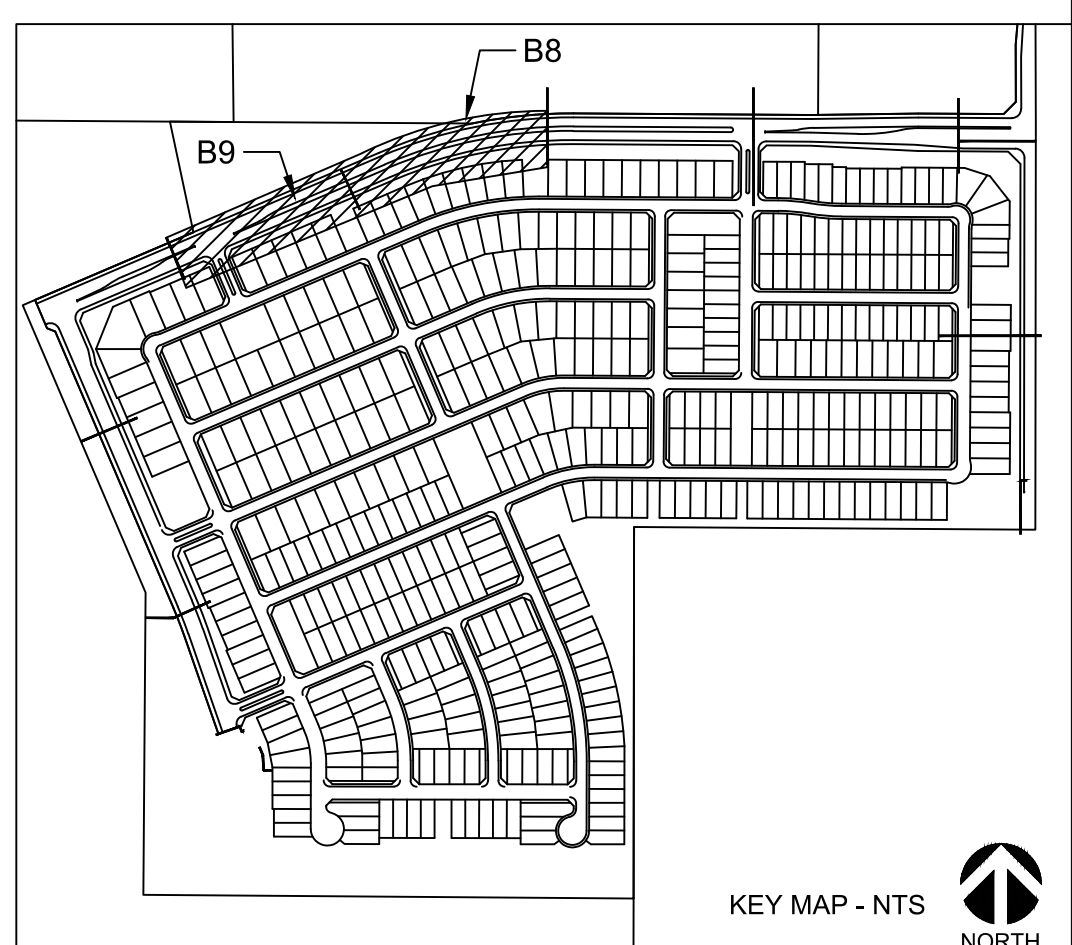
B9 PLANTING PLAN
 SCALE: 1"=30'-0"

LEGEND

	PROPERTY BOUNDARY
	SIGHT VISIBILITY TRIANGLE
	8' PUBLIC UTILITY EASEMENT
	R.O.W.



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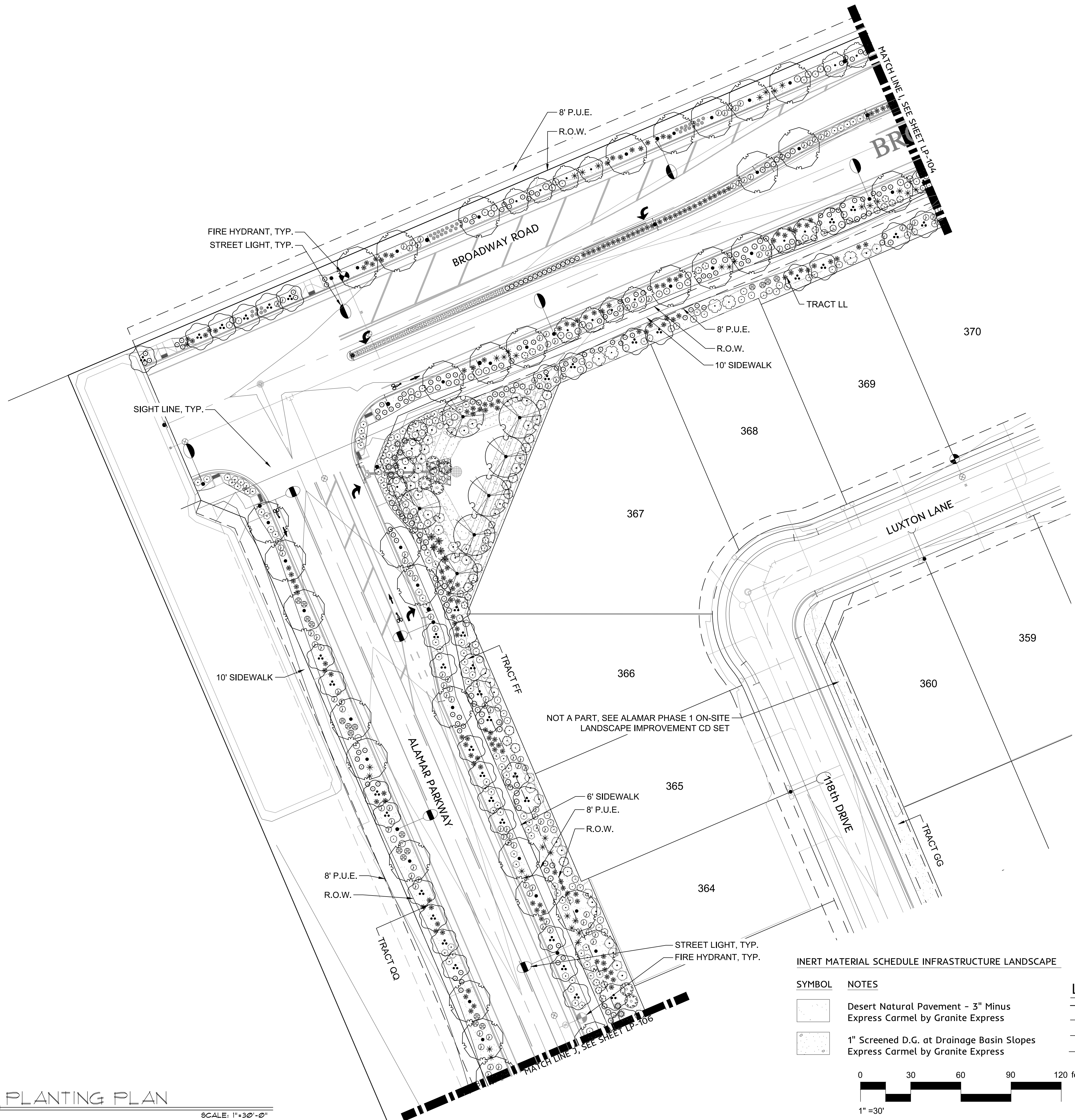
ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA

FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
PLANTING PLAN

DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-105
9 OF 24 SHEETS	

PLANT SCHEDULE - INFRASTRUCTURE

TREES	BOTANICAL NAME / COMMON NAME	CONT
	Acacia aneura / Mulga	24" Box
	Caesalpinia cacalaco 'Smoothie' TM / Cascalote	24" Box
	Parkinsonia x 'Desert Museum' / Palo Verde	24" Box
	Pistacia chinensis 'Red Push' / Chinese Pistache	24" Box
	Prosopis chilensis / Chilean Mesquite	24" Box
	Prosopis x 'Phoenix' TM / Hybrid Mesquite	24" Box
	Sophora secundiflora / Texas Mountain Laurel	24" Box
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
	Acacia redolens / Bank Catclaw	5 Gal.
	Agave weberi / Weber's Agave	5 Gal.
	Aloe x 'Blue Elf' / Aloe	1 Gal.
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.
	Bougainvillea x 'Rosenka' / Bougainvillea	5 Gal.
	Bougainvillea x 'La Jolla' / Bougainvillea	5 Gal.
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.
	Convolvulus cneorum / Bush Morning Glory	1 Gal.
	Dalea greggii / Trailing Indigo Bush	1 Gal.
	Dasyliirion wheeleri / Grey Desert Spoon	5 Gal.
	Dodonaea viscosa 'Green' / Green Hopseed Bush	5 Gal.
	Encelia farinosa / Brittle Bush	1 Gal.
	Eremophila glabra 'Kalgoorlie' / Emu Bush	1 Gal.
	Eremophila glabra 'Mingenew Gold' / Emu Bush	1 Gal.
	Eremophila glabra carnosa / Emu Bush	1 Gal.
	Hesperaloe funifera / Giant Yucca	5 Gal.
	Hesperaloe parviflora 'Brakelights' TM / Red Yucca	1 Gal.
	Lantana camara 'Dallas Red' / Dallas Red Lantana	1 Gal.
	Lantana x 'New Gold' / New Gold Lantana	1 Gal.
	Nerium oleander 'Petite Pink' / Petite Pink Oleander	1 Gal.
	Rosmarinus officinalis 'Prostratus' / Trailing Rosemary	1 Gal.
	Ruellia brittoniana / Blue Bells	1 Gal.
	Tecoma x 'Crimson Flare' / Red Yellow Bells	5 Gal.
	Vauquelinia californica / Arizona Rosewood	5 Gal.
	Yucca rupicola / Texas Yucca	5 Gal.
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
	Cynodon dactylon 'Midiron' / Bermuda Grass	Sod

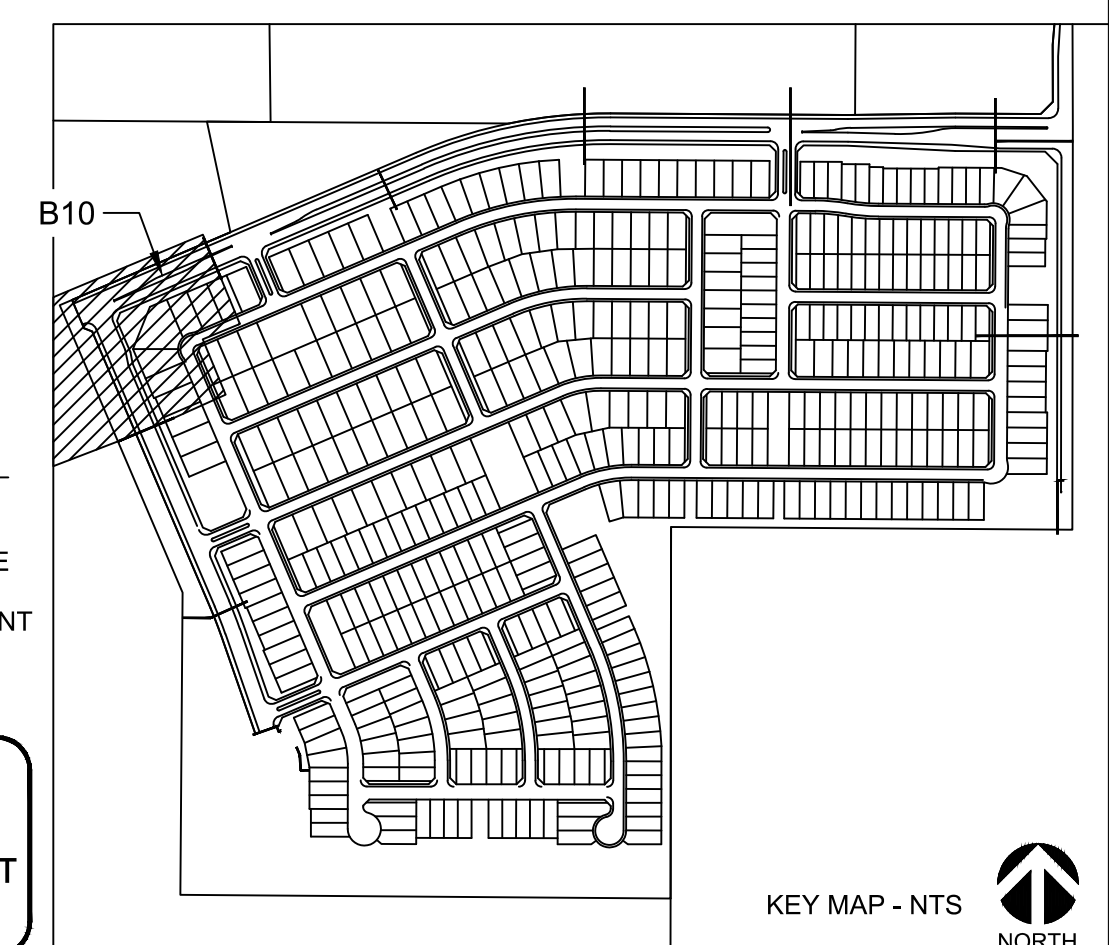
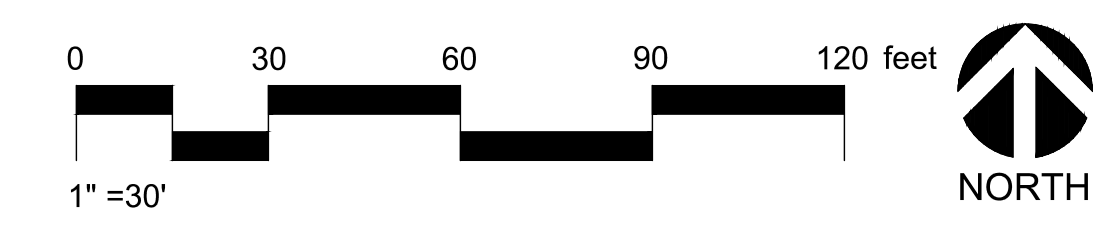


INERT MATERIAL SCHEDULE INFRASTRUCTURE LANDSCAPE

SYMBOL	NOTES
	Desert Natural Pavement - 3" Minus Express Carmel by Granite Express
	1" Screened D.G. at Drainage Basin Slopes Express Carmel by Granite Express

LEGEND

	PROPERTY BOUNDARY
	SIGHT VISIBILITY TRIANGLE
	8' PUBLIC UTILITY EASEMENT
	R.O.W.



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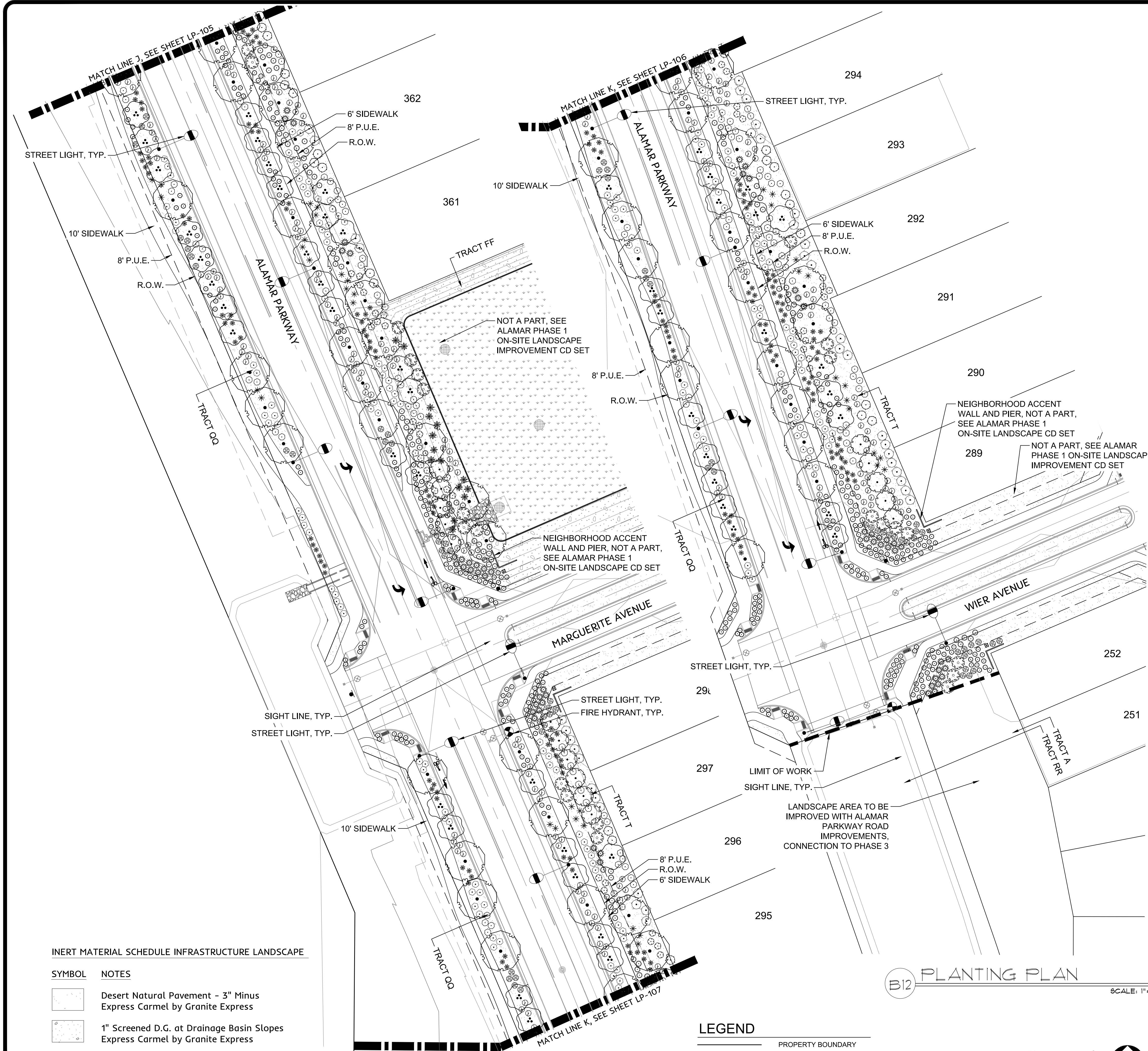


REVISIONS	
NO.	DATE
1	CITY 1ST. REVIEW - 09/04/18
2	CITY 2ND. REVIEW - 10/23/18

ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE
 PLANTING PLAN

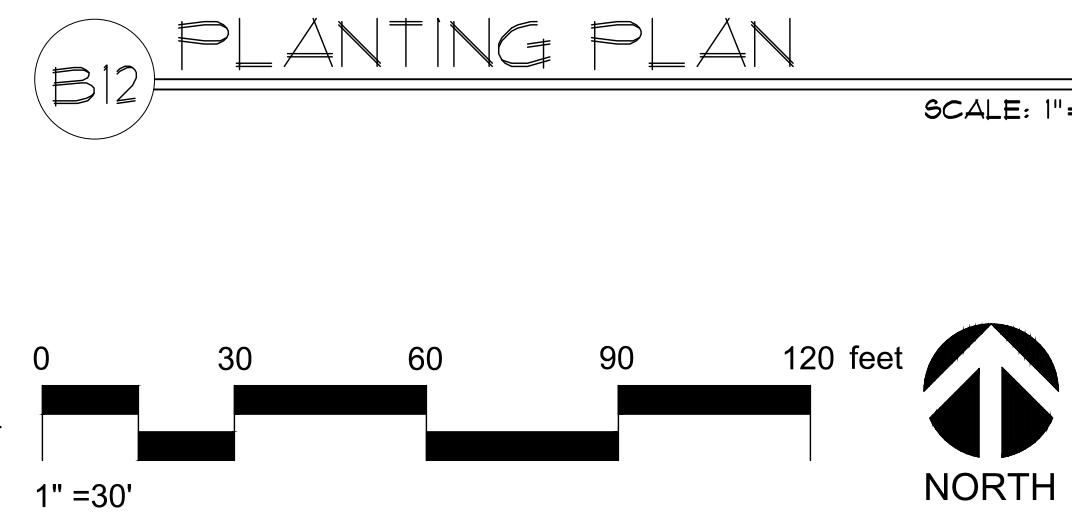
DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-106
10 OF 24 SHEETS	

PLANT SCHEDULE - INFRASTRUCTURE		
TREES	BOTANICAL NAME / COMMON NAME	CONT
	Acacia aneura / Mulga	24" Box
	Caesalpinia cacalaco 'Smoothie' TM / Cascalote	24" Box
	Parkinsonia x 'Desert Museum' / Palo Verde	24" Box
	Pistacia chinensis 'Red Push' / Chinese Pistache	24" Box
	Prosopis chilensis / Chilean Mesquite	24" Box
	Prosopis x 'Phoenix' TM / Hybrid Mesquite	24" Box
	Sophora secundiflora / Texas Mountain Laurel	24" Box
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
	Acacia redolens / Bank Catclaw	5 Gal.
	Agave weberi / Weber's Agave	5 Gal.
	Aloe x 'Blue Elf' / Aloe	1 Gal.
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.
	Bougainvillea x 'Rosenka' / Bougainvillea	5 Gal.
	Bougainvillea x 'La Jolla' / Bougainvillea	5 Gal.
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.
	Convolvulus cneorum / Bush Morning Glory	1 Gal.
	Dalea greggii / Trailing Indigo Bush	1 Gal.
	Dasyliiron wheeleri / Grey Desert Spoon	5 Gal.
	Dodonaea viscosa 'Green' / Green Hopseed Bush	5 Gal.
	Encelia farinosa / Brittle Bush	1 Gal.
	Eremophila glabra 'Kalgoorlie' / Emu Bush	1 Gal.
	Eremophila glabra 'Mingenew Gold' / Emu Bush	1 Gal.
	Eremophila glabra carnosa / Emu Bush	1 Gal.
	Hesperaloe funifera / Giant Yucca	5 Gal.
	Hesperaloe parviflora 'Brakelights' TM / Red Yucca	1 Gal.
	Lantana camara 'Dallas Red' / Dallas Red Lantana	1 Gal.
	Lantana x 'New Gold' / New Gold Lantana	1 Gal.
	Nerium oleander 'Petite Pink' / Petite Pink Oleander	1 Gal.
	Rosmarinus officinalis 'Prostratus' / Trailing Rosemary	1 Gal.
	Ruellia brittoniana / Blue Bells	1 Gal.
	Tecoma x 'Crimson Flare' / Red Yellow Bells	5 Gal.
	Vauquelinia californica / Arizona Rosewood	5 Gal.
	Yucca rupicola / Texas Yucca	5 Gal.
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
	Cynodon dactylon 'Midiron' / Bermuda Grass	Sod

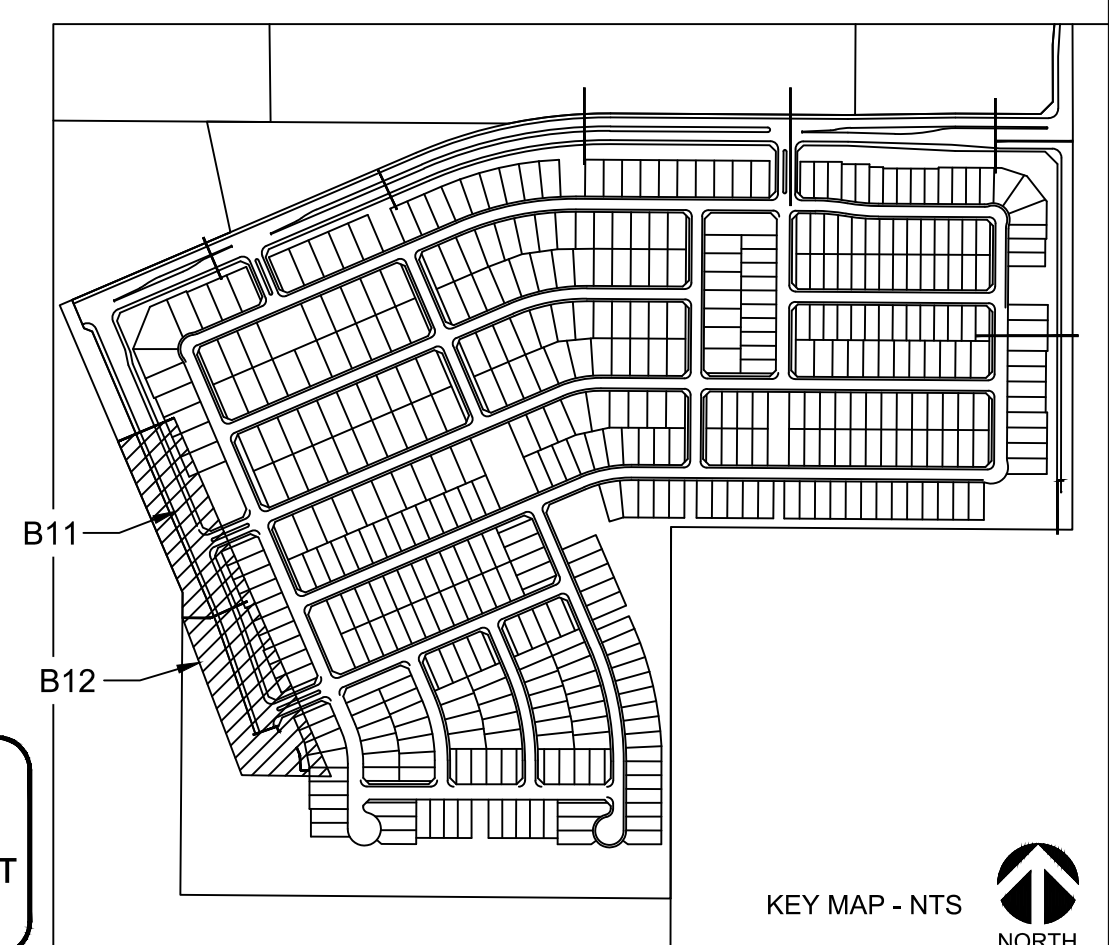


INERT MATERIAL SCHEDULE INFRASTRUCTURE LANDSCAPE	
SYMBOL	NOTES
	Desert Natural Pavement - 3" Minus Express Carmel by Granite Express
	1" Screened D.G. at Drainage Basin Slopes Express Carmel by Granite Express

LEGEND	
	PROPERTY BOUNDARY
	SIGHT VISIBILITY TRIANGLE
	8' PUBLIC UTILITY EASEMENT
	R.O.W.



B12 PLANTING PLAN
 SCALE: 1" = 30'-0"



B11 PLANTING PLAN
 SCALE: 1" = 30'-0"

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REVISIONS	
NO.	DATE
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2	CITY 2ND. REVIEW - 10/23/18

ALAMAR
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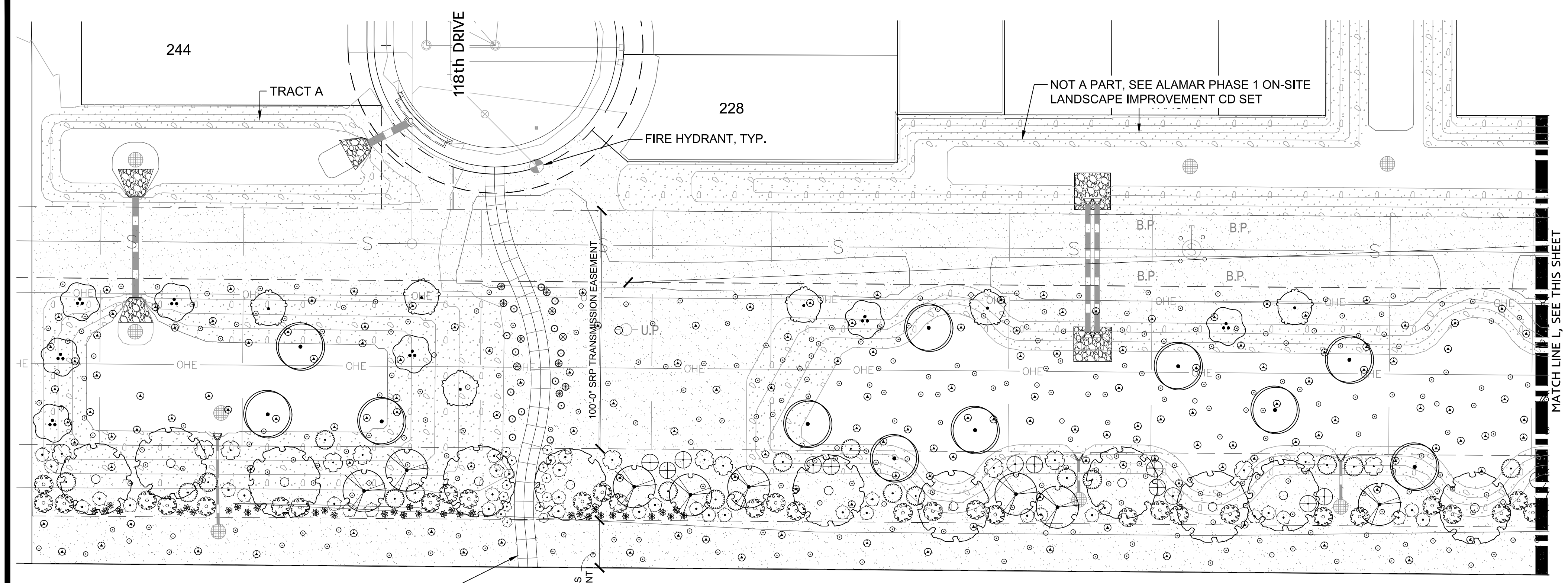
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE

PLANTING PLAN

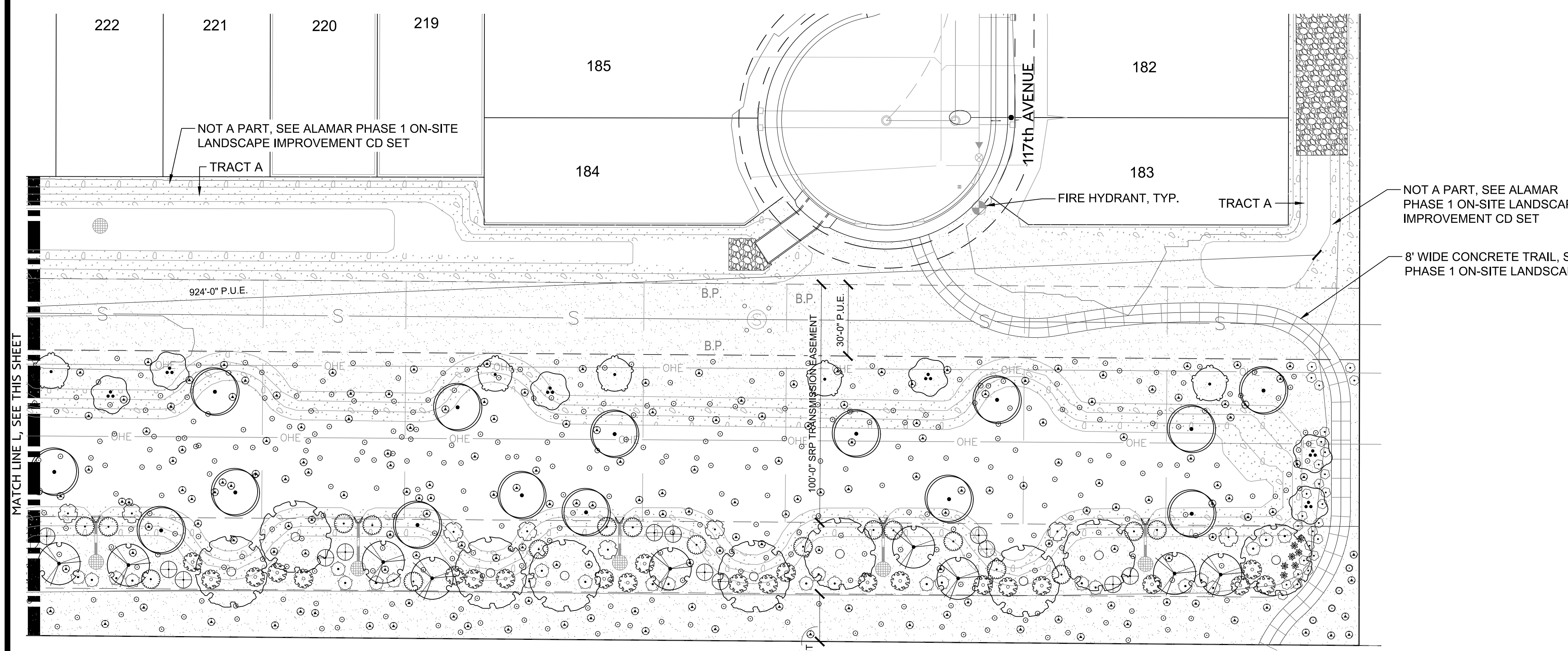
DRAWN	SY/ RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-107
11 OF 24 SHEETS	

