1 OVERALL TRAIL PLAN

0 60 120 240

SCALE: 1 = 120'

NORTH

3/20/2024 8:50 AM | L:\HILLVIEW_SUBDIV\BIMCAD\Land\Arch\HILLVIEW_SUBDIV_L100.dwg

LEGEND

HIGH LOW LOOP

CREST LOOP

RANGE LOOP

2 1-MILE TRAIL LOOPS

0 250 500 1000

SCALE: 1 = 500'

NORTH

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

05.10.2024
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REVISIONS
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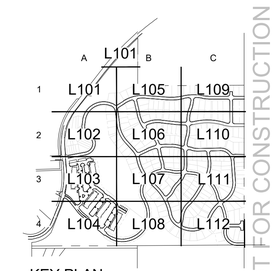

KEY PLAN

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

OVERALL TRAIL PLAN

L100

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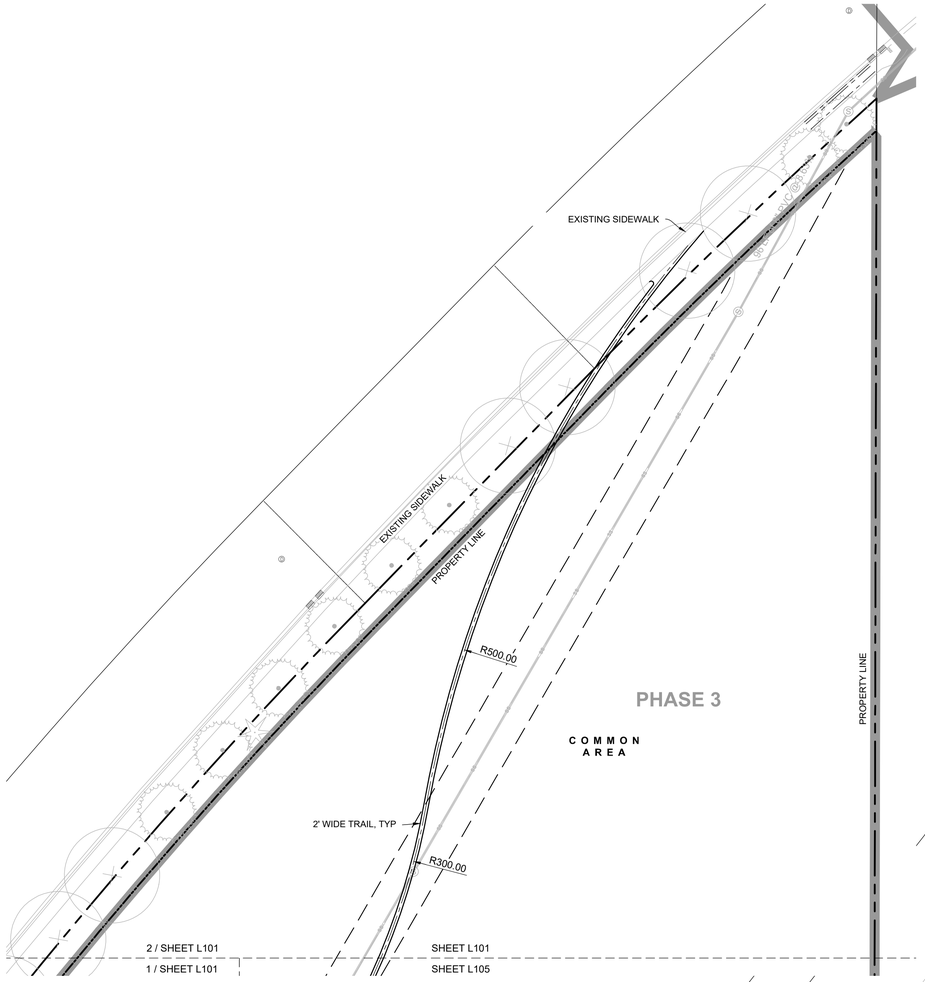
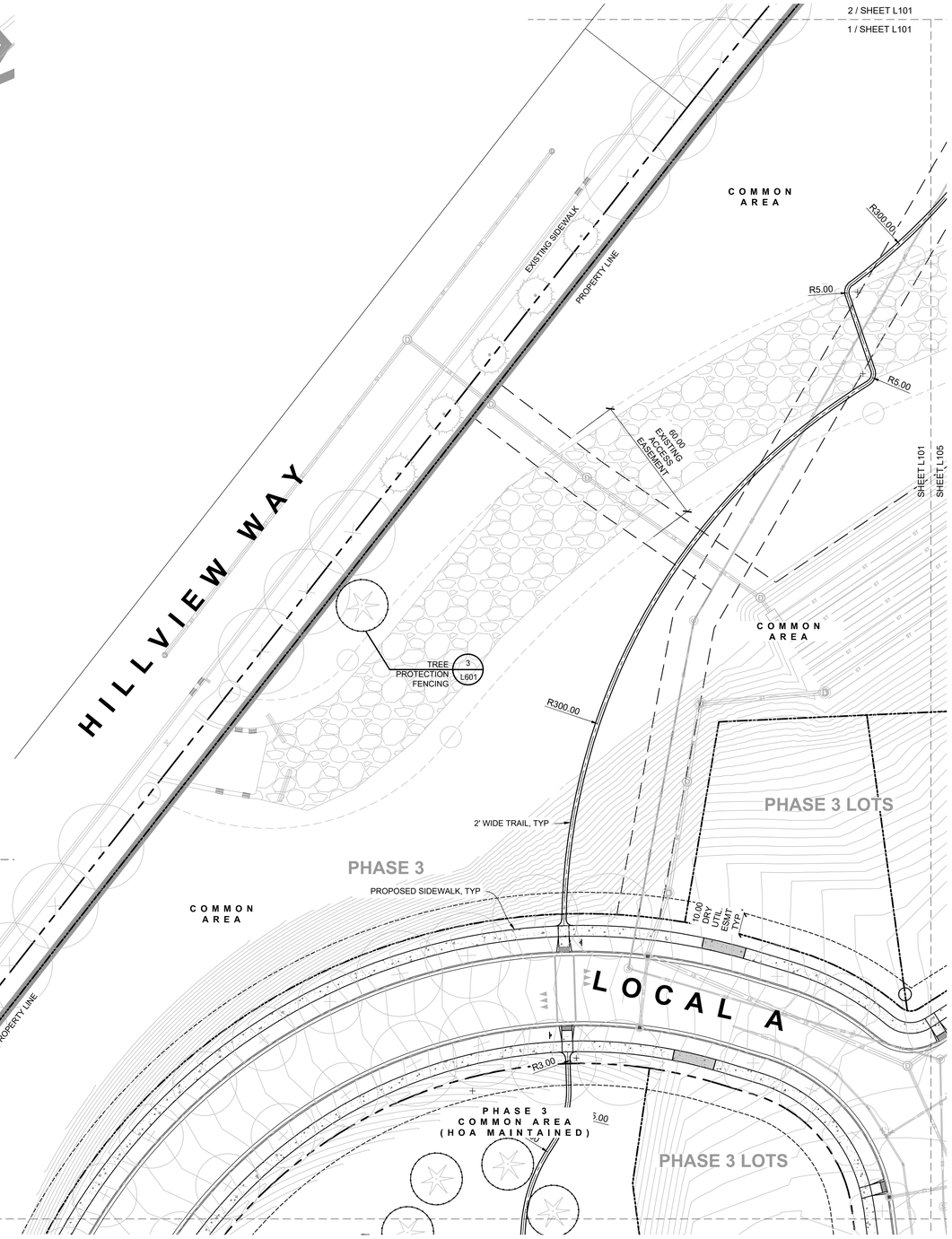
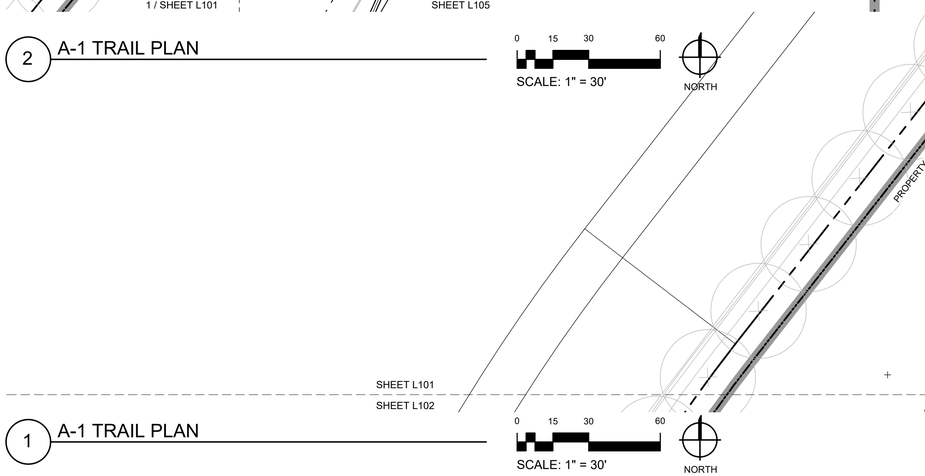


2 A-1 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH



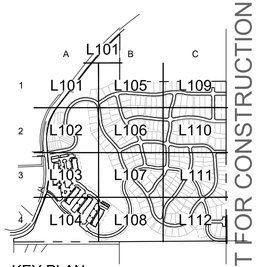


1 A-1 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

TRAIL LEGEND

- TRAIL CENTER LINE
- 2-FOOT WIDE TRAIL



KEY PLAN

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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A-1 TRAIL PLAN

L101

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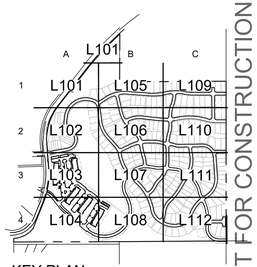
1 A-2 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

TRAIL LEGEND

- TRAIL CENTER LINE
- 2-FOOT WIDE TRAIL



KEY PLAN

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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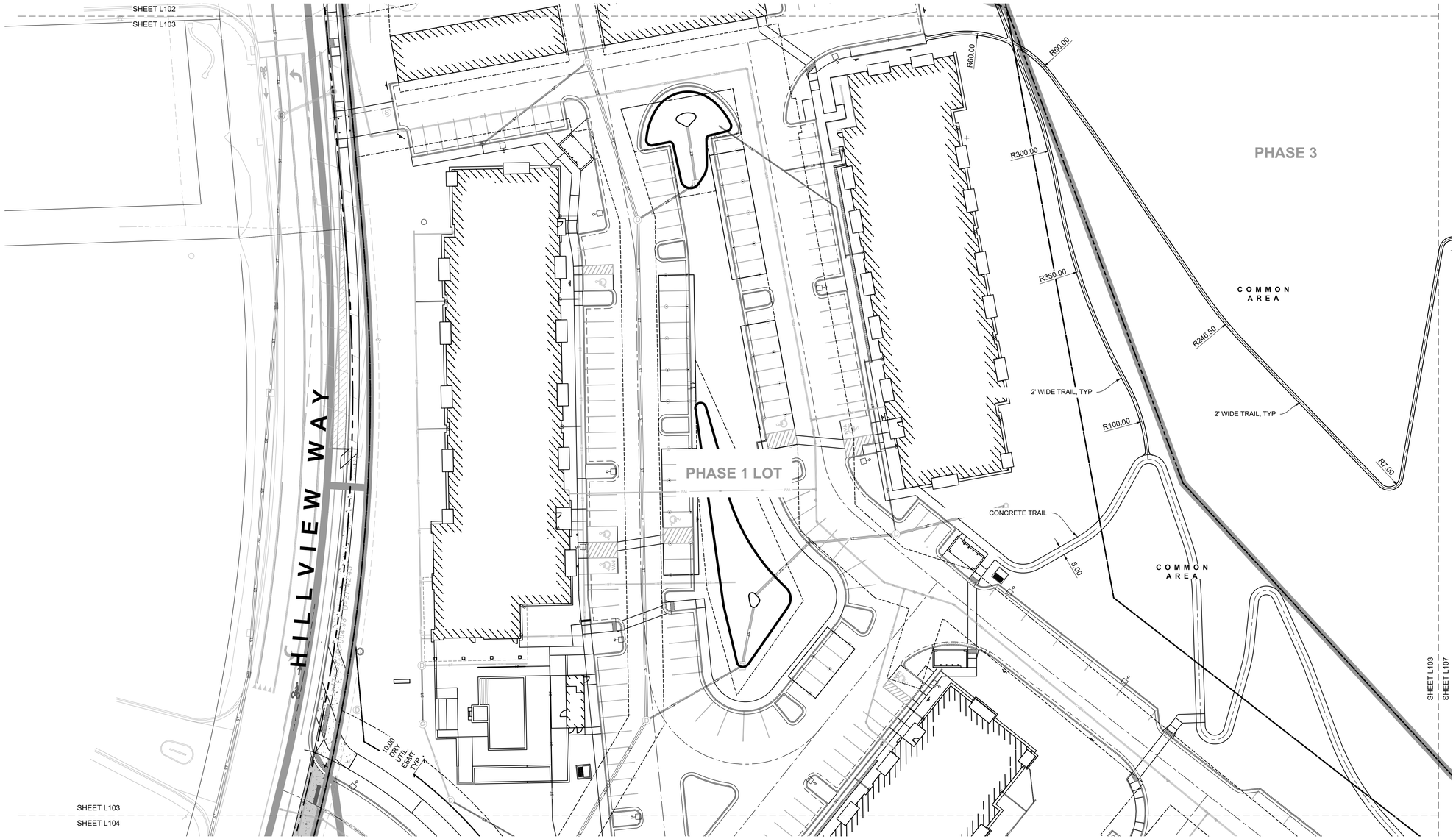
A-2 TRAIL PLAN

L102

3/20/2024 8:53 AM | L:\HILLVIEW_SUBDIV\BIMCAD\LandArch\HILLVIEW_SUBDIV_L100.dwg



1 A-3 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

TRAIL LEGEND

TRAIL CENTER LINE
2-FOOT WIDE TRAIL

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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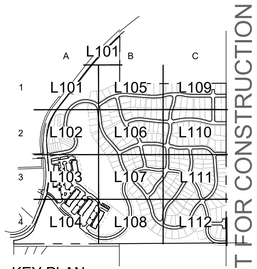

KEY PLAN

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A-3 TRAIL PLAN

L103

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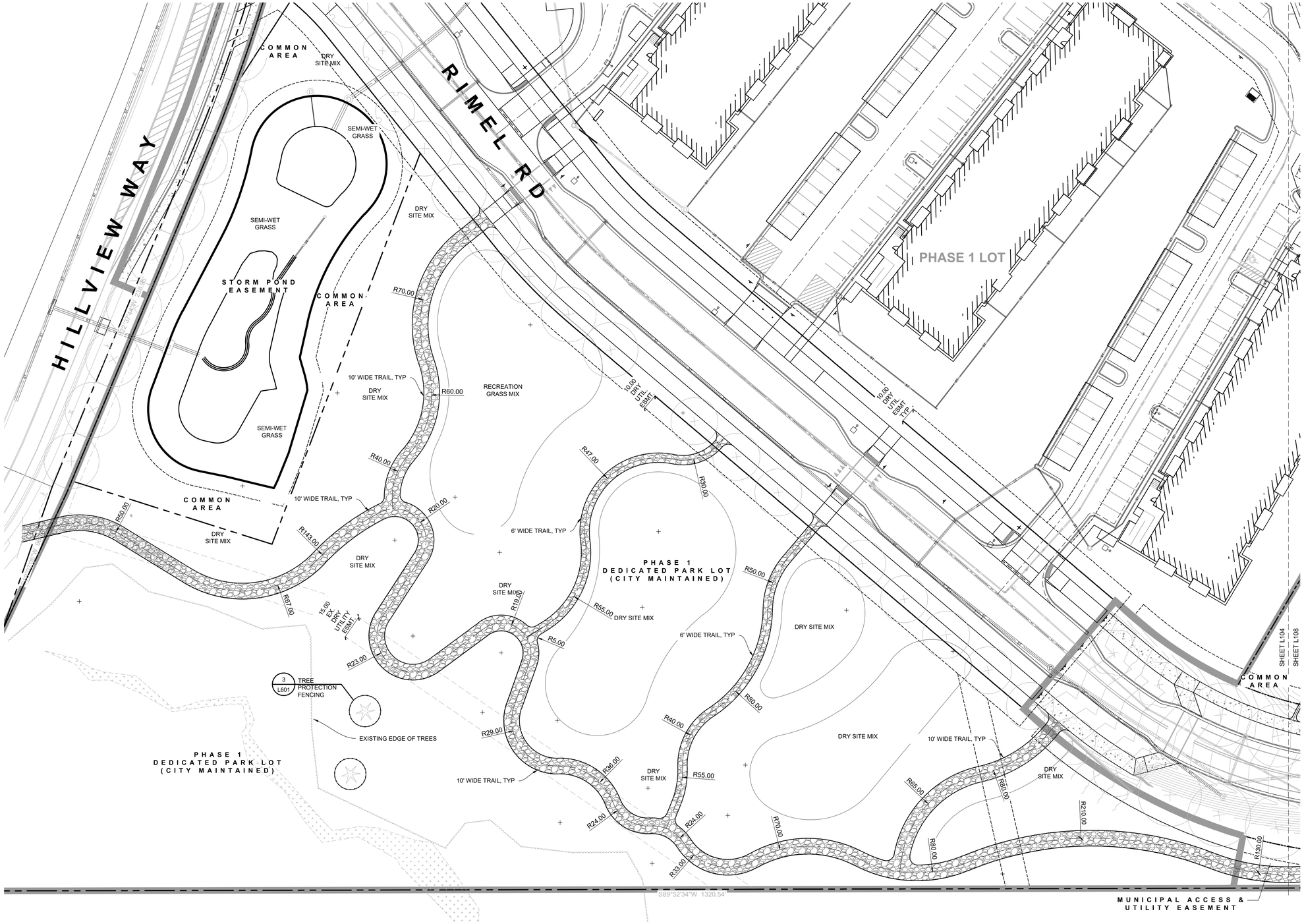
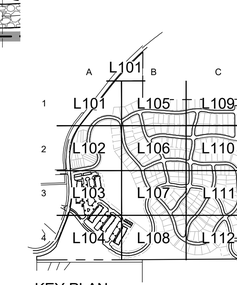


1 A-4 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

TRAIL LEGEND

- TRAIL CENTER LINE
- 2-FOOT WIDE TRAIL
- 6-FOOT WIDE TRAIL
- 10-FOOT WIDE TRAIL



KEY PLAN

HLLVIEW WAY
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WILDROOT

PRELIMINARY PLAT

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A-4 TRAIL PLAN

L104

3/20/2024 9:09 AM | L:\HILLVIEW_SUBDIV\BIMCAD\LandArch\HILLVIEW_SUBDIV_L100.dwg

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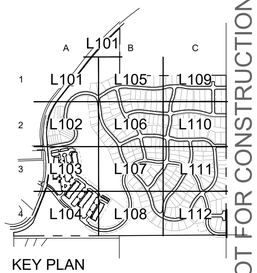
1 B-1 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

TRAIL LEGEND

TRAIL CENTER LINE
2-FOOT WIDE TRAIL



KEY PLAN

HILLVIEW WAY
MISSOULA, MONTANA
WILDROOT

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PRELIMINARY PLAT

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B-1 TRAIL PLAN

L105

3/20/2024 9:04 AM | L:\HILLVIEW_SUBDIV\BIMCAD\LandArch\HILLVIEW_SUBDIV_L100.dwg

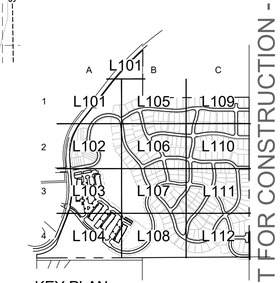
1 B-2 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

TRAIL LEGEND

TRAIL CENTER LINE
2-FOOT WIDE TRAIL



KEY PLAN

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HLLVIEW WAY
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WILDROOT

PRELIMINARY PLAT

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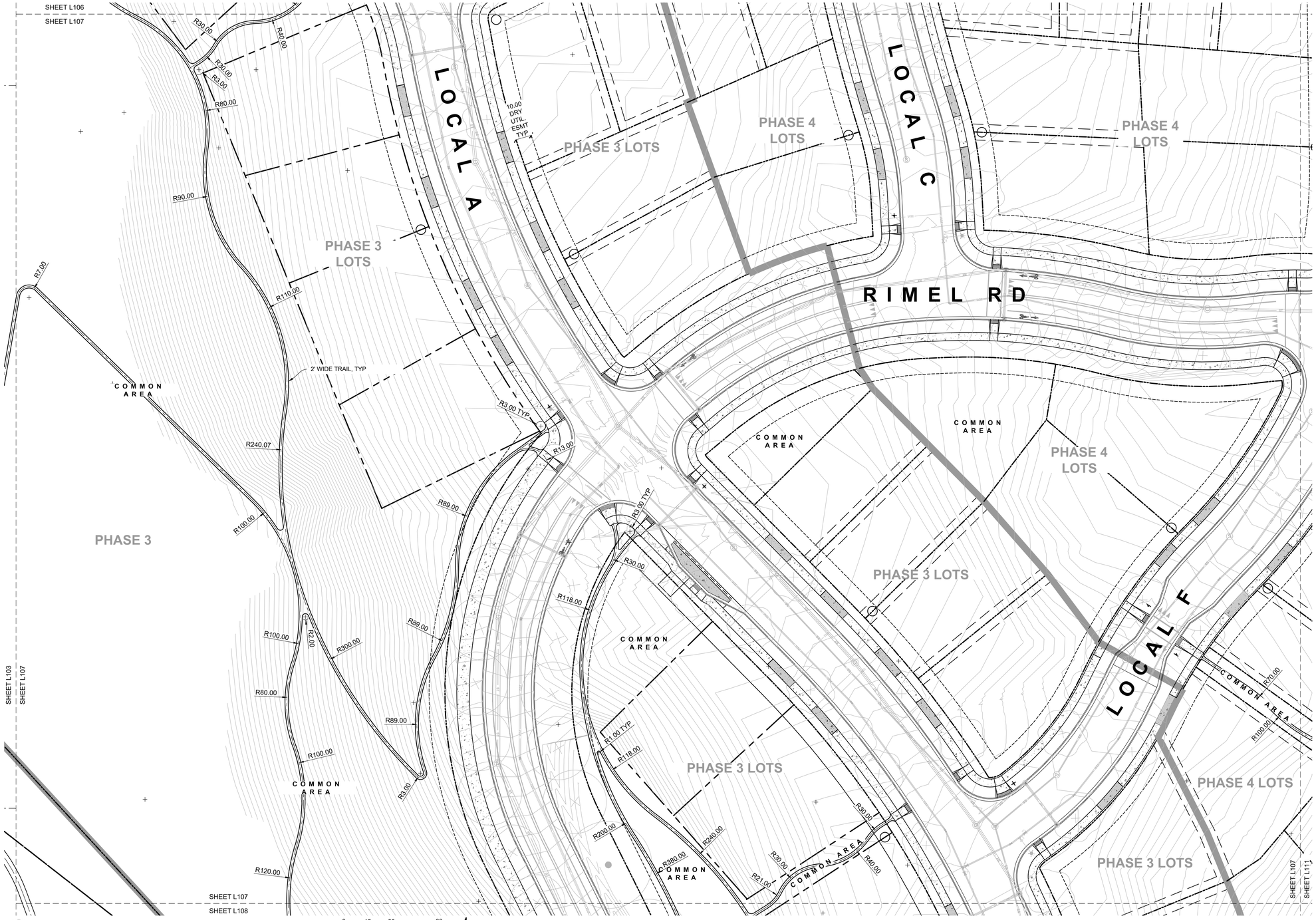
B-2 TRAIL PLAN

L106

3/20/2024 8:57 AM | L:\HILLVIEW_SUBDIV\BIMCAD\LandArch\HILLVIEW_SUBDIV_L100.dwg



1 B-3 TRAIL PLAN

0 15 30 60

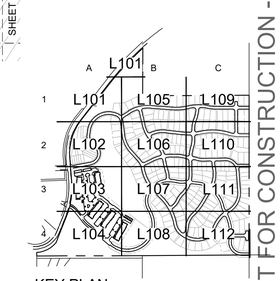
SCALE: 1" = 30'

NORTH

TRAIL LEGEND

TRAIL CENTER LINE

2-FOOT WIDE TRAIL



KEY PLAN

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HILLVIEW WAY
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WILDROOT

PRELIMINARY PLAT

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B-3 TRAIL PLAN

L107

3/20/2024 9:24 AM | L:\HILLVIEW_SUBDIV\BIMCAD\Land\Arch\HILLVIEW_SUBDIV_L100.dwg

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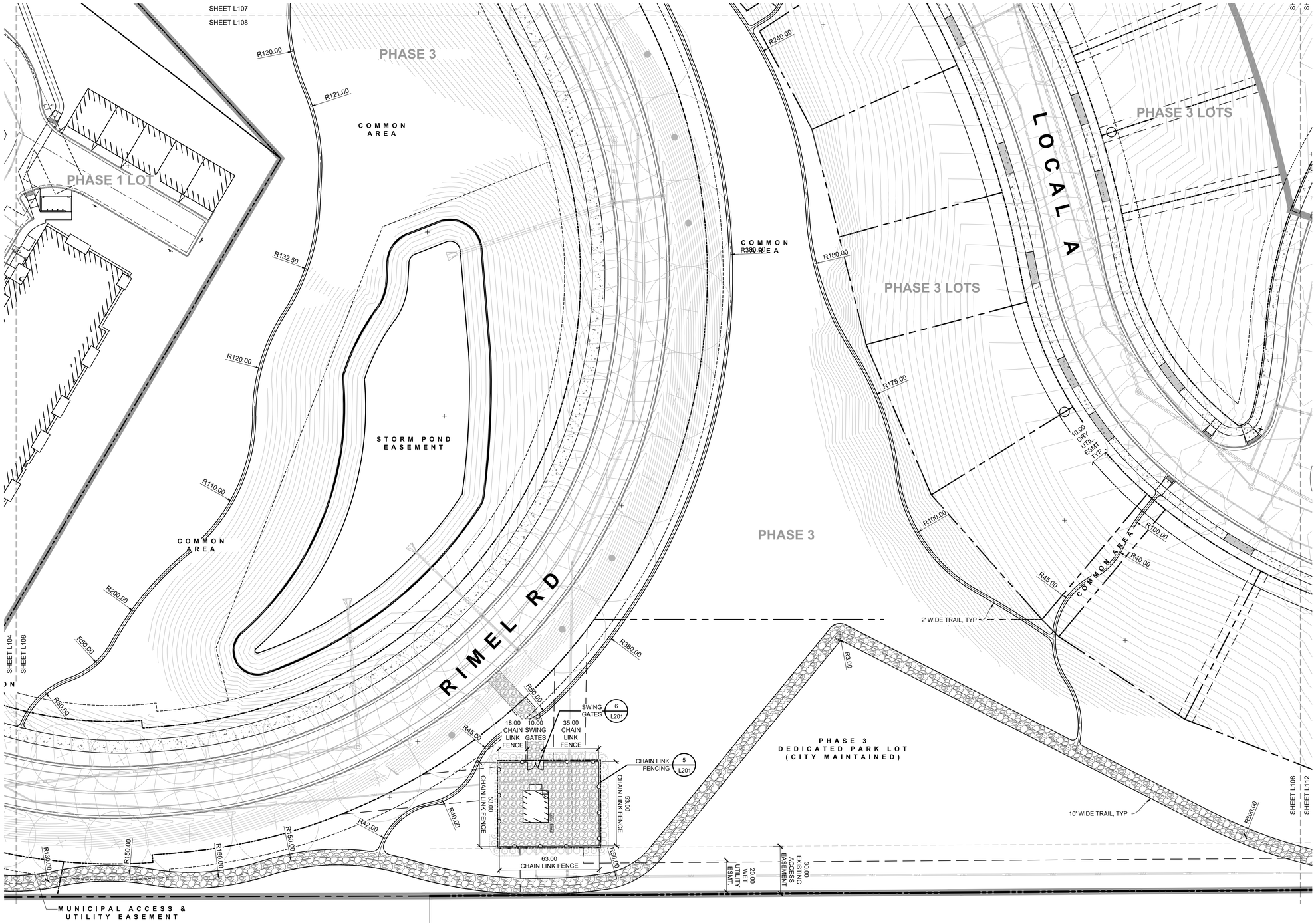
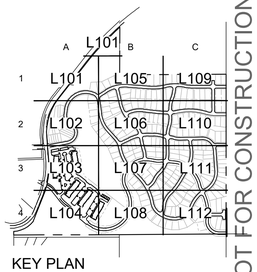


1 B-4 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

TRAIL LEGEND

- TRAIL CENTER LINE
- 2-FOOT WIDE TRAIL
- 10-FOOT WIDE TRAIL



KEY PLAN

HILLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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B-4 TRAIL PLAN

L108

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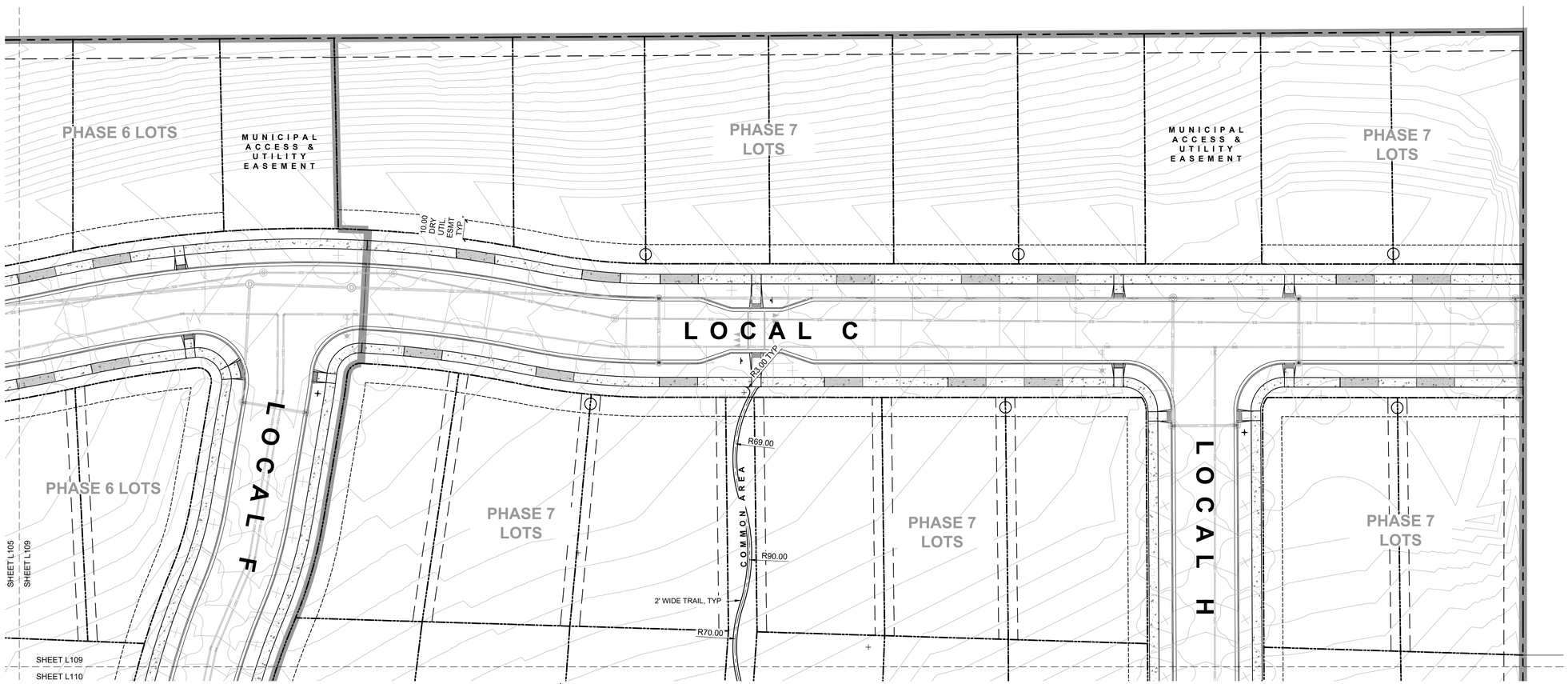


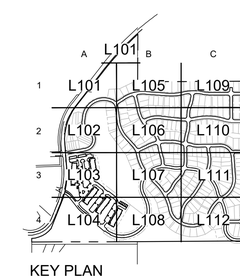
1 C-1 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

TRAIL LEGEND

TRAIL CENTER LINE
2-FOOT WIDE TRAIL



KEY PLAN

HILLVIEW WAY
MISSOULA, MONTANA
WILDROOT

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PRELIMINARY PLAT

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C-1 TRAIL PLAN

L109

3/20/2024 9:07 AM | L:\HILLVIEW_SUBDIV\BIMCAD\Land\Arch\HILLVIEW_SUBDIV_L100.dwg

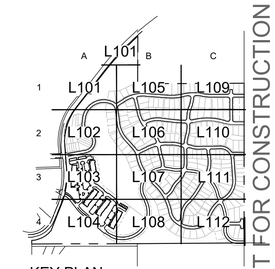
1 C-2 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

TRAIL LEGEND

TRAIL CENTER LINE
2-FOOT WIDE TRAIL



KEY PLAN

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HILLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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C-2 TRAIL PLAN

L110

3/20/2024 9:12 AM | L:\HILLVIEW_SUBDIV\BIMCAD\LandArch\HILLVIEW_SUBDIV_L100.dwg

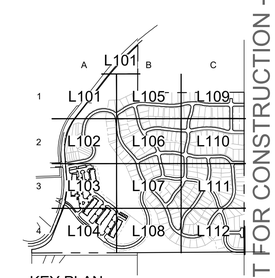
1 C-3 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

TRAIL LEGEND

TRAIL CENTER LINE
2-FOOT WIDE TRAIL



KEY PLAN

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WILDROOT

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C-3 TRAIL PLAN

L111

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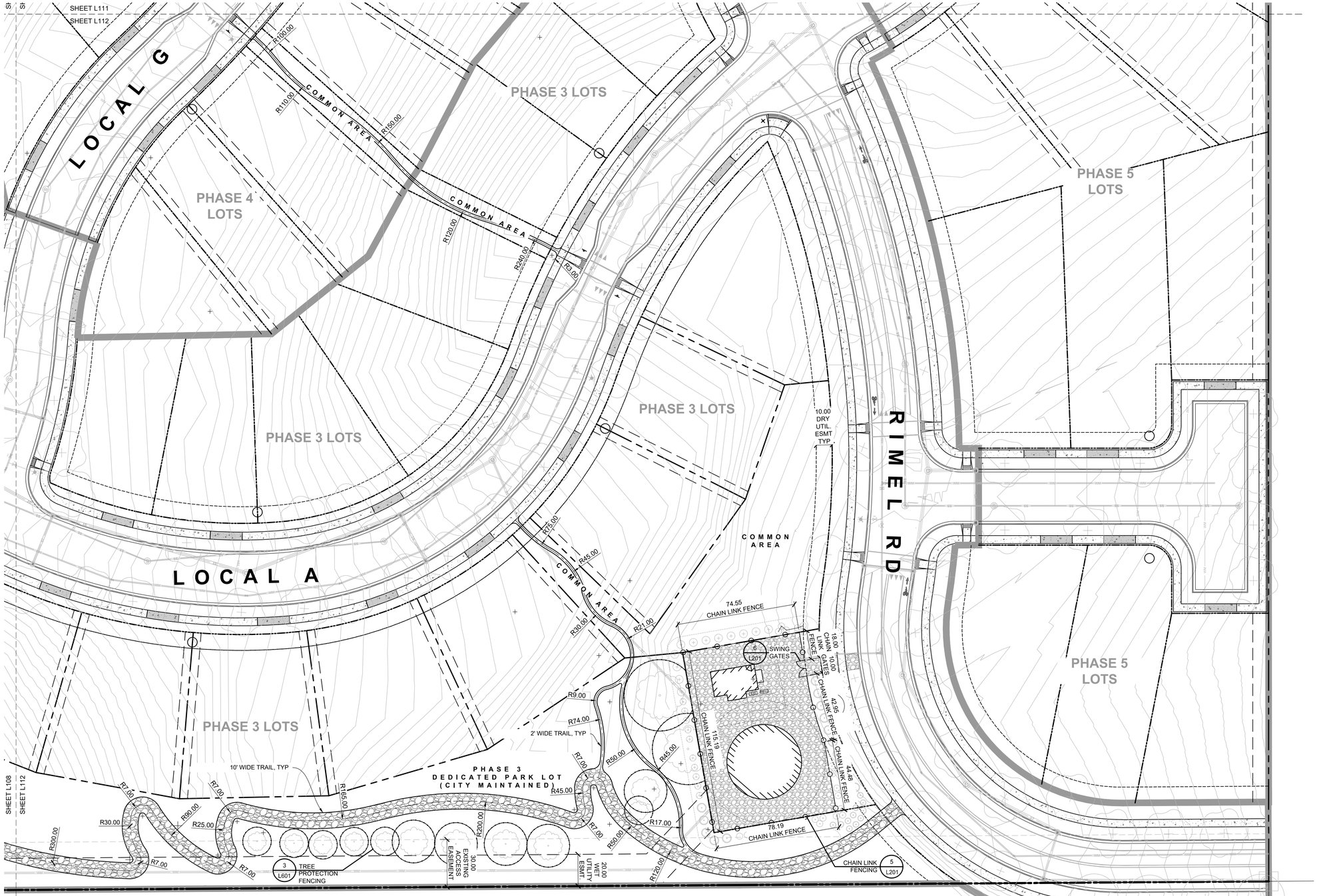