PLANT SCHEDULE - INFRASTRUCTURE

TREES	BOTANICAL NAME / COMMON NAME	CONT
	Acacia aneura / Mulga	24" Box
	Caesalpinia cacalaco 'Smoothie' TM / Cascalote	24" Box
	Parkinsonia x 'Desert Museum' / Palo Verde	24" Box
	Pistacia chinensis 'Red Push' / Chinese Pistache	24" Box
	Prosopis chilensis / Chilean Mesquite	24" Box
	Prosopis x 'Phoenix' TM / Hybrid Mesquite	24" Box
	Sophora secundiflora / Texas Mountain Laurel	24" Box
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
	Acacia redolens / Bank Catclaw	5 Gal.
	Agave weberi / Weber's Agave	5 Gal.
	Aloe x 'Blue Elf' / Aloe	1 Gal.
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.
	Bougainvillea x 'Rosenka' / Bougainvillea	5 Gal.
	Bougainvillea x 'La Jolla' / Bougainvillea	5 Gal.
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.
	Convolvulus cneorum / Bush Morning Glory	1 Gal.
	Dalea greggii / Trailing Indigo Bush	1 Gal.
	Dasyliion wheeleri / Grey Desert Spoon	5 Gal.
	Dodonaea viscosa 'Green' / Green Hopseed Bush	5 Gal.
	Encelia farinosa / Brittle Bush	1 Gal.
	Eremophila glabra 'Kalgoorlie' / Emu Bush	1 Gal.
	Eremophila glabra 'Mingenew Gold' / Emu Bush	1 Gal.
	Eremophila glabra carnosa / Emu Bush	1 Gal.
	Hesperaloe funifera / Giant Yucca	5 Gal.
	Hesperaloe parviflora 'Brakelights' TM / Red Yucca	1 Gal.
	Lantana camara 'Dallas Red' / Dallas Red Lantana	1 Gal.
	Lantana x 'New Gold' / New Gold Lantana	1 Gal.
	Nerium oleander 'Petite Pink' / Petite Pink Oleander	1 Gal.
	Rosmarinus officinalis 'Prostratus' / Trailing Rosemary	1 Gal.
	Ruellia brittoniana / Blue Bells	1 Gal.
	Tecoma x 'Crimson Flare' / Red Yellow Bells	5 Gal.
	Vauquelinia californica / Arizona Rosewood	5 Gal.
	Yucca rupicola / Texas Yucca	5 Gal.
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
	Cynodon dactylon 'Midiron' / Bermuda Grass	Sod



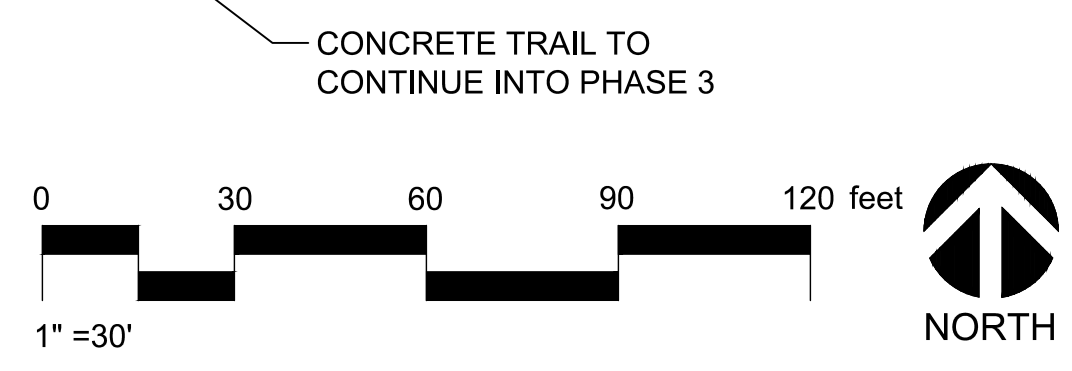
B13 UTILITY EASEMENT
 SCALE: 1"=30'-0"



B14 UTILITY EASEMENT
 SCALE: 1"=30'-0"

INERT MATERIAL SCHEDULE INFRASTRUCTURE LANDSCAPE

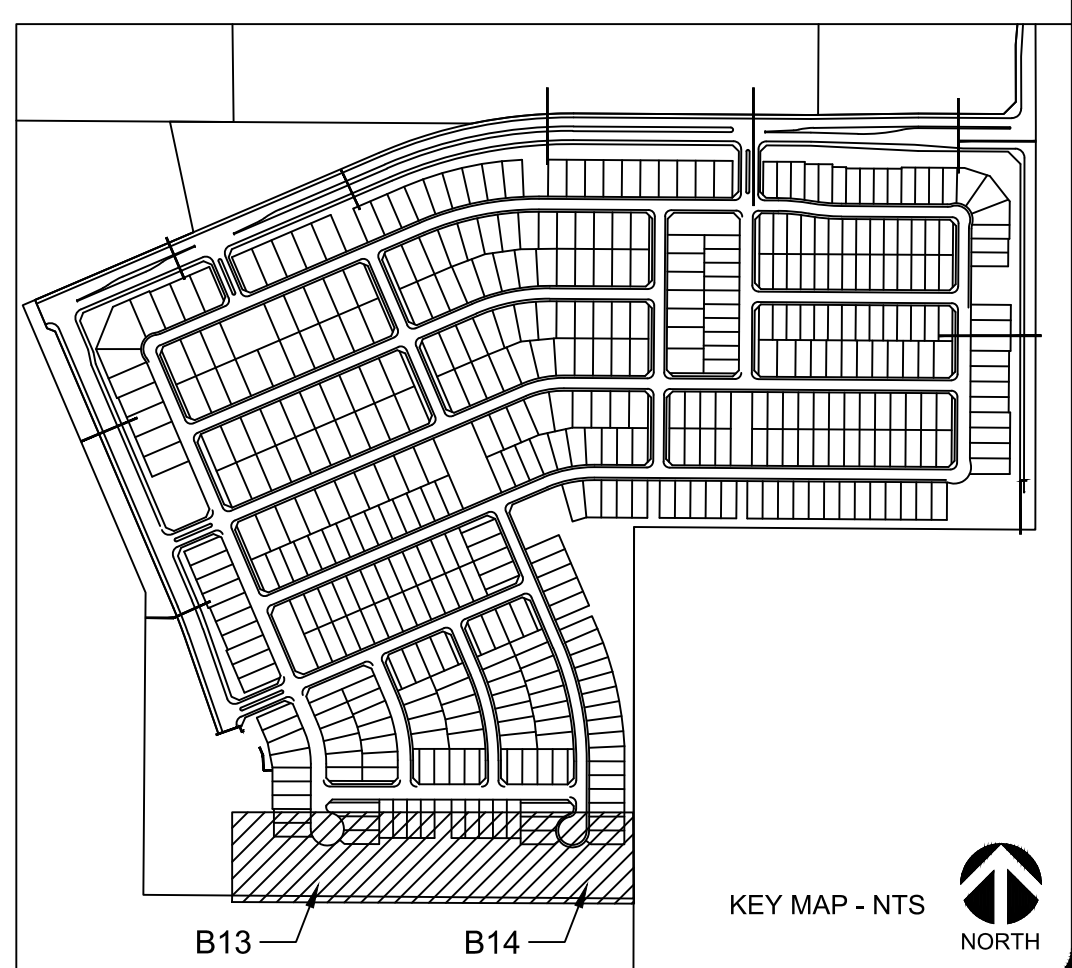
SYMBOL	NOTES
	Desert Natural Pavement - 3" Minus Express Carmel by Granite Express
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LEGEND

	PROPERTY BOUNDARY
	SIGHT VISIBILITY TRIANGLE
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LANDSCAPE MAINTENANCE SCHEDULE - INFRASTRUCTURE LANDSCAPE

TREES	BOTANICAL NAME / COMMON NAME	CONT	EMITTER APPLICATION	MAINTENANCE NOTES
	Acacia aneura / Mulga	24" Box	For tree emitter schedule, see Irrigation Plans	Stake as required/ trim as needed
	Caesalpinia cacalaco `Smoothie` TM / Cascalote	24" Box	For tree emitter schedule, see Irrigation Plans	Stake as required/ trim as needed
	Parkinsonia x `Desert Museum` / Palo Verde	24" Box	For tree emitter schedule, see Irrigation Plans	Stake as required/ trim as needed
	Pistacia chinensis `Red Push` / Chinese Pistache	24" Box	For tree emitter schedule, see Irrigation Plans	Stake as required/ trim as needed
	Prosopis chilensis / Chilean Mesquite	24" Box	For tree emitter schedule, see Irrigation Plans	Stake as required/ trim as needed
	Prosopis x `Phoenix` TM / Hybrid Mesquite	24" Box	For tree emitter schedule, see Irrigation Plans	Stake as required/ trim as needed
	Sophora secundiflora / Texas Mountain Laurel	24" Box	For tree emitter schedule, see Irrigation Plans	Stake as required/ trim as needed
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT	EMITTER APPLICATION	MAINTENANCE NOTES
	Acacia redolens / Bank Catclaw	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Agave weberi / Weber's Agave	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Aloe x `Blue Elf` / Aloe	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Ambrosia deltoidea / Triangle Bur Ragweed	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Bougainvillea x `Rosenka` / Bougainvillea	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Bougainvillea x `La Jolla` / Bougainvillea	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Caesalpinia pulcherrima / Red Bird Of Paradise	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Convolvulus cneorum / Bush Morning Glory	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Dalea greggii / Trailing Indigo Bush	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Dasyliirion wheeleri / Grey Desert Spoon	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Dodonaea viscosa `Green` / Green Hopseed Bush	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Encelia farinosa / Brittle Bush	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Eremophila glabra `Kalgoorlie` / Emu Bush	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Eremophila glabra `Mingenew Gold` / Emu Bush	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Eremophila glabra carnososa / Emu Bush	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Hesperaloe funifera / Giant Yucca	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Hesperaloe parviflora `Brakelights` TM / Red Yucca	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Lantana camara `Dallas Red` / Dallas Red Lantana	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Lantana x `New Gold` / New Gold Lantana	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Nerium oleander `Petite Pink` / Petite Pink Oleander	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Rosmarinus officinalis `Prostratus` / Trailing Rosemary	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Ruellia brittoniana / Blue Bells	1 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Tecoma x `Crimson Flare` / Red Yellow Bells	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Vauquelinia californica / Arizona Rosewood	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
	Yucca rupicola / Texas Yucca	5 Gal.	For shrub emitter schedule, see irrigation Plans	Prune/ trim as needed in the spring and summer
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	EMITTER APPLICATION	MAINTENANCE NOTES
	Cynodon dactylon `Midiron` / Bermuda Grass	Sod	For Turf watering schedule, see irrigation Plans	

NOTES:
 CONTRACTOR TO VERIFY ALL QUANTITIES.
 CONTRACTOR TO PROVIDE DECOMPOSED GRANITE SAMPLES TO LANDSCAPE ARCHITECT FOR APPROVAL.
 MAINTAIN 2' TO 3' TREE AND SHRUB CLEARANCE FROM WALLS.
 MAINTAIN 2' TO 3' TREE CLEARANCE FROM SIDEWALKS.

LANDSCAPE DESIGN

The Landscape design is intended to complement and reinforce the overall theme and character for the community. The proposed palette of trees, shrubs, ground covers and lawn areas will be utilized to establish a strong link to the overall community design intent, and will complement the South Avondale Character Area as defined in the COA Street Tree Master Plan. The plants natural size, shape, leaf, texture, water use and seasonal color interest are all important elements of the landscape design.

LANDSCAPE MAINTENANCE INTENT:

- Provide good horticultural and ecological practice to all landscape operations to ensure best growing environment for all plant material.
- Promote healthy growth and establishment of all plants, trees, and grass areas.
- Ensure development of optimum plant form, shape, and planting density.

MONTHLY MAINTENANCE SCHEDULE:

JANUARY
 LAWN MAINTENANCE/ PERENNIAL RYE GRASS
 FERTILIZE ONCE WITH A 3-1-2 RATIO (E.G. 21-7-14)
 ADJUST SEASONAL WATERING SCHEDULE FOR TREES AND SHRUBS
 ANY PLANTS THAT EXPERIENCE FROST DAMAGE SHALL NOT BE PRUNED UNTIL AFTER BEGINNING OF MARCH.
 RAKE DECOMPOSED GRANITE AND REMOVE ALL DEAD PLANT MATERIAL AND DEBRIS

FEBRUARY
 LAWN MAINTENANCE/ PERENNIAL RYE GRASS
 PRE-EMERGENT TO CONTROL WEEDS. APPLY ONE TIME FEB 25 - MARCH 5.
 ADJUST IRRIGATION TO WINTER WATERING SCHEDULE.
 RAKE DECOMPOSED GRANITE AND REMOVE ALL DEAD PLANT MATERIAL AND DEBRIS.

MARCH
 LAWN MAINTENANCE - PERENNIAL RYE GRASS
 BY MID-MONTH FROST DAMAGED PLANTS CAN BE PRUNED. PRUNING SHOULD BE DONE TO MAINTAIN PLANT HEALTH (REMOVE DEAD, DAMAGED OR DISEASED PORTIONS, CROSS BRANCHING, ETC.)
 SPENT STALKS OF ALOES, AGAVES AND OTHER SUCCULENTS CAN BE REMOVED.
 RAKE DECOMPOSED GRANITE AND REMOVE ALL DEAD PLANT MATERIAL AND DEBRIS.

APRIL
 LAWN MAINTENANCE - PERENNIAL RYE GRASS
 MAINTAIN RYE GRASS AT 3/4" OR LOWER TO ENCOURAGE SPRING TRANSITION BACK TO BERMUDA GRASS
 ADJUST SEASONAL WATERING SCHEDULE FOR TREES AND SHRUBS
 RAKE DECOMPOSED GRANITE AND REMOVE DEBRIS FROM LANDSCAPE AREAS.

MAY
 LAWN MAINTENANCE - PERENNIAL RYE GRASS
 FERTILIZE ONCE WITH A 3-1-2 RATIO (E.G. 21-7-14)
 MAINTAIN RYE GRASS AT 1/2" WITH A REEL LAWN MOWER UNTIL THE OVERSEED DIES.
 EARLY MAY, CHECK FOR PLANT DEFICIENCIES AND APPLY FERTILIZER TO LANDSCAPE IF NEEDED.
 BY THE END OF MAY AND AS TEMPERATURE RISE, ADJUST SEASONAL WATERING SCHEDULE FOR TREES AND SHRUBS.

JUNE
 LAWN MAINTENANCE OF BERMUDA GRASS/ MOW AT A RECOMMENDED HEIGHT.
 REMOVE THATCH WHEN MORE THAN 1/2" THICK.

JULY
 LAWN MAINTENANCE - BERMUDA GRASS. FERTILIZE ONCE WITH A 3-1-2 RATIO (E.G. 21-7-14). MOW AT A RECOMMENDED HEIGHT.

AUGUST
 LAWN MAINTENANCE - BERMUDA GRASS
 MOW AT MAXIMUM RECOMMENDED HEIGHT TO INCREASE STRESS TOLERANCE.

SEPTEMBER
 LAWN MAINTENANCE - BERMUDA GRASS
 MOW AT MAXIMUM RECOMMENDED HEIGHT TO INCREASE STRESS TOLERANCE. TURN OFF TURF IRRIGATION ONE WEEK PRIOR TO SCALPING BERMUDA GRASS.

OCTOBER
 LAWN MAINTENANCE - PERENNIAL RYE GRASS
 SCALP AND LIGHTLY DETHATCH BERMUDA GRASS NO EARLIER THAN SEPTEMBER 25.
 PLANT PERENNIAL RYE GRASS AT A RATE OF 15 POUNDS PER 1,000 SQUARE FEET. DO NOT FERTILIZE OVERSEED RYE GRASS UNTIL A 2 WEEKS AFTER THE SEED IS DOWN.

NOVEMBER
 LAWN MAINTENANCE - PERENNIAL RYE GRASS
 SCALP AND LIGHTLY DETHATCH BERMUDA GRASS NO EARLIER THAN SEPTEMBER 25.
 PLANT PERENNIAL RYE GRASS AT A RATE OF 15 POUNDS PER 1,000 SQUARE FEET. DO NOT FERTILIZE OVERSEED RYE GRASS UNTIL AFTER FIRST MOWING.
 ADJUST SEASONAL WATERING SCHEDULE FOR TREES AND SHRUBS

DECEMBER
 LAWN MAINTENANCE - PERENNIAL RYE GRASS
 FERTILIZE ONCE WITH A 3-1-2 RATIO (E.G. 21-7-14)
 SPRAY PRE-EMERGENT (SURFLAN) IN DECOMPOSED GRANITE PLANTING AREAS TO CONTROL WEEDS.
 RAKE DECOMPOSED GRANITE AND REMOVE DEBRIS FROM LANDSCAPE AREAS.
 DO NOT PRUNE ANY DAMAGE ON PLANTS DUE TO FROST AND DO NOT PRUNE COLD-TENDER PLANTS, UNTIL SPRINGTIME.

NOTES:
 TREES WILL NEED TO BE TRIMMED AT LEAST ONCE IN THE SPRING. SOME TREE SPECIES WILL ALSO NEED TO BE PRUNED DURING THE SUMMER AND FALL MONTHS.
 PALM TREES, AGAVES, YUCCAS, AND DESERT SPOON SPECIES WILL NEED TO BE MAINTAINED ON AN INDIVIDUAL BASIS AND AS NEEDED THROUOUT THE YEAR.
 RAKE DECOMPOSED GRANITE AREAS.
 DO NOT CUT LOWER LEAVES OF THE AGAVE TO MAINTAIN NATURAL FORM.

IRRIGATION DESIGN

The intent is to design an irrigation system that will maintain aesthetically pleasing plant material with a reasonable initial construction cost and minimal annual maintenance costs.

The irrigation system anticipated will be a combination sprinkler/drip system using pop-up rotor or pop-up spray sprinklers on turf grasses, pop-up and point source drip emitters on non-turf plant materials located outside of turf areas. The primary plant material types (turf, trees, shrubs) will be irrigated on separate control valves.

The water source will be potable water from multiple points-of-connection (POC's) that will be located at strategic locations throughout the site. The irrigation meters will be from 1-inch and 1.5-inches in size with a capacity of 10 to 80 GPM. At each POC a curb stop valve, water meter, and backflow prevention device will be provided. Additionally, a solenoid operated master valve and flow sensor will provide for additional protection in the event of a mainline break.

Control of the landscape irrigation system will be facilitated by smart, weather sensing controllers located near each POC. Controllers will be pedestal and/or wall mounted in a stainless steel enclosure. Low voltage (24 VAC) wiring from the controller to solenoid valves will be single strand wire suitable for direct burial. It is recommended that controllers be located at or near POC locations, or as coordinated with the Civil or Electrical Engineer, where 110 VAC power (low amperage) will be required.

The mainline will be Class 200 PVC pipe and sprinkler lateral pipe will be Class 200 and drip lateral pipe will be Class 315 PVC. Specified pipe burial depths will be 24 inches for mainline pipe and 18 inches for lateral pipe. Control wiring will be adjacent to or below mainline burial depths. Where irrigation mainline and control wire must cross under hard surface, pipe and wire will be routed through separate PVC Class 200 sleeves.

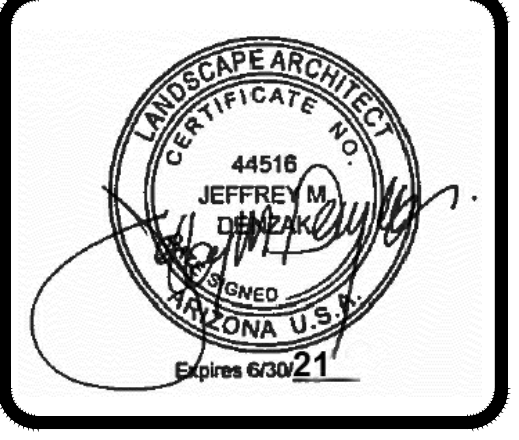
Plastic solenoid valves will be rated at 200 PSI, having a flow control and pressure regulation capability. Sprinkler laterals will be designed for 10 to 50 GPM +/- depending on required zone flows, and will utilize 1-inch to 1.5-inch solenoid valves. Multiple laterals will operate simultaneously as programmed from the controller. Each manual and solenoid valve will be housed in a single valve box for valve access.




Quick coupling valves will be located on approximately 200 to 250 foot centers for incidental water needs.

Sprinklers will be spaced so as not to exceed the manufacturer's recommended maximum spacing and to minimize over-spray onto hard surfaces or non-irrigated areas. All sprinklers and bubblers will be specified to be installed on swing joints.



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REVISIONS	
NO.	DATE
	CITY 1ST. REVIEW - 09/04/18
	CITY 2ND. REVIEW - 10/23/18
	

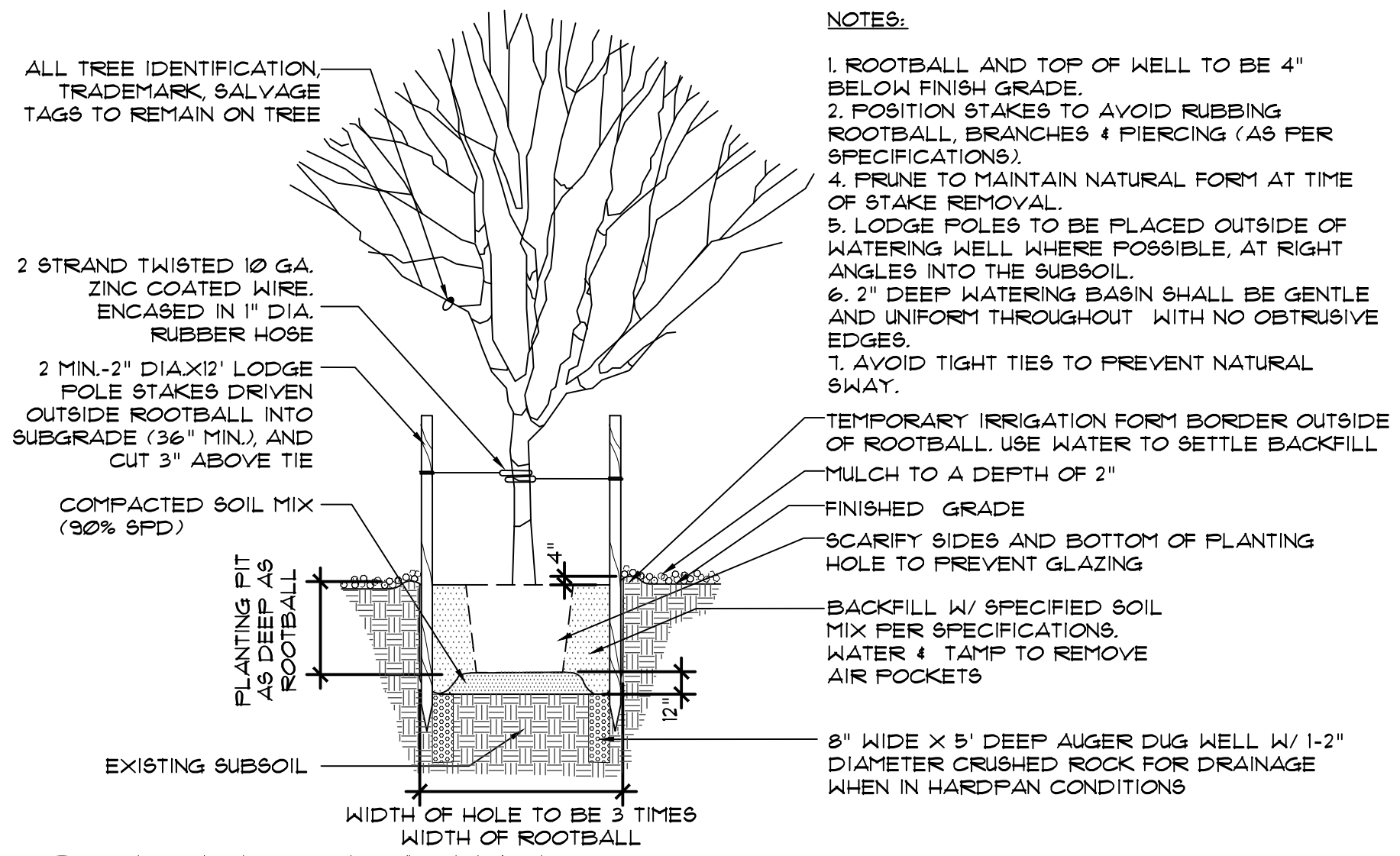
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 CITY OF AVONDALE, MARICOPA COUNTY, Arizona

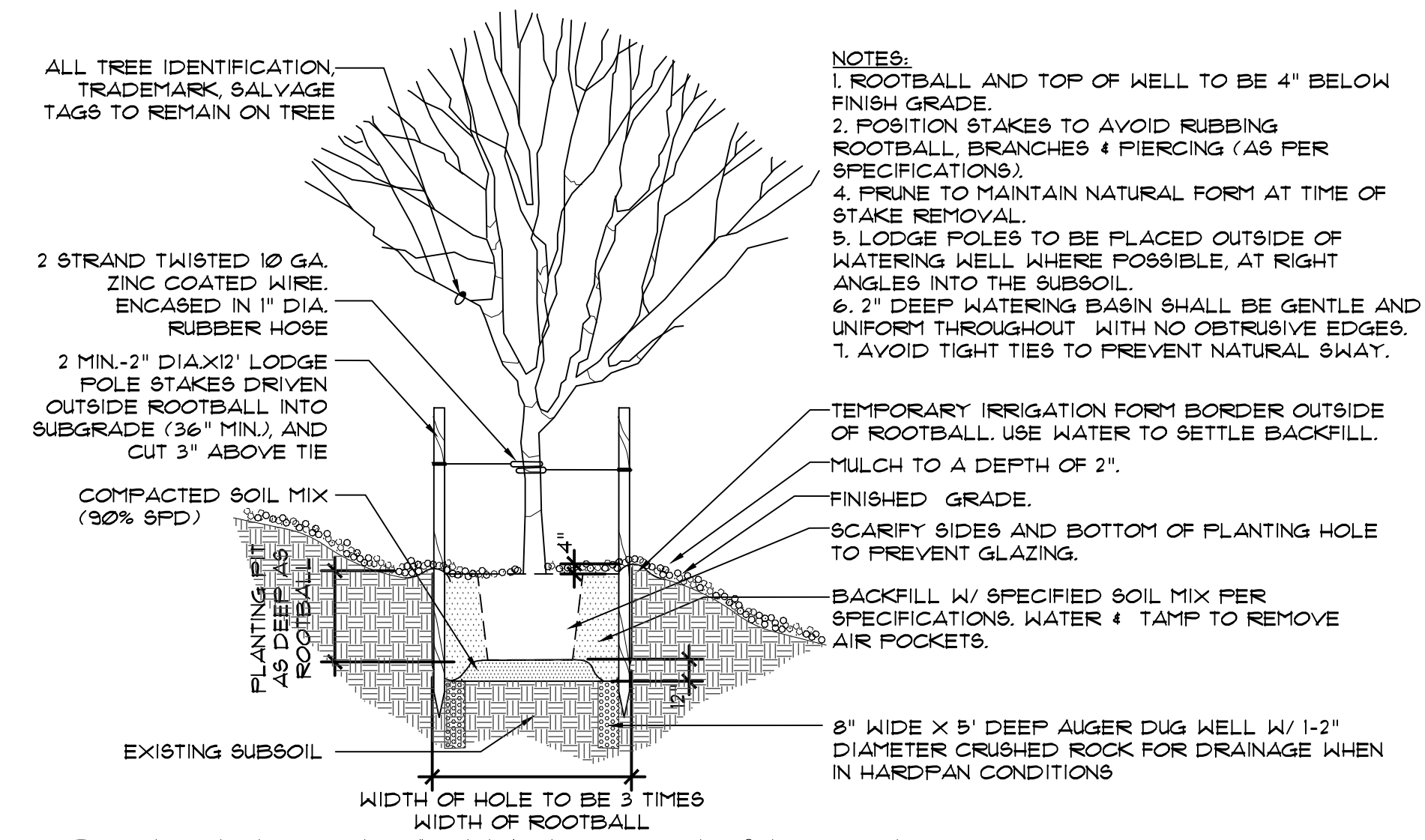
FINAL LANDSCAPE PLANS - PHASE 1 INFRASTRUCTURE

LANDSCAPE MAINTENANCE SCHEDULE

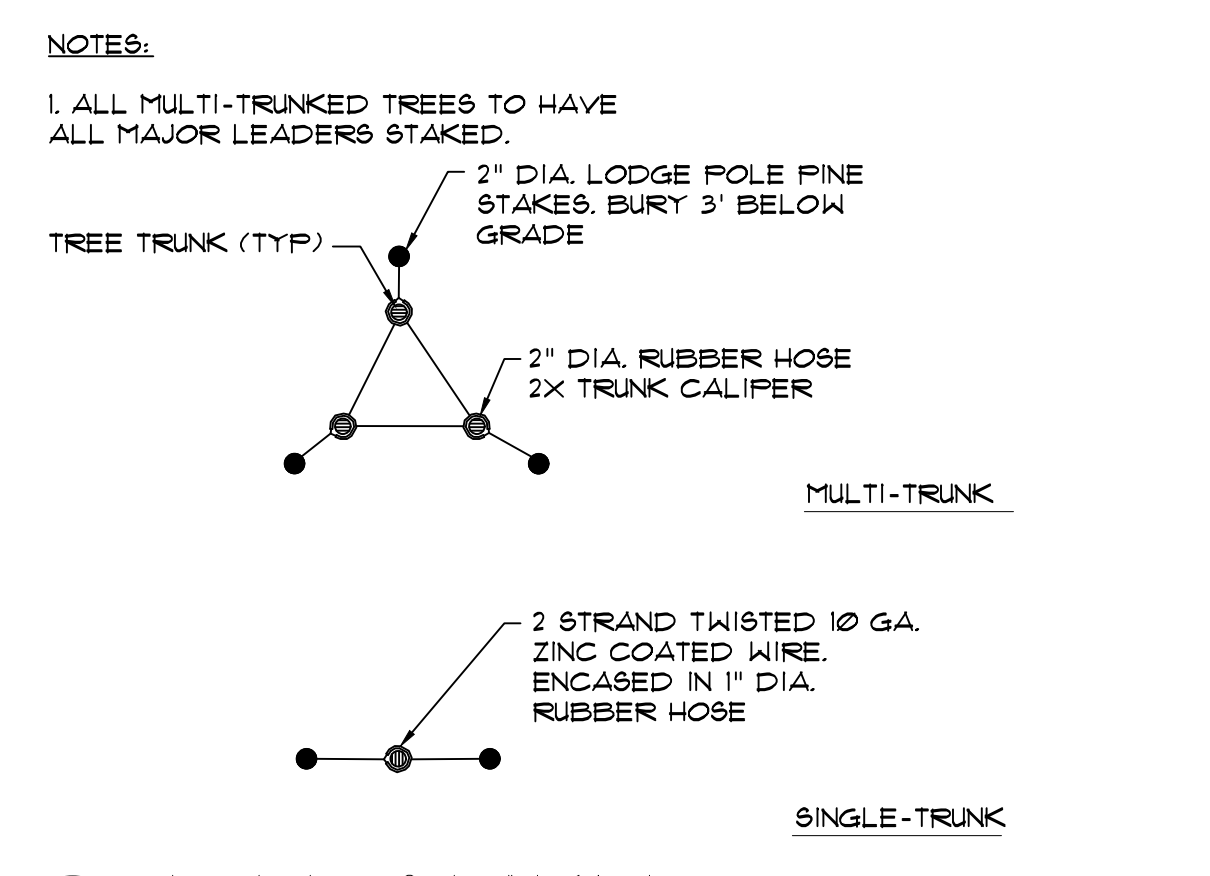
DRAWN SY/ RP / TH
CHECKED JD
DATE 10.09.18
SCALE AS SHOWN
JOB NO. 1704
SHEET LP-401
12 OF 24 SHEETS