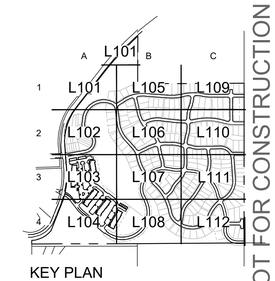
1 C-4 TRAIL PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

TRAIL LEGEND

- TRAIL CENTER LINE
- 2-FOOT WIDE TRAIL
- 10-FOOT WIDE TRAIL



KEY PLAN

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PRELIMINARY PLAT

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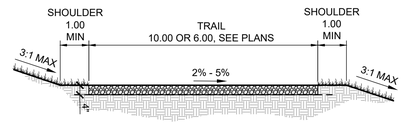
C-4 TRAIL PLAN

L112

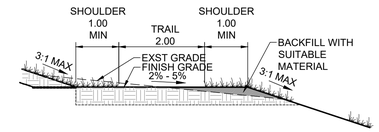
3/20/2024 8:59 AM | L:\HILLVIEW_SUBDIV\BIMCAD\LandArch\HILLVIEW_SUBDIV_L100.dwg



NOTES:
1. GRADE SLOPES PER MISSOULA CONSERVATION LANDS MANAGEMENT PLAN PAGE 74, TABLE 5-1 'HIKER' CATEGORY:
   1.1. TARGET RUNNING SLOPE: DESIRABLE 1-10% , MAX 20%.
   1.2. TARGET CROSS SLOPE: 3-7%, MAX 10%.
2. INSTALL PER CITY OF MISSOULA PARKS AND RECREATION:
   2.1. DETAIL # PR-122-1 NON STABILIZED TRAIL
   2.2. DESIGN MANUAL, CURRENT EDITION TO INCLUDE, BUT NOT LIMITED TO MATERIAL SPECIFICATIONS, AND INSTALLATION REQUIREMENTS.
3. CRUSHED AGGREGATE TO BE 3/4" CRUSHED FINES PER CITY AND AS FOLLOWS:
   3.1. 3/4" SIEVE - 100% PASSING
   3.2. #4 SIEVE - 40-70% PASSING. PORTION MUST BE WELL GRADED.
   3.3. #10 SIEVE - 25-55% PASSING
   3.4. #200 SIEVE - 2-10% PASSING. MAXIMUM 40% OF PORTIONS PASSING # 40 SIEVE, PLASTICITY INDEX 6 OR LESS, PER AASHTO T89 & T90.
4. COMPACT TO SUBGRADE AND AGGREGATE TO 95% PROCTOR DENSITY.
5. SOIL STERILANT PER CITY REQUIREMENTS.
6. SEE GRADING PLAN FOR ACTUAL SIDE, CROSS AND LONGITUDINAL SLOPES.
7. AMENDED TOPSOIL AND SEED DISTURBANCE PER LANDSCAPE PLAN AND NOTES.

1 GRANULAR TRAIL

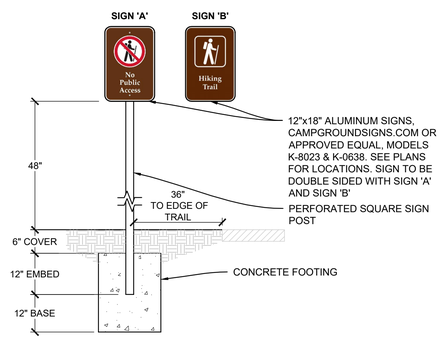
NOT TO SCALE



NOTES:
1. GRADE SLOPES PER MISSOULA CONSERVATION LANDS MANAGEMENT PLAN PAGE 74, TABLE 5-1 'HIKER' CATEGORY:
   1.1. TARGET RUNNING SLOPE: DESIRABLE 1-10% , MAX 20%.
   1.2. TARGET CROSS SLOPE: 3-7%, MAX 10%.
2. INSTALL PER U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE:
   2.1. DRAWING NO: STD_911-01 STANDARD TRAIL PLAN.
   2.2. STANDARD TRAIL PLANS AND SPECIFICATIONS.
3. REMOVE ANY ROOTS THAT PROTRUDE FROM THE BACKSLOPE.
4. REMOVE LOOSE ROCK ON THE TRAILBED GREATER THAN 1-1/2" DIAMETER.
5. IF EMBEDDED ROCK IS FOUND, CONTACT ENGINEER.
6. SLASH CONSISTS OF LOGS, LIMBS, BRUSH, AND ROCKS PLACED RANDOMLY IN A WAY TO CATCH SEDIMENT MOVEMENT.
7. SEE GRADING PLAN FOR ACTUAL SIDE, CROSS AND LONGITUDINAL SLOPES.
8. AMENDED TOPSOIL AND SEED DISTURBANCE PER LANDSCAPE PLAN AND NOTES.

2 STANDARD TRAIL

NOT TO SCALE

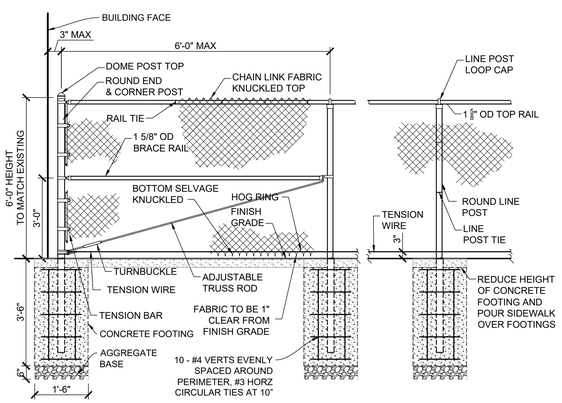


3 PRIVATE TRAIL JUNCTION SIGNS

NOT TO SCALE

4 NOT USED

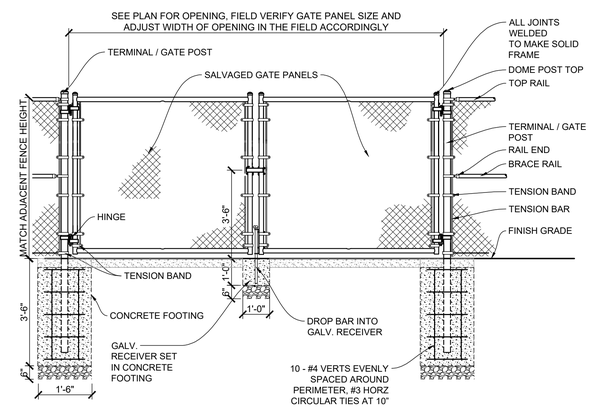
NOT TO SCALE



NOTES:
1. ALL COMPONENTS TO BE GALVANIZED AND HF20 FRAMEWORK. PROVIDE SHOP DRAWINGS PER SPECIFICATION 323113 'CHAIN LINK FENCES AND GATES.'
2. FABRIC TO BE 11 GAUGE, PER 323113 'CHAIN LINK FENCES AND GATES.'
3. HF20 2 1/2" OD FOR END AND CORNER POSTS, HF20 1 5/8" OD FOR LINE POSTS, HF20 1 3/8" FOR TOP RAILS

5 CHAIN LINK FENCE

NOT TO SCALE



NOTES:
1. ALL COMPONENTS TO BE GALVANIZED AND HF20 FRAMEWORK. PROVIDE SHOP DRAWINGS PER SPECIFICATION 323113 'CHAIN LINK FENCES AND GATES.'
2. HF20 2 1/2" OD FOR GATE POSTS.
3. VERIFY LOCK HARDWARE TYPE VIA SUBMITTAL.

6 SWING GATES

NOT TO SCALE

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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TRAIL DETAILS

L201

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1 OVERALL IRRIGATION PLAN

0 60 120 240
SCALE: 1 = 120'
NORTH

3/20/2024 10:14 AM | L:\HILLVIEW_SUBDIV\BIMCAD\Land\Arch\HILLVIEW_SUBDIV_L300.dwg

HLLVIEW WAY
MISSOULA, MONTANA
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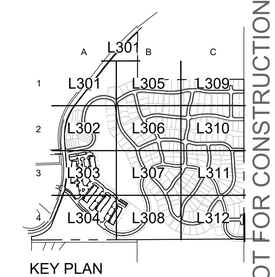

KEY PLAN

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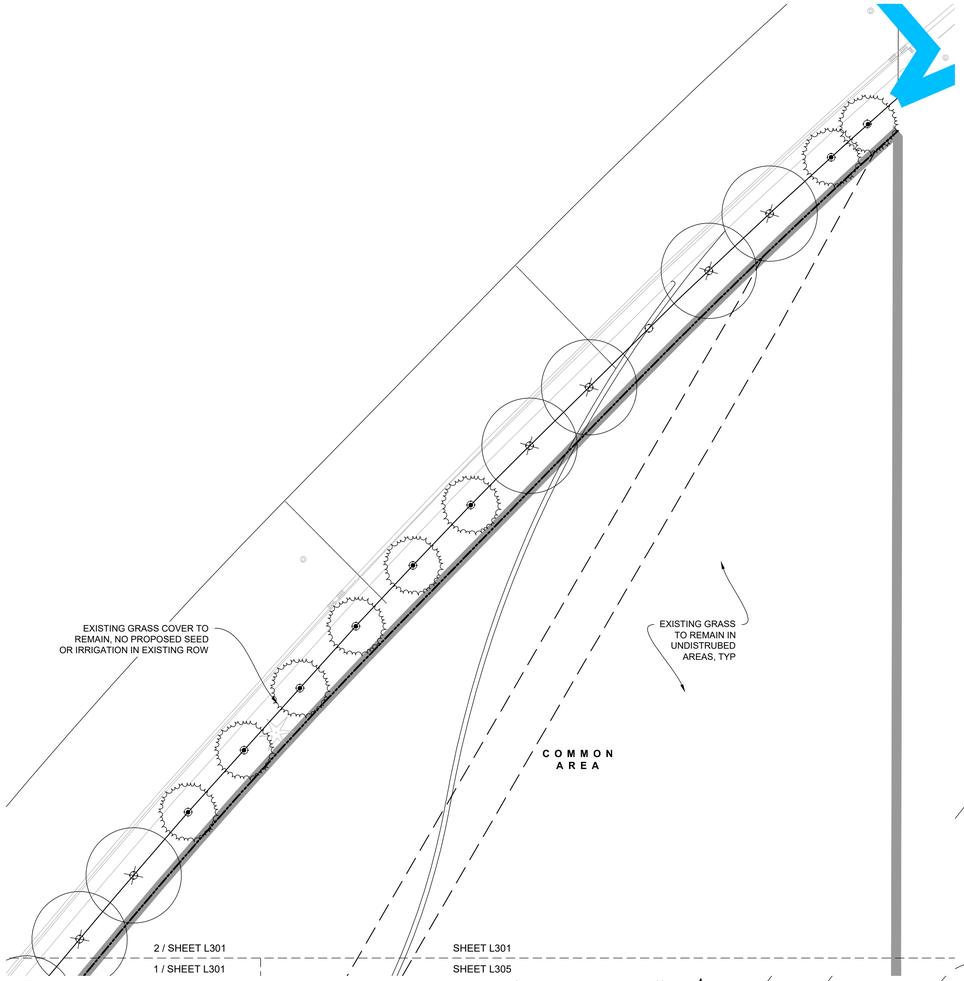
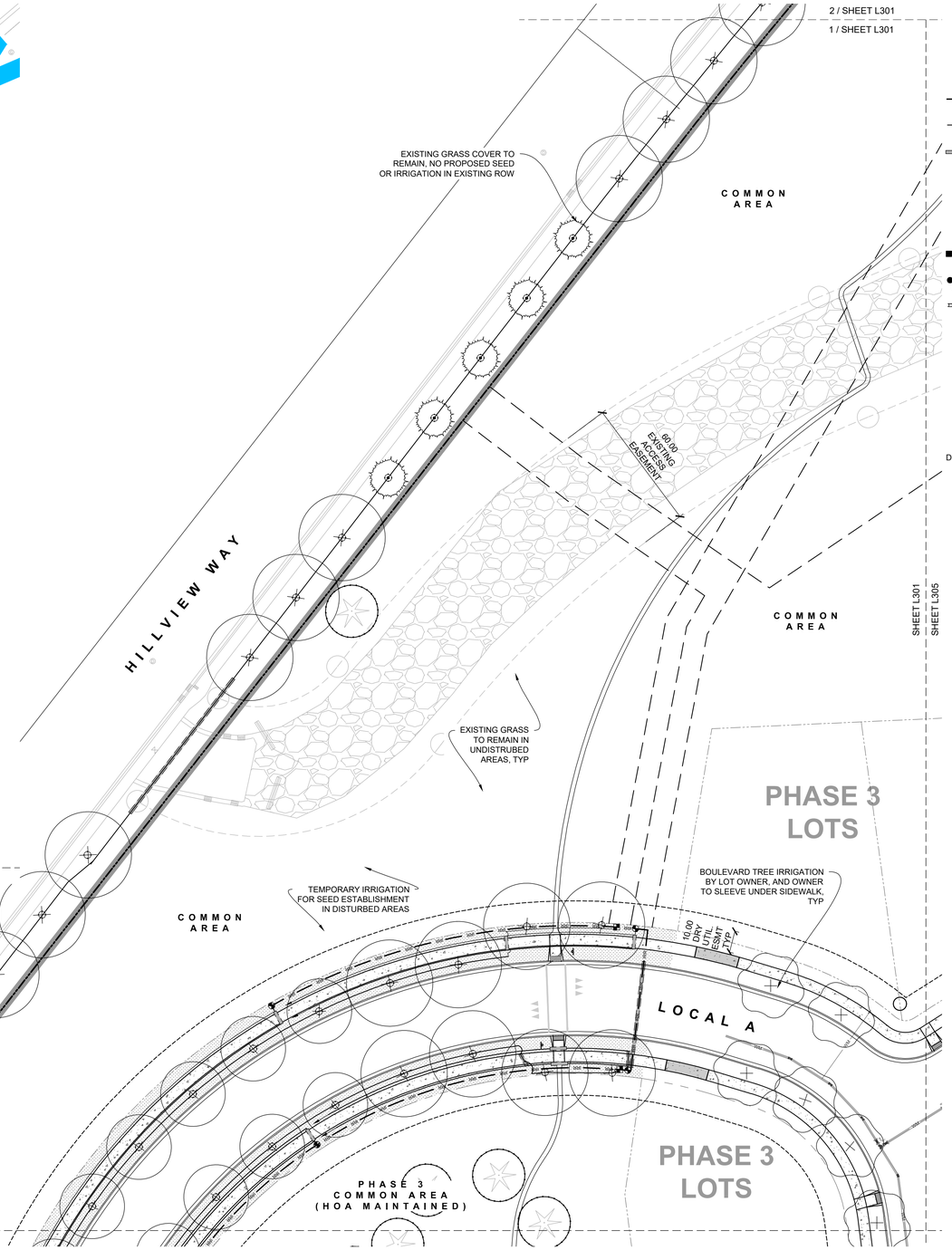
OVERALL IRRIGATION PLAN

L300



2 A-1 IRRIGATION PLAN

SCALE: 1" = 30'



1 A-1 IRRIGATION PLAN

SCALE: 1" = 30'

	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE

ZONE NUMBER

14.51 — ESTIMATED GPM FOR ZONE

1.5 — VALVE SIZE

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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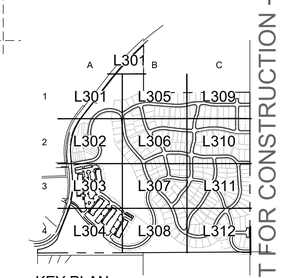

KEY PLAN

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A-1 IRRIGATION PLAN

L301

SHEET L301

SHEET L302

COMMON AREA

HOA MAINTAINED POC #3

APPROXIMATE HIGH POINT ON HILLVIEW WAY

ESTIMATED MANUAL DRAIN LOCATION, INSTALL AT LOWEST POINT ON MAIN LINE

ADDITIONAL SLEEVE FOR COM WIRES AT MAIN LINE PAVEMENT CROSSINGS, TYP

ISOLATION VALVES, TYP

CONTROLLER, SEE LEGEND

PRESSURE REDUCER AND BACKFLOW, SEE DETAIL L401

IRRIGATION METER PIT

PHASE 3 COMMON AREA (HOA MAINTAINED)

BOULEVARD TREE IRRIGATION BY LOT OWNER, AND OWNER TO SLEEVE UNDER SIDEWALK, TYP

TEMPORARY HYDROSEEDING PER SWPPP, SEE SWPPP DRAWINGS AND SPECIFICATIONS, ESTABLISHED VIA NATURAL PRECIPITATION ON LOTS, TYP

TEMPORARY IRRIGATION FOR SEED ESTABLISHMENT IN DISTURBED BOULEVARD AREAS OF LOT OWNERS, TYP

EXISTING GRASS TO REMAIN IN UNDISTRUBED AREAS, TYP

PHASE 3 LOTS

COMMON AREA

TEMPORARY IRRIGATION FOR SEED ESTABLISHMENT IN DISTURBED BOULEVARD AREAS OF LOT OWNERS, TYP

PERMANENT IRRIGATION FOR SEED ESTABLISHMENT IN DISTURBED BOULEVARD AREAS BY DEVELOPER, TYP

TEMPORARY HYDROSEEDING PER SWPPP, SEE SWPPP DRAWINGS AND SPECIFICATIONS, ESTABLISHED VIA NATURAL PRECIPITATION FOR COMMON AREA AREAS, TYP

HILLVIEW WAY

ALLEY

LOCAL A

PHASE 2 LOTS

COMMON AREA

TEMPORARY HYDROSEEDING PER SWPPP, SEE SWPPP DRAWINGS AND SPECIFICATIONS, ESTABLISHED VIA NATURAL PRECIPITATION ON LOTS, TYP

ALLEY

10.08 DRY UTILITY EASMT TYP

EXISTING GRASS TO REMAIN IN UNDISTRUBED AREAS, TYP

TEMPORARY IRRIGATION FOR SEED ESTABLISHMENT IN DISTURBED BOULEVARD AREAS OF LOT OWNERS, TYP

COMMON AREA

COMMON AREA

CLEARVIEW WAY

SHEET L302

SHEET L306

SHEET L302

SHEET L303

1 A-2 IRRIGATION PLAN

0 15 30 60

SCALE: 1" = 30'

NORTH

	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE

ZONE NUMBER

14.5 GPM

ESTIMATED GPM FOR ZONE

1.5"

VALVE SIZE

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HLLVIEW WAY
MISSOULA, MONTANA

WILDROOT

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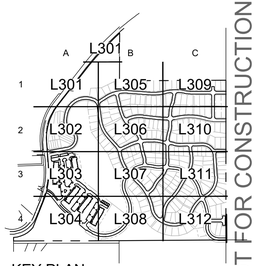

KEY PLAN

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

A-2 IRRIGATION PLAN

L302

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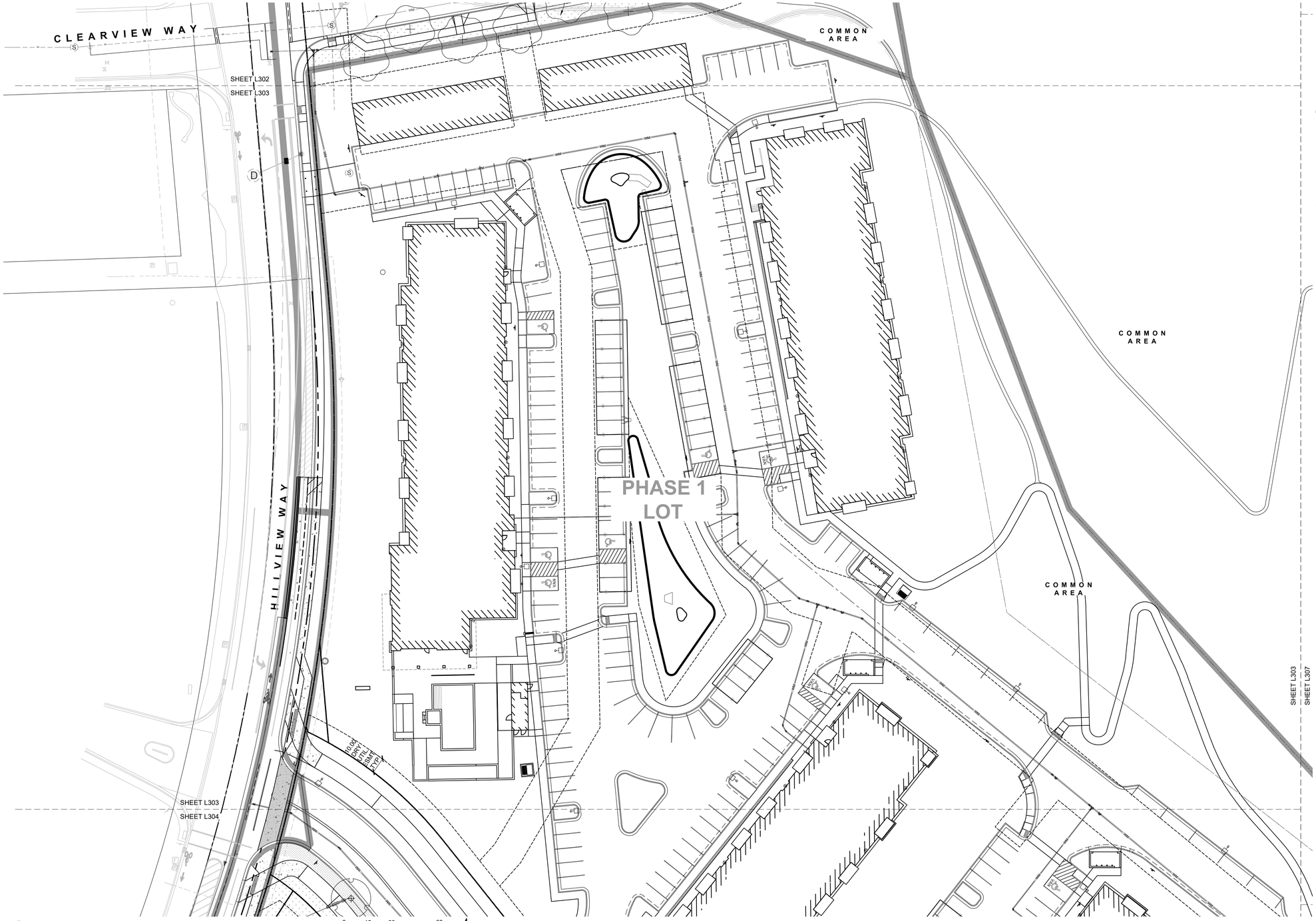


1 A-3 IRRIGATION PLAN

0 15 30 60

SCALE: 1" = 30'

NORTH

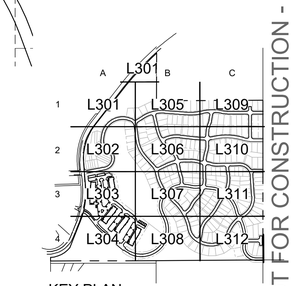
	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE

ZONE NUMBER

14.51 — ESTIMATED GPM FOR ZONE

1.5C — VALVE SIZE



KEY PLAN

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

PRELIMINARY PLAT

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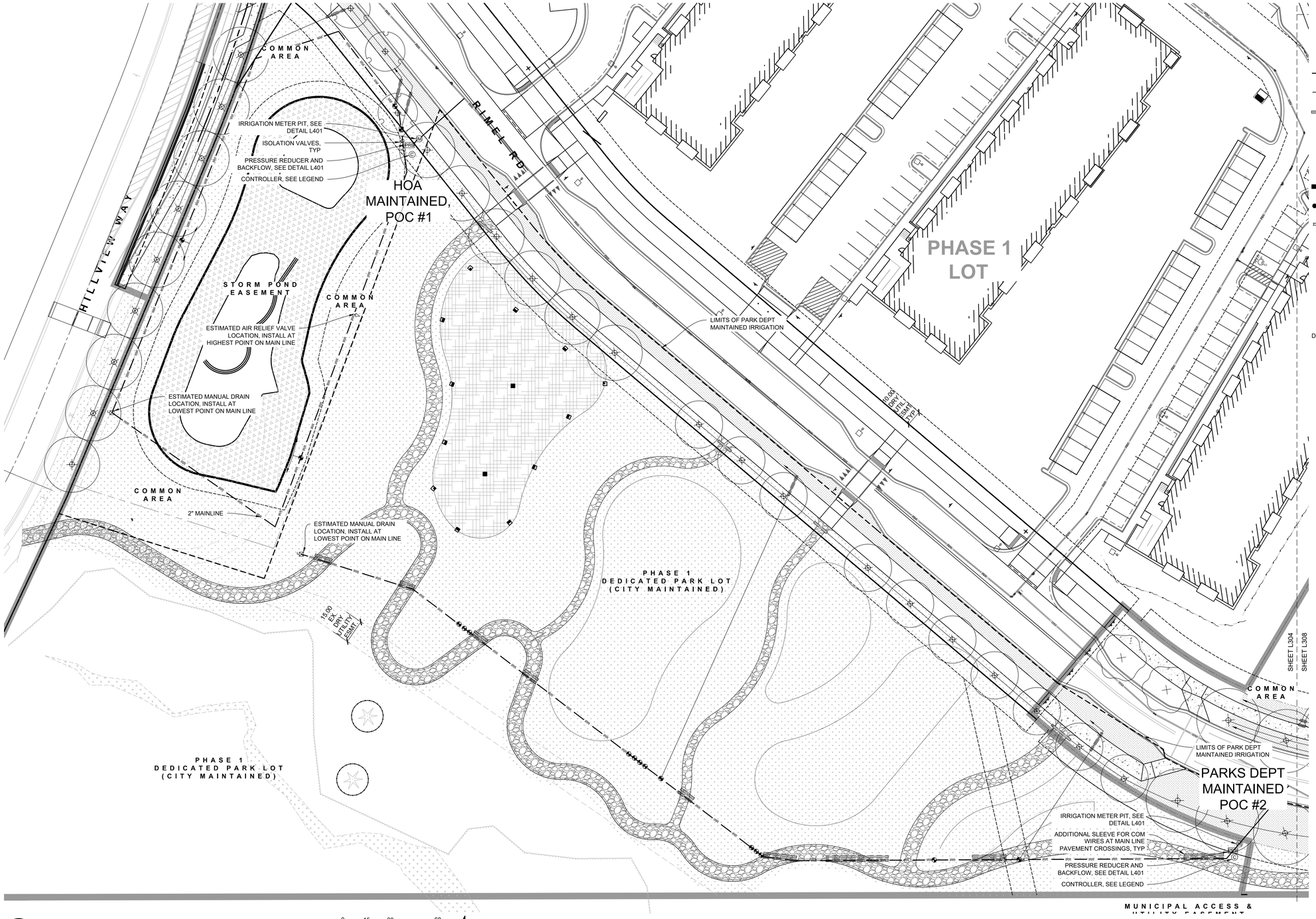
A-3 IRRIGATION PLAN

L303



1 A-4 IRRIGATION PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

DESCRIPTION	DET.	SHT.
CONTROLLER RAINBIRD ESP-LXME2 PRO		
IRRIGATION METER PIT	1	L401
PRESSURE REDUCER & BACKFLOW	2	L401
NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
LATERAL LINE SCH 40 PVC	3 - 5	L401
SLEEVE 2" SCH 40 PVC	4 - 5	L401
DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
TURF CONTROL VALVE RAINBIRD PEB	6	L401
QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
POP UP ROTOR RAINBIRD 8005	2	L402
POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
SUBTERRANEAN TREE DRIP	4	L402
ISOLATION BALL VALVE LINE SIZE		
MANUAL DRAIN		
AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE
ZONE NUMBER
14.5
1.5
ESTIMATED GPM FOR ZONE
VALVE SIZE

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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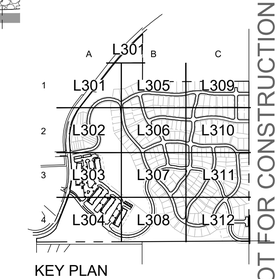

KEY PLAN

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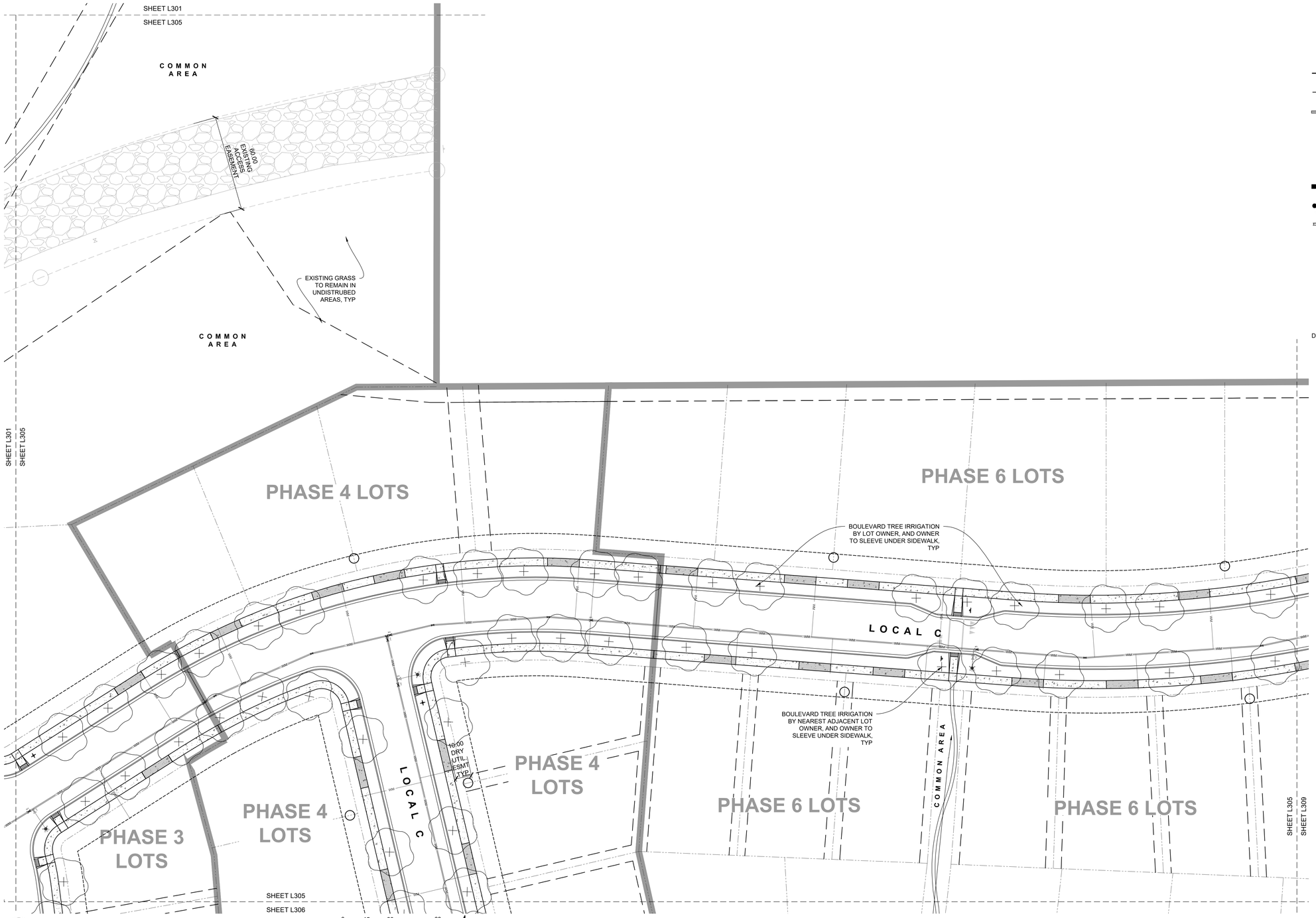
A-4 IRRIGATION PLAN

L304



1 B-1 IRRIGATION PLAN

0 15 30 60

SCALE: 1" = 30'

NORTH

	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE

ZONE NUMBER

14.51 — ESTIMATED GPM FOR ZONE

1.5 — VALVE SIZE

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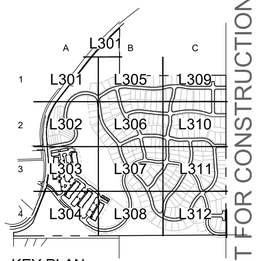

KEY PLAN

HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

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B-1 IRRIGATION PLAN

L305

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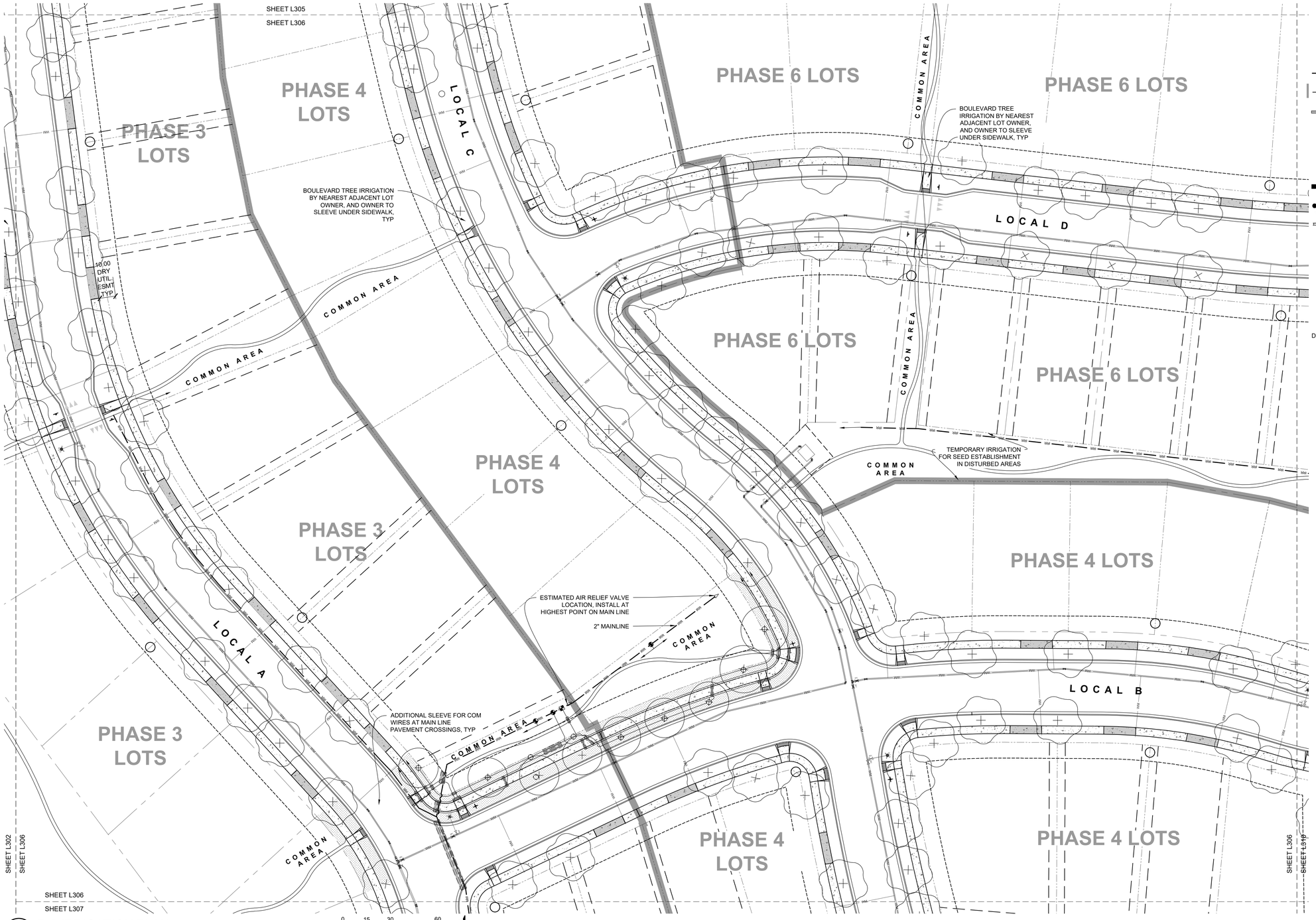

1 B-2 IRRIGATION PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE
ZONE NUMBER
14.5
1.5
ESTIMATED GPM FOR ZONE
VALVE SIZE

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HLLVIEW WAY
MISSOULA, MONTANA
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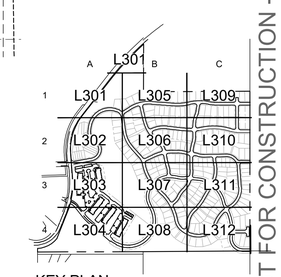