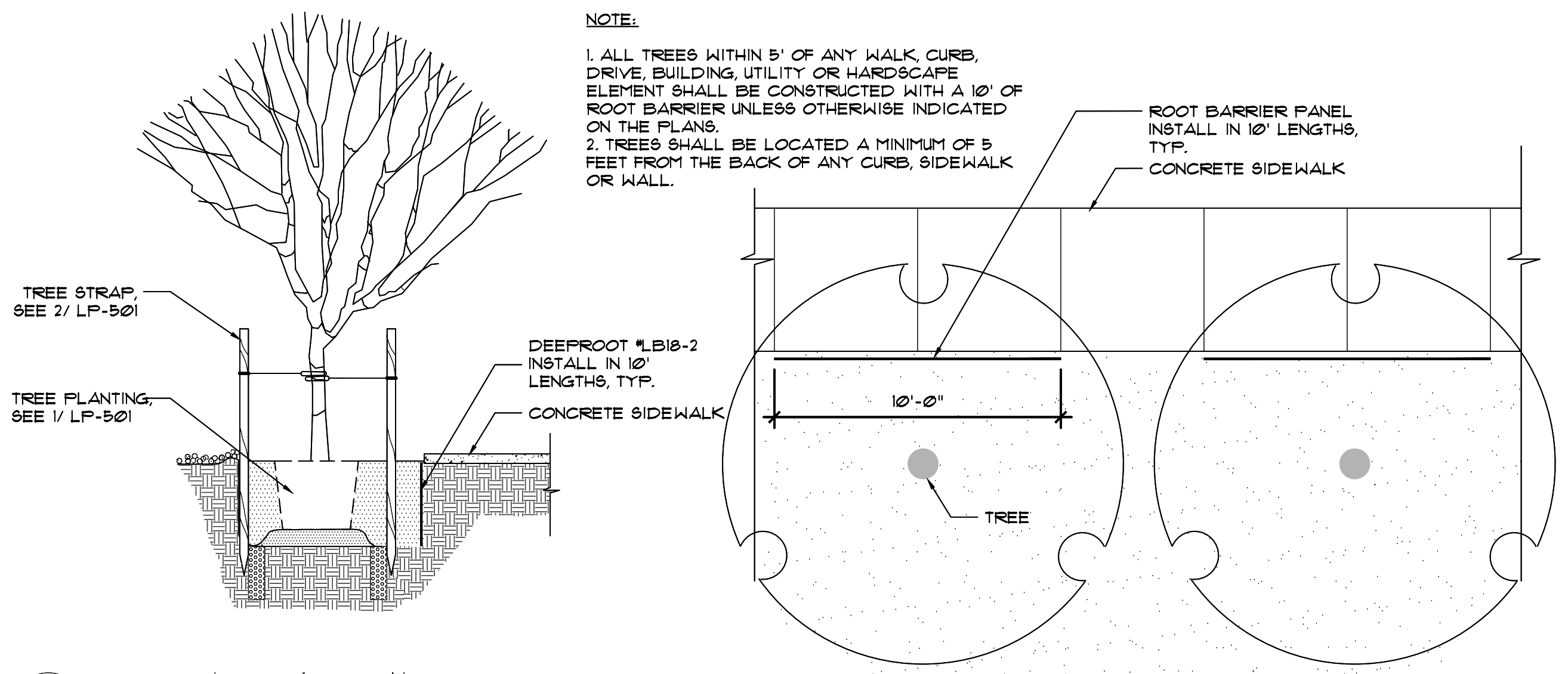
1 TREE PLANTING SCALE: 1/4" = 1'-0"



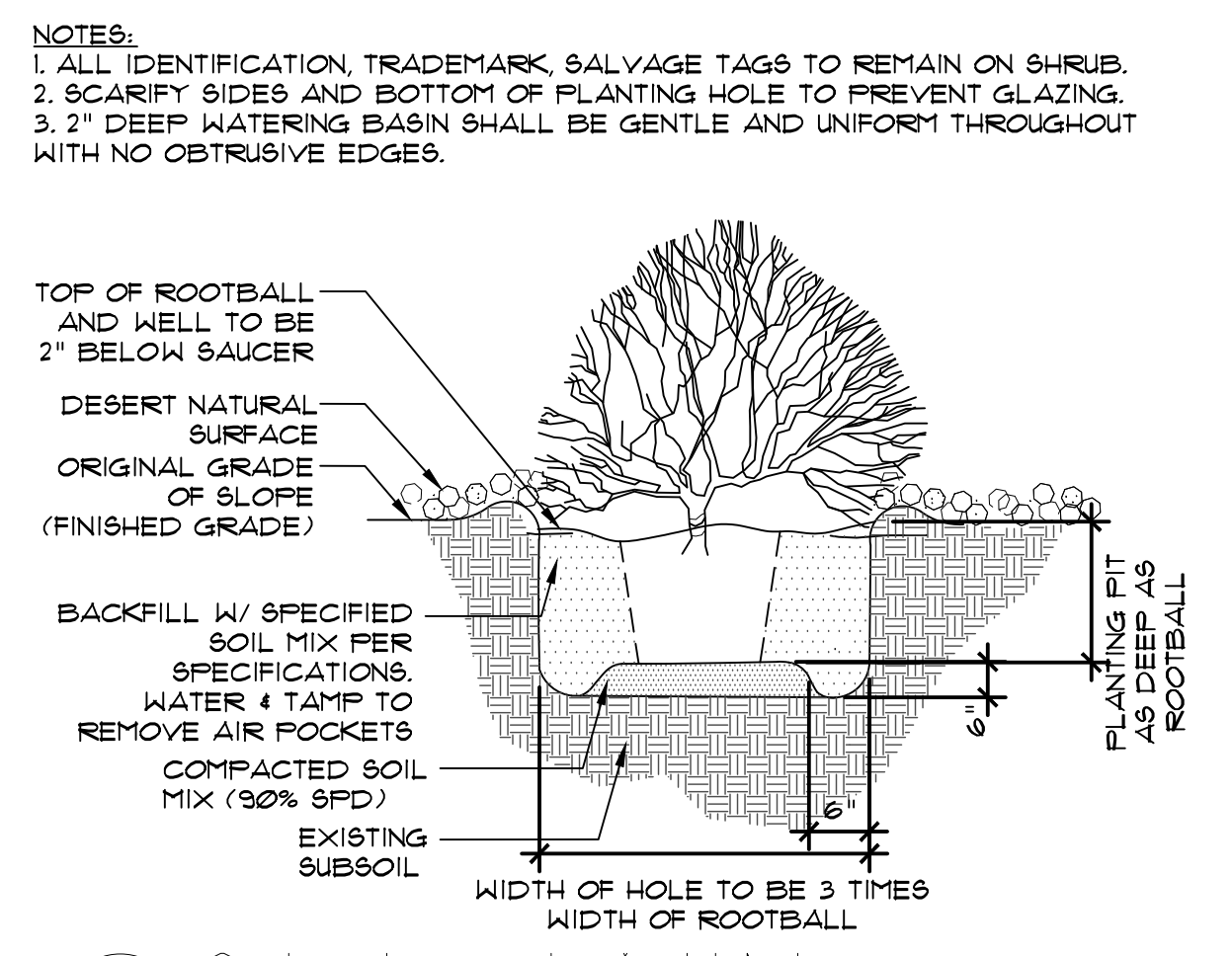
2 TREE PLANTING ON SLOPE SCALE: 1/4" = 1'-0"



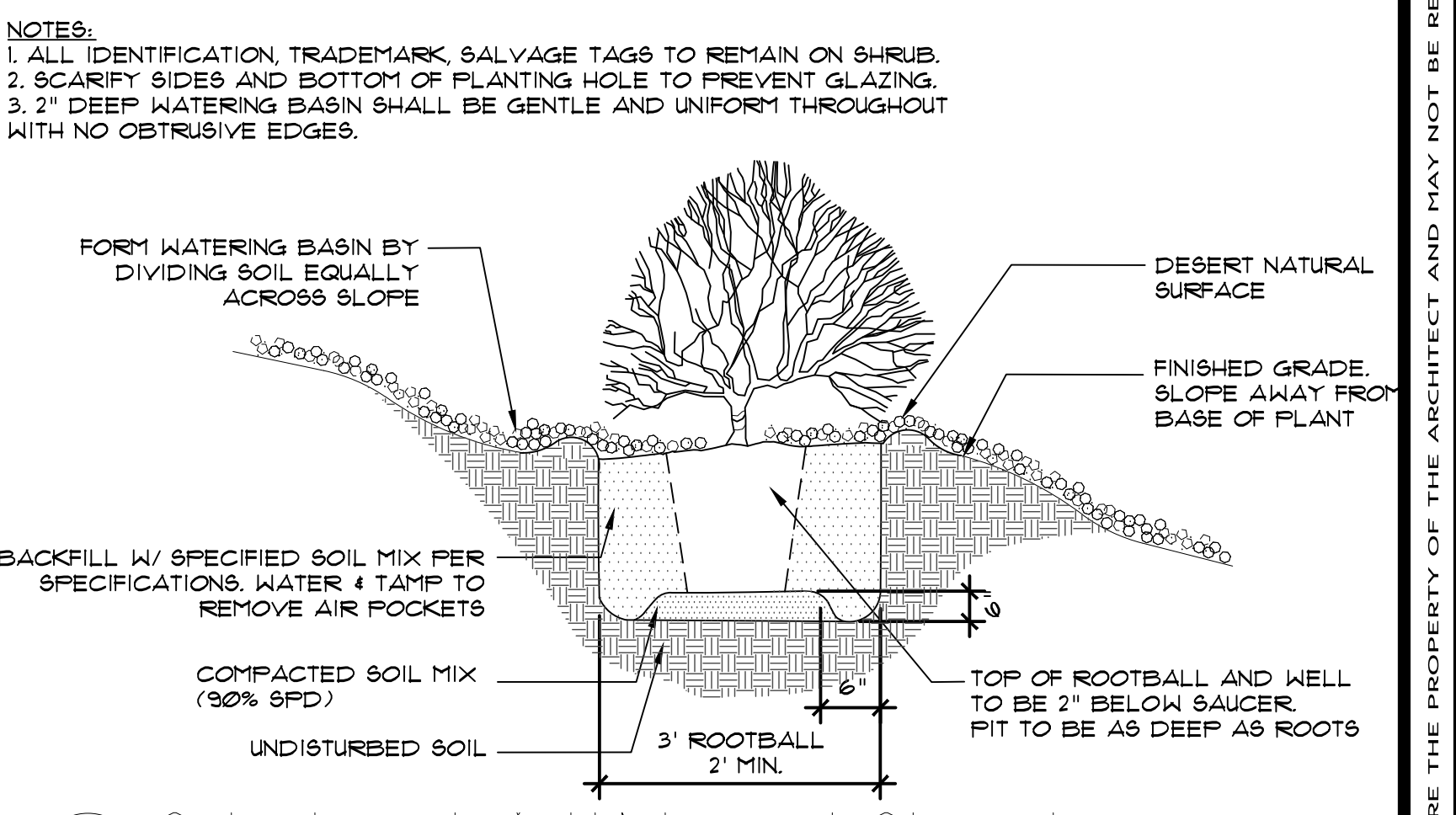
3 TREE STAKING SCALE: 1/4" = 1'-0"



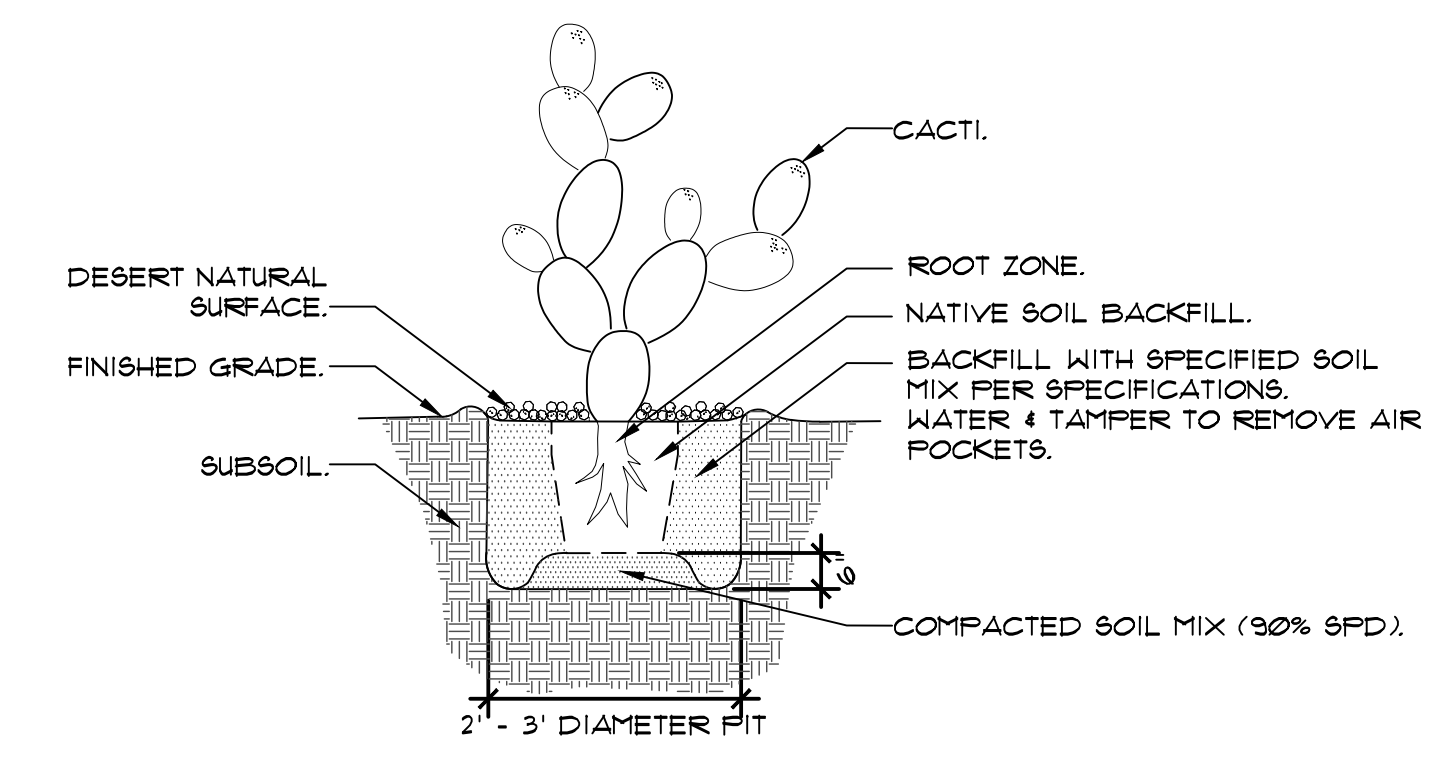
4 ROOT BARRIER SCALE: 1/4" = 1'-0"



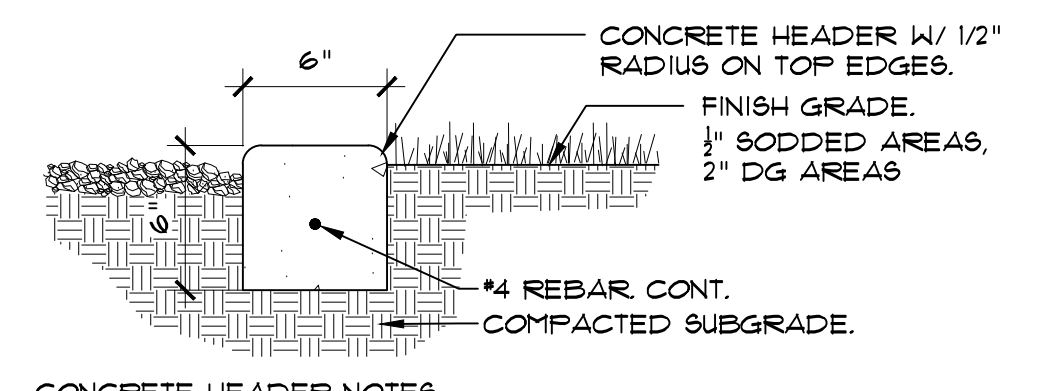
5 SHRUB PLANTING SCALE: 3/8" = 1'-0"



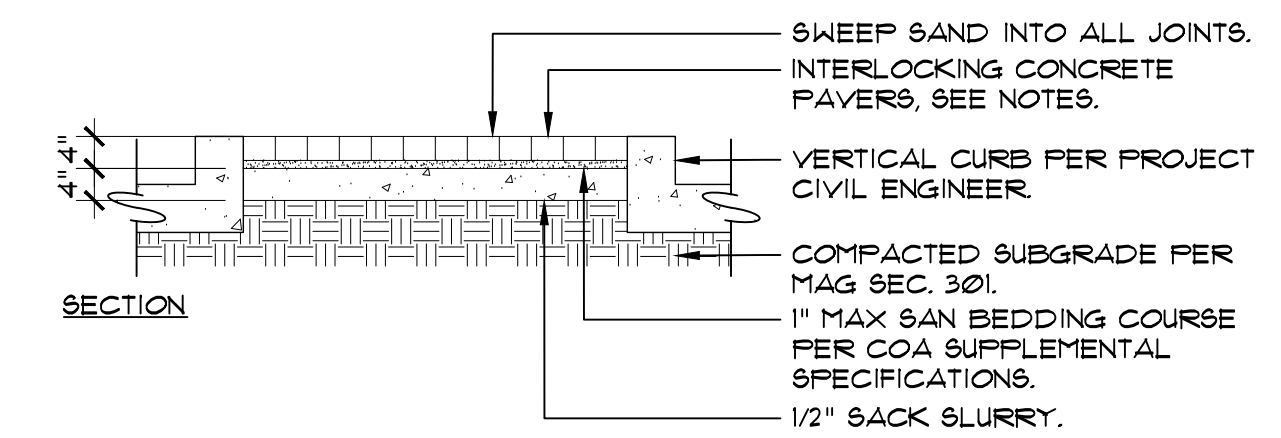
6 SHRUB PLANTING ON SLOPE SCALE: 3/8" = 1'-0"



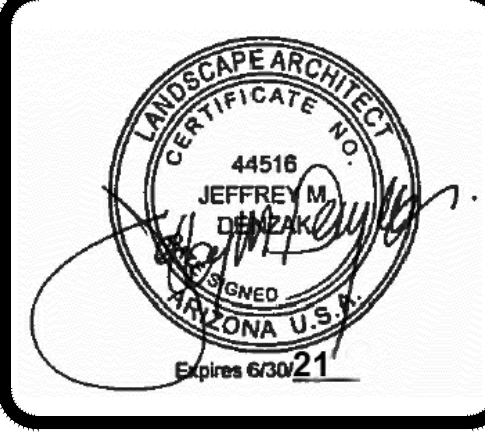
7 CACTUS PLANTING SCALE: 3/8" = 1'-0"



8 CONCRETE HEADER SCALE: 1 1/2" = 1'-0"



9 MEDIAN PAVERS SCALE: 1/2" = 1'-0"



REVISIONS	
NO.	DATE
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2	CITY 2ND. REVIEW - 10/23/18
3	

DRAWN	SY / RP / TH
CHECKED	JD
DATE	10.09.18
SCALE	AS SHOWN
JOB NO.	1704
SHEET	LP-501
14 OF 24 SHEETS	

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IRRIGATION LEGEND

- size** IRRIGATION SLEEVES: SCH. 80 PVC (SIZED ON PLAN)
- MAINLINE PIPE: CLASS 200 PVC
2-INCH SIZE UNLESS OTHERWISE INDICATED
- DRINKING FOUNTAIN SERVICE LINE: TYPE K COPPER LINE (SIZED PER PLAN)
IDENTIFIED WITH BLUE DETECTABLE MARKING TAPE
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO TREE EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SHRUB EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO CACTUS EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION ASSEMBLY
- ☒ WATER METER AND CURB STOP ASSEMBLY (BY OTHERS)
- ☒ BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA (BY OTHERS)
- ☒ MASTER VALVE ASSEMBLY: WEATHERMATIC MAX-DW (SIZED PER POC)
- ☒ FLOW SENSOR ASSEMBLY: WEATHERMATIC SLFSI-T (SIZED PER POC)
- ☒ ISOLATION GATE VALVE ASSEMBLY: MATCO 514
- * QUICK COUPLING VALVE ASSEMBLY: RAINBIRD 5RC
- ☒ REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS
WEATHERMATIC MAX-DW (SIZED PER PLAN)
- ☒ REMOTE CONTROL DRIP VALVE ASSEMBLY: RAINBIRD XCZ-PRB-100-COM
- ☒ FLUSH CAP ASSEMBLY
- INDICATES CONTROLLER AND STATION NUMBER
- A1
14
1"
Turf
— INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION
- ☒ IRRIGATION CONTROLLER UNIT WITH WEATHER STATION AND AIR CARD
CONTROLLER B: WEATHERMATIC VAR 10632 (B)
CONTROLLER C: WEATHERMATIC VAR 10632 (C)
CONTROLLER D: WEATHERMATIC VAR 10632 (D)
- ☒ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP1000 SERIES NOZZLE - ADJUSTABLE RADIUS: 8 TO 14 FEET
PRESSURE: 40PSI FLOW (GPM): M-0.19 L-0.37 O-0.75
- ☒ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP2000 SERIES NOZZLE - ADJUSTABLE RADIUS: 13 TO 21 FEET
PRESSURE: 40PSI FLOW (GPM): K-0.40 G-0.74 R-1.47
- ☒ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP3000 SERIES NOZZLE - ADJUSTABLE RADIUS: 8 TO 14 FEET
PRESSURE: 40PSI FLOW (GPM): B-0.86 Y-1.82 A-3.64
- ☒ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MPCORNER SERIES NOZZLE - ADJUSTABLE RADIUS: 8 TO 14 FEET
PRESSURE: 40PSI FLOW (GPM): 45-0.19 90-0.39 105-0.45
- POP-UP GEAR DRIVEN ROTORS:
HUNTER 1-20-04-SS
PRESSURE: 45 PSI STANDARD NOZZLES
- ③ 1.5 NOZZLE RADIUS: 31' FLOW: 1.5 GPM
- ④ 2.0 NOZZLE RADIUS: 34' FLOW: 2.0 GPM
- ⑤ 2.5 NOZZLE RADIUS: 35' FLOW: 2.5 GPM
- ⑥ 3.0 NOZZLE RADIUS: 38' FLOW: 3.0 GPM
- ⑦ 4.0 NOZZLE RADIUS: 40' FLOW: 4.0 GPM
- ⑧ 5.0 NOZZLE RADIUS: 42' FLOW: 5.0 GPM
- ⑨ 6.0 NOZZLE RADIUS: 43' FLOW: 6.0 GPM
- ⑩ 8.0 NOZZLE RADIUS: 44' FLOW: 8.0 GPM
- CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE
- F IRRIGATION MAIN LINE CAP
INDICATES QUANTITY OF CONTROL WIRES TO BE INSTALLED TO THIS
LOCATION FOR FUTURE SYSTEM EXPANSION
- ☒ IRRIGATION LATERAL LINE CAP: INSTALL IN 6-INCH ROUND VALVE BOX
- ☒ REFERENCE ON SITE IRRIGATION PACKAGE
SHOWN FOR CLARITY ONLY

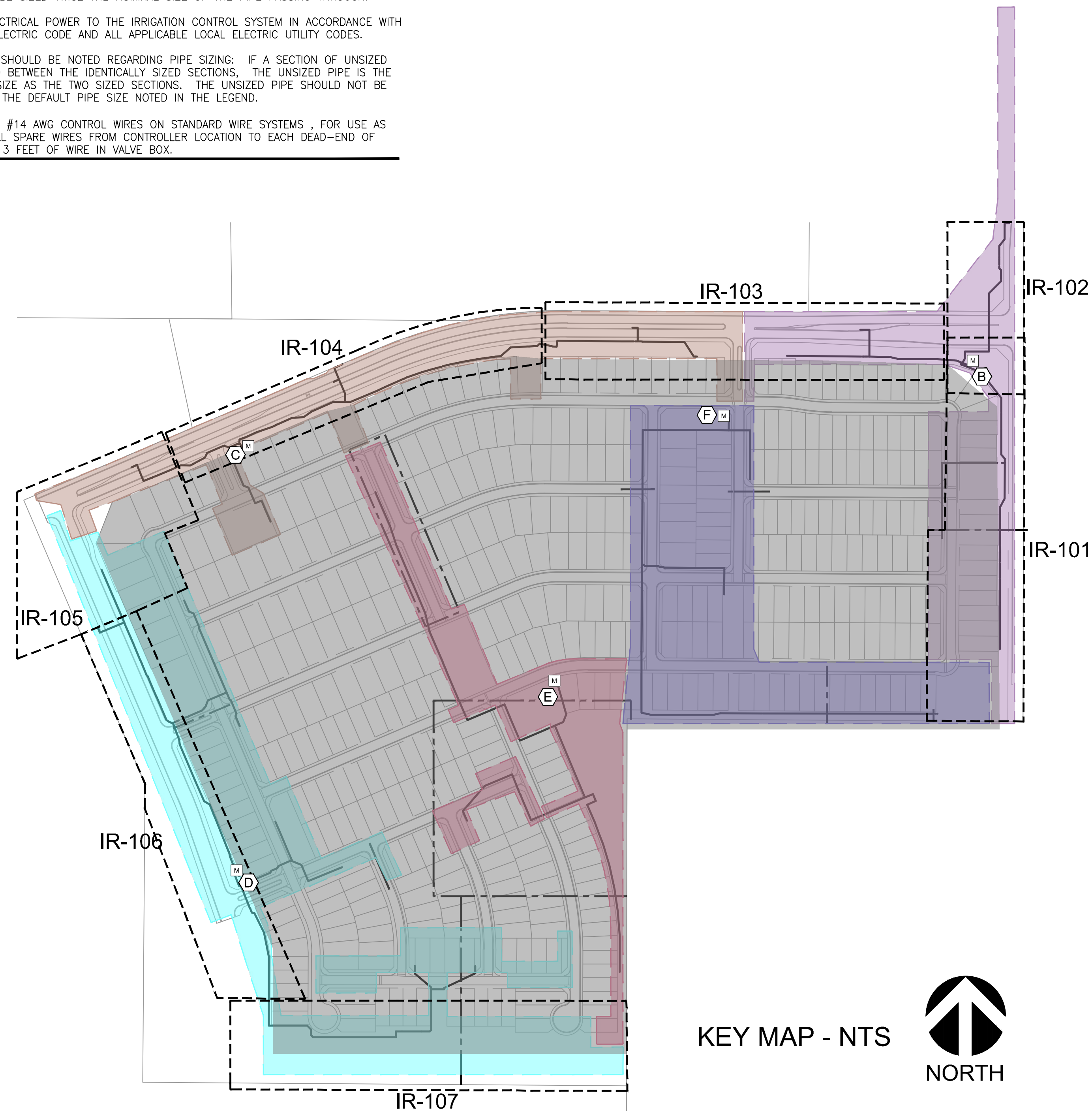
IRRIGATION SERVICE LINE FROM THE POINT OF CONNECTION AT THE CITY'S SYSTEM, THROUGH THE METER AND PUE TO THE PRIVATE BACKFLOW PREVENTION DEVICE SHALL BE TYPE "K" SOFT COPPER TUBING PER AVONDALE SUPPLEMENT TO M.A.G. ALL PVC SLEEVES WITHIN THE CITY'S RIGHT-OF-WAY SHALL BE SCH80.

INSTALLATION GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 75 PSI, AT A MAXIMUM DISCHARGE OF 25 GPM AT THE 1-INCH IRRIGATION POINTS-OF-CONNECTION (POC) AND 50 GPM AT THE 1.5-INCH IRRIGATION POINTS-OF-CONNECTION (POC). METER, BACKFLOW, AND MASTER VALVE SHALL ALL BE THE SAME SIZE. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
 - C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
6. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - A. TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.
 - B. TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.
7. SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.
8. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH.
9. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
10. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
11. INSTALL TWO (2) #14 AWG CONTROL WIRES ON STANDARD WIRE SYSTEMS, FOR USE AS SPARES. INSTALL SPARE WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE. COIL 3 FEET OF WIRE IN VALVE BOX.

INFRASTRUCTURE CONSTRUCTION NOTES

1. THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER. INSTALL BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED, SAME SIZE AS POC. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
2. WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
3. IRRIGATION SHOWN OUT OF LANDSCAPED AREA AND OR WITHIN RESIDENT LOT BOUNDARIES FOR CLARITY ONLY. INSTALL ALL IRRIGATION COMPONENTS WITHIN PUBLIC LANDSCAPED AREAS ONLY. DO NOT INSTALL ANY IRRIGATION COMPONENTS INSIDE OF RESIDENT LOT BOUNDARIES.
4. MAINLINE AND LATERAL LINES ARE SHOWN IN SAME SLEEVE FOR CLARITY ONLY. MAINLINE, CONTROL WIRES, AND LATERAL PIPE SHALL BE INSTALLED IN SEPARATE SLEEVES.
5. THE INFRASTRUCTURE IRRIGATION CONTRACTOR SHALL INSTALL IRRIGATION MAINLINE AND CONTROL WIRES (WIRE QUANTITY AS SHOWN) TO THE LOCATION SHOWN, CAP MAINLINE AND COIL CONTROL WIRES IN 10-INCH ROUND VALVE BOX FOR FUTURE EXTENSION INTO ON SITE IRRIGATION SYSTEM.
6. THE INFRASTRUCTURE IRRIGATION CONTRACTOR SHALL INSTALL SPRINKLER AND OR DRIP LATERAL PIPE(S) TO THE LOCATION SHOWN AND CAP PIPES FOR FUTURE EXTENSION INTO ON SITE IRRIGATION SYSTEM. INSTALL CAPPED LATERAL PIPE IN 6-INCH ROUND VALVE BOX AND INDICATE LATERAL TYPE (SPRINKLER, CACTUS, TREE OR SHRUB) WITH ID TAG.
7. THE IRRIGATION CONTRACTOR SHALL INSTALL A SEPARATE BACKFLOW PREVENTION UNIT ASSEMBLY UPSTREAM OF THE IRRIGATION BACKFLOW PREVENTION UNIT ASSEMBLY FOR SERVICE TO THE DRINKING FOUNTAIN AND ROUTE 3/4-INCH TYPE K COPPER TO THE APPROXIMATE LOCATION SHOWN. INSTALLATION OF ALL PIPING AND EQUIPMENT SHALL BE PERFORMED BY A LICENSED PLUMBER CONFORMING TO THE LOCAL AND STATE PLUMBING CODES.