KEY PLAN

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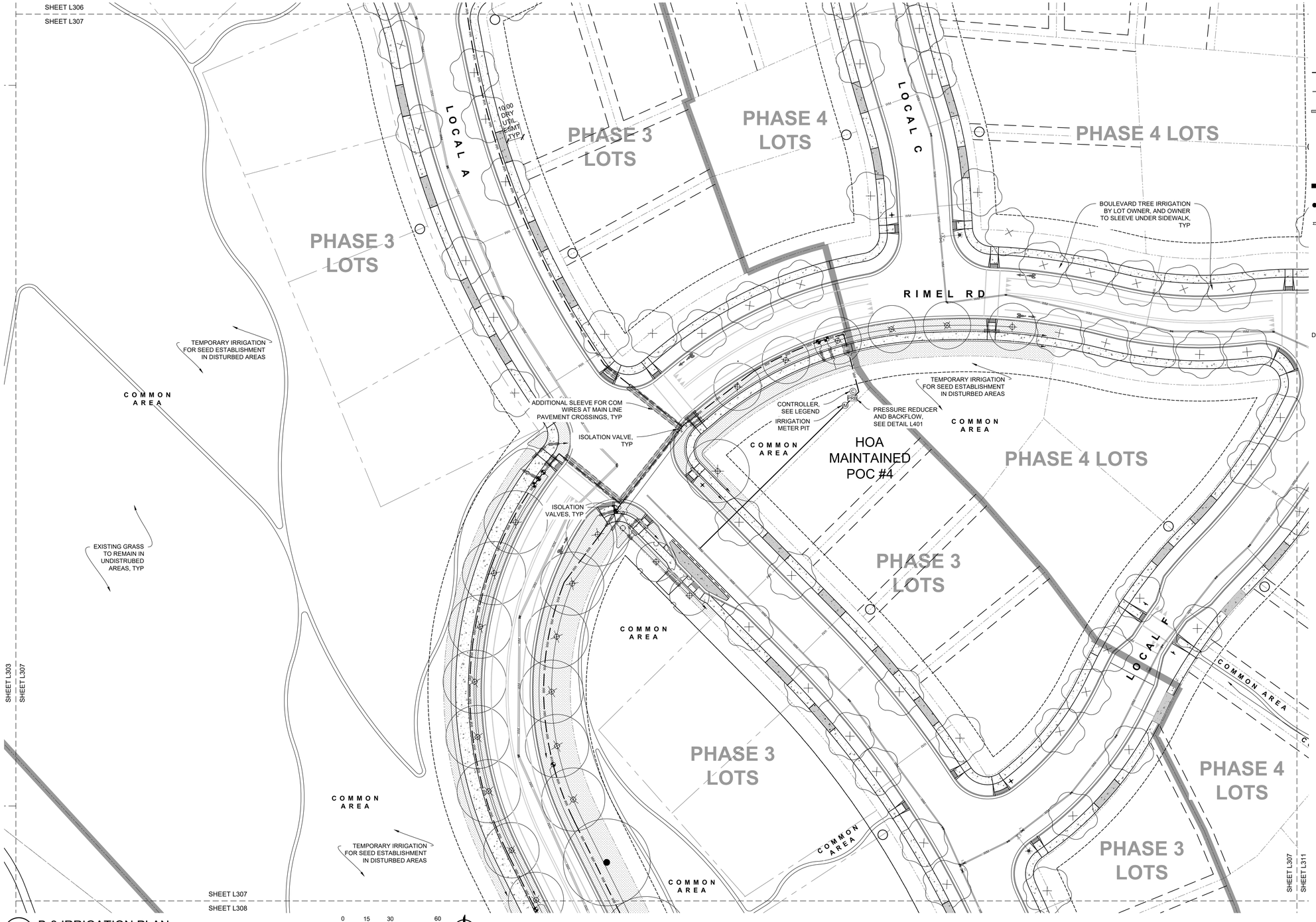
B-2 IRRIGATION PLAN

L306

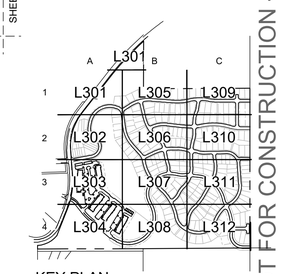


1 B-3 IRRIGATION PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE
ZONE NUMBER
14.5
1.5
ESTIMATED GPM FOR ZONE
VALVE SIZE



KEY PLAN

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WILDROOT

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B-3 IRRIGATION PLAN

L307

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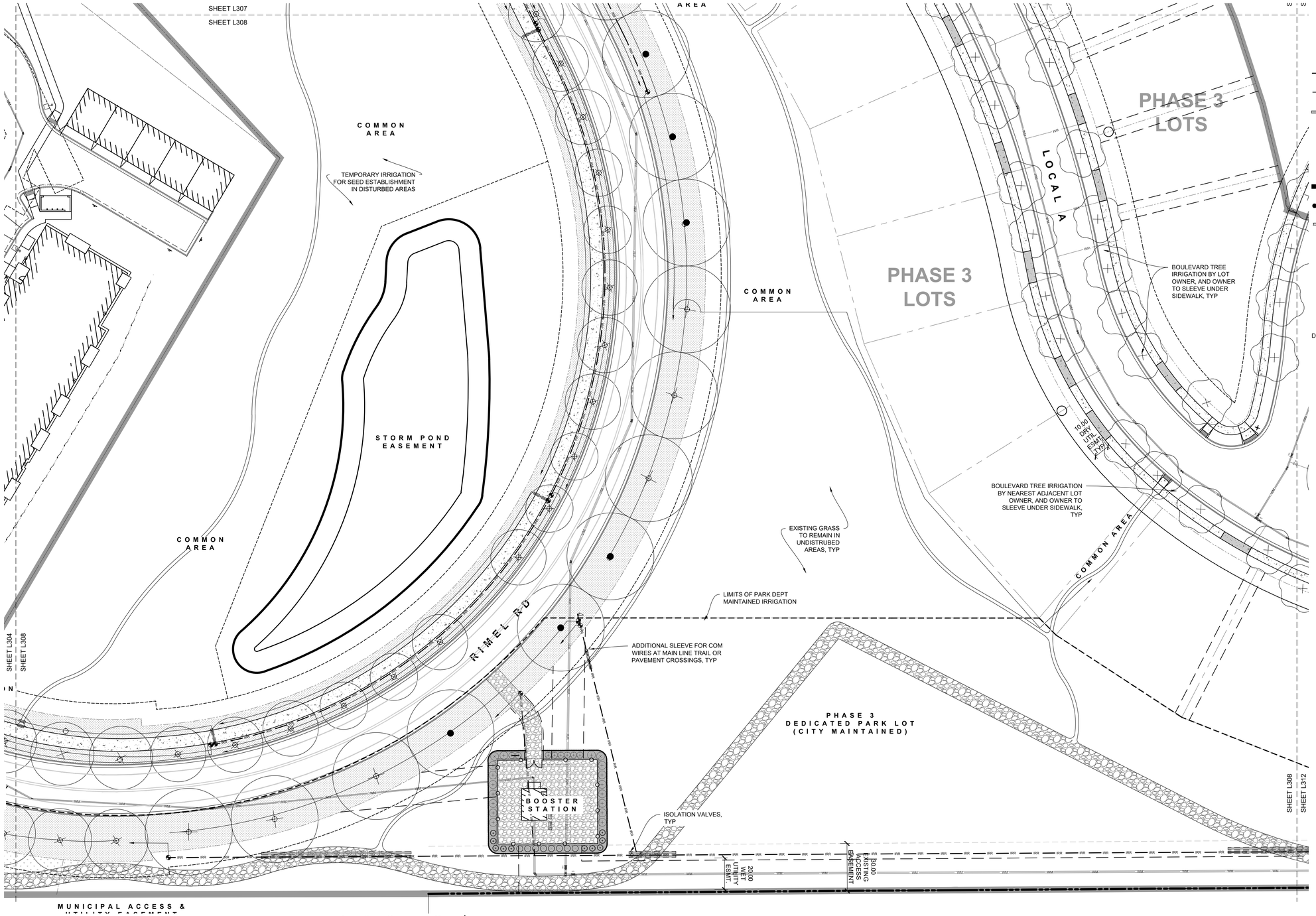

1 B-4 IRRIGATION PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

DESCRIPTION	DET.	SHT.
CONTROLLER RAINBIRD ESP-LXME2 PRO		
IRRIGATION METER PIT	1	L401
PRESSURE REDUCER & BACKFLOW	2	L401
NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
LATERAL LINE SCH 40 PVC	3 - 5	L401
SLEEVE 2" SCH 40 PVC	4 - 5	L401
DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
TURF CONTROL VALVE RAINBIRD PEB	6	L401
QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
POP UP ROTOR RAINBIRD 8005	2	L402
POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
SUBTERRANEAN TREE DRIP	4	L402
ISOLATION BALL VALVE LINE SIZE		
MANUAL DRAIN		
AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE
ZONE NUMBER
14.51 ESTIMATED GPM FOR ZONE
1.5 VALVE SIZE

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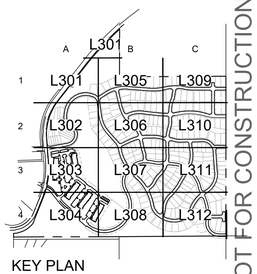

KEY PLAN

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B-4 IRRIGATION PLAN

L308

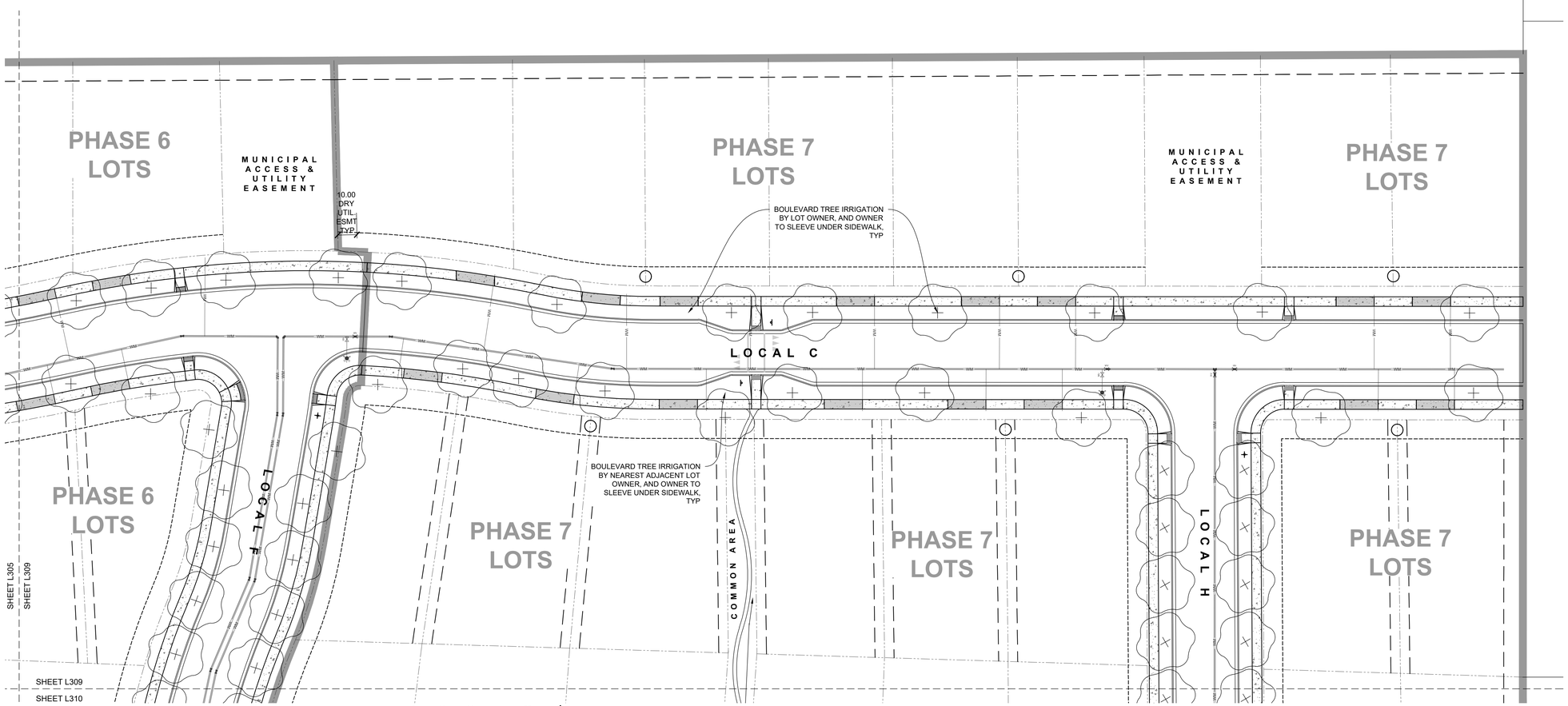
	DESCRIPTION	DET.	SHT.
○	CONTROLLER RAINBIRD ESP-LXME2 PRO		
○	IRRIGATION METER PIT	1	L401
▭	PRESSURE REDUCER & BACKFLOW	2	L401
—IRR—	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
———	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE

ZONE NUMBER

14.5 — ESTIMATED GPM FOR ZONE

1.5 — VALVE SIZE

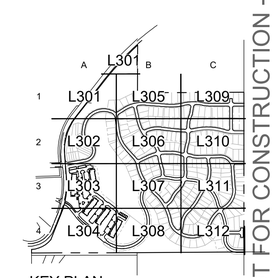


1 C-1 IRRIGATION PLAN

0 15 30 60

SCALE: 1" = 30'

NORTH



KEY PLAN

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C-1 IRRIGATION PLAN

L309

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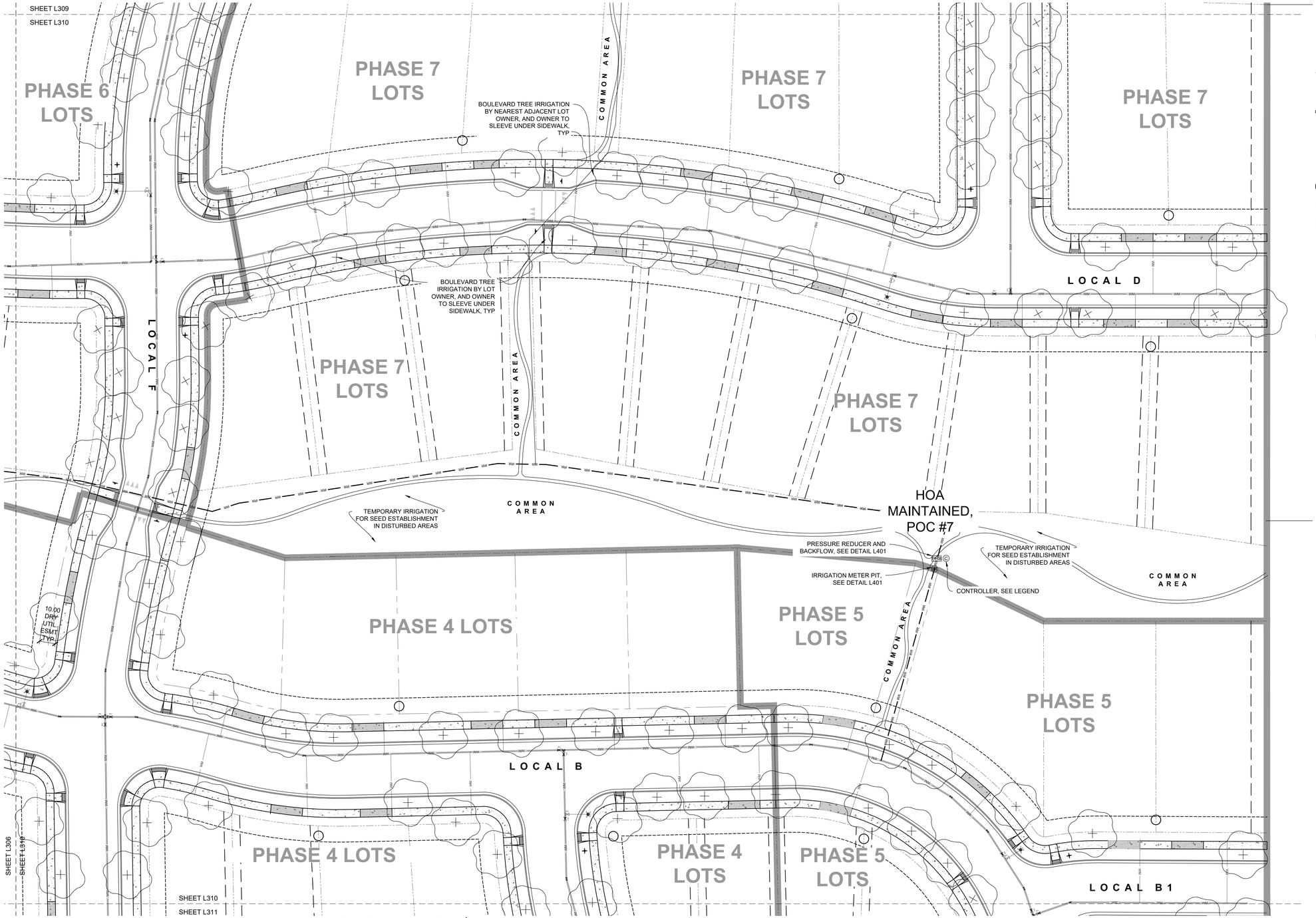

1 C-2 IRRIGATION PLAN

0 15 30 60

SCALE: 1" = 30'

NORTH

DESCRIPTION	DET.	SHT.
CONTROLLER RAINBIRD ESP-LXME2 PRO		
IRRIGATION METER PIT	1	L401
PRESSURE REDUCER & BACKFLOW	2	L401
NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
LATERAL LINE SCH 40 PVC	3 - 5	L401
SLEEVE 2" SCH 40 PVC	4 - 5	L401
DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
TURF CONTROL VALVE RAINBIRD PEB	6	L401
QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
POP UP ROTOR RAINBIRD 8005	2	L402
POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
SUBTERRANEAN TREE DRIP	4	L402
ISOLATION BALL VALVE LINE SIZE		
MANUAL DRAIN		
AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE — ZONE NUMBER; 14.51 — ESTIMATED GPM FOR ZONE; 1.5 — VALVE SIZE

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HLLVIEW WAY
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WILDROOT

PRELIMINARY PLAT

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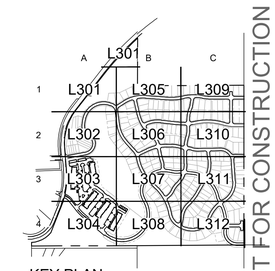

KEY PLAN

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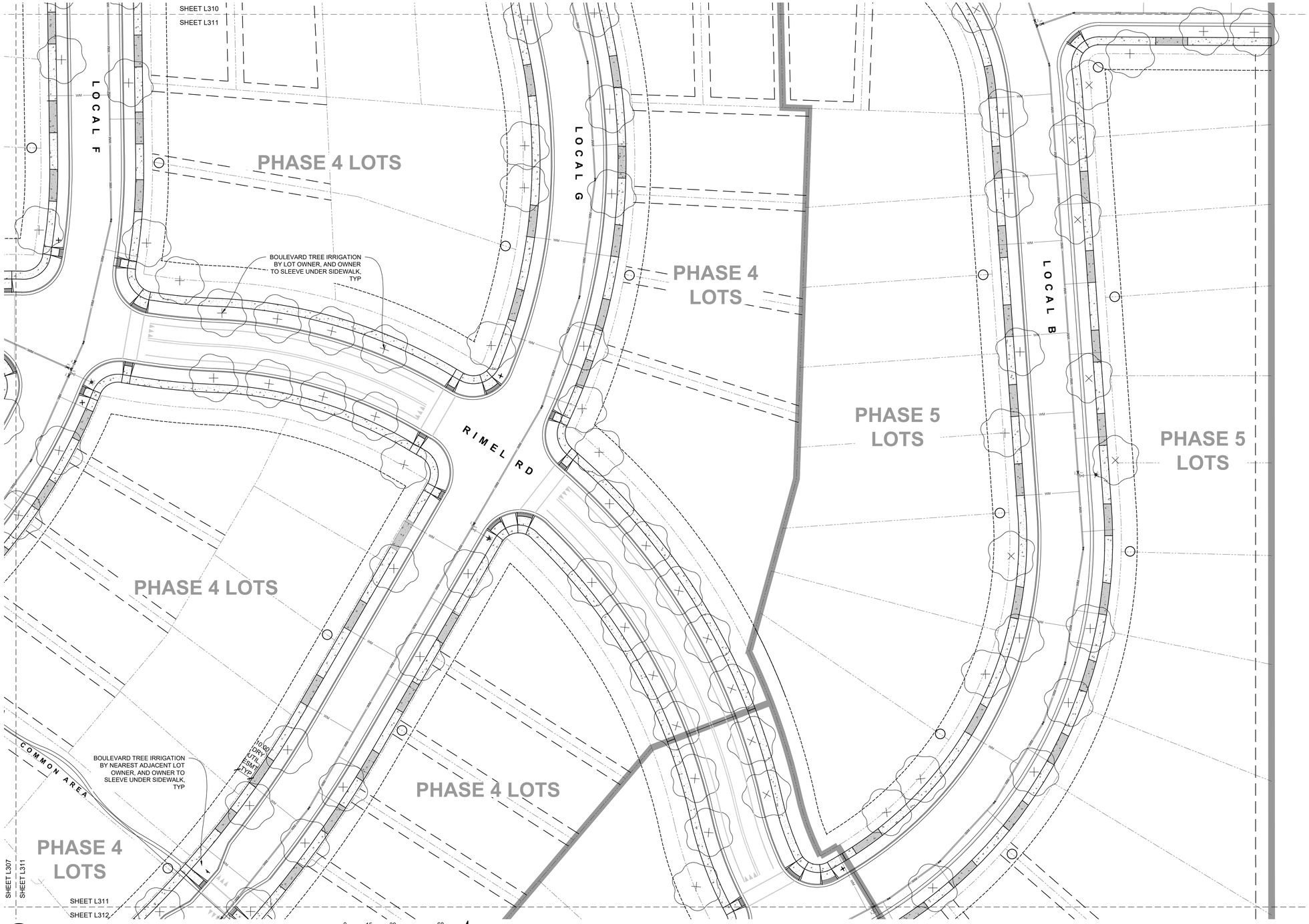
C-2 IRRIGATION PLAN

L310



1 C-3 IRRIGATION PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE
ZONE NUMBER
14.51 ESTIMATED GPM FOR ZONE
1.5 VALVE SIZE

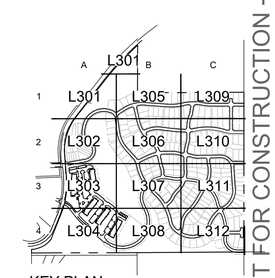
Cushing Terrell.

cushingterrell.com
800.757.9522

HILLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

05.10.2024
DRAWN BY | DONOVAN
CHECKED BY | -
REVISIONS
-



KEY PLAN

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

C-3 IRRIGATION PLAN

L311

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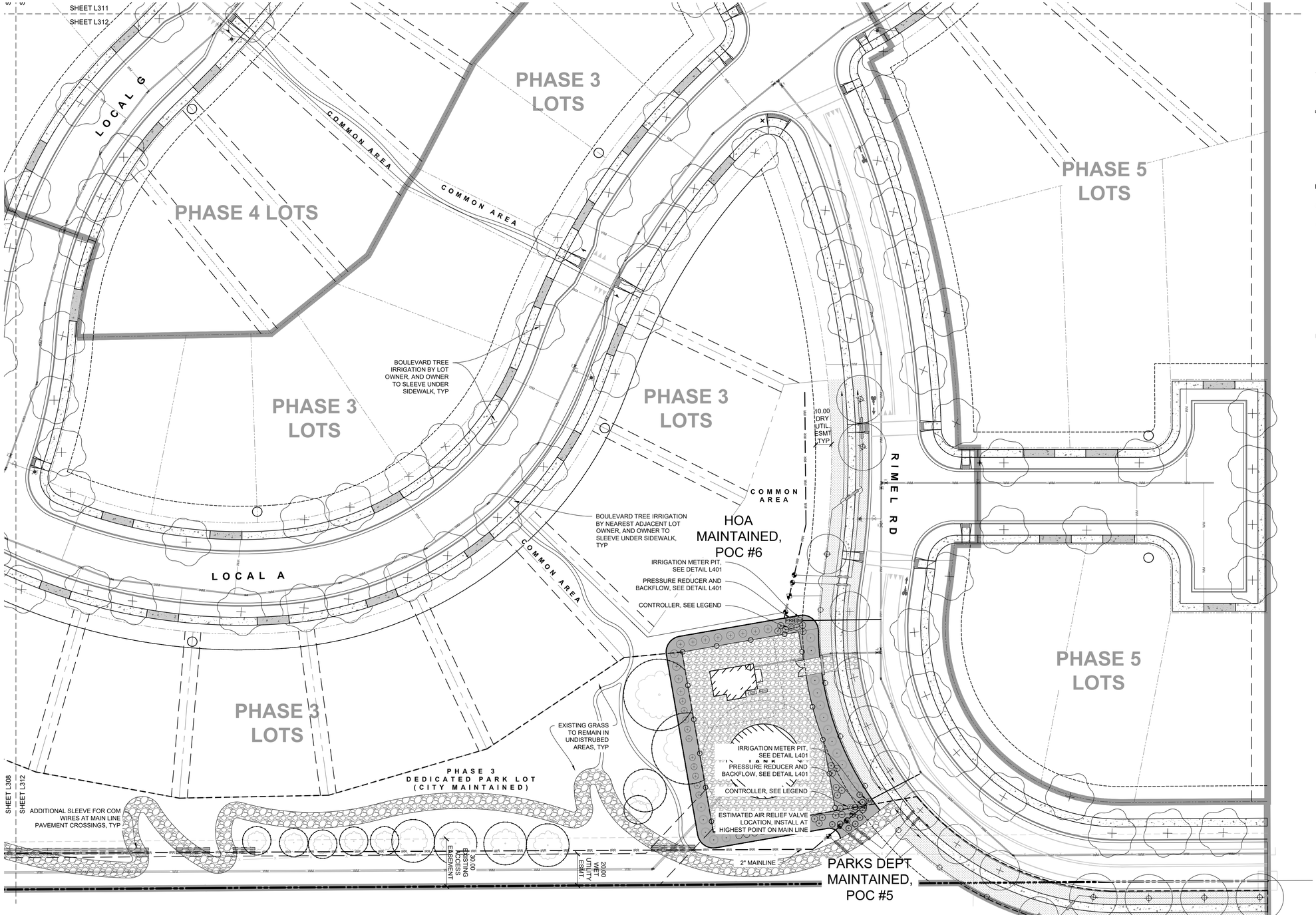


1 C-4 IRRIGATION PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

	DESCRIPTION	DET.	SHT.
	CONTROLLER RAINBIRD ESP-LXME2 PRO		
	IRRIGATION METER PIT	1	L401
	PRESSURE REDUCER & BACKFLOW	2	L401
IRR	NEW MAIN LINE, 2" SCH 40 PVC	3 - 5	L401
	LATERAL LINE SCH 40 PVC	3 - 5	L401
	SLEEVE 2" SCH 40 PVC	4 - 5	L401
	DRIP CONTROL VALVE RAINBIRD XCZ-100-PRB-LC	6	L401
	TURF CONTROL VALVE RAINBIRD PEB	6	L401
QC	QUICK COUPLER RAINBIRD MODEL 44 LRC	1	L402
	POP UP ROTOR RAINBIRD 8005	2	L402
	POP UP SPRAY HEADS RAINBIRD 1806-SAM RVAN NOZZLE	3	L402
	POP UP BOULEVARD HEADS RAINBIRD 1806 STRIP NOZZLE	3	L402
	SUBTERRANEAN TREE DRIP	4	L402
	ISOLATION BALL VALVE LINE SIZE		
	MANUAL DRAIN		
	AIR RELIEF VALVE BERMAD 4415		

D= DRIP ZONE
ZONE NUMBER
14.51 — ESTIMATED GPM FOR ZONE
1.5 — VALVE SIZE

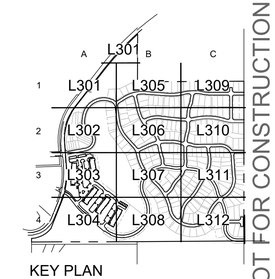
Cushing Terrell.

cushingterrell.com
800.757.9522

HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

05.10.2024
DRAWN BY | DONOVAN
CHECKED BY | -
REVISIONS
-



KEY PLAN

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

C-4 IRRIGATION PLAN

L312

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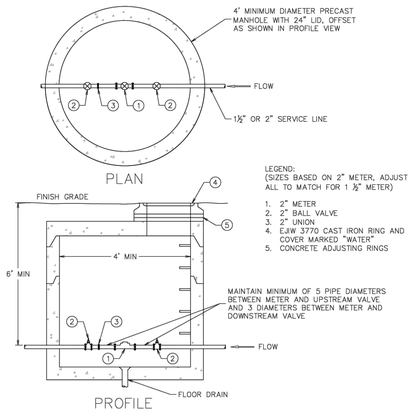


LEGEND:
(SIZES BASED ON 2" METER, ADJUST ALL TO MATCH FOR 1 ½" METER)

1. 2" METER
2. 2" BALL VALVE
3. 2" UNION
4. EJIW 3770 CAST IRON RING AND COVER MARKED "WATER"
5. CONCRETE ADJUSTING RINGS

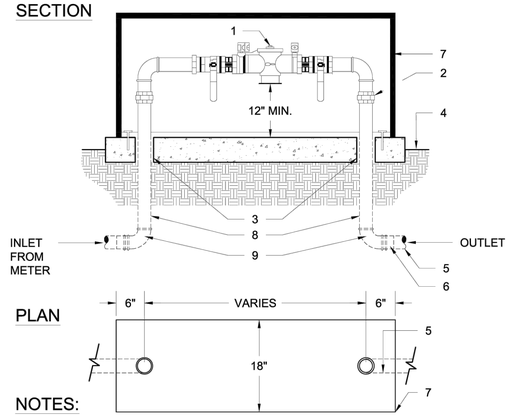
GENERAL NOTES:

1. MANHOLE BASE IS OPTIONAL. WHERE BASE IS NOT PROVIDED, MANHOLE SHALL BE PLACED ON FOUR STANDARD CMU BLOCKS SPACED EQUAL DISTANCE AROUND MANHOLE.
2. METER PIT SHALL BE INSTALLED 2–5' OUTSIDE THE RIGHT OF WAY.
3. NO OBSTRUCTIONS SHALL BE PLACED WITHIN A MINIMUM 4 FT RADIUS AROUND THE METER PIT TO ALLOW ACCESS TO THE PIT.
4. NO PRV'S, CHECK VALVES OR BACKFLOW DEVICES ALLOWED IN METER PIT.
5. THIS DIAGRAM IS NOT PROJECT SPECIFIC AND IS NOT INTENDED TO BE A DESIGN DRAWING. THE OWNER IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE BUILDING CODES. THIS DETAIL MAY CHANGE AT ANY TIME AND IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT VERSION OF THIS AND OTHER CITY REQUIREMENTS.

MISSOULA Engineering Division	Large (1 1/2" and 2") Irrigation Meter Pit Detail		
	Approved By: Logan McInnis, Utilities Engineer, Logan McInnis, PE	Revised: 09/28/2020	STD - 412

1 LARGE (1 1/2" AND 2") IRRIGATION METER PIT

SECTION



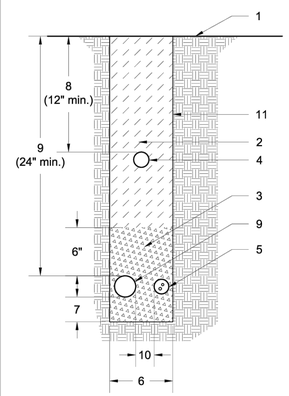
NOTES:

1. Wilkins 975RP Reduced Pressure Backflow Preventer or approved equal. Reference specifications for size.
2. Union (TYP). 1' to 2' above turf
3. 4" Concrete pad with sleeves at inlet and outlet Set pad 2" above finish grade in groundcover or decomposed granite 1" above finish grade when set in turf
4. Finish Grade
5. Schedule 40 or PVC mainline. Reference specifications for size and type.
6. PVC Schedule 40 or adapter (MPT x Slip) No FPT PVC Allowed
7. Expanded metal cage, reference specifications for size
8. Galvanized pipe and fittings on upstream and downstream side
9. Galvanized 90 on upstream and downstream side

MISSOULA Parks and Rec. Dept.	PRESSURE REDUCER & BACKFLOW DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS; Checked by: CB; Adopted:	PR-109

2 PRESSURE REDUCER & BACKFLOW

SECTION



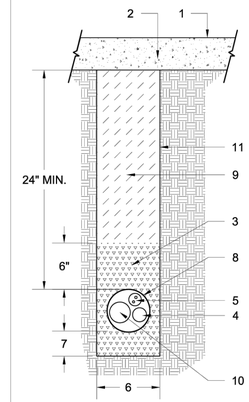
NOTES:

1. Finish grade
2. Topsoil backfill, no particles greater than 1", compact per specifications
3. 6" sand fill above mainline
4. PVC pipe lateral line
5. Electric wires in 2" schedule 40 electrical conduit from controller to valve
6. 6" min. trench width
7. Place 3" of sand below mainline or sleeving
8. Lateral line - 12" min. coverage
9. PVC Mainline - 24" min. coverage
10. 2" min. separation between electrical conduit and mainline
11. Sides of trench will be dug square and be void of all sharp objects

MISSOULA Parks and Rec. Dept.	IRRIGATION TRENCH DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS; Checked by: CB; Adopted:	PR-115

3 IRRIGATION TRENCH

SECTION



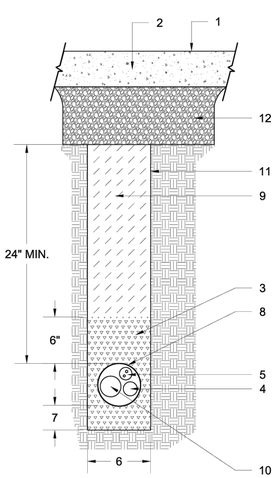
NOTES:

1. Finish grade
2. Paving as per city specifications & standards
3. 6" min. sand fill above top of sleeve
4. PVC pipe lateral
5. Electric wires in 2" schedule 40 electrical conduit from controller to valve
6. 6" min. trench width
7. Place 3" of sand below mainline or sleeving
8. 4" min. sleeve or as required; 24" min. coverage from bottom of paving to top of pipe
9. Native soil backfill - compacted to 95% proctor density
10. PVC pipe mainline
11. Sides of trench will be dug square and be void of all sharp objects

MISSOULA Parks and Rec. Dept.	IRRIGATION TRENCH DETAIL (PAVING NON-VEHICULAR)		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS; Checked by: CB; Adopted:	PR-116

4 IRRIGATION TRENCH (PAVING NON-VEHICULAR)

SECTION



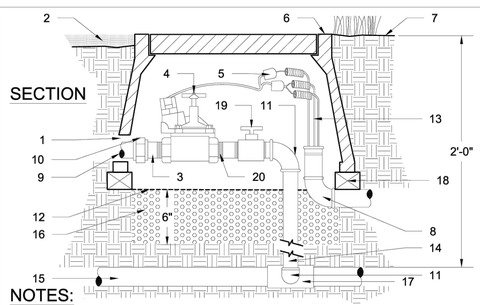
NOTES:

1. Finish grade
2. Paving as per city specifications & standards
3. 6" min. sand fill above top of sleeve
4. PVC pipe lateral
5. Electric wires in 2" schedule 40 electrical conduit from controller to valve
6. 6" min. trench width
7. Place 3" of sand below mainline or sleeving
8. 4" min. sleeve or as required; 24" min. coverage from bottom of paving to top of pipe
9. Native soil backfill - compacted to 95% proctor density
10. PVC pipe mainline
11. Sides of trench will be dug square and be void of all sharp objects
12. Pavement subgrade as per City of Missoula specifications

MISSOULA Parks and Rec. Dept.	IRRIGATION TRENCH DETAIL (PAVING VEHICULAR)		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS; Checked by: CB; Adopted:	PR-117

5 IRRIGATION TRENCH (PAVING VEHICULAR)

SECTION



NOTES:

1. Trim valve box to provide 1" clearance around pipe
2. 2" min. mulch depth flush with top of valve box
3. Machined schedule 40 PVC short nipple
4. Remote control valve Rainbird P.E.B. series or approved equal
5. Pentite or other approved splice
6. Plastic valve box Carson 1419 14" x 19" or equal as specified with lid label "Irrigation" Set top of box flush with finish grade in sod; 2" above planting bed or decomposed granite sub-base
7. Sod root layer, flush with top of valve box
8. Schedule 40 electrical conduit & sweep as per specifications
9. PVC schedule 40 lateral line: Provide 18" length prior to first fitting
10. Schedule 80 PVC Union (TYP.)
11. Schedule 40 PVC elbow S x S
12. ¼" Galvanized wire cloth placed above gravel
13. Control & Common wires, size as reg. provide min. 18" extra, coiled
14. Schedule 40 PVC nipple, length varies
15. Solvent weld schedule 40 mainline, 18" - 24" max coverage
16. Pea gravel 6" depth
17. Schedule 80 PVC tee S x S x S
18. Bricks for valve box support (4)
19. T x T ball valve, size per plans
20. Use min. 3 wraps of Teflon tape at each threaded connection

MISSOULA Parks and Rec. Dept.	REMOTE CONTROL VALVE DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS; Checked by: CB; Adopted:	PR-110

6 REMOTE CONTROL VALVE

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HILLVIEW WAY
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PRELIMINARY PLAT

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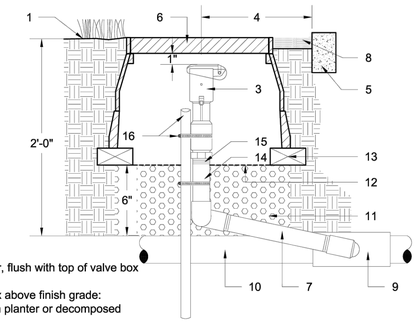
IRRIGATION DETAILS

L401

SECTION



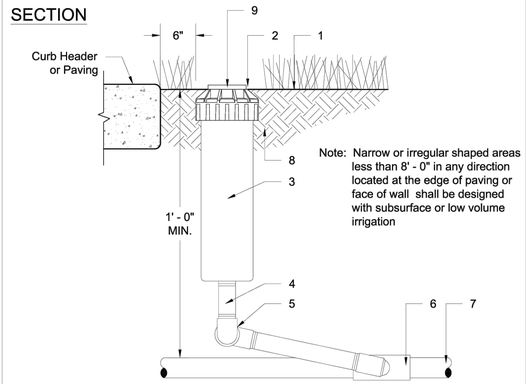
NOTES:

1. Sod root layer, flush with top of valve box
2. Set top of box above finish grade: 1" in sod; 2" in planter or decomposed granite
3. Quick coupling valve with locking rubber cover (1" only) Rainbird 44-LRC or approved equal
4. Set quick coupler 12" from edge of planting area and no more than an 1" gap between bottom of valve box cover & top of quick coupler
5. Curb header or paving
6. Plastic valve box with quick coupler valve, Carson 910 or approved equal
7. Manufactured triple swing joint; Rainbird or approved equal
8. 2" min. mulch depth flush with top of valve box
9. Scheduled 40 PVC tee S x S x T
10. Solvent weld schedule 40 mainline, 18" - 24" max coverage
11. Pea gravel, 6" depth
12. ¼" galvanized wire cloth placed over gravel
13. Bricks for valve box support (4)
14. Nipple - size varies
15. Minimum 3 wraps of Teflon tape at each threaded connection
16. ½" X 18" rebar with (2) stainless steel gear clamps or approved equal support system

MISSOULA Parks and Rec. Dept.	QUICK COUPLER VALVE DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-112

1 QUICK COUPLER VALVE

SECTION



Note: Narrow or irregular shaped areas less than 8' - 0" in any direction located at the edge of paving or face of wall shall be designed with subsurface or low volume irrigation

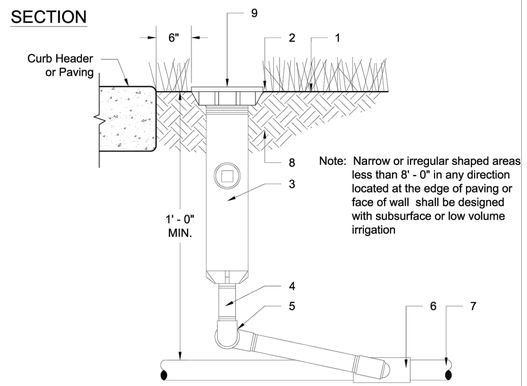
NOTES:

1. Finish Grade
2. Set top of rotor at finish grade of concrete and above soil finish grade; ½" -¾" in sod, 2" in planting bed, decomposed granite or mulch. Top of sprinkler shall be level with top of paving.
3. Pop-up rotor as per specifications; placed 6" from edge of curb or paving
4. Schedule 80 riser, length as required
5. Manufactured triple swing joint; Rainbird or approved equal
6. Tee (S x FPT) or Elbow (S x S x FPT); size as per plans
7. Lateral line schedule 40 with 1' - 0" min. coverage
8. Native soil backfill, free of rocks larger than 1"
9. Nozzle as specified per plans

MISSOULA Parks and Rec. Dept.	POP UP ROTOR DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-113

2 POP UP ROTOR

SECTION



Note: Narrow or irregular shaped areas less than 8' - 0" in any direction located at the edge of paving or face of wall shall be designed with subsurface or low volume irrigation

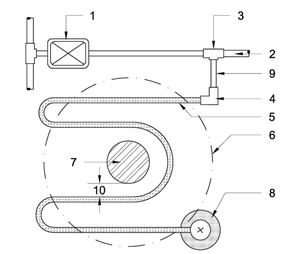
NOTES:

1. Finish Grade
2. Set top of sprinkler at finish grade of concrete and above soil finish grade; ½" -¾" in sod, 2" in planting bed, decomposed granite or mulch. Top of sprinkler shall be level with top of paving. If bubbler is used, top of bubbler shall be to grade.
3. Pop-up spray head as per specifications; placed 6" from edge of curb or paving
4. Schedule 80 riser, length as required
5. Manufactured triple swing joint; Rainbird or approved equal
6. Tee (S x FPT) or Elbow (S x S x FPT); size as per plans
7. Lateral line schedule 40 with1' - 0" min. coverage
8. Native soil backfill, free of rocks larger than 1"
9. Nozzle as specified per plans

MISSOULA Parks and Rec. Dept.	POP UP SPRAY HEAD DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-114

3 POP UP SPRAY HEAD

PLAN



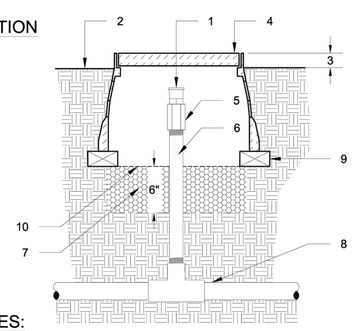
NOTES:

1. Remote control valve, Rainbird PEB PRS-B or City approved equal with Netafim filter downstream of valve
2. PVC supply header, continuous to next tree
3. ¾" schedule 40 tee S x S x C
4. Compression reducer schedule 40 S x C elbow
5. Start of dripline, size and type as per plans and specifications
6. Estimated dripline of tree in 5 years
7. Tree rootball
8. Flush valve
9. Schedule 40 PVC supply line
10. Space drip line 6" from edge of rootball

MISSOULA Parks and Rec. Dept.	SUBTERRANEAN TREE DRIP & LAYOUT DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-118-5

4 SUBTERRANEAN TREE DRIP & LAYOUT

SECTION



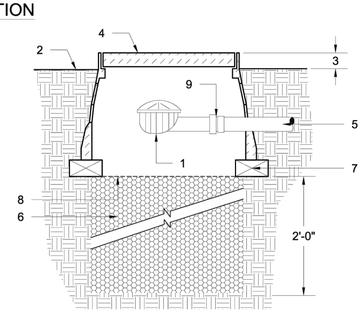
NOTES:

1. Air relief valve Netafim or City approved equal
2. Finish grade
3. Set top of box above finish grade; 1" in sod, 2" in planter or decomposed granite
4. 10" round valve box Carson #910 or City approved equal
5. ½" PVC coupler T x T
6. ½" schedule 80 nipple (length varies)
7. Pea gravel 6" depth
8. Poly tubing, connect to nipple with tee S x S x T
9. Common brick for support (3)
10. ¼" galvanized wire mesh

MISSOULA Parks and Rec. Dept.	SUBTERRANEAN DRIP & AIR RELIEF VALVE DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-118-4

5 SUBTERRANEAN DRIP & AIR RELIEF VALVE

SECTION



NOTES:

1. Dripline flush valve, Netafim or City approved equal
2. Finish grade
3. Set top of box above finish grade; 1" in sod, 2" in planter or decomposed granite
4. 10" round valve box Carson #910 or City approved equal
5. PVC from exhaust header
6. PEA gravel sump (6" - 8" in diameter)
7. Common brick for support (3)
8. ¼" galvanized wire mesh
9. PVC female adapter

MISSOULA Parks and Rec. Dept.	SUBTERRANEAN DRIP FLUSH VALVE DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-118-3

6 SUBTERRANEAN DRIP FLUSH VALVE

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800.757.9522

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MISSOULA, MONTANA
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05.10.2024
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CHECKED BY | RUSH
REVISIONS
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IRRIGATION DETAILS

L402

1 OVERALL PLANTING PLAN

SCALE: 1 = 120'

0 60 120 240

NORTH

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PLANT SCHEDULE PROP

CODE	QTY	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	PKG.	MATURE SIZE	NOTES
CONIFEROUS TREES							
PF	8	PINUS FLEXILIS	LIMBER PIN	6' HT	B&B	40-60' H X 25-35' W	
PIS	5	PINUS SYLVESTRIS	SCOTCH PINE	6' HT	B&B	30-60' H X 30-40' W	
DECIDUOUS TREES							
AEC	24	AESCULUS X CARNEA 'BRIOTII'	BRIOTII RED HORSECHESTNUT	2" CAL.		30-35 H X 25-25 W	
BEH	9	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	2" CAL.	B&B	40-45 H X 30-35 W	SINGLE STEM
CAB	15	CARPINUS BETULUS	EUROPEAN HORNBEAM	2" CAL.	B&B	40-60' H X 30-40' W	
CEO	49	CELTIS OCCIDENTALIS 'PRAIRIE PRIDE'	PRAIRIE PRIDE HACKBERRY	2" CAL.	B&B	40-60 H X 40-50 W	
GLT	503	GLEDITSIA TRIACANTHOS INERMIS 'SKYCOLE TM'	SKYLINE THORNLESS HONEY LOCUST	2" CAL.	B&B	40-45 H X 30-35 W	
GYD	16	GYMNOCLADUS DIOICUS 'ESPRESSO'	ESPRESSO KENTUCKY COFFEETREE	2" CAL.	B&B	45-55 H X 30-35 W	
OSV	20	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	2" CAL.	B&B	25'-30' H X 20'-25' W	
PLO	7	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2" CAL.		50-60' H X 50-60' H	
QUB	6	QUERCUS BICOLOR	SWAMP WHITE OAK	2" CAL.	B&B	50-60 H X 50-60' W	
TIA	23	TILIA AMERICANA 'REDMOND'	REDMOND AMERICAN LINDEN	2" CAL.	B&B	40-60' H X 25-35' W	
TIC	3	TILIA CORDATA	LITTLELEAF LINDEN	2" CAL.	B&B	60-80 H X 35-45 W	
ULA	10	ULMUS AMERICANA 'FRONTIER'	FRONTIER ELM	2" CAL.	B&B	40-50 H X 35-35 W	
CODE	QTY	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	PKG.	MATURE SIZE	
CONIFEROUS SHRUB							
JIB	17	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP JUNIPER	5 GAL.	POT	0.5-.75'H X 8-10 W	
PIN	21	PINUS MUGO 'VALLEY CUSHION'	VALLEY CUSHION MUGO PINE	5 GAL.	POT	1' H X 4' W	
DECIDUOUS SHRUB							
PHO	15	PHYSOCARPUS OPULIFOLIUS 'NANUS'	DWARF NINEBARK	5 GAL.	POT	2-4 H X 2-4 W	
RIC	18	RIBES CEREUM	WAX CURRANT	5 GAL.	POT	2-4 H X 2-4 W	
SYO	30	SYMPHORICARPOS OCCIDENTALIS	WESTERN SNOWBERRY	5 GAL.	POT	2-3 H X 4-5 W	
SYP	21	SYRINGA X 'PENDA' TM	BLOOMERANG PURPLE LILAC	5 GAL.	POT	3-4 H X 3-4 W	

LANDSCAPE PLAN REQUIREMENTS

Missoula Parks and Recreation Design Manual, 2018 Edition

Table 5. Tree Clearance Requirements, p 30

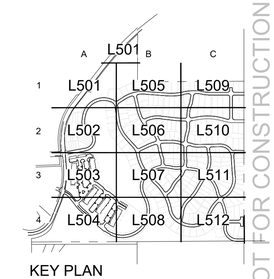
Class II Tree Clearances:	
Adjacent to curbing or sidewalk: 3' of curb face or sidewalk	3 feet
Adjacent to any building or structure	10 feet
Adjacent to meter boxes and pad transformers	10 feet
Residential driveways	10 feet
Alleyways	10 feet
Fire hydrants and utility poles	10 feet
Sanitary sewer lateral	5 feet
Sanitary sewer main	8 feet
Street lights	20 feet
Traffic control signs	30 feet, trees can be adjacent if blvd is 10 feet or wider
Under power lines	not allowed
Storm sewer lateral	5 feet
Storm sewer main	2.5 feet
Storm sewer inlet	5 feet
Water line lateral	5 feet
Water line main	5-6 feet
Corner site triangle (uncontrolled)	30 feet where two streets converge, or 30 feet back from traffic control sign

GENERAL NOTES

1. TREES BY DEVELOPER WILL BE INSTALLED AT TIME OF SUBDIVISION CONSTRUCTION PER PHASE.
2. TREES BY HOMEOWNER WILL BE INSTALLED AT TIME OF HOME CONSTRUCTION.

PLANTING LEGEND

- DEVELOPER INSTALLED TREES
- LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE
- DEVELOPER INSTALLED ROW SEEDING, AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL, TEMP IRRIGATION TO ESTABLISH
- RECREATION GRASS MIX AS SPECIFIED, DRILL SEED, PERMANENT IRRIGATION
- DRY SITE MIX - AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL DRILL SEED --TEMP IRRIGATION TO ESTABLISH
- SEMI-WET GRASS AS SPECIFIED, HYDROSEED, TEMP IRRIGATION TO ESTABLISH



KEY PLAN

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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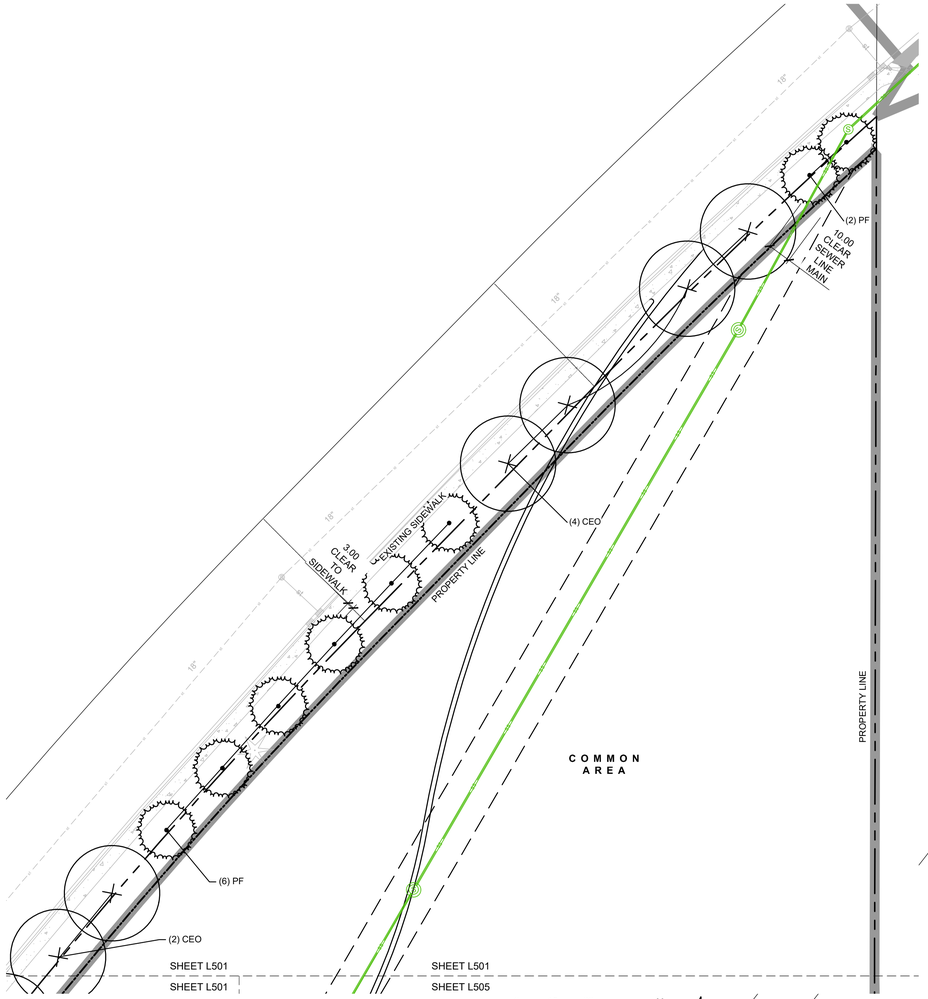
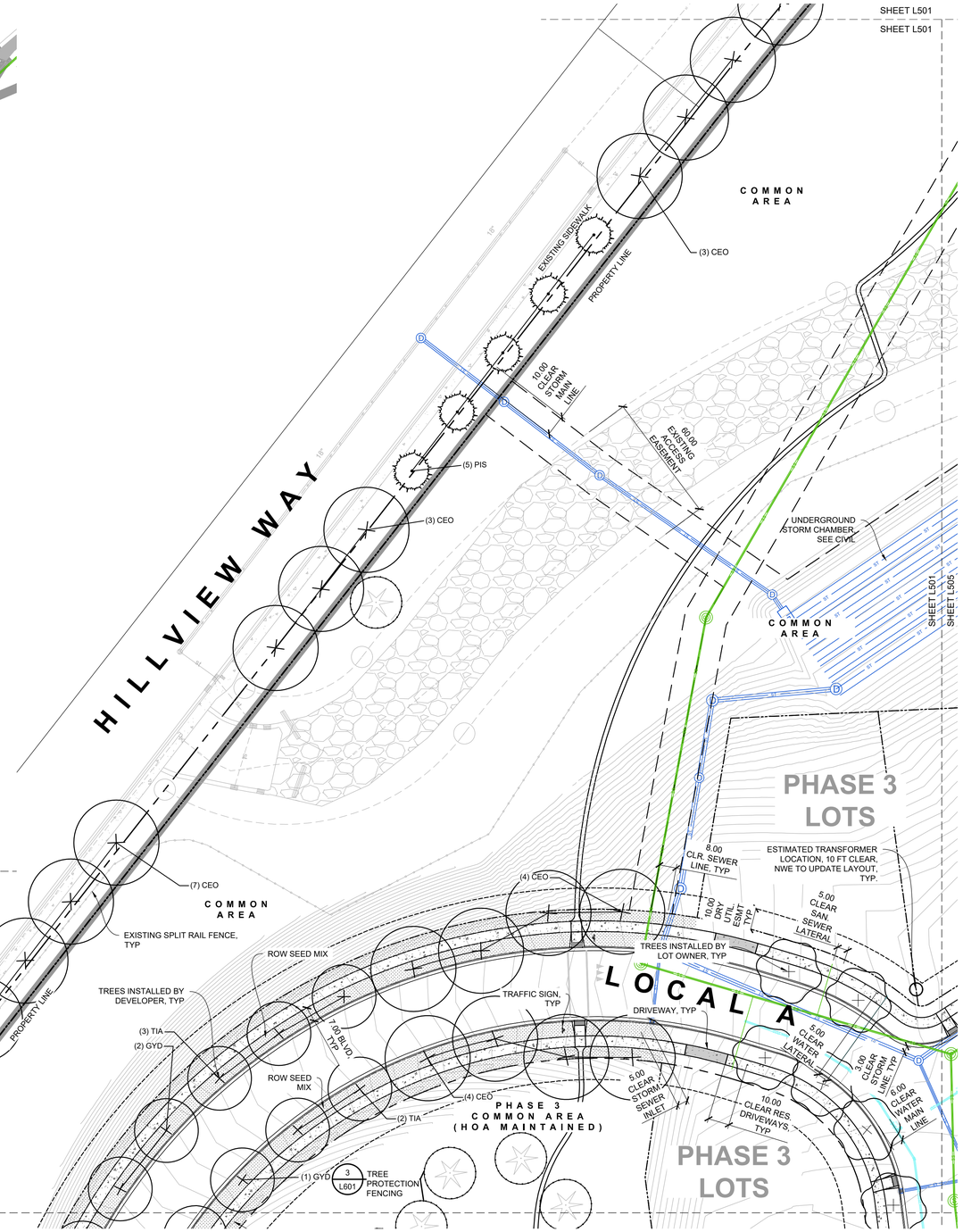
OVERALL PLANTING PLAN