- ☐ POC B 1.5-INCH @ 50 GPM
- ☐ POC C 1.5-INCH @ 50 GPM
- ☐ POC D 1.5-INCH @ 50 GPM
- ☐ POC E 1.5-INCH @ 50 GPM
- ☐ POC F 1-INCH @ 25 GPM

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 SITE WATER MANAGEMENT SERVICES
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 FORT COLLINS, CO 80504
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 Web: www.hinesinc.com

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1-800-STAKE-IT
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NO.	DATE
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FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION LEGEND AND NOTES

DRAWN	SH/MR
CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-100
14 OF 24 SHEETS	

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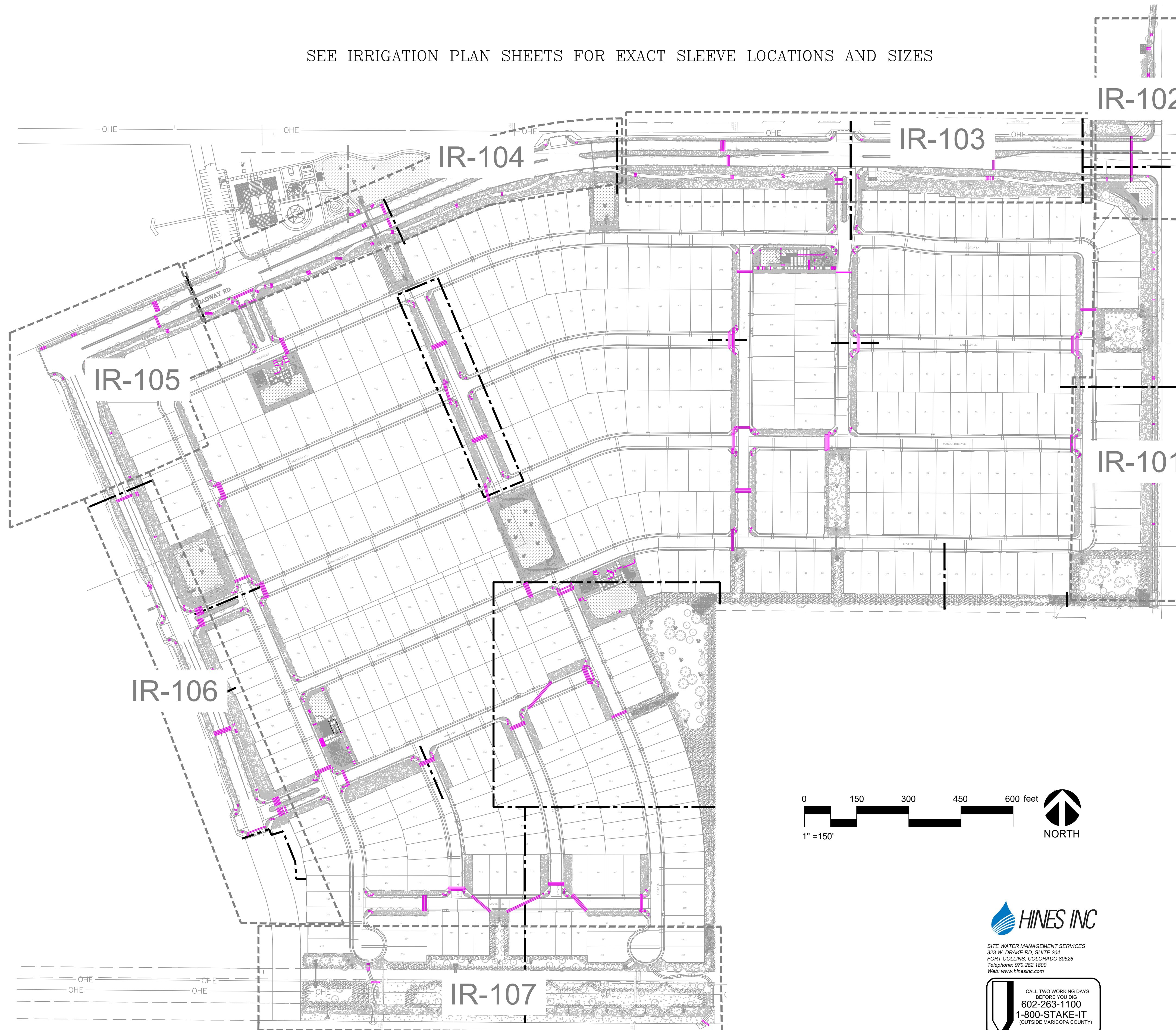
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size IRRIGATION SLEEVES: SCH. 80 PVC (SIZED ON PLAN)

SEE IRRIGATION PLAN SHEETS FOR EXACT SLEEVE LOCATIONS AND SIZES



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REVISIONS	
NO.	DATE
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 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA
 FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION SLEEVING OVERVIEW

DRAWN	SH/MR
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DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-100A
15 OF 24 SHEETS	

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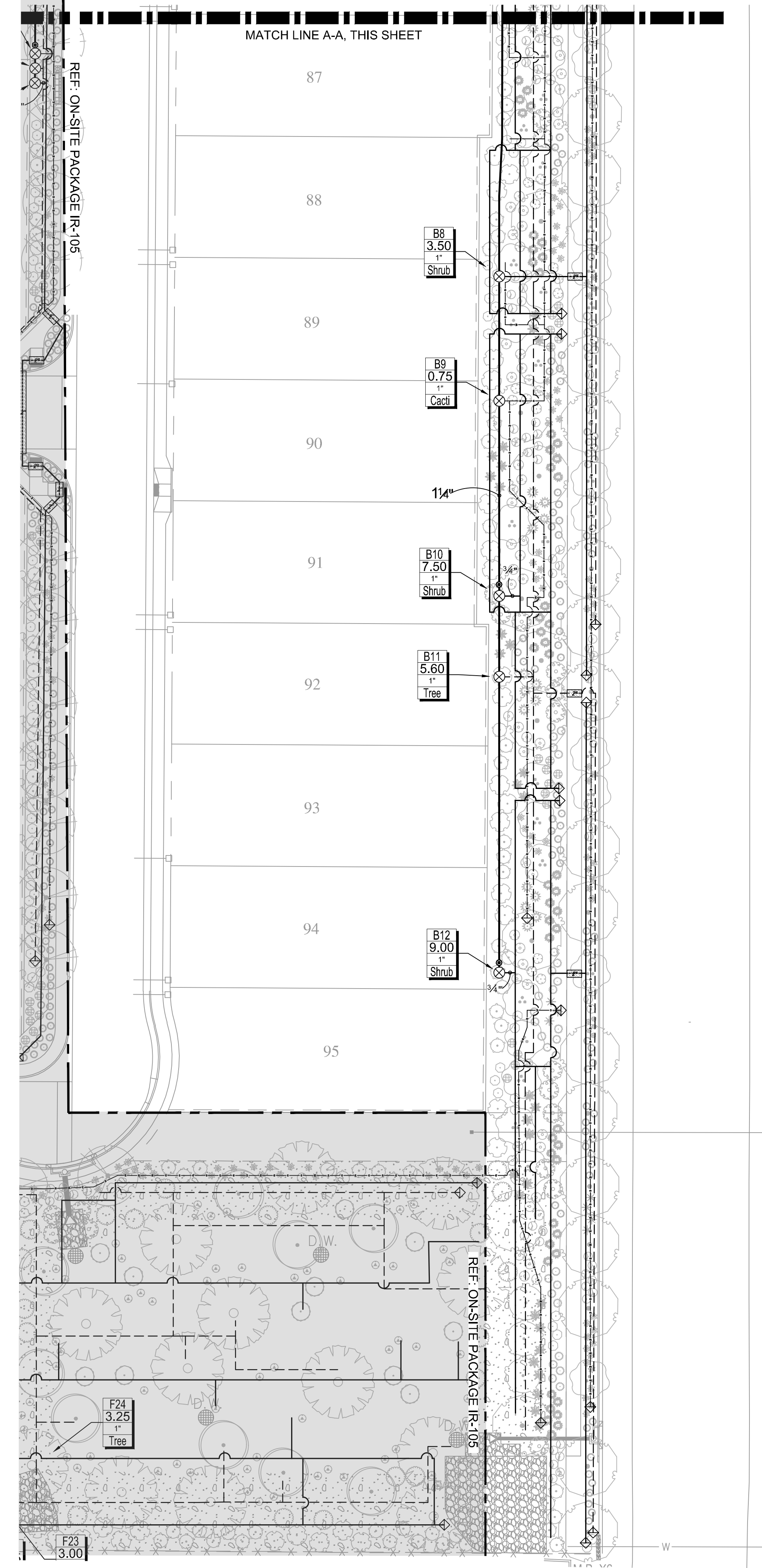
ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA

FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION PLAN

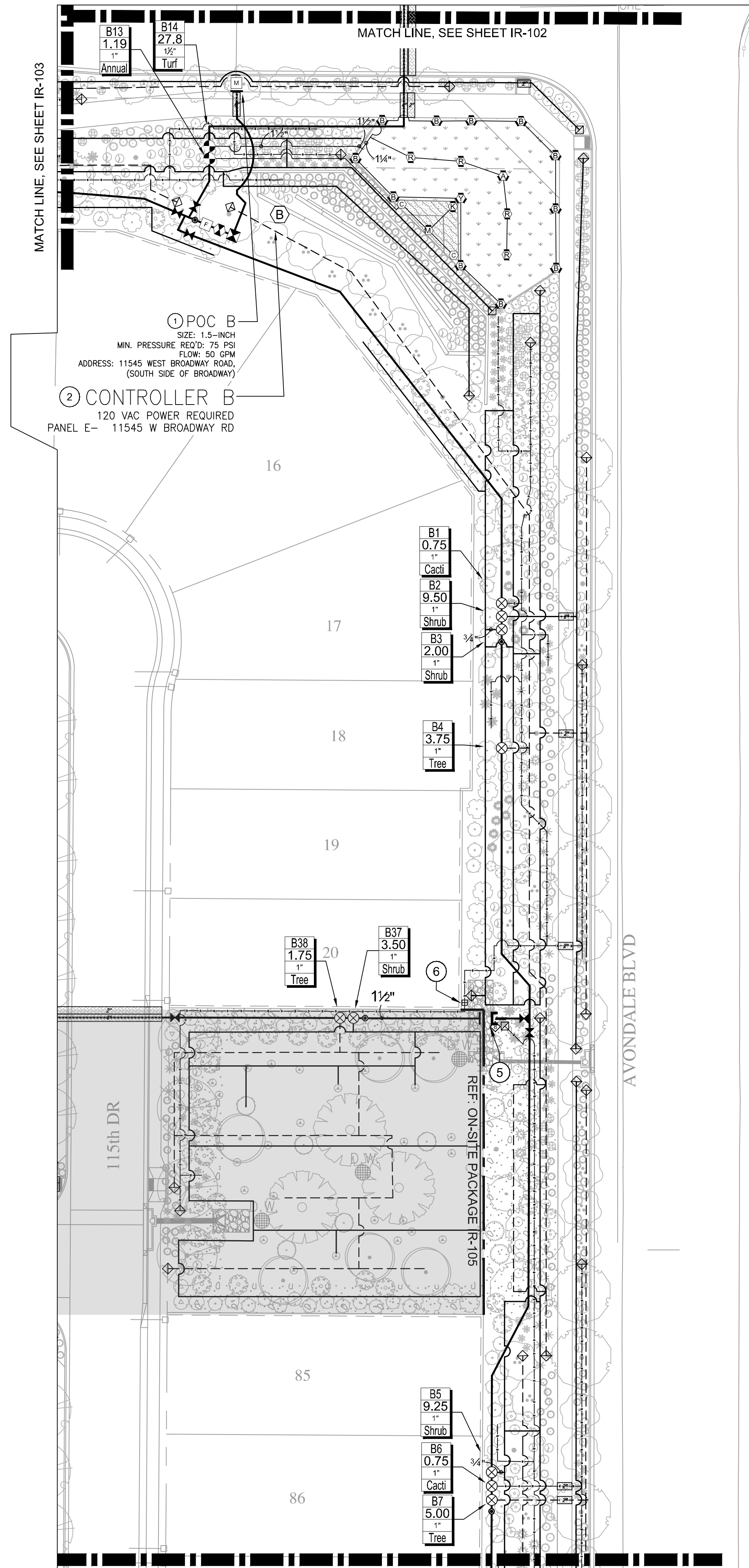
DRAWN	SH/MR
CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-101
16 OF 24 SHEETS	

IRRIGATION LEGEND

- IRRIGATION SLEEVES: SCH. 80 PVC (SIZED ON PLAN)
- MAINLINE PIPE: CLASS 200 PVC
2-INCH SIZE UNLESS OTHERWISE INDICATED
- - - DRINKING FOUNTAIN SERVICE LINE: TYPE K COPPER LINE (SIZED PER PLAN)
IDENTIFIED WITH BLUE DETECTABLE MARKING TAPE
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH UNLESS OTHERWISE INDICATED
- - - LATERAL PIPE TO TREE EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SHRUB EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- - - LATERAL PIPE TO CACTUS EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- ⊥ UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION ASSEMBLY
- ⊠ WATER METER AND CURB STOP ASSEMBLY (BY OTHERS)
- ⊠ BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA (BY OTHERS)
- ⊠ MASTER VALVE ASSEMBLY: WEATHERMATIC MAX-DW (SIZED PER POC)
- ⊠ FLOW SENSOR ASSEMBLY: WEATHERMATIC SLFSI-T (SIZED PER POC)
- ⊠ ISOLATION GATE VALVE ASSEMBLY: MATCO 514
- QUICK COUPLING VALVE ASSEMBLY: RAINBIRD 5RC
- ⊠ REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS
WEATHERMATIC MAX-DW (SIZED PER PLAN)
- ⊠ REMOTE CONTROL DRIP VALVE ASSEMBLY: RAINBIRD XCZ-PRB-100-COM
- ⊠ FLUSH CAP ASSEMBLY
- ⊠ INDICATES CONTROLLER AND STATION NUMBER
- ⊠ INDICATES LATERAL DISCHARGE (GPM)
- ⊠ INDICATES VALVE SIZE (INCHES)
- ⊠ INDICATES LANDSCAPE APPLICATION
- ⊠ IRRIGATION CONTROLLER UNIT WITH WEATHER STATION AND AIR CARD
CONTROLLER B: WEATHERMATIC VAR 10632 (B)
CONTROLLER C: WEATHERMATIC VAR 10632 (C)
CONTROLLER D: WEATHERMATIC VAR 10632 (D)
- ⊠ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP1000 SERIES NOZZLE - ADJUSTABLE RADIUS: 8 TO 14 FEET
PRESSURE: 40PSI FLOW (GPM): M-0.19 L-0.37 O-0.75
- ⊠ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
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PRESSURE: 40PSI FLOW (GPM): K-0.40 G-0.74 R-1.47
- ⊠ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP3000 SERIES NOZZLE - ADJUSTABLE RADIUS: 20 TO 30 FEET
PRESSURE: 40PSI FLOW (GPM): B-0.86 Y-1.82 A-3.64
- ⊠ POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MPCORNER SERIES NOZZLE - ADJUSTABLE RADIUS: 8 TO 14 FEET
PRESSURE: 40PSI FLOW (GPM): 45°-0.19 90°-0.39 105°-0.45
- POP-UP GEAR DRIVEN ROTORS:
HUNTER I-20-04-SS
PRESSURE: 45 PSI STANDARD NOZZLES
- ⊠ 1.5 NOZZLE RADIUS: 31' FLOW: 1.5 GPM
- ⊠ 2.0 NOZZLE RADIUS: 34' FLOW: 2.0 GPM
- ⊠ 2.5 NOZZLE RADIUS: 35' FLOW: 2.5 GPM
- ⊠ 3.0 NOZZLE RADIUS: 38' FLOW: 3.0 GPM
- ⊠ 4.0 NOZZLE RADIUS: 40' FLOW: 4.0 GPM
- ⊠ 5.0 NOZZLE RADIUS: 42' FLOW: 5.0 GPM
- ⊠ 6.0 NOZZLE RADIUS: 43' FLOW: 6.0 GPM
- ⊠ 8.0 NOZZLE RADIUS: 44' FLOW: 8.0 GPM
- CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE
- ⊠ IRRIGATION MAIN LINE CAP
INDICATES QUANTITY OF CONTROL WIRES TO BE INSTALLED TO THIS
LOCATION FOR FUTURE SYSTEM EXPANSION
- ⊠ IRRIGATION LATERAL LINE CAP: INSTALL IN 6-INCH ROUND VALVE BOX
- ⊠ REFERENCE ON SITE IRRIGATION PACKAGE
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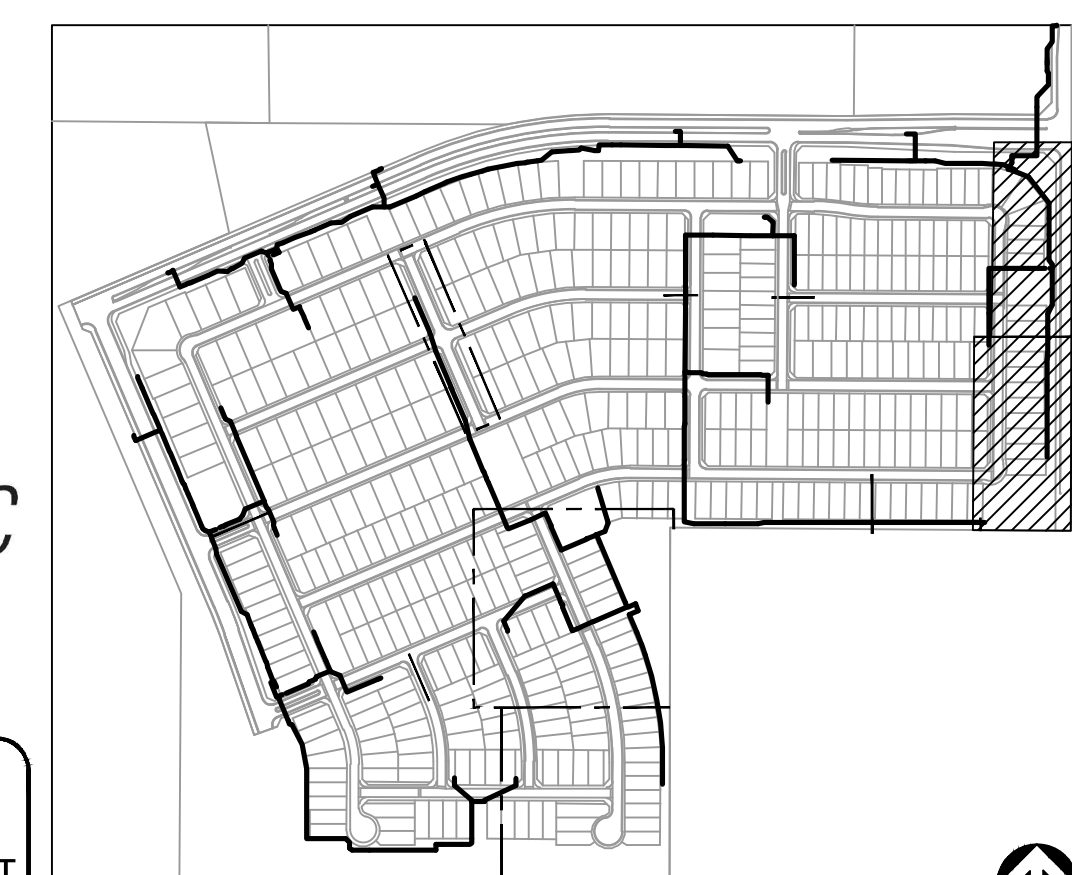
A1 IRRIGATION PLAN
 SCALE: 1"=30'-0"



A2 IRRIGATION PLAN
 SCALE: 1"=30'-0"
 1"=30'

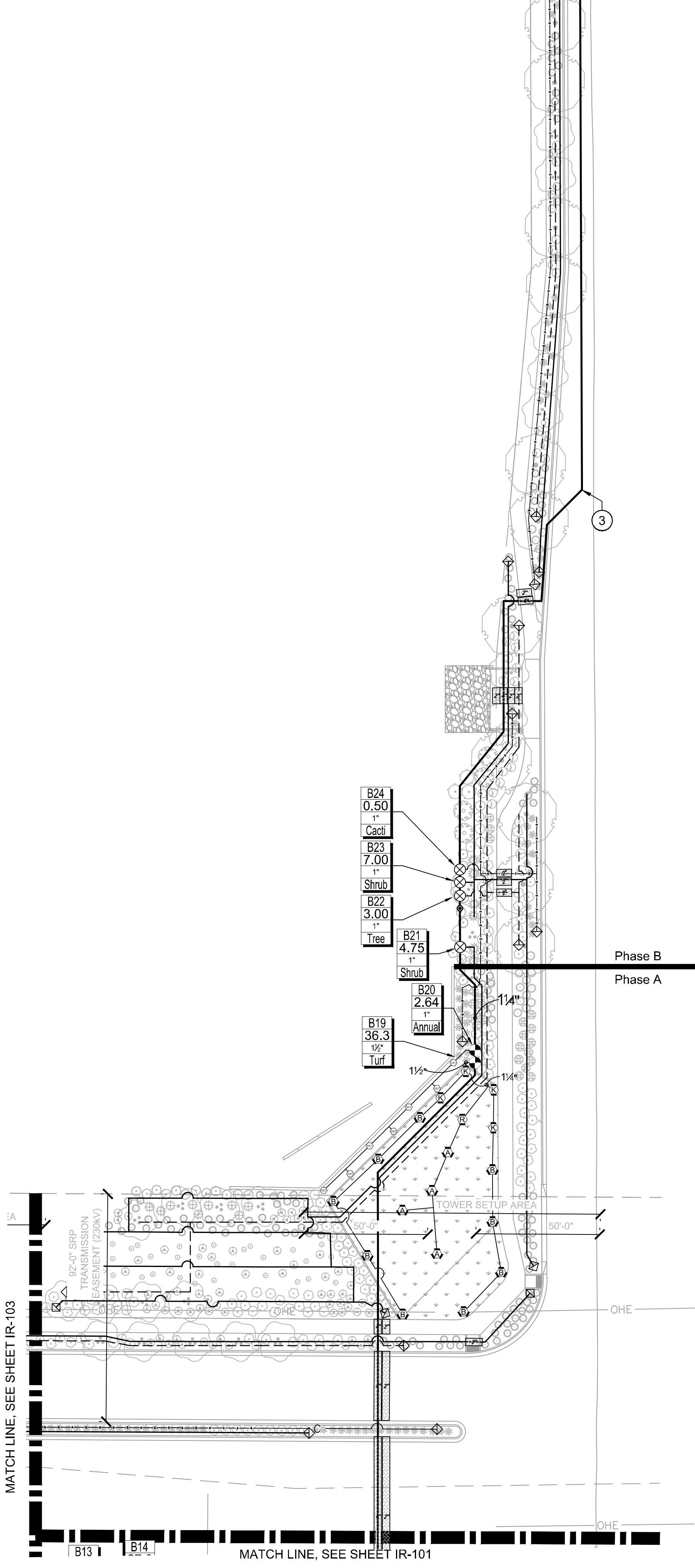
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 SITE WATER MANAGEMENT SERVICES
 323 W. DRANE RD, SUITE 204
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 Web: www.hinesinc.com

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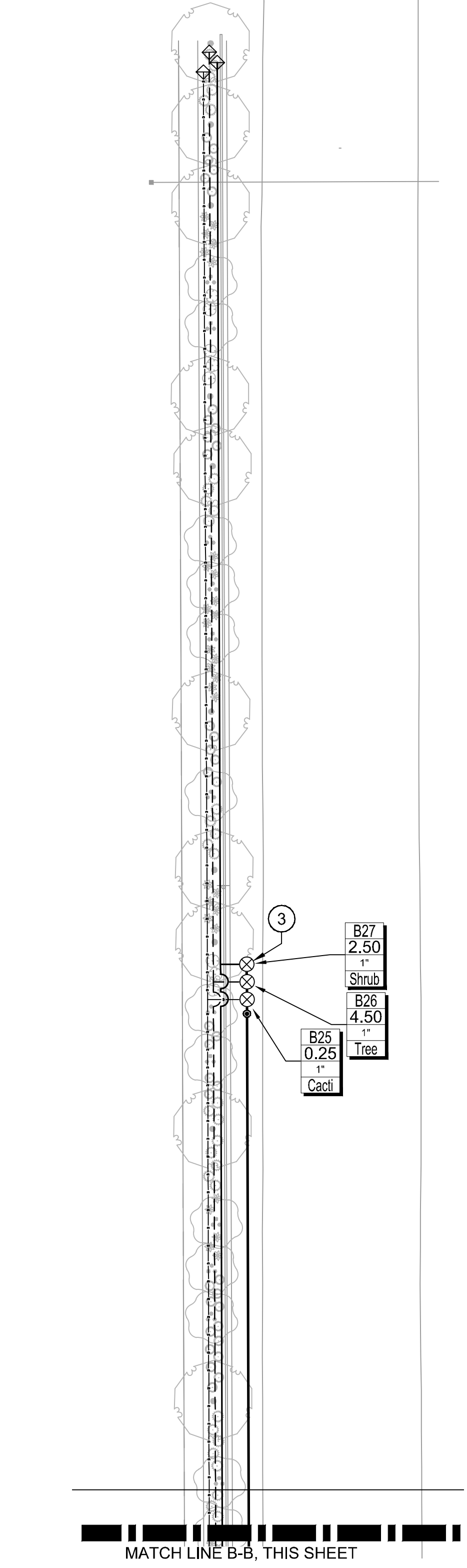


ENG-18-0215

MATCH LINE B-B, THIS SHEET



A3 IRRIGATION PLAN
SCALE: 1"=30'-0"



A4 IRRIGATION PLAN
SCALE: 1"=30'-0"

INFRASTRUCTURE CONSTRUCTION NOTES

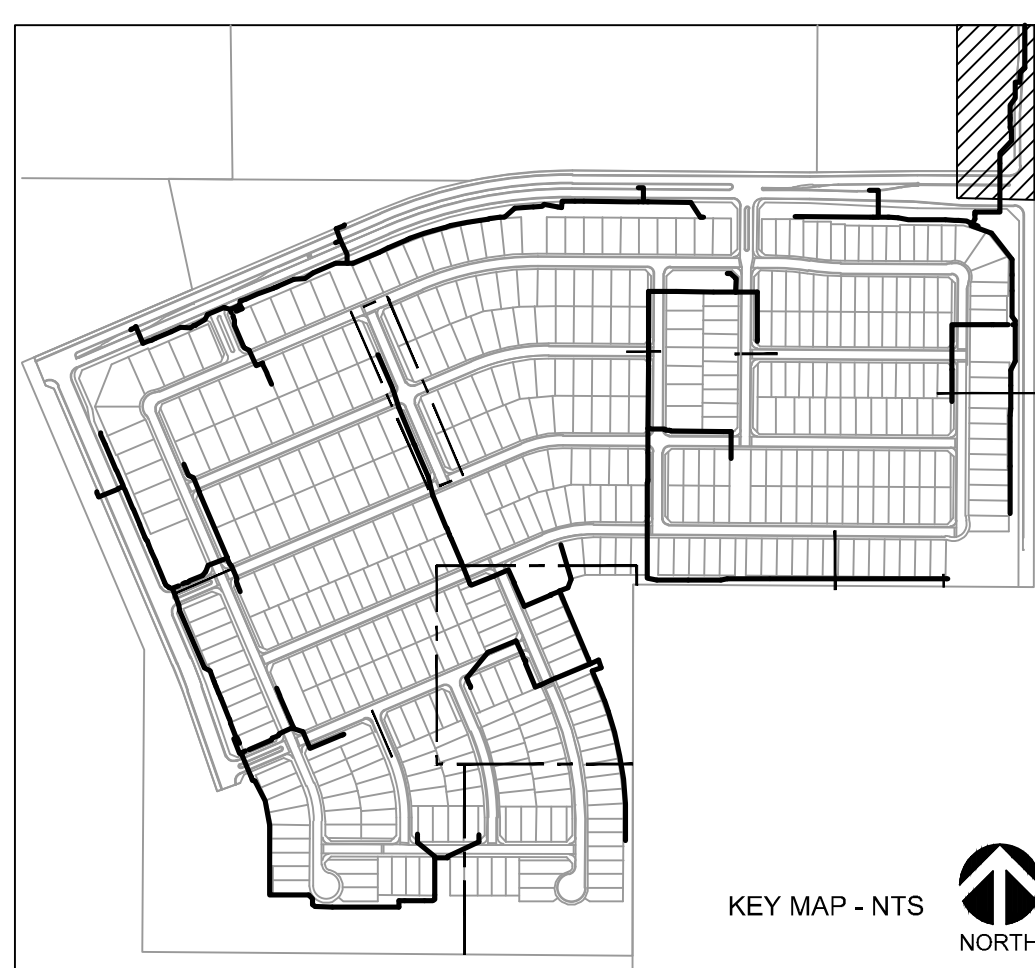
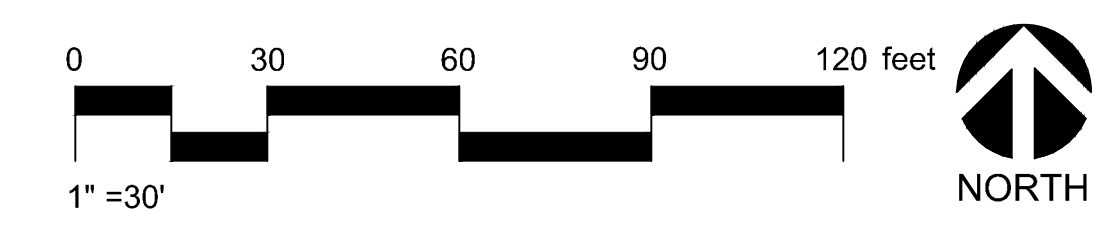
- 1 THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED, SAME SIZE AS POC. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- 2 WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- 3 IRRIGATION SHOWN OUT OF LANDSCAPED AREA AND OR WITHIN RESIDENT LOT BOUNDARIES FOR CLARITY ONLY. INSTALL ALL IRRIGATION COMPONENTS WITHIN PUBLIC LANDSCAPED AREAS ONLY. DO NOT INSTALL ANY IRRIGATION COMPONENTS INSIDE OF RESIDENT LOT BOUNDARIES.
- 4 MAINLINE AND LATERAL LINES ARE SHOWN IN SAME SLEEVE FOR CLARITY ONLY. MAINLINE, CONTROL WIRES, AND LATERAL PIPE SHALL BE INSTALLED IN SEPARATE SLEEVES.
- 5 THE INFRASTRUCTURE IRRIGATION CONTRACTOR SHALL INSTALL IRRIGATION MAINLINE AND CONTROL WIRES (WIRE QUANTITY AS SHOWN) TO THE LOCATION SHOWN, CAP MAINLINE AND COIL CONTROL WIRES IN 10-INCH ROUND VALVE BOX FOR FUTURE EXTENSION INTO ON SITE IRRIGATION SYSTEM.
- 6 THE INFRASTRUCTURE IRRIGATION CONTRACTOR SHALL INSTALL SPRINKLER AND OR DRIP LATERAL PIPE(S) TO THE LOCATION SHOWN AND CAP PIPES FOR FUTURE EXTENSION INTO ON SITE IRRIGATION SYSTEM. INSTALL CAPPED LATERAL PIPE IN 6-INCH ROUND VALVE BOX AND INDICATE LATERAL TYPE (SPRINKLER, CACTUS, TREE OR SHRUB) WITH ID TAG.
- 7 THE IRRIGATION CONTRACTOR SHALL INSTALL A SEPARATE BACKFLOW PREVENTION UNIT ASSEMBLY UPSTREAM OF THE IRRIGATION BACKFLOW PREVENTION UNIT ASSEMBLY FOR SERVICE TO THE DRINKING FOUNTAIN AND ROUTE 3/4-INCH TYPE K COPPER TO THE APPROXIMATE LOCATION SHOWN. INSTALLATION OF ALL PIPING AND EQUIPMENT SHALL BE PERFORMED BY A LICENSED PLUMBER CONFORMING TO THE LOCAL AND STATE PLUMBING CODES.

IRRIGATION LEGEND

- IRRIGATION SLEEVES: SCH. 80 PVC (SIZED ON PLAN)
- MAINLINE PIPE: CLASS 200 PVC 2-INCH SIZE UNLESS OTHERWISE INDICATED
- DRINKING FOUNTAIN SERVICE LINE: TYPE K COPPER LINE (SIZED PER PLAN) IDENTIFIED WITH BLUE DETECTABLE MARKING TAPE
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC 1-INCH UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO TREE EMITTERS: CLASS 315 PVC 1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SHRUB EMITTERS: CLASS 315 PVC 1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO CACTUS EMITTERS: CLASS 315 PVC 1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION ASSEMBLY
- WATER METER AND CURB STOP ASSEMBLY (BY OTHERS)
- BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA (BY OTHERS)
- MASTER VALVE ASSEMBLY: WEATHERMATIC MAX-DW (SIZED PER POC)
- FLOW SENSOR ASSEMBLY: WEATHERMATIC SLFSI-T (SIZED PER POC)
- ISOLATION GATE VALVE ASSEMBLY: MATCO 514
- QUICK COUPLING VALVE ASSEMBLY: RAINBIRD 5RC
- REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS WEATHERMATIC MAX-DW (SIZED PER PLAN)
- REMOTE CONTROL DRIP VALVE ASSEMBLY: RAINBIRD XCZ-PRB-100-COM
- FLUSH CAP ASSEMBLY
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION
- IRRIGATION CONTROLLER UNIT WITH WEATHER STATION AND AIR CARD
CONTROLLER B: WEATHERMATIC VAR 10632 (B)
CONTROLLER C: WEATHERMATIC VAR 10632 (C)
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CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA

FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
IRRIGATION PLAN

DRAWN	SH/MR
CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-102
17 OF 24 SHEETS	

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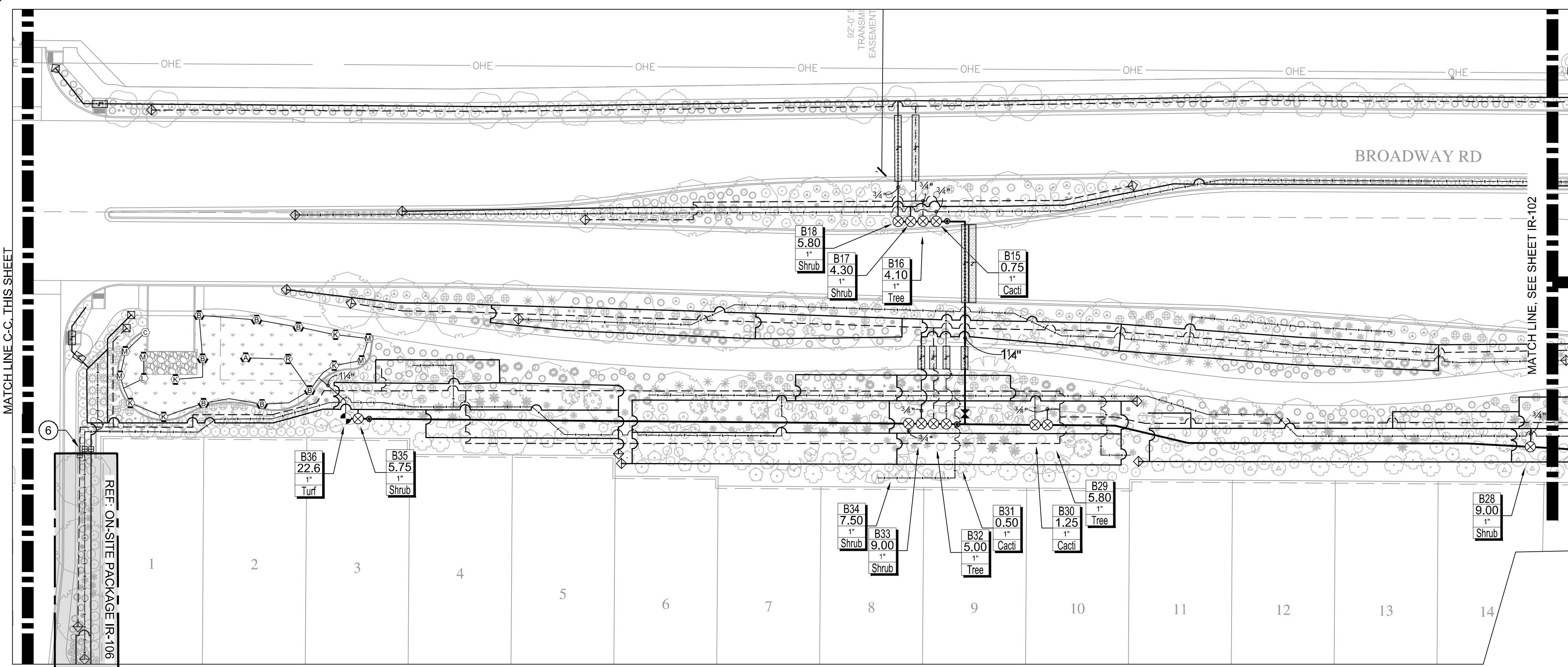
ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA

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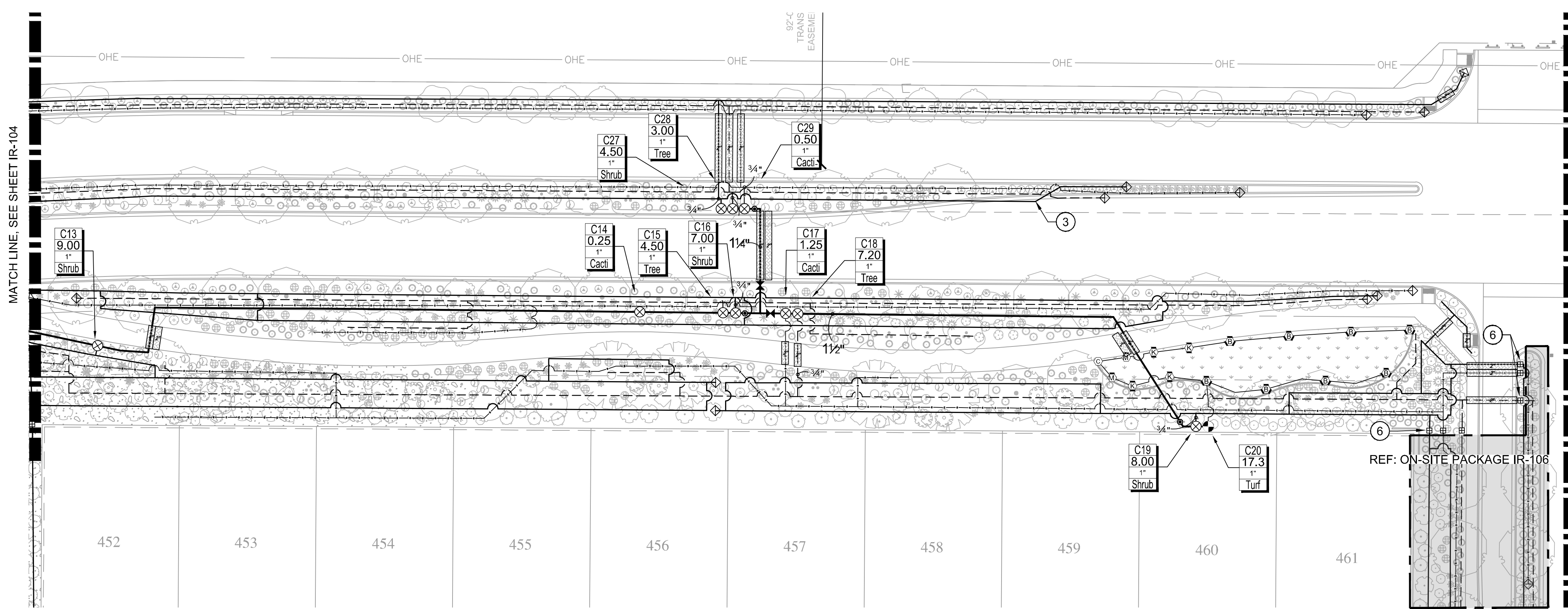
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DATE	01.18.19
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JOB NO.	1704
SHEET	IR-103
18 OF 24 SHEETS	

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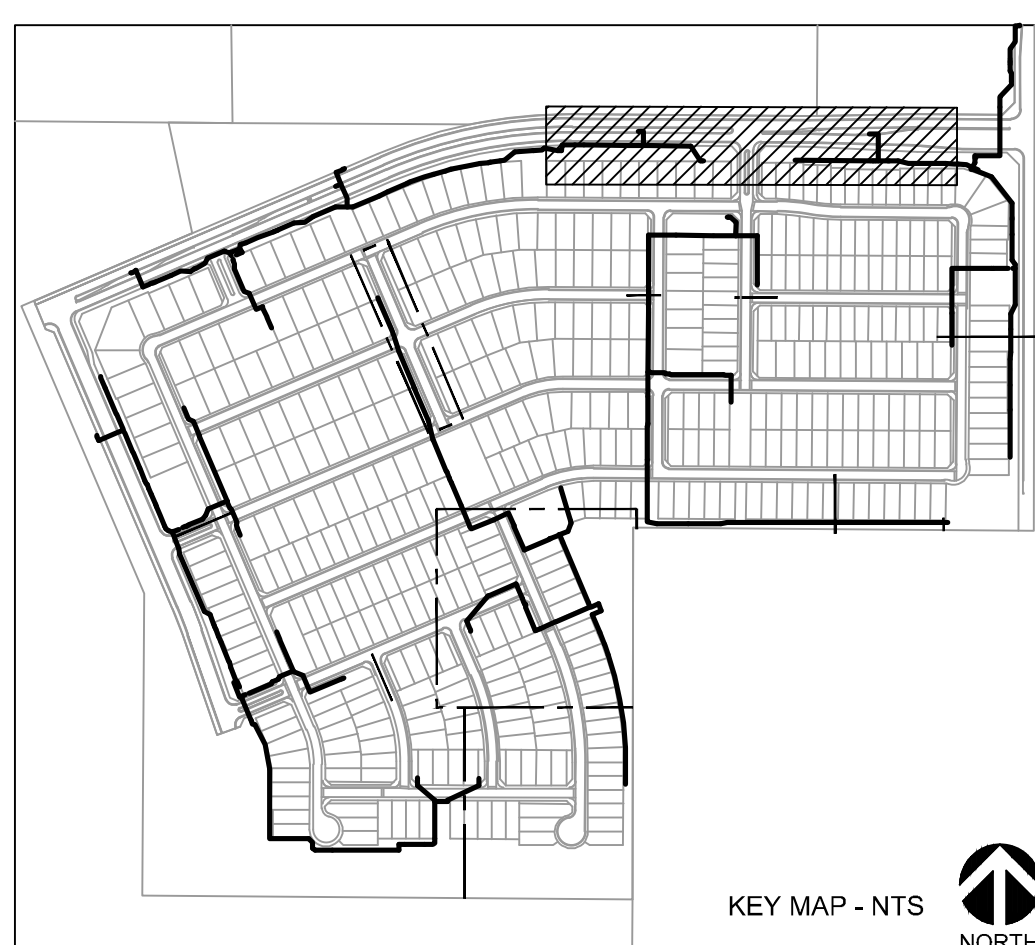
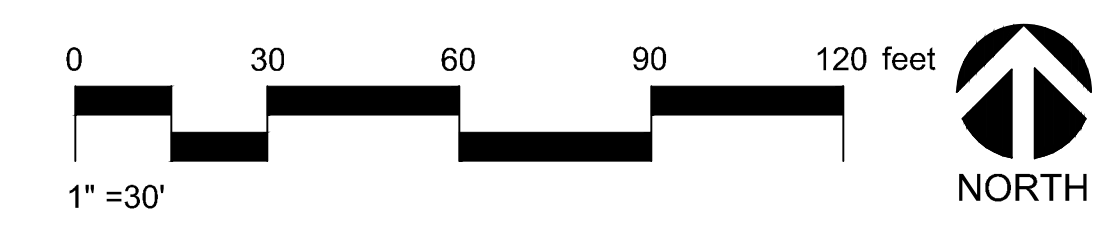
A5 IRRIGATION PLAN
 SCALE: 1"=30'-0"



A6 IRRIGATION PLAN
 SCALE: 1"=30'-0"

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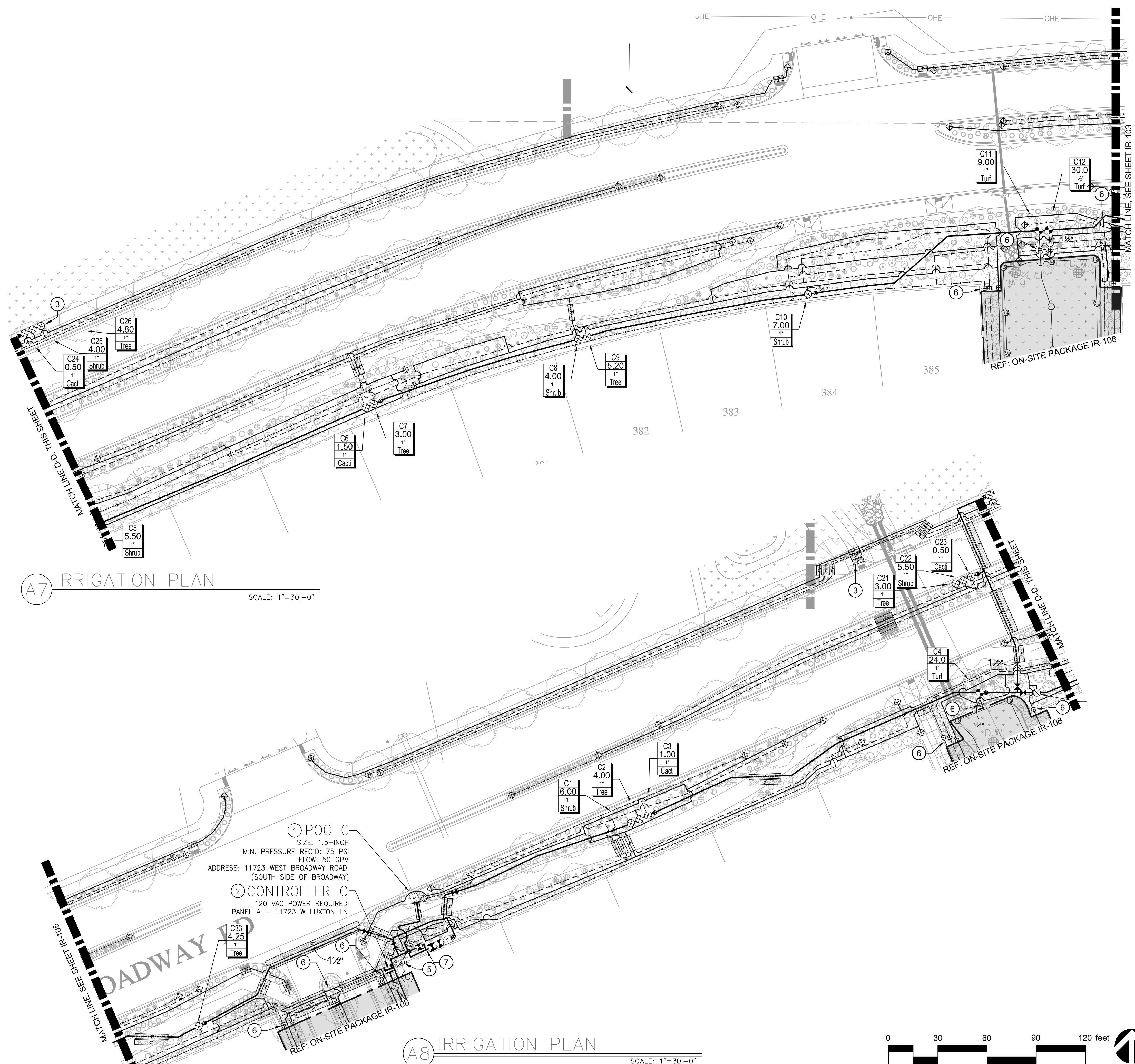
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 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA

FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION PLAN

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DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-104
19 OF 24 SHEETS	

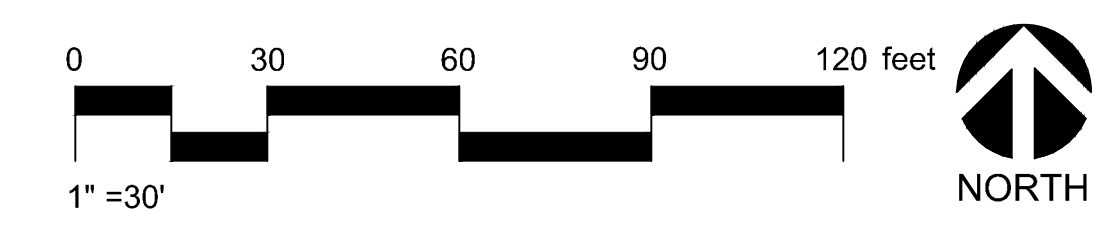
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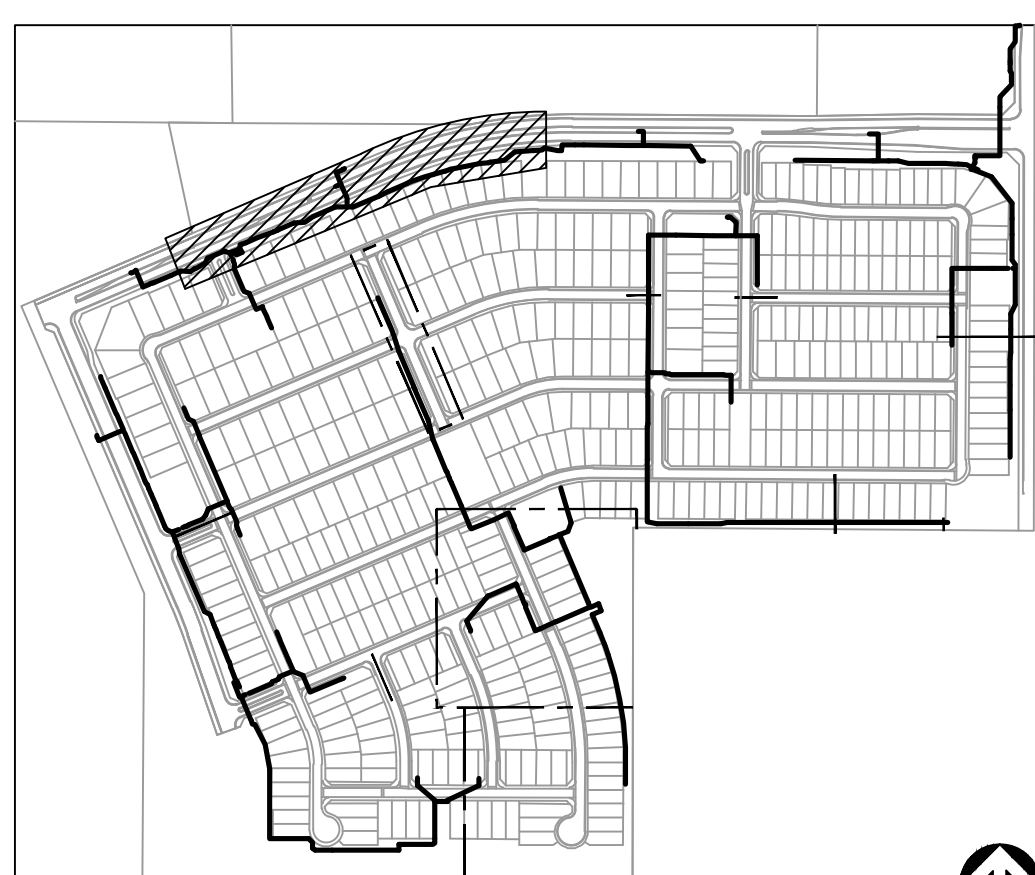
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A8 IRRIGATION PLAN
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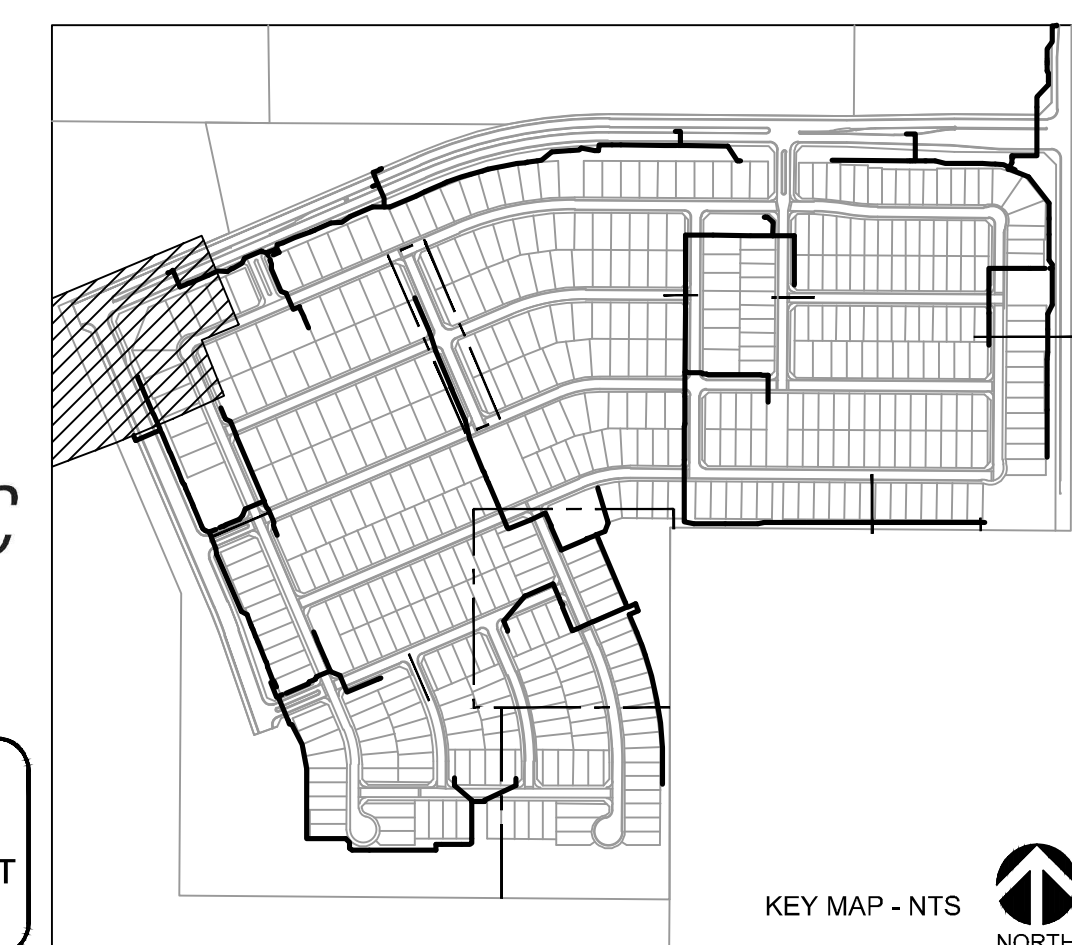
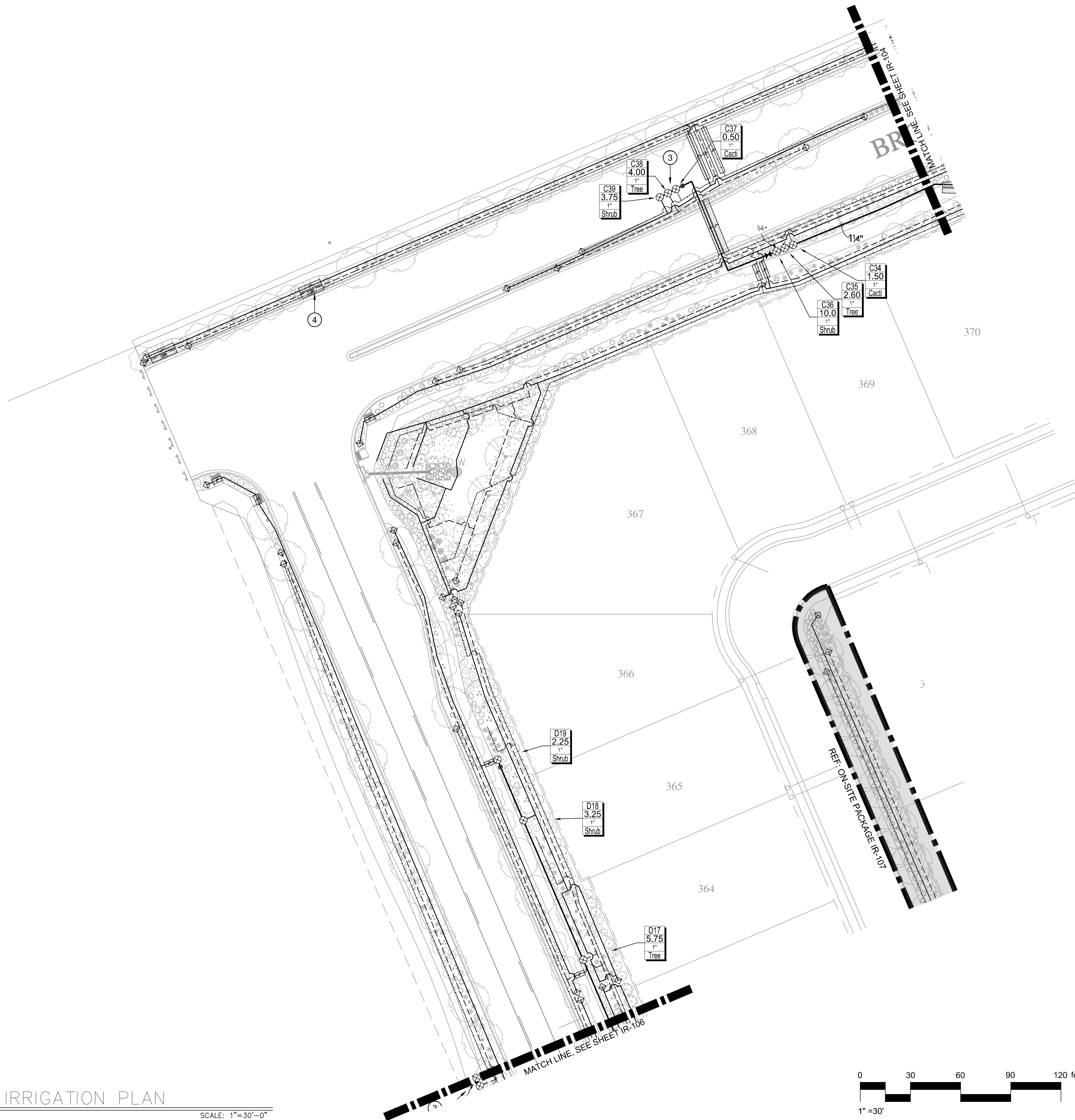
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FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION PLAN

DRAWN	SH/MR
CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-105
20 OF 24 SHEETS	

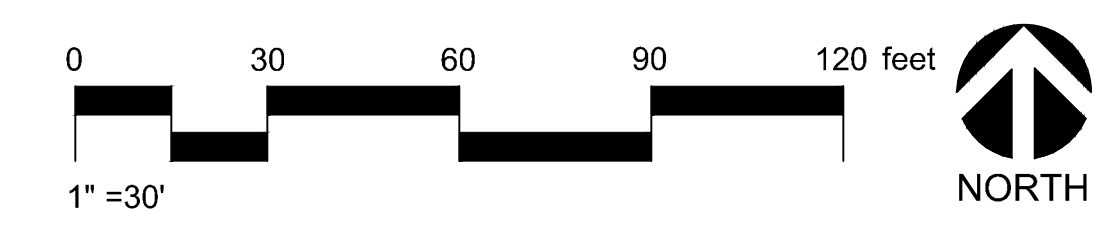
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CONTROLLER D: WEATHERMATIC VAR 10632 (D)
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP1000 SERIES NOZZLE - ADJUSTABLE RADIUS: 8 TO 14 FEET
PRESSURE: 40PSI FLOW (GPM): M-0.19 L-0.37 O-0.75
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP2000 SERIES NOZZLE - ADJUSTABLE RADIUS: 13 TO 21 FEET
PRESSURE: 40PSI FLOW (GPM): K-0.40 G-0.74 R-1.47
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MP3000 SERIES NOZZLE - ADJUSTABLE RADIUS: 20 TO 30 FEET
PRESSURE: 40PSI FLOW (GPM): B-0.86 Y-1.82 A-3.64
- POP-UP ROTATING SPRAY SPRINKLER: WEATHERMATIC MAX4PRS40-CV W/
HUNTER MPCORNER SERIES NOZZLE - ADJUSTABLE RADIUS: 8 TO 14 FEET
PRESSURE: 40PSI FLOW (GPM): 45-0.19 90-0.39 105-0.45
- POP-UP GEAR DRIVEN ROTORS:
HUNTER I-20-D4-SS
PRESSURE: 45 PSI STANDARD NOZZLES
- 1.5 NOZZLE RADIUS: 31' FLOW: 1.5 GPM
- 2.0 NOZZLE RADIUS: 34' FLOW: 2.0 GPM
- 2.5 NOZZLE RADIUS: 35' FLOW: 2.5 GPM
- 3.0 NOZZLE RADIUS: 38' FLOW: 3.0 GPM
- 4.0 NOZZLE RADIUS: 40' FLOW: 4.0 GPM
- 5.0 NOZZLE RADIUS: 42' FLOW: 5.0 GPM
- 6.0 NOZZLE RADIUS: 43' FLOW: 6.0 GPM
- 8.0 NOZZLE RADIUS: 44' FLOW: 8.0 GPM
- CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE
- IRRIGATION MAIN LINE CAP
INDICATES QUANTITY OF CONTROL WIRES TO BE INSTALLED TO THIS
LOCATION FOR FUTURE SYSTEM EXPANSION
- IRRIGATION LATERAL LINE CAP: INSTALL IN 6-INCH ROUND VALVE BOX
- REFERENCE ON SITE IRRIGATION PACKAGE
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A9 IRRIGATION PLAN
 SCALE: 1"=30'-0"

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INFRASTRUCTURE CONSTRUCTION NOTES

- 1 THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED, SAME SIZE AS POC. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- 2 WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- 3 IRRIGATION SHOWN OUT OF LANDSCAPED AREA AND OR WITHIN RESIDENT LOT BOUNDARIES FOR CLARITY ONLY. INSTALL ALL IRRIGATION COMPONENTS WITHIN PUBLIC LANDSCAPED AREAS ONLY. DO NOT INSTALL ANY IRRIGATION COMPONENTS INSIDE OF RESIDENT LOT BOUNDARIES.
- 4 MAINLINE AND LATERAL LINES ARE SHOWN IN SAME SLEEVE FOR CLARITY ONLY. MAINLINE, CONTROL WIRES, AND LATERAL PIPE SHALL BE INSTALLED IN SEPARATE SLEEVES.
- 5 THE INFRASTRUCTURE IRRIGATION CONTRACTOR SHALL INSTALL IRRIGATION MAINLINE AND CONTROL WIRES (WIRE QUANTITY AS SHOWN) TO THE LOCATION SHOWN. CAP MAINLINE AND COIL CONTROL WIRES IN 10-INCH ROUND VALVE BOX FOR FUTURE EXTENSION INTO ON SITE IRRIGATION SYSTEM.
- 6 THE INFRASTRUCTURE IRRIGATION CONTRACTOR SHALL INSTALL SPRINKLER AND OR DRIP LATERAL PIPE(S) TO THE LOCATION SHOWN AND CAP PIPES FOR FUTURE EXTENSION INTO ON SITE IRRIGATION SYSTEM. INSTALL CAPPED LATERAL PIPE IN 6-INCH ROUND VALVE BOX AND INDICATE LATERAL TYPE (SPRINKLER, CACTUS, TREE OR SHRUB) WITH ID TAG.
- 7 THE IRRIGATION CONTRACTOR SHALL INSTALL A SEPARATE BACKFLOW PREVENTION UNIT ASSEMBLY UPSTREAM OF THE IRRIGATION BACKFLOW PREVENTION UNIT ASSEMBLY FOR SERVICE TO THE DRINKING FOUNTAIN AND ROUTE 3/4-INCH TYPE K COPPER TO THE APPROXIMATE LOCATION SHOWN. INSTALLATION OF ALL PIPING AND EQUIPMENT SHALL BE PERFORMED BY A LICENSED PLUMBER CONFORMING TO THE LOCAL AND STATE PLUMBING CODES.

REVISIONS

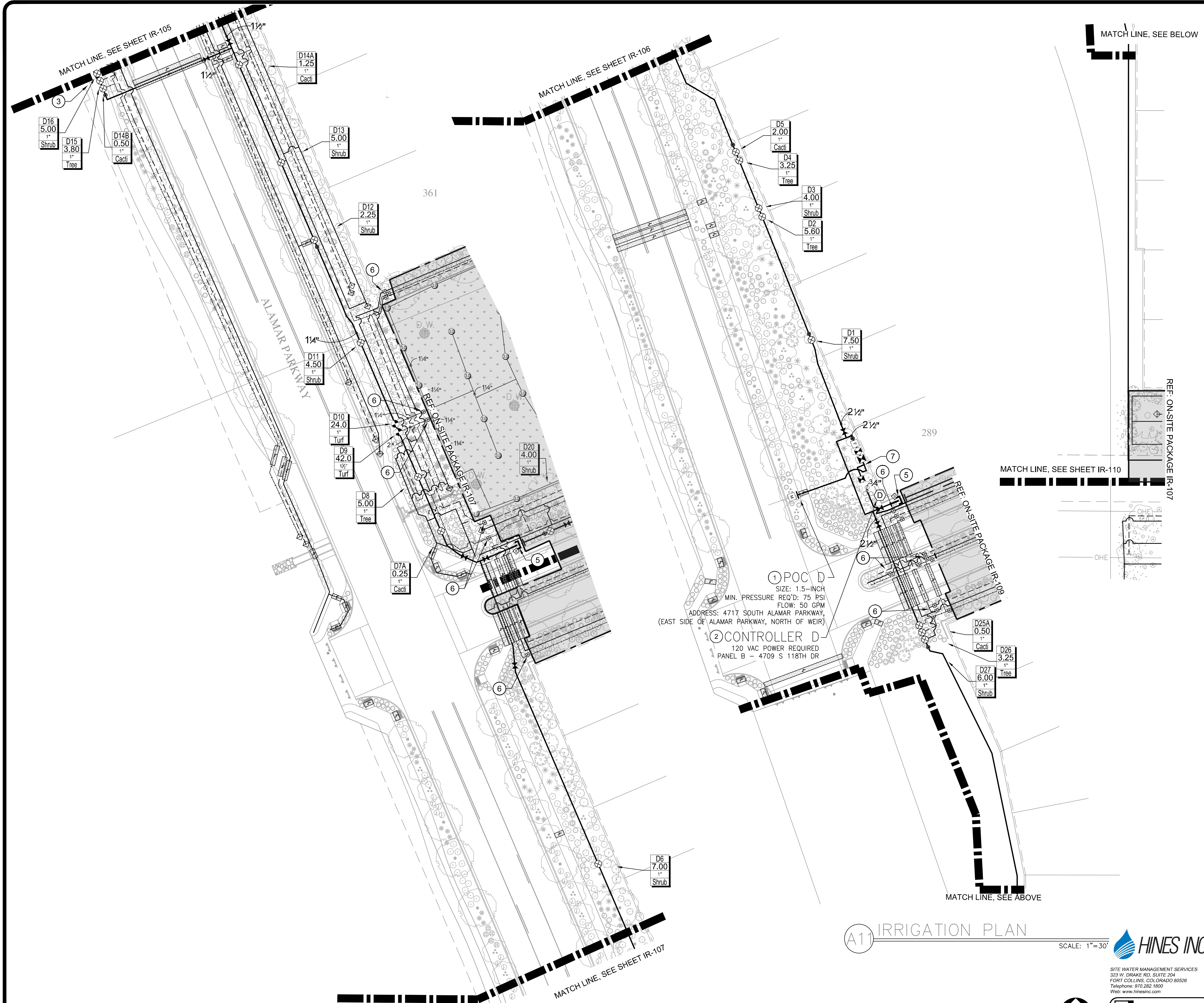
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 FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION PLAN

ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA

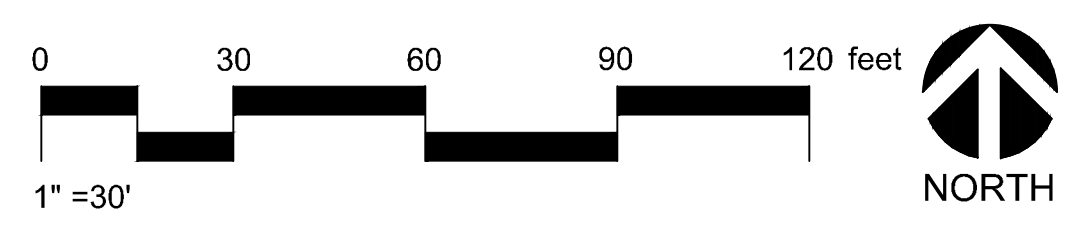
FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION PLAN

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CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-106
21 OF 24 SHEETS	



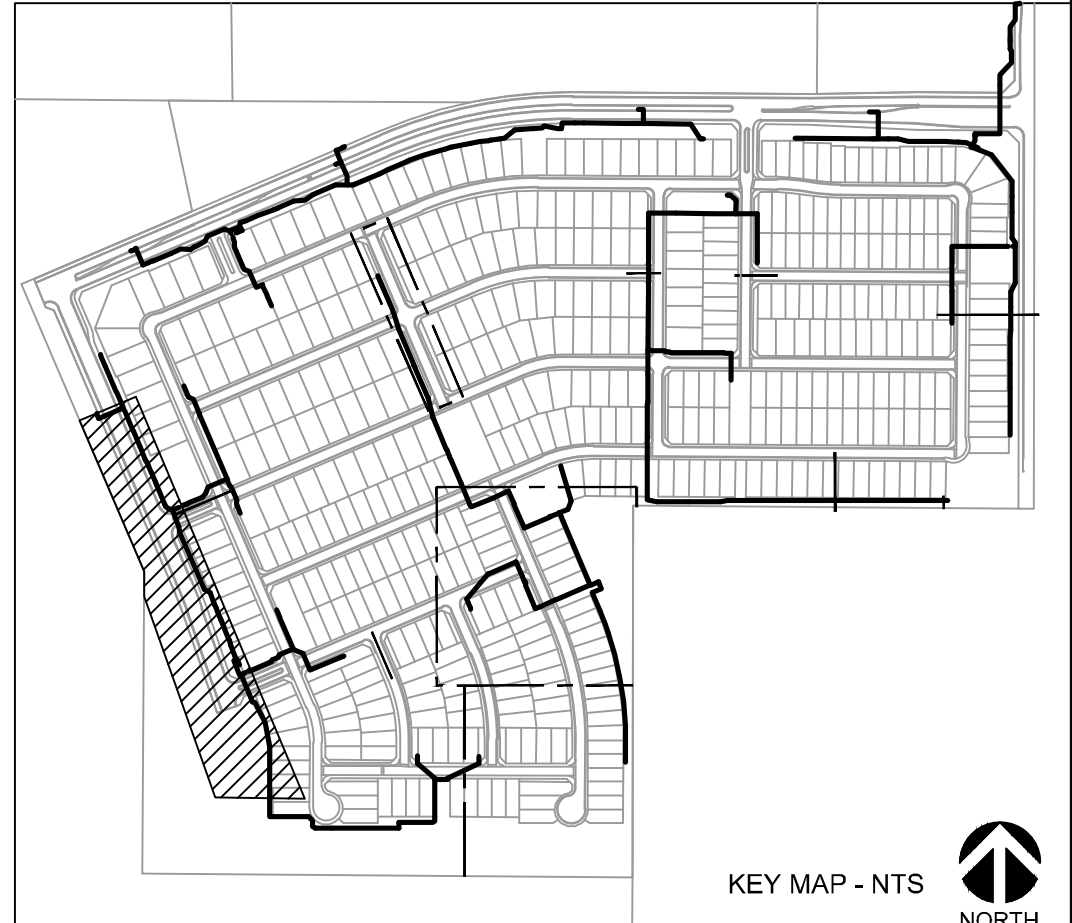
A10 IRRIGATION PLAN
 SCALE: 1"=30'-0"

A11 IRRIGATION PLAN
 SCALE: 1"=30'



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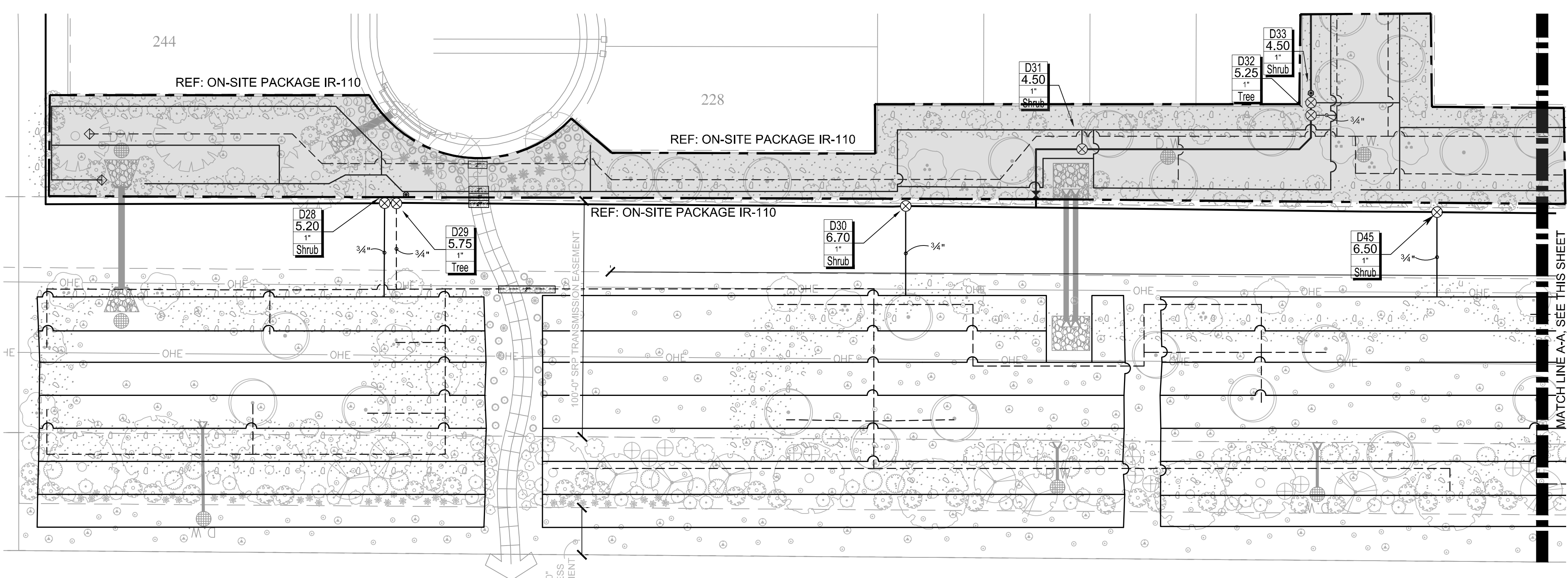
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FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION PLAN

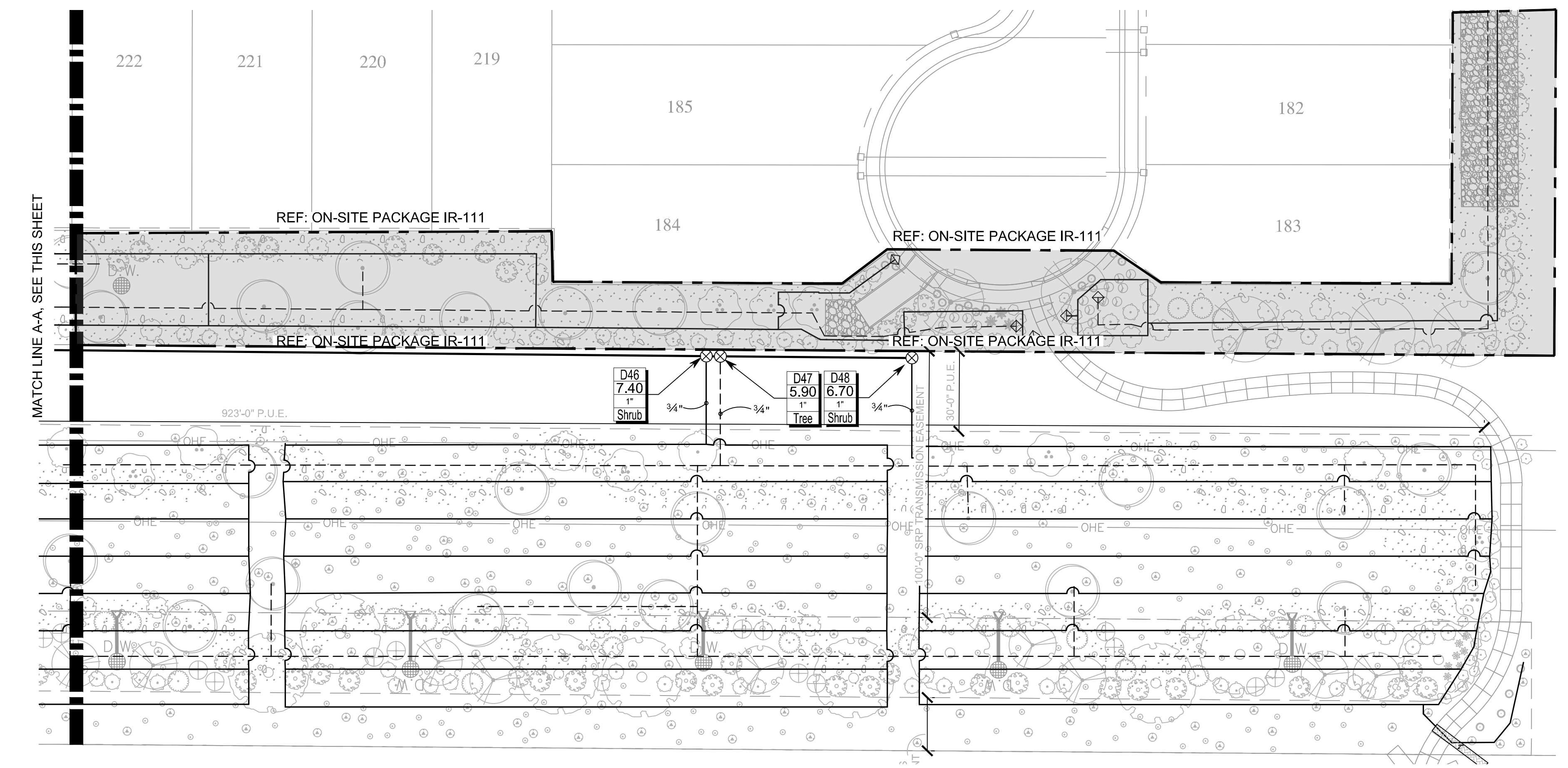
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CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-107
22 OF 24 SHEETS	

IRRIGATION LEGEND

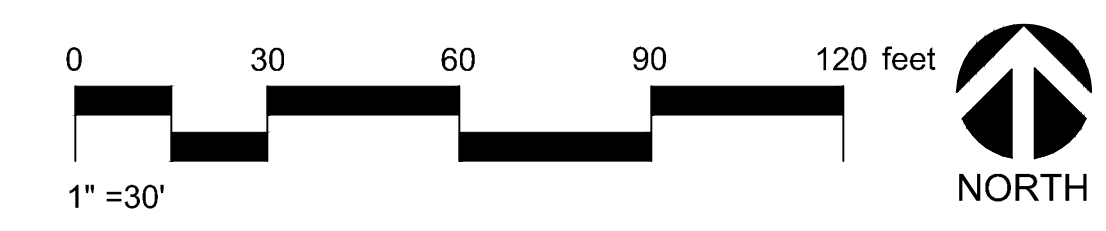
- IRRIGATION SLEEVES: SCH. 80 PVC (SIZED ON PLAN)
- MAINLINE PIPE: CLASS 200 PVC
2-INCH SIZE UNLESS OTHERWISE INDICATED
- DRINKING FOUNTAIN SERVICE LINE: TYPE K COPPER LINE (SIZED PER PLAN)
IDENTIFIED WITH BLUE DETECTABLE MARKING TAPE
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO TREE EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SHRUB EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO CACTUS EMITTERS: CLASS 315 PVC
1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION ASSEMBLY
- WATER METER AND CURB STOP ASSEMBLY (BY OTHERS)
- BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA (BY OTHERS)
- MASTER VALVE ASSEMBLY: WEATHERMATIC MAX-DW (SIZED PER POC)
- FLOW SENSOR ASSEMBLY: WEATHERMATIC SLFSI-T (SIZED PER POC)
- ISOLATION GATE VALVE ASSEMBLY: MATCO 514
- QUICK COUPLING VALVE ASSEMBLY: RAINBIRD 5RC
- REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS
WEATHERMATIC MAX-DW (SIZED PER PLAN)
- REMOTE CONTROL DRIP VALVE ASSEMBLY: RAINBIRD XCZ-PRB-100-COM
- FLUSH CAP ASSEMBLY
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION
- IRRIGATION CONTROLLER UNIT WITH WEATHER STATION AND AIR CARD
CONTROLLER B: WEATHERMATIC VAR 10632 (B)
CONTROLLER C: WEATHERMATIC VAR 10632 (C)
CONTROLLER D: WEATHERMATIC VAR 10632 (D)
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HUNTER I-20-04-SS
PRESSURE: 45 PSI STANDARD NOZZLES
- | | | |
|------------|-------------|---------------|
| 1.5 NOZZLE | RADIUS: 31' | FLOW: 1.5 GPM |
| 2.0 NOZZLE | RADIUS: 34' | FLOW: 2.0 GPM |
| 2.5 NOZZLE | RADIUS: 35' | FLOW: 2.5 GPM |
| 3.0 NOZZLE | RADIUS: 38' | FLOW: 3.0 GPM |
| 4.0 NOZZLE | RADIUS: 40' | FLOW: 4.0 GPM |
| 5.0 NOZZLE | RADIUS: 42' | FLOW: 5.0 GPM |
| 6.0 NOZZLE | RADIUS: 43' | FLOW: 6.0 GPM |
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- REFERENCE ON SITE IRRIGATION PACKAGE SHOWN FOR CLARITY ONLY



A12 UTILITY EASEMENT
 SCALE: 1"=30'-0"

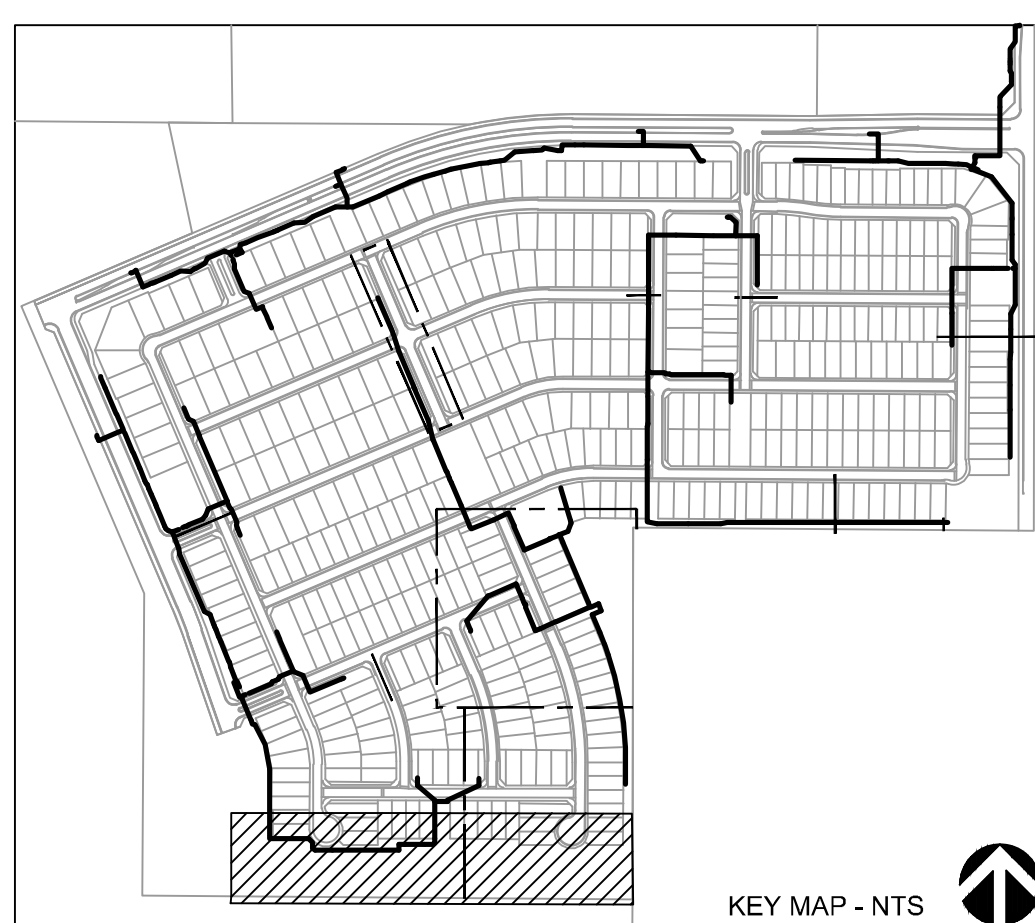


A13 UTILITY EASEMENT
 SCALE: 1"=30'-0"



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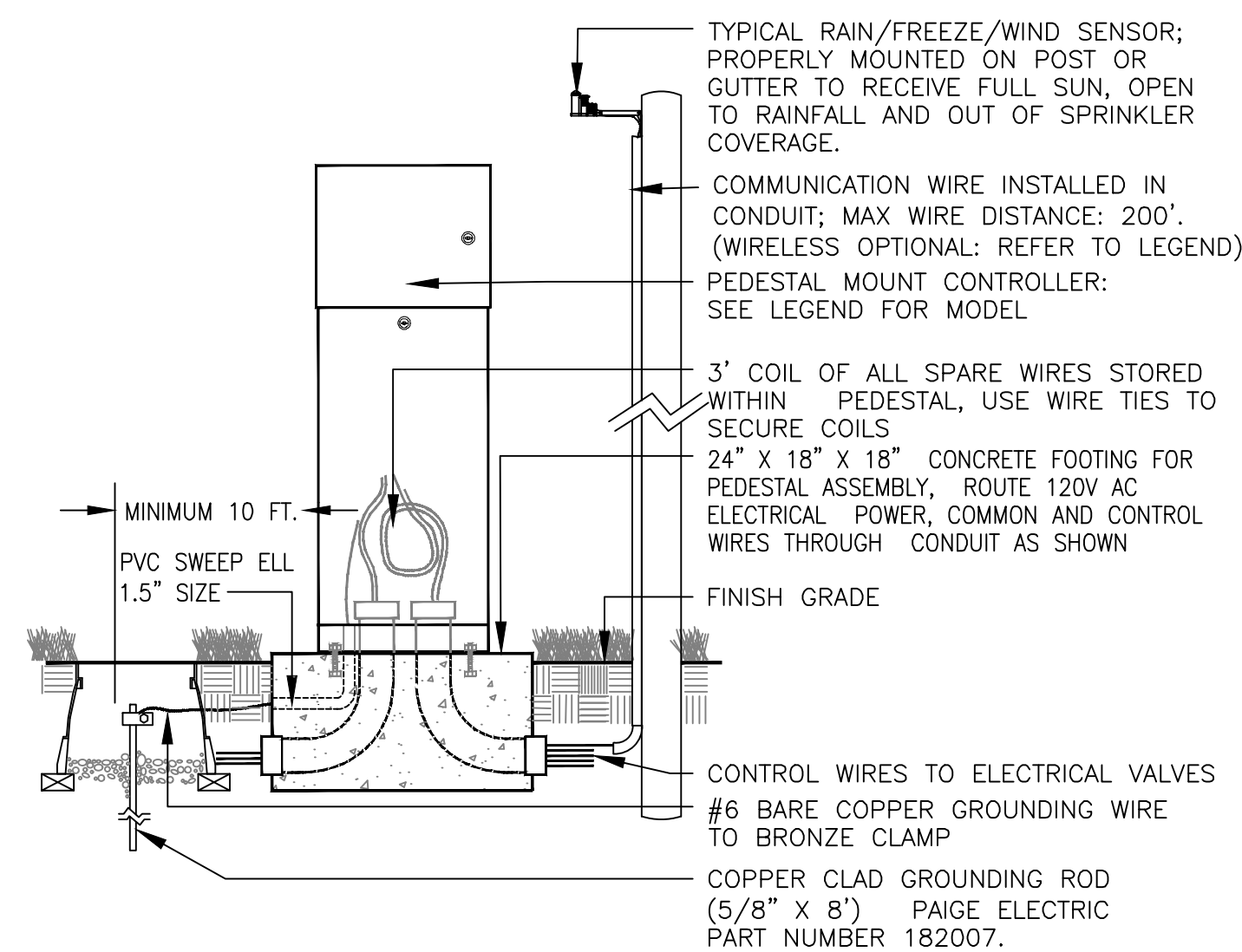


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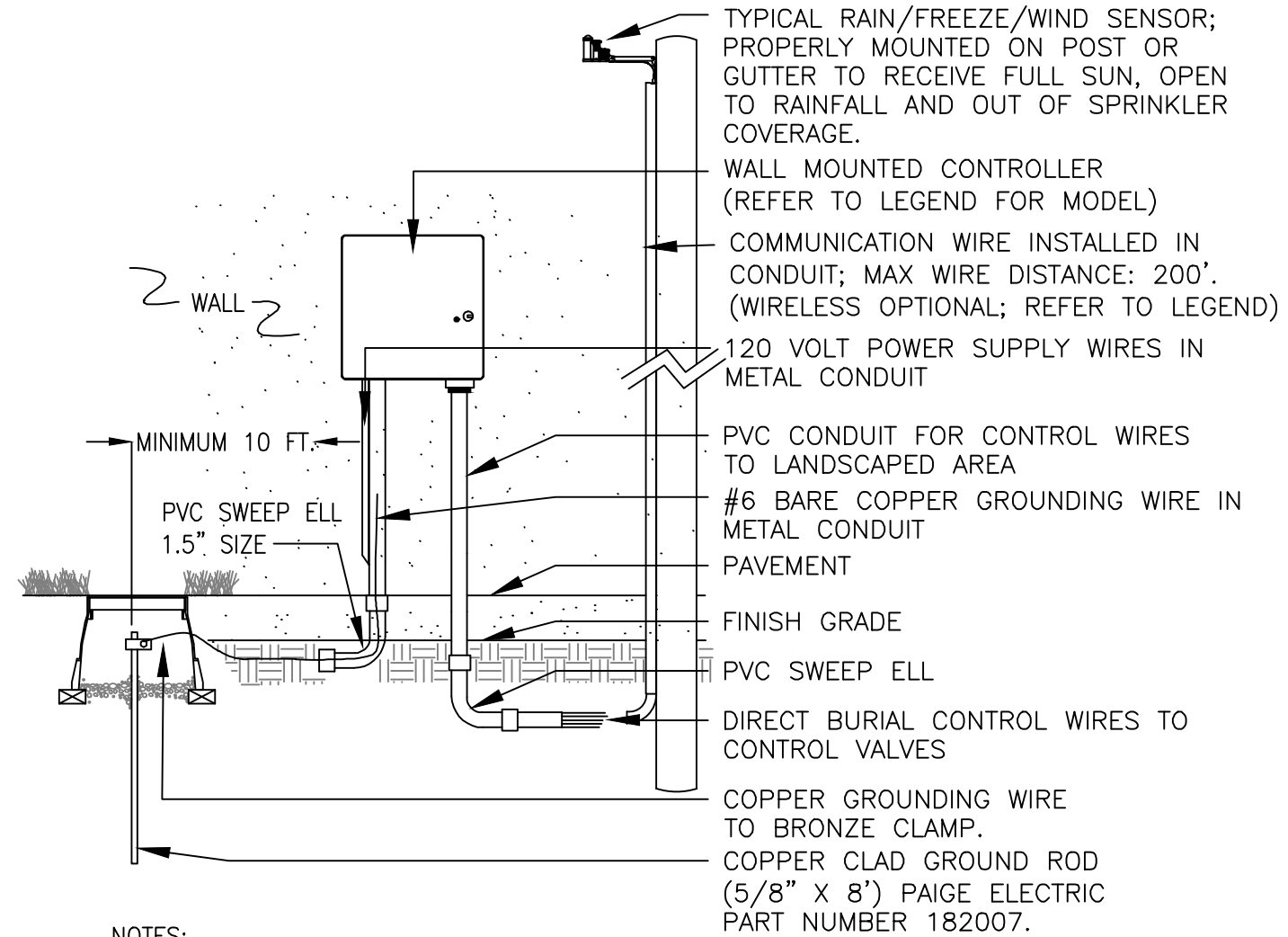
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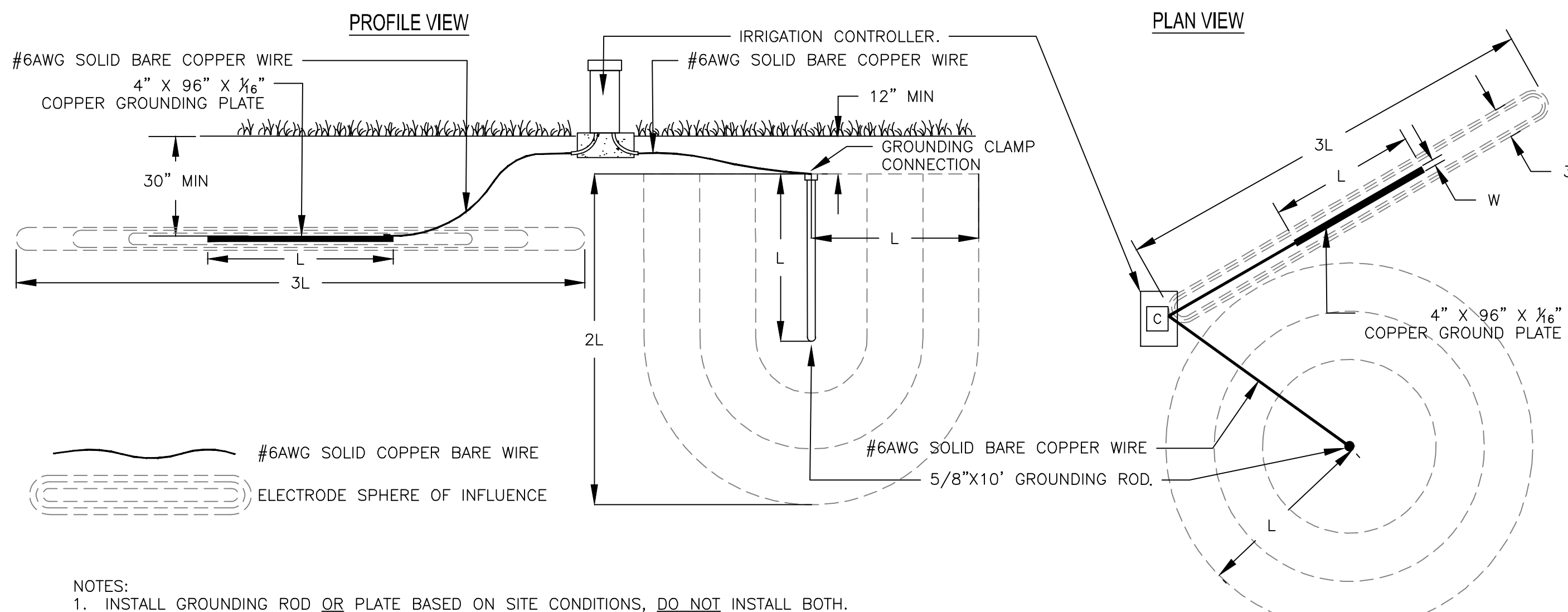
NOTES:
 1. INSTALL RAIN SENSOR ON TREATED 4X4 POST IF CONTROLLER IS IN TURF AREA. POST TO BE MOUNTED IN SHRUB BED TO AVOID BEING IRRIGATED BY OVERHEAD SPRINKLERS.

1 PEDESTAL MOUNTED CONTROLLER ASSEMBLY



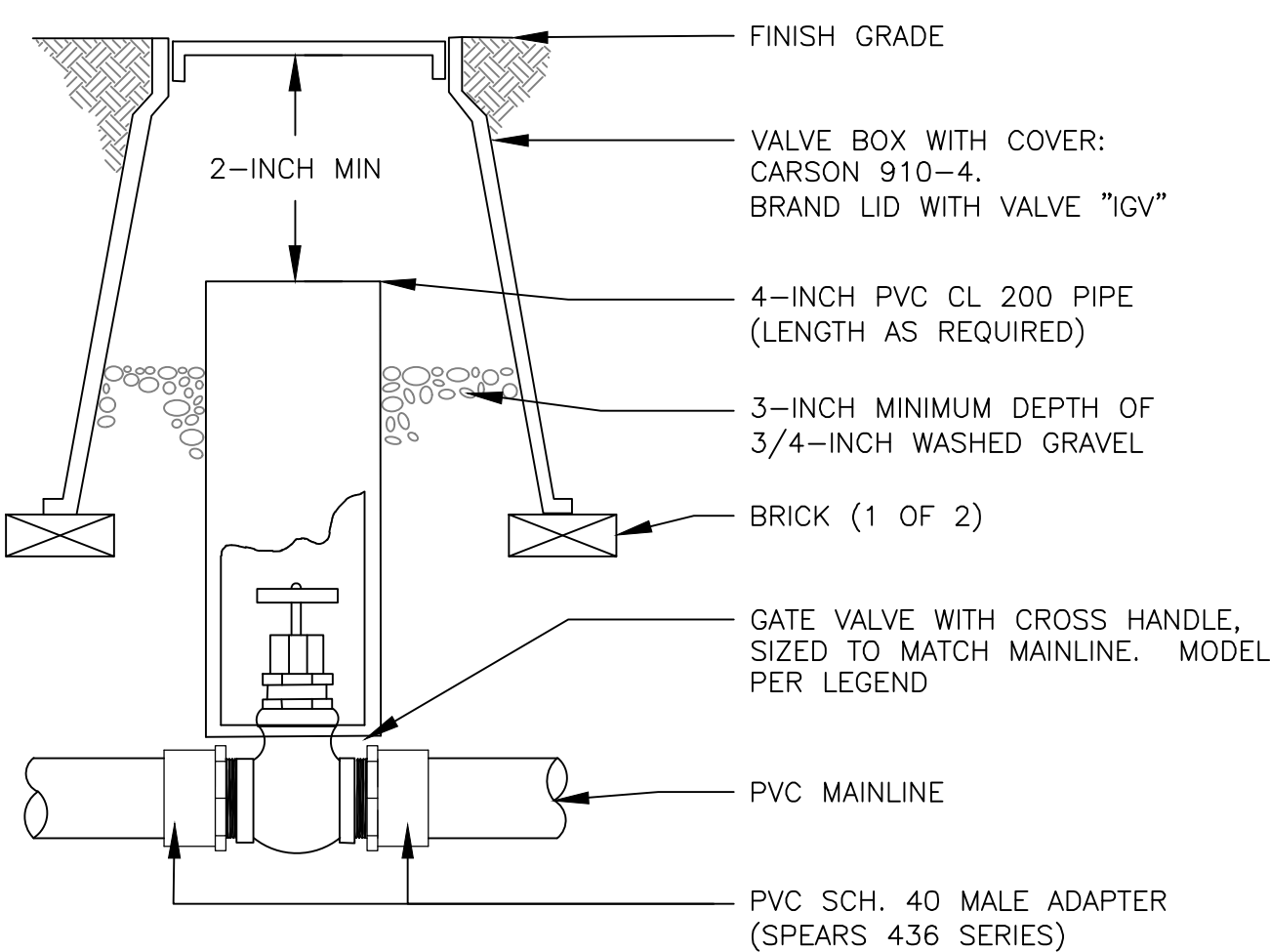
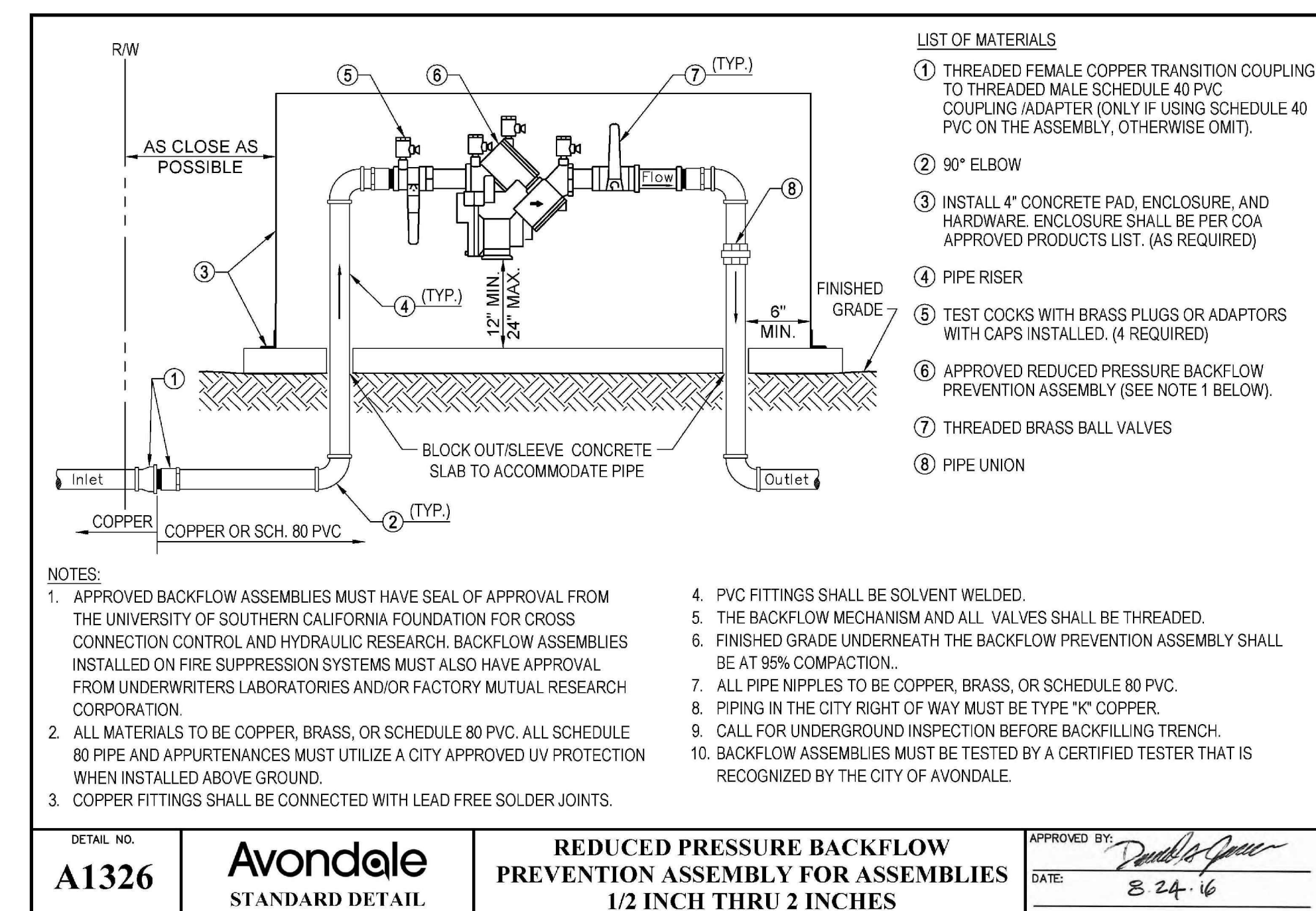
NOTES:
 1. INSTALL ALL WIRING PER LOCAL ELECTRICAL CODES.
 2. INSTALL GROUND ROD WITHIN IRRIGATED TURF AREA. IF IRRIGATED TURF AREA IS NOT IN CLOSE PROXIMITY TO CONTROLLER, INSTALL ONE (1) DRIP EMITTER FROM NEAREST DRIP VALVE IN VALVE BOX HOUSING GROUNDING ROD.

2 WALL MOUNT CONTROLLER ASSEMBLY



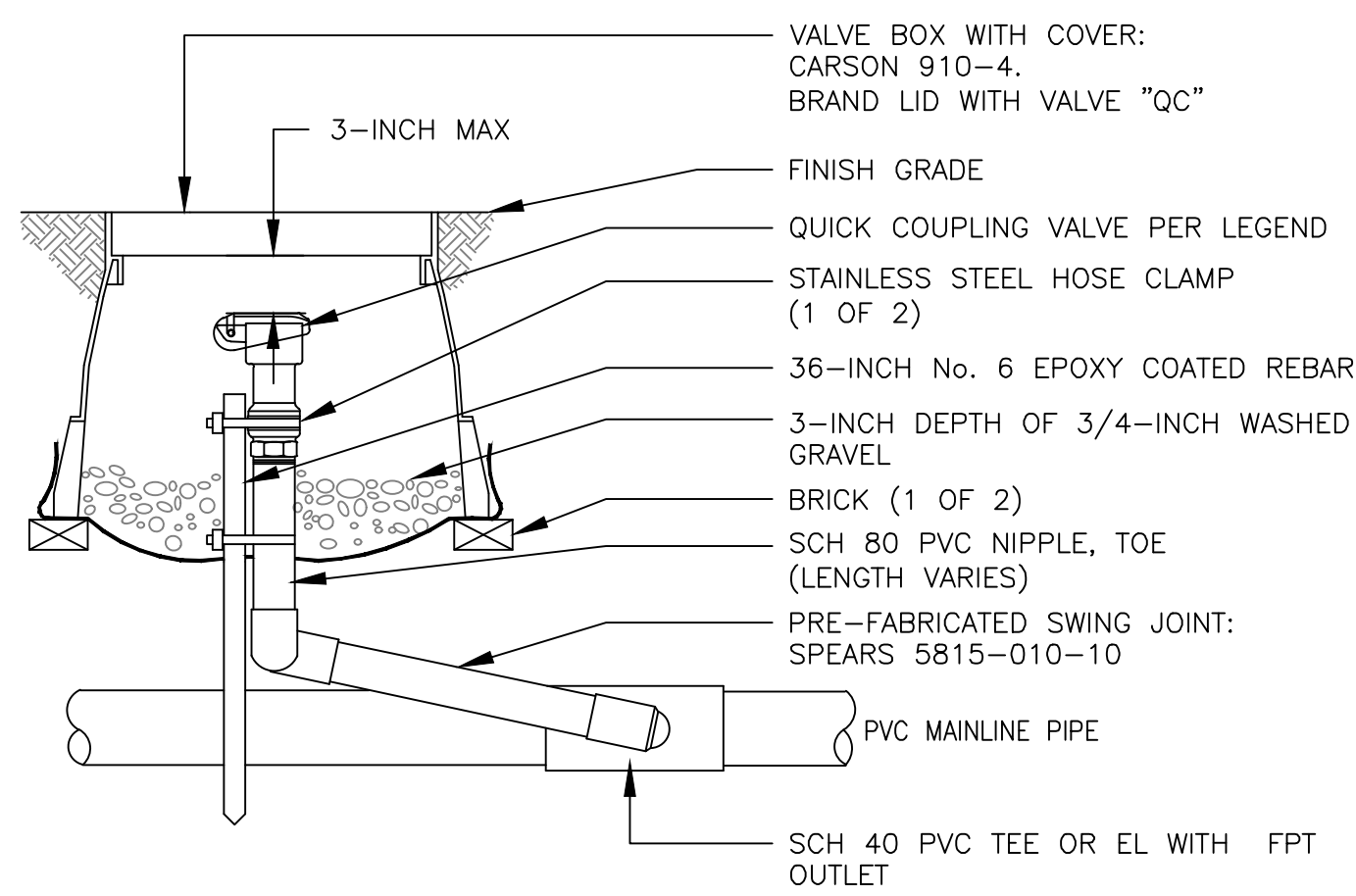
NOTES:
 1. INSTALL GROUNDING ROD OR PLATE BASED ON SITE CONDITIONS, DO NOT INSTALL BOTH.
 2. DO NOT INSTALL ANY OTHER WIRE OR CABLES INSIDE THE SPHERE OF INFLUENCE.
 3. INSTALL GROUNDING PLATE AT A MINIMUM OF 30-INCHES BELOW GRADE OR BELOW FROST-LINE, WHICHEVER IS DEEPER.
 4. TYPICAL INSTALLATION SHOWN FOR AN IRRIGATION CONTROLLER CAPACITY OF 64 STATIONS OR LESS, INSTALL AN ADDITIONAL GROUNDING ROD/PLATE PER 64 STATIONS.

3 TYPICAL IRRIGATION CONTROLLER GROUNDING ROD OR PLATE INSTALLATION

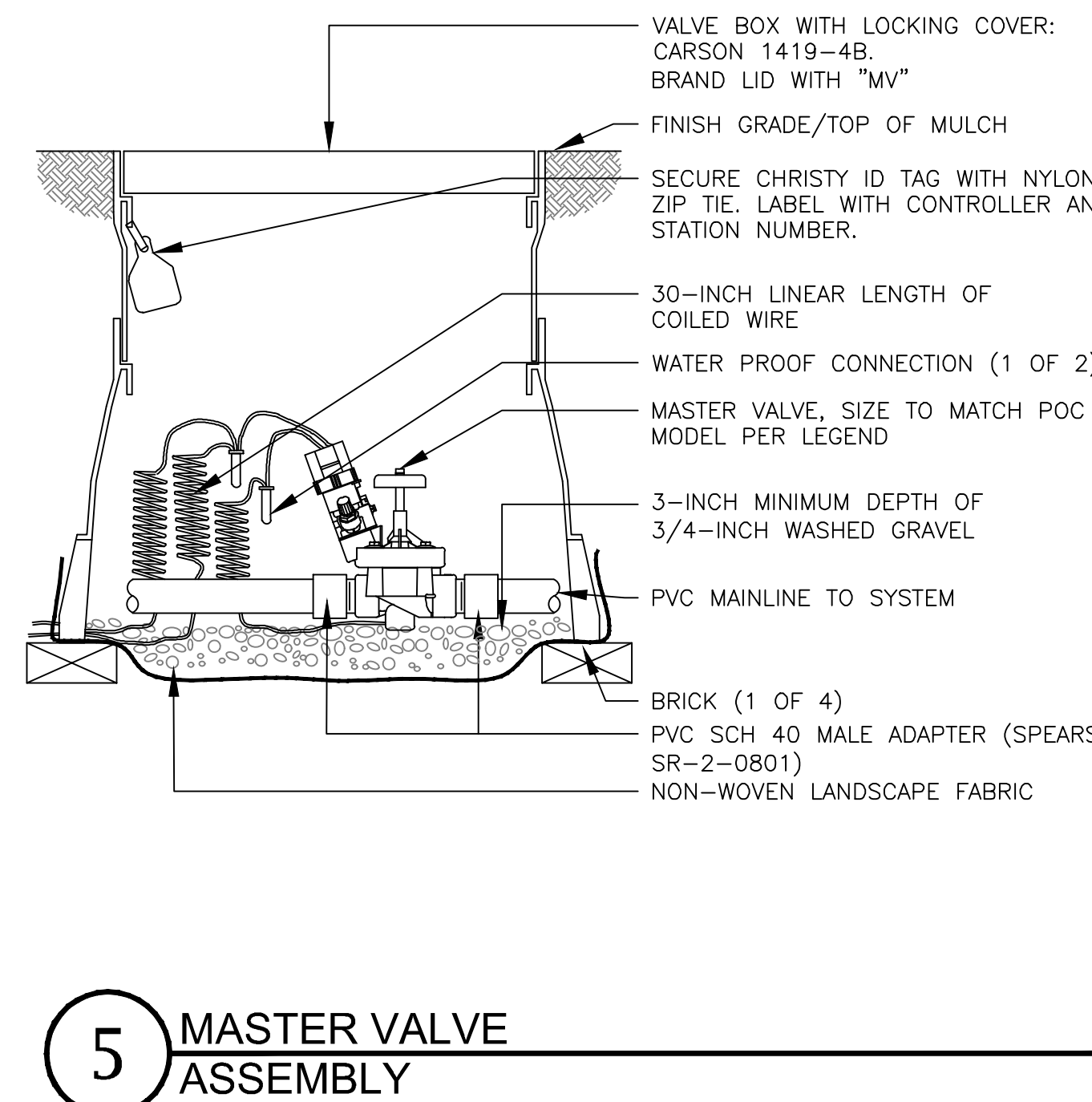


NOTES:
 1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

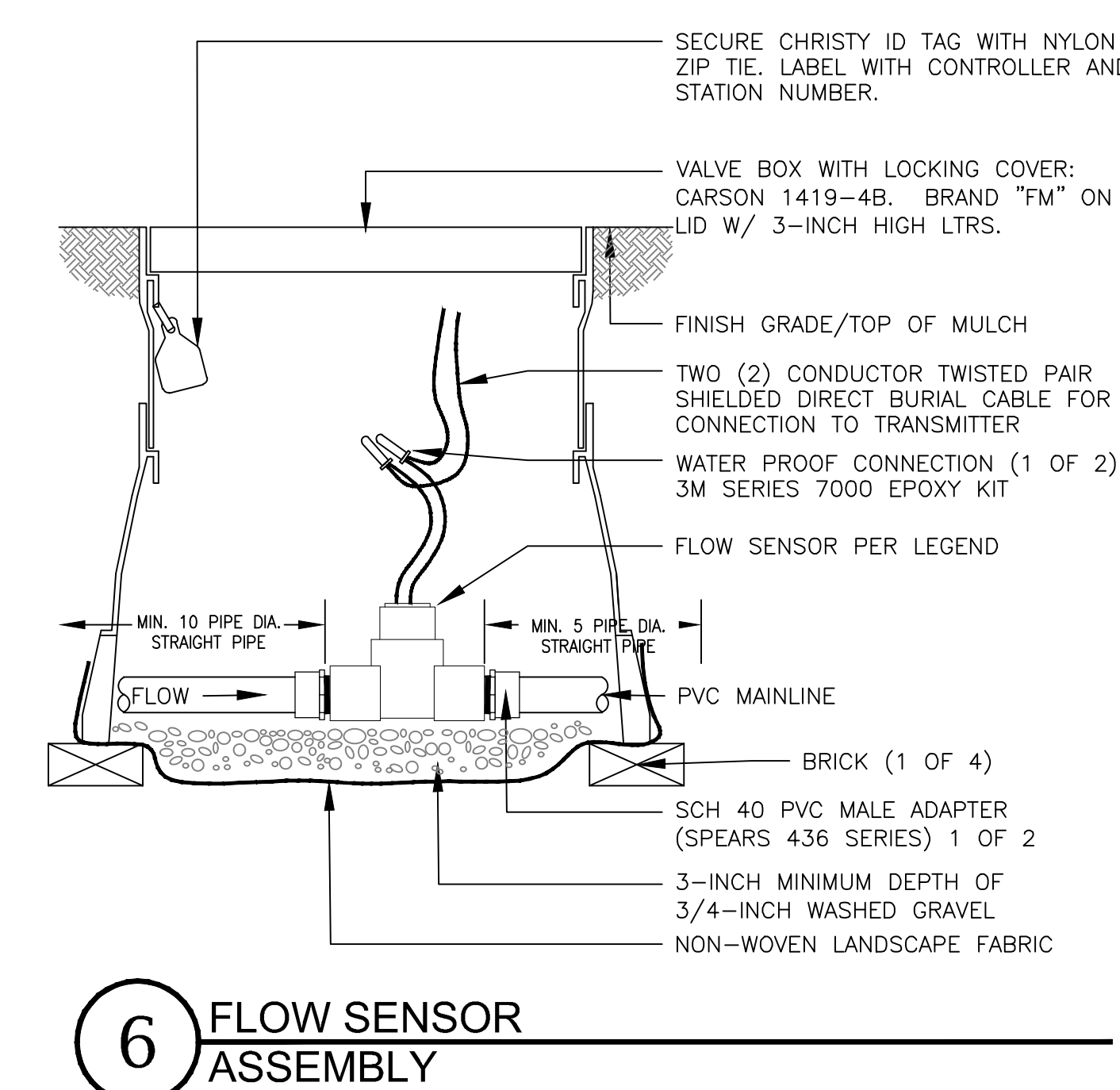
7 ISOLATION GATE VALVE ASSEMBLY



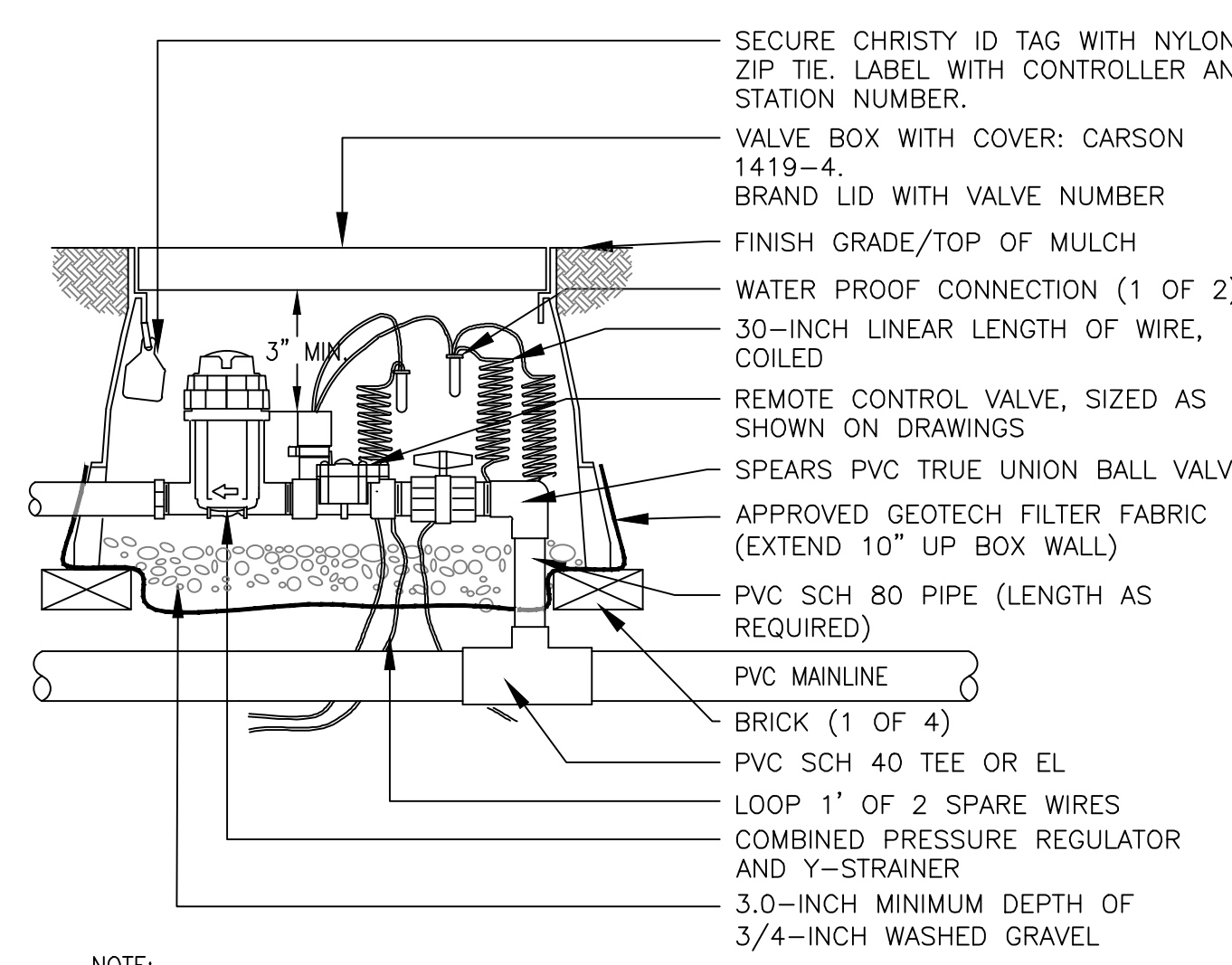
8 QUICK COUPLING VALVE ASSEMBLY



5 MASTER VALVE ASSEMBLY



6 FLOW SENSOR ASSEMBLY



NOTE:
 1. USE BARBED INSERT FITTINGS ON DRIP LATERAL PIPE WITH STAINLESS STEEL HOSE CLAMPS. PLACE CLAMPS ON DRIP TUBING DIRECTLY OVER BARBED AREA OF FITTING. PINCH CLAMPS ARE NOT ACCEPTABLE.

9 REMOTE CONTROL DRIP VALVE ASSEMBLY



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 IRRIGATION DETAILS

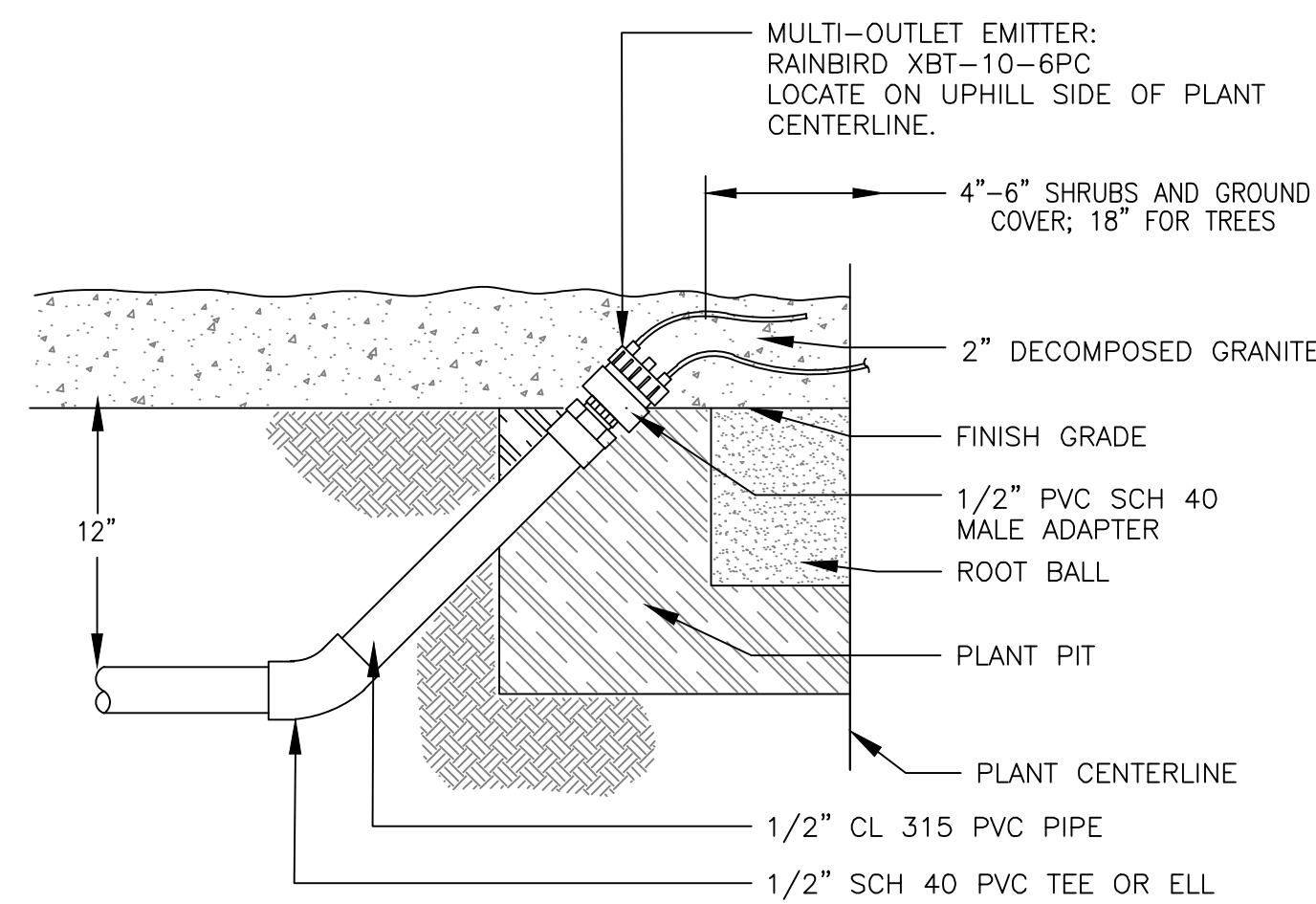
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CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-501
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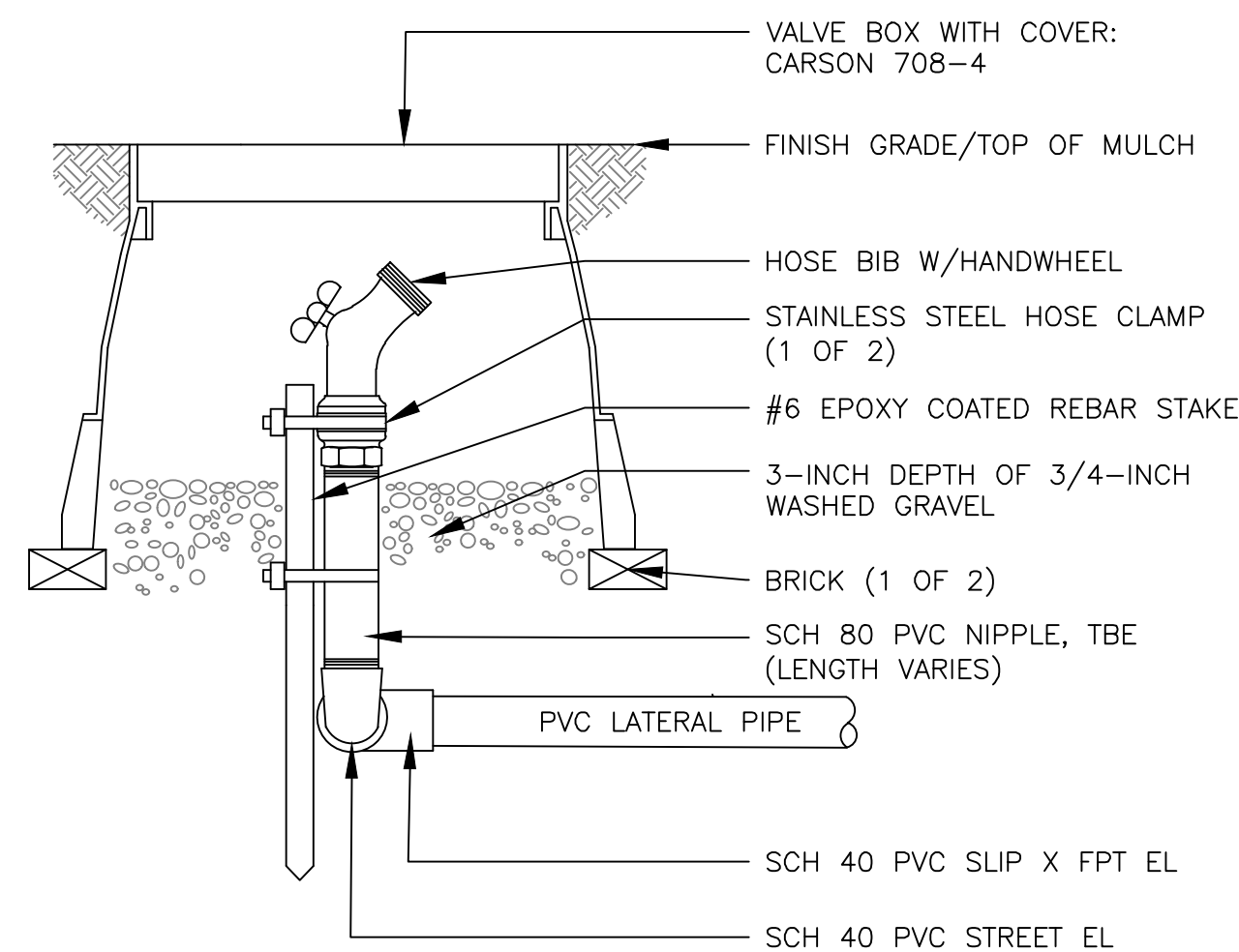
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NOTES:
 1. EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO PLANT ROOTBALL.
 2. AT LEAST ONE EMITTER TUBE TO BE LOCATED WITHIN 4 INCHES OF PLANT CENTERLINE.
 3. FOUR HOLES OPEN INITIALLY.

11 MULTI-OUTLET DRIP EMITTER ASSEMBLY FOR TREES



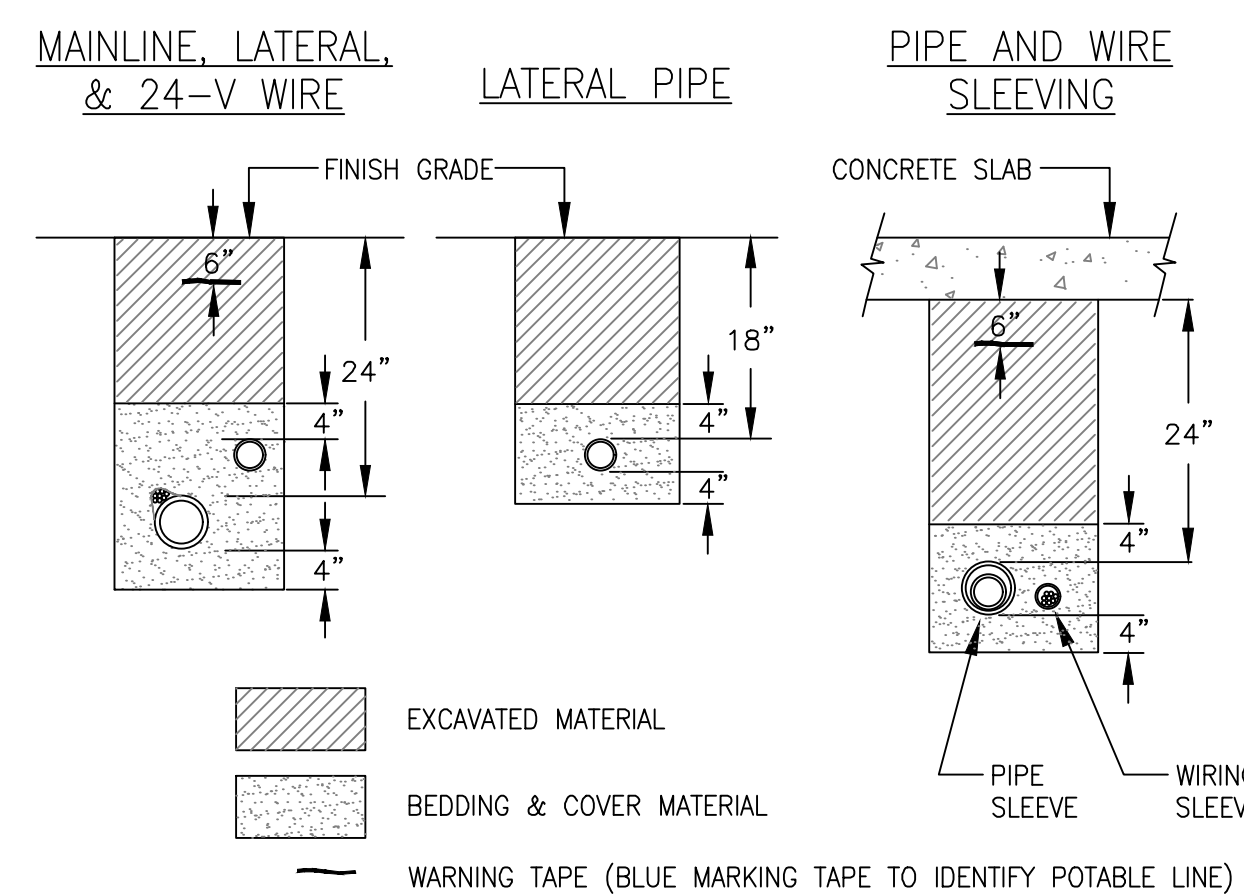
NOTES:
 1. TAN COLORED BOX LIDS SHALL BE UTILIZED IN DG MULCHED AREAS. GREEN LIDS SHALL BE UTILIZED IN TURF AREAS.

12 DRIP FLUSH CAP ASSEMBLY

PLANT TYPE	PLANT SIZE	EMITTERS PER PLANT	GPH PER OUTLET	NUMBER OF OUTLETS	TOTAL GPH PER PLANT
TREES	15 GAL	1 MULTI	2 GPH	3	6 GPH
TREES	24" BOX	1 MULTI	2 GPH	4	8 GPH
TREES	36" BOX	2 MULTI	2 GPH	4	8 GPH
TREES	42" BOX	2 MULTI	2 GPH	5	10 GPH
SHRUBS	5 GAL	2 SINGLE	1 GPH	1	2 GPH
SHRUBS	1 GAL	1 SINGLE	1 GPH	1	1 GPH
GROUND COVER	1 GAL	1 SINGLE	1 GPH	1	1 GPH
CACTI		1 SINGLE	.6 GPH	1	0.6 GPH

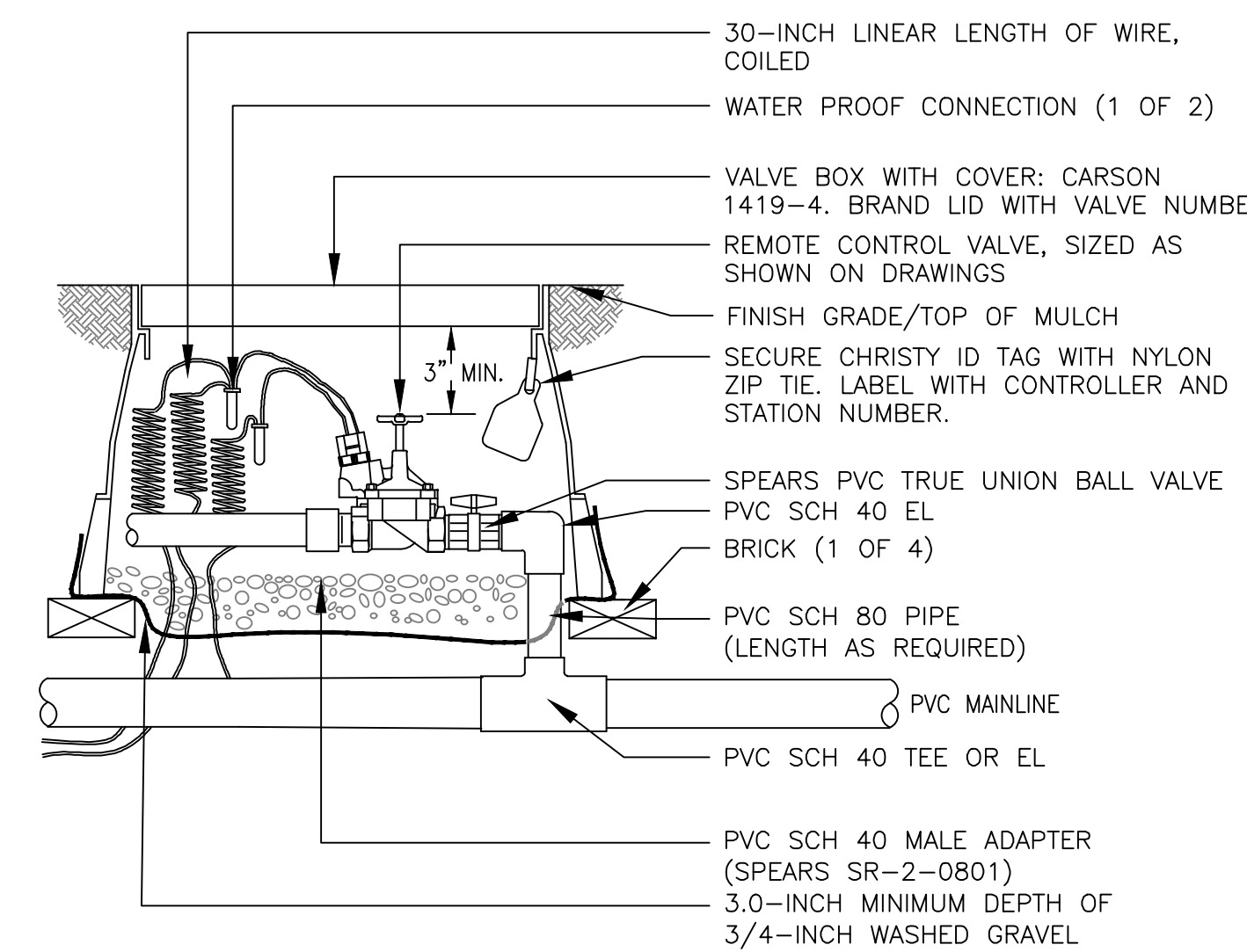
NOTE: ALL EMISSION POINTS TO BE LOCATED ON THE UPHILL SIDE OF PLANT MATERIAL.

13 EMITTER SCHEDULE

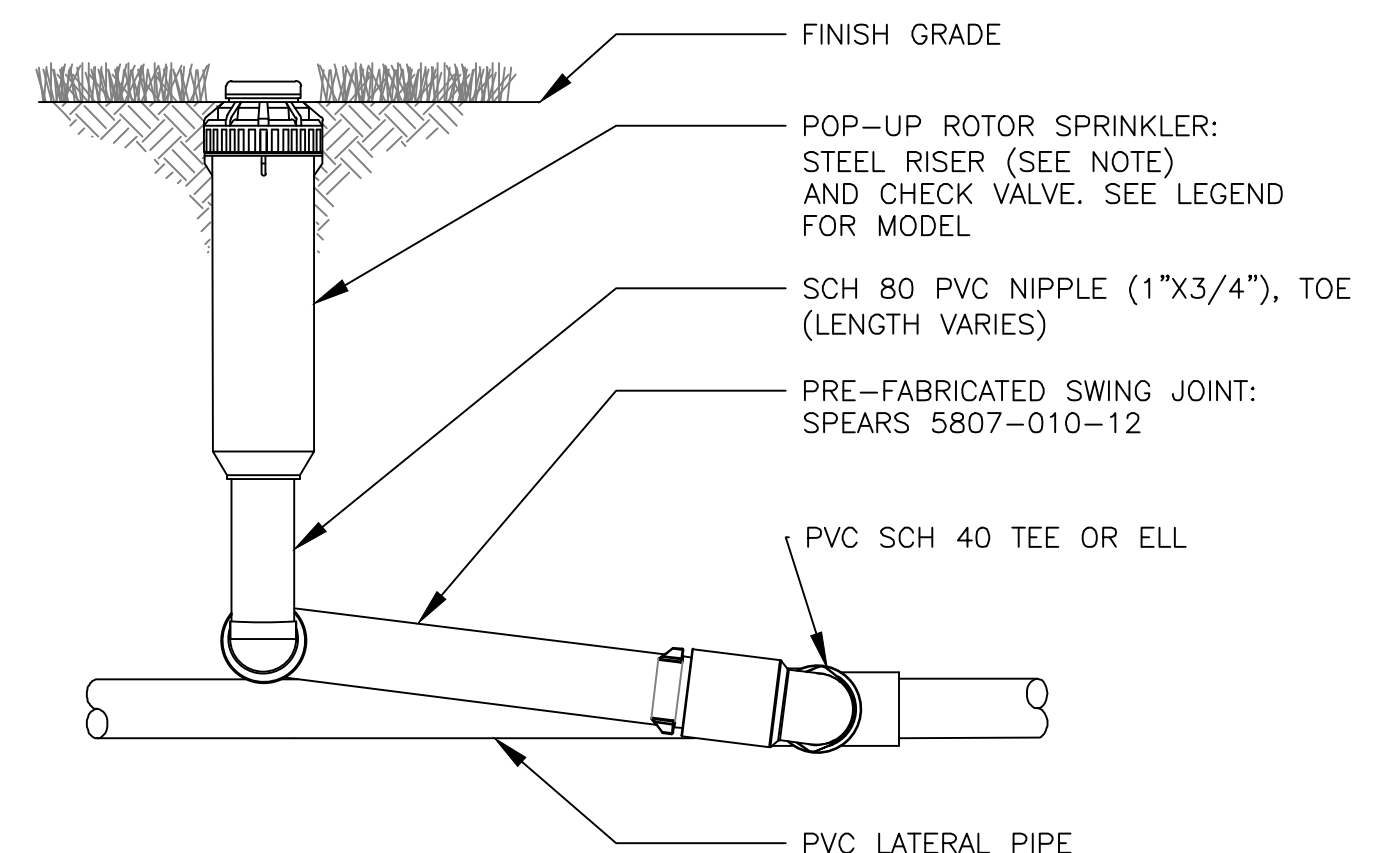


NOTES:
 1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
 2. ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. "SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
 3. ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. TAPE AND BUNDLE 24-V WIRE EVERY 10' AND PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30 DEGREES.

17 TYPICAL TRENCHING DETAIL

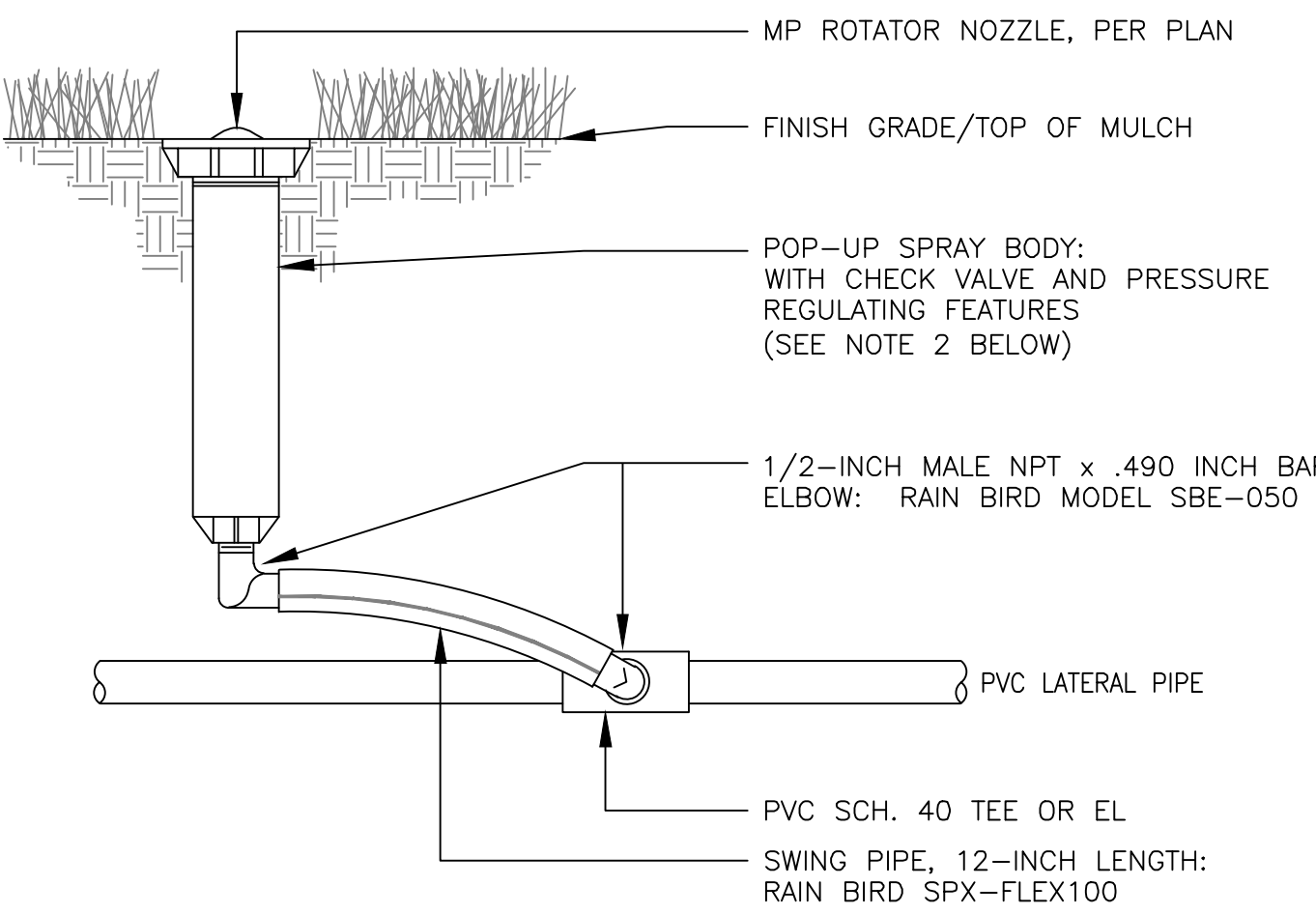


14 REMOTE CONTROL TURF VALVE ASSEMBLY



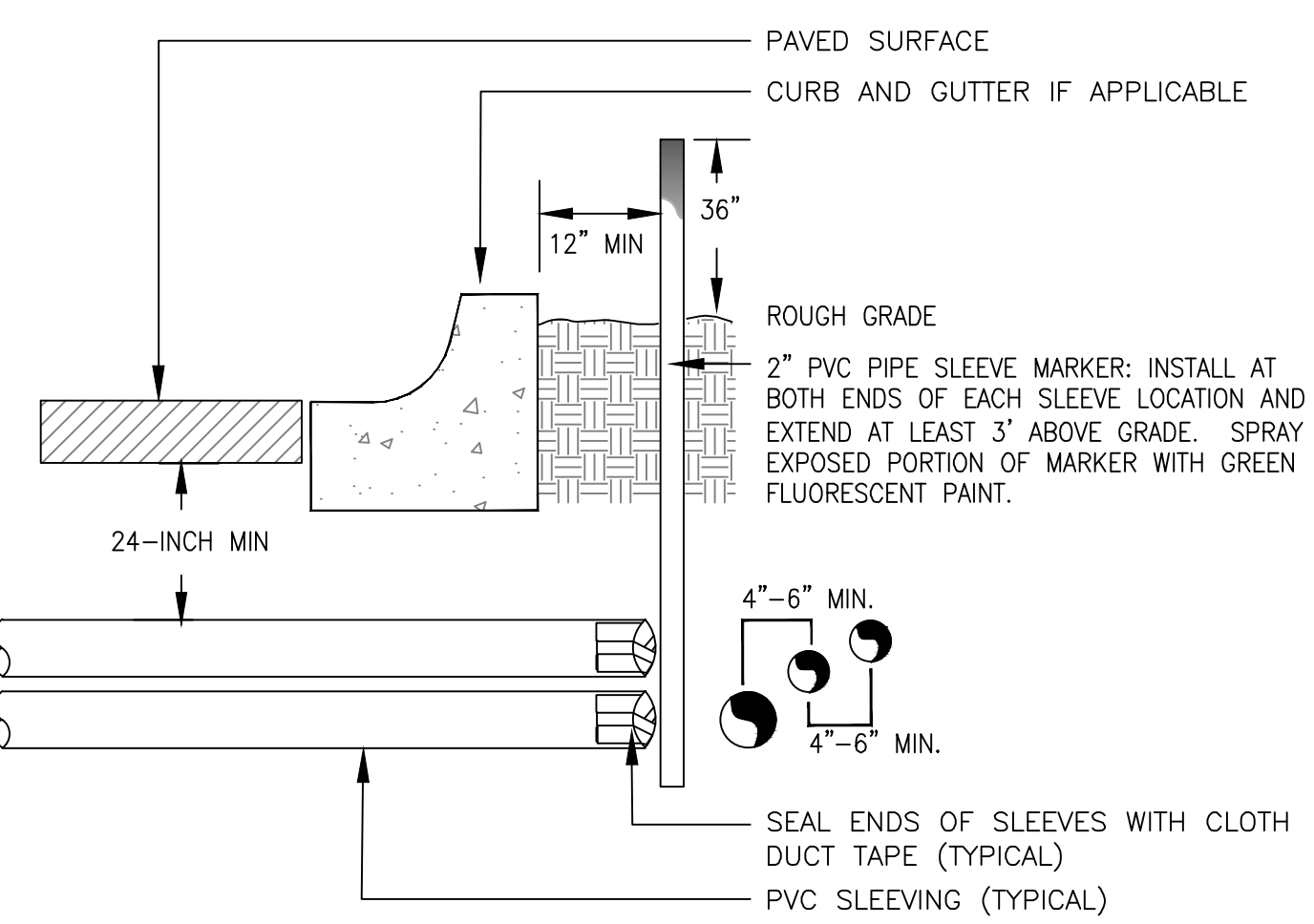
NOTES:
 1. INSTALL PLASTIC RISERS FOR ROTORS IN NATIVE AREAS.

15 4-INCH GEAR DRIVEN ROTOR ASSEMBLY



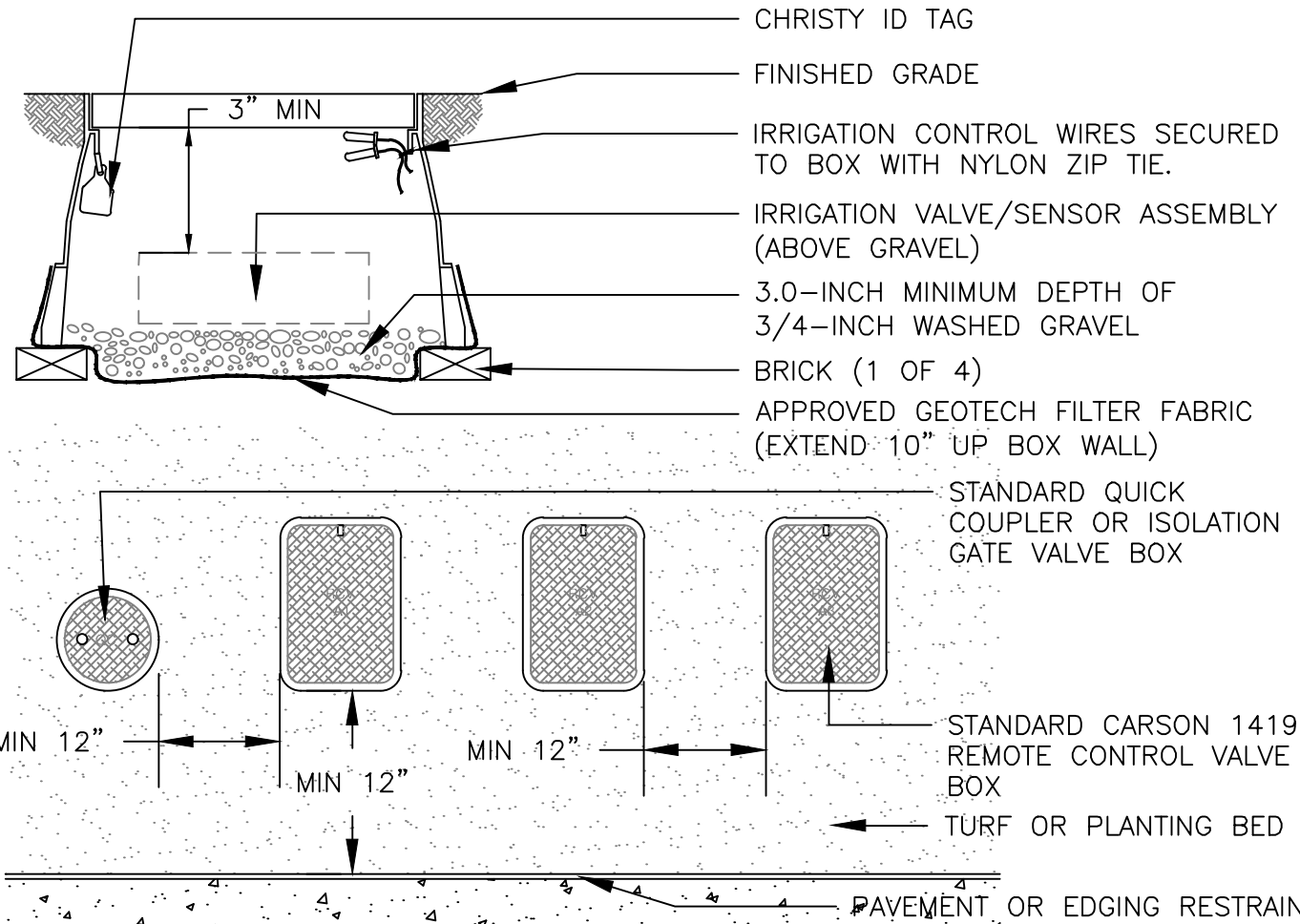
NOTES:
 1. IF POLYETHYLENE PIPE IS USED FOR LATERAL PIPE, SUBSTITUTE INSERT TEE OR EL WITH STAINLESS STEEL CLAMPS FOR PVC SLIP TEE OR EL SHOWN ABOVE.
 2. TO ACHIEVE MINIMUM RADIUS WITH ANY MP ROTATOR MODEL, USE HUNTER PRS30 BODY

16 4-INCH POP UP MP-ROTATOR ASSEMBLY



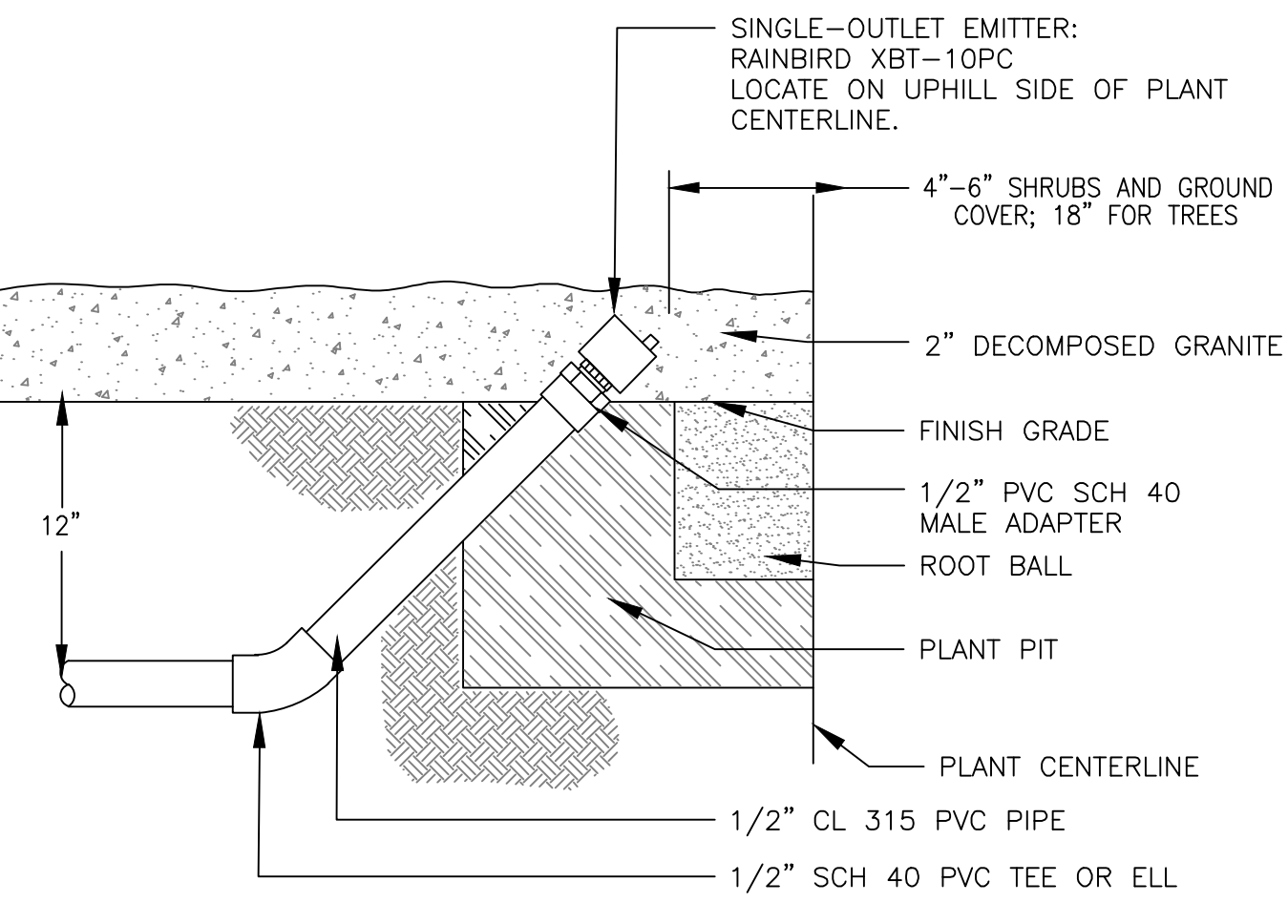
NOTE:
 1) ALL SLEEVING TO BE SCHEDULE 80 BE PVC, SIZED AS NOTED.
 2) INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.

19 TYPICAL SLEEVING DETAIL



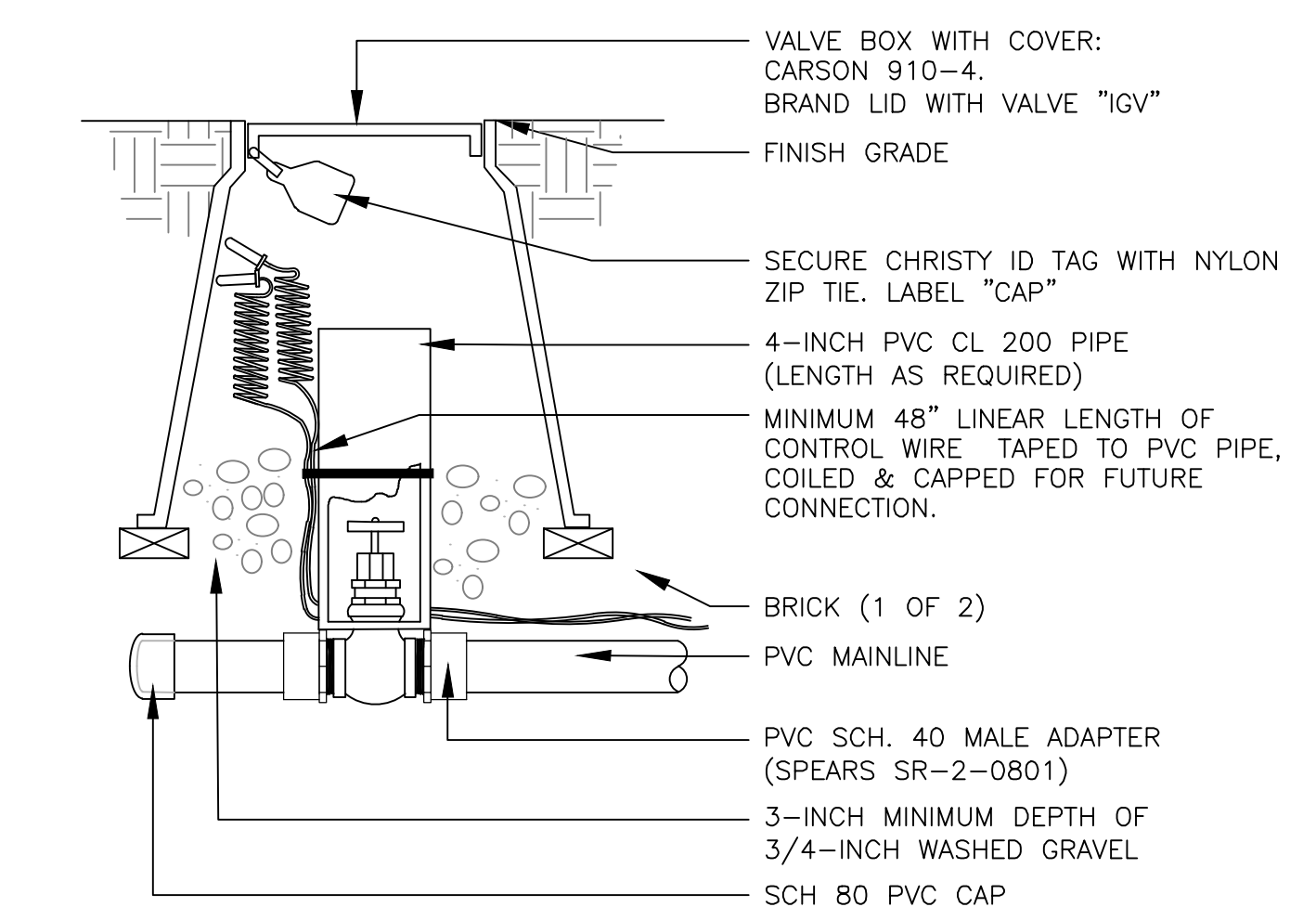
NOTES:
 1. INSTALL ONLY ONE RCV TO VALVE BOX. LOCATE AT LEAST 12-INCHES FROM AND ALIGN WITH NEARBY WALLS OR EDGES OF PAVED AREAS. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL.
 4. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL, BUT AVOID GROUPING MORE THAN THREE (3) STANDARD VALVE BOXES TOGETHER IN A SERIES.
 5. ARRANGE GROUPED VALVE BOXES IN RECTANGULAR PATTERNS.

20 TYPICAL VALVE BOX INSTALLATION



NOTE:
 1. 90 DEGREE ELL MAY BE USED IN LIEU OF 45 DEGREE IF PLANTER WIDTH IS LESS THAN SHOWN.

21 SINGLE OUTLET DRIP EMITTER ASSEMBLY FOR SHRUBS AND CACTI



NOTES:
 1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.
 2. INSTALL SCH 80 PVC CAP A MINIMUM OF 4-INCHES DOWNSTREAM OF ISOLATION GATE VALVE FOR FUTURE INSTALLATION OF SCH 80 PVC COUPLER.

18 MAINLINE & CONTROL WIRE STUB-OUT (FUTURE CONNECTION)

HINES INC
 SITE WATER MANAGEMENT SERVICES
 323 W. DRAKE RD. SUITE 204
 FORT COLLINS, CO 80504 80526
 Telephone: 970.262.1800
 Web: www.hinesinc.com

CALL TWO WORKING DAYS BEFORE YOU DIG
 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

REVISIONS

NO.	DATE

ALAMAR
 CITY OF AVONDALE, MARICOPA COUNTY, ARIZONA
 FINAL IRRIGATION PLANS - PHASE 1 INFRASTRUCTURE
 IRRIGATION DETAILS

DRAWN	SH/MR
CHECKED	MR
DATE	01.18.19
SCALE	AS SHOWN
JOB NO.	1704
SHEET	IR-502
24 OF 24 SHEETS	

ENG-18-0215