L500



2 A-1 PLANTING PLAN

SCALE: 1" = 30'



1 A-1 PLANTING PLAN

SCALE: 1" = 30'

GENERAL NOTES

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PLANTING LEGEND

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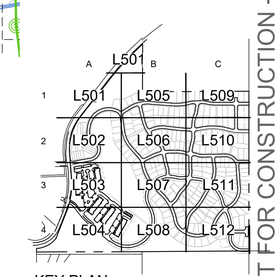

KEY PLAN

HLLVIEW WAY
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WILDROOT

PRELIMINARY PLAT

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A-1 PLANTING PLAN

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1 A-2 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

GENERAL NOTES

1. TREES BY DEVELOPER WILL BE INSTALLED AT TIME OF SUBDIVISION CONSTRUCTION PER PHASE.
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PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

DEVELOPER INSTALLED ROW SEEDING, AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL, TEMP IRRIGATION TO ESTABLISH

DRY SITE MIX - AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL DRILL SEED – TEMP IRRIGATION TO ESTABLISH

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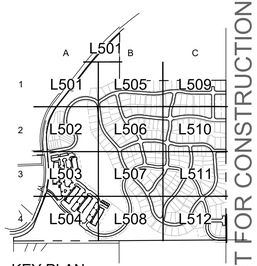

KEY PLAN

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

A-2 PLANTING PLAN

L502

PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

DEVELOPER INSTALLED ROW SEEDING, AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL, TEMP IRRIGATION TO ESTABLISH

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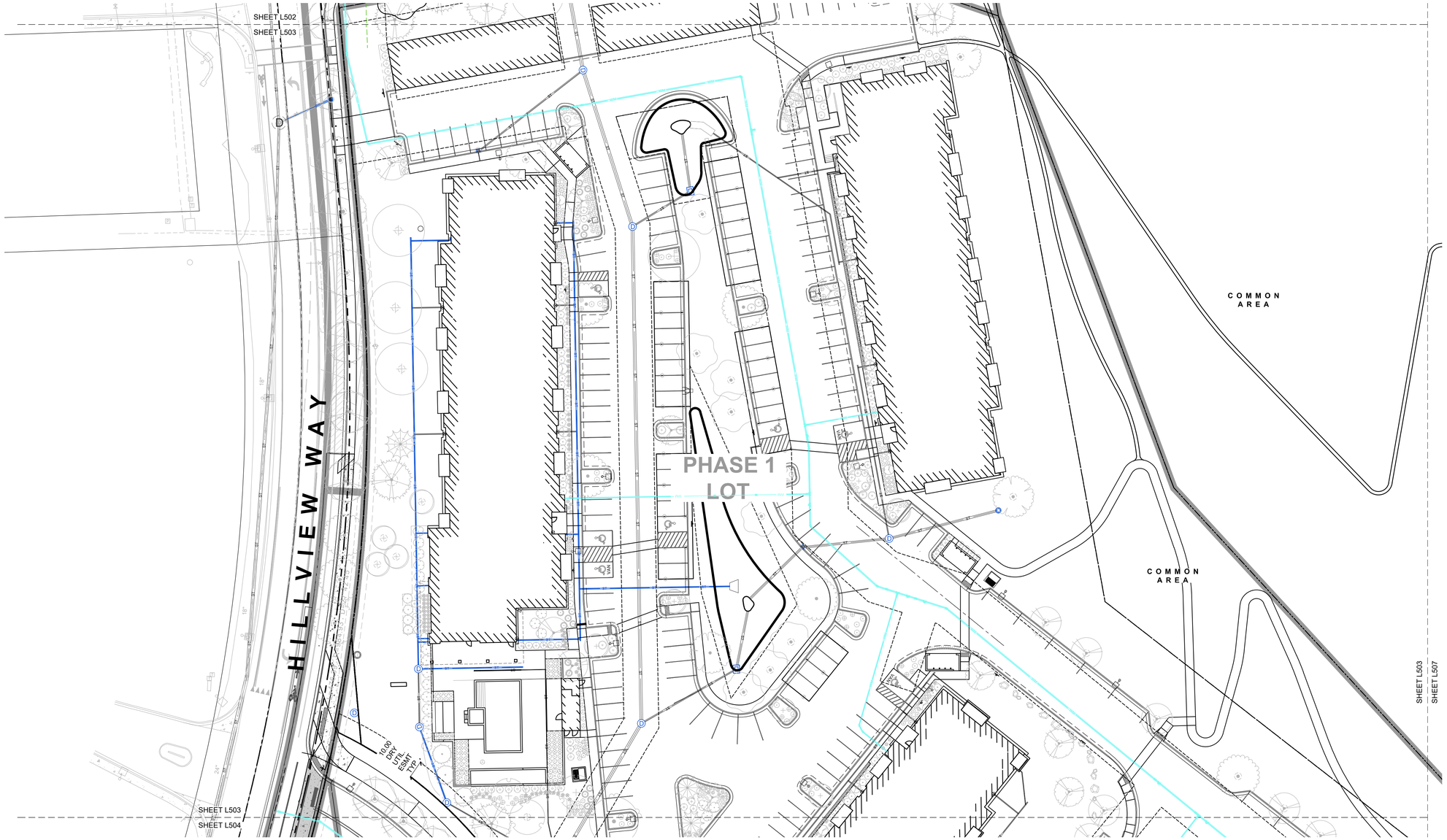

1 A-3 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

GENERAL NOTES

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HLLVIEW WAY
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PRELIMINARY PLAT

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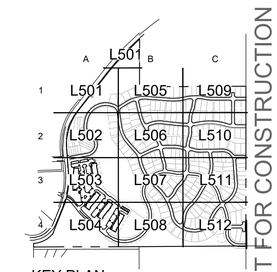
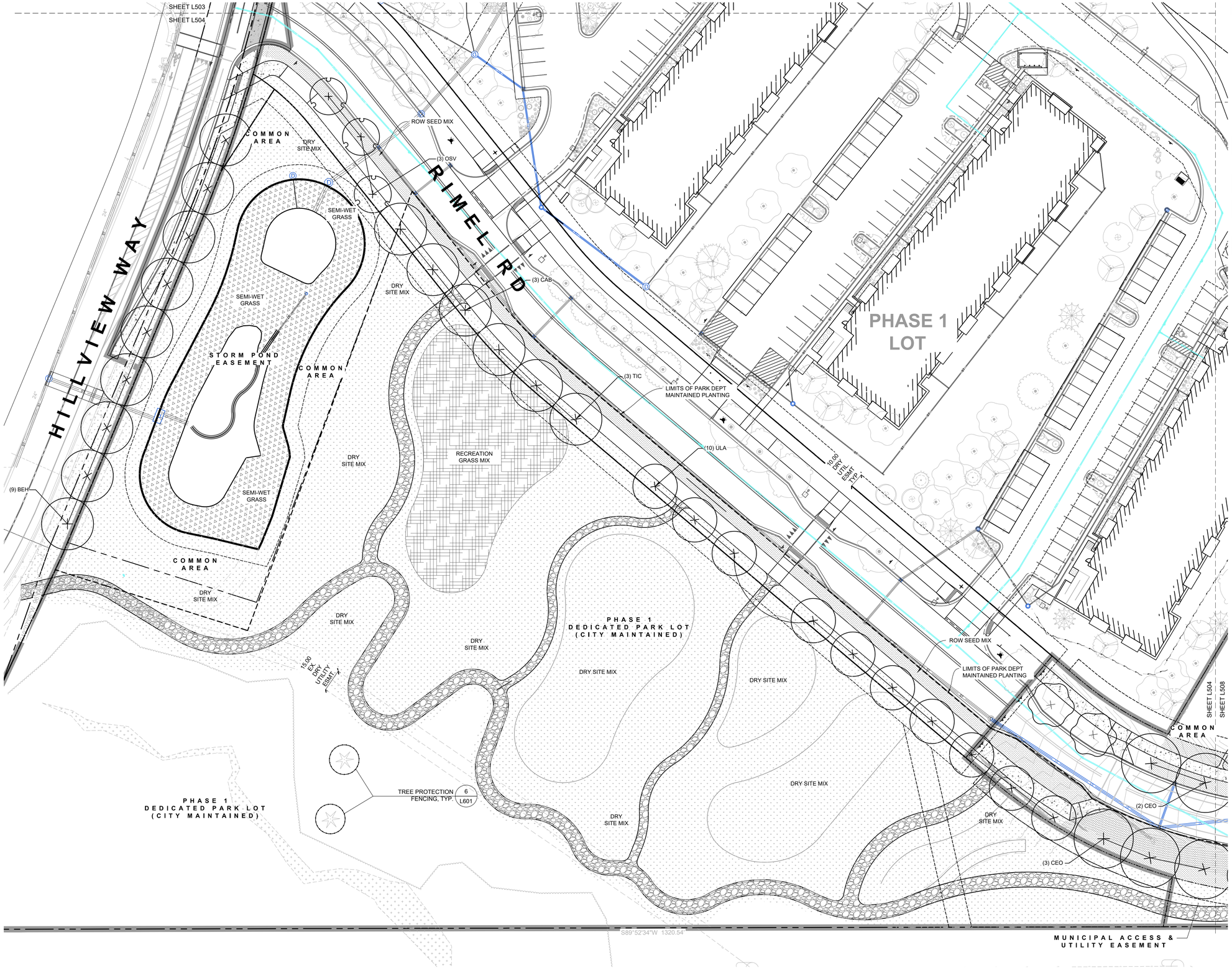


KEY PLAN

A-3 PLANTING PLAN

L503



PLANTING LEGEND

- DEVELOPER INSTALLED TREES
- LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE
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- RECREATION GRASS MIX AS SPECIFIED, DRILL SEED, PERMANENT IRRIGATION
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- SEMI-WET GRASS AS SPECIFIED, HYDROSEED, TEMP IRRIGATION TO ESTABLISH

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1 A-4 PLANTING PLAN

SCALE: 1" = 30'

0 15 30 60

NORTH

GENERAL NOTES

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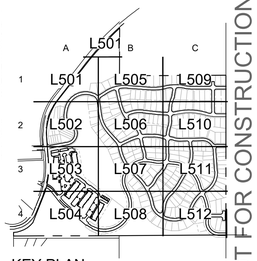

KEY PLAN

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HLLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

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A-4 PLANTING PLAN

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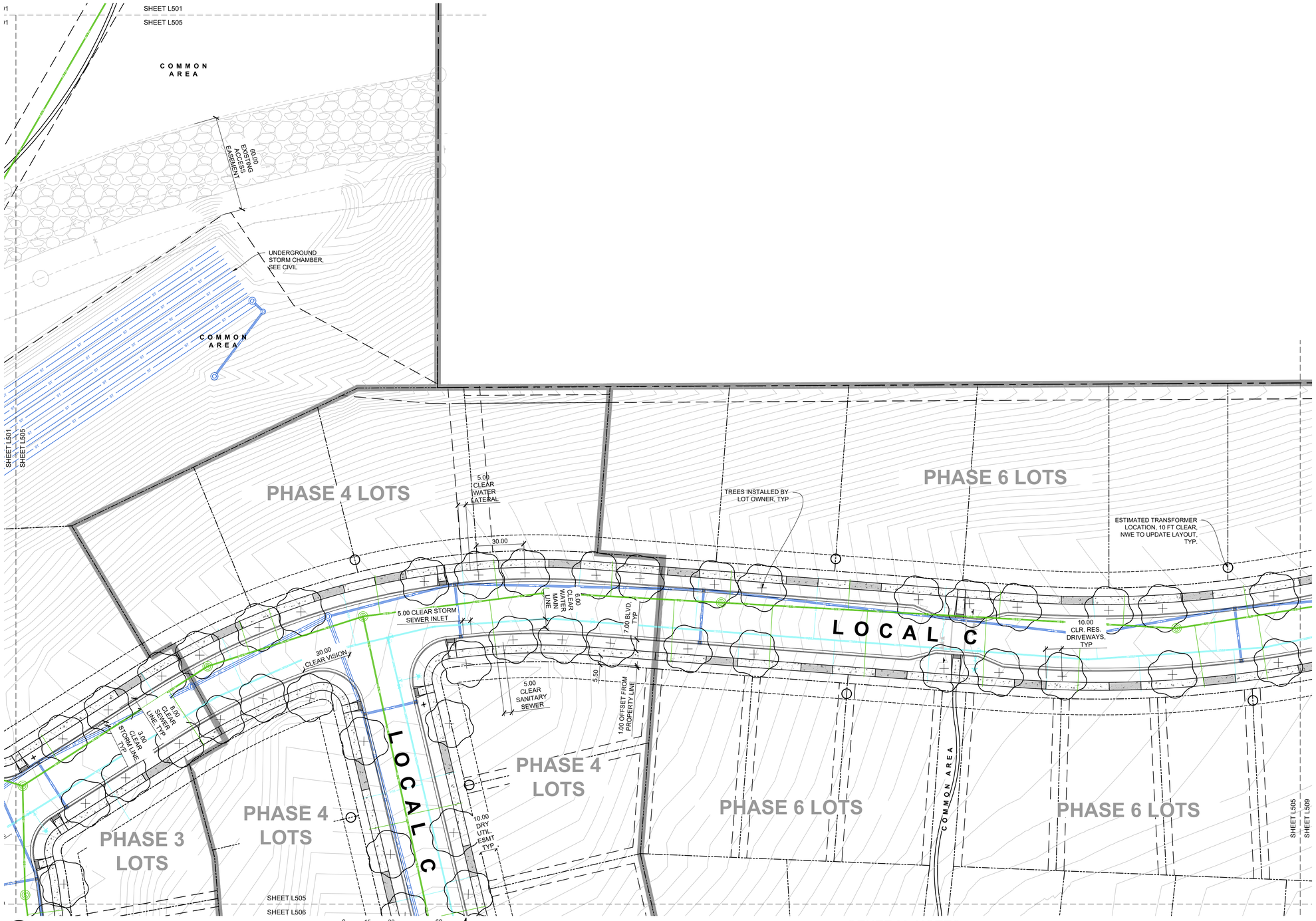

1 B-1 PLANTING PLAN

0 15 30 60

SCALE: 1" = 30'

NORTH

PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

GENERAL NOTES

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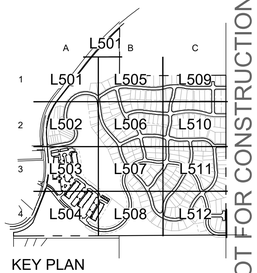

KEY PLAN

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B-1 PLANTING PLAN

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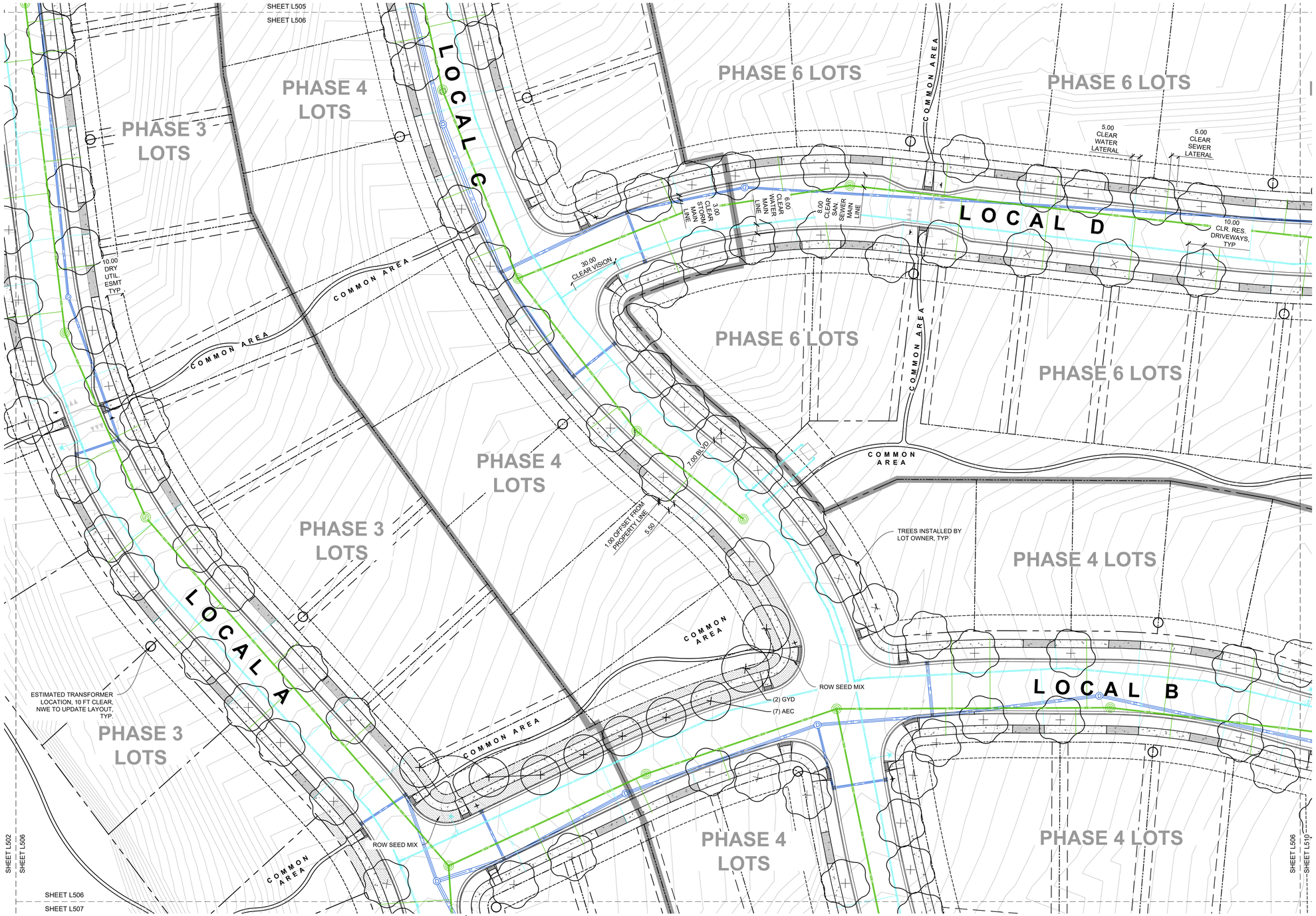

1 B-2 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

DEVELOPER INSTALLED ROW SEEDING, AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL, TEMP IRRIGATION TO ESTABLISH

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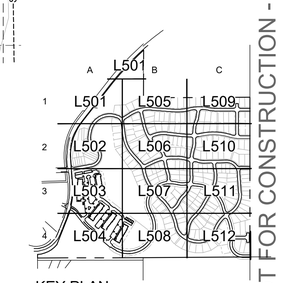

KEY PLAN

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B-2 PLANTING PLAN

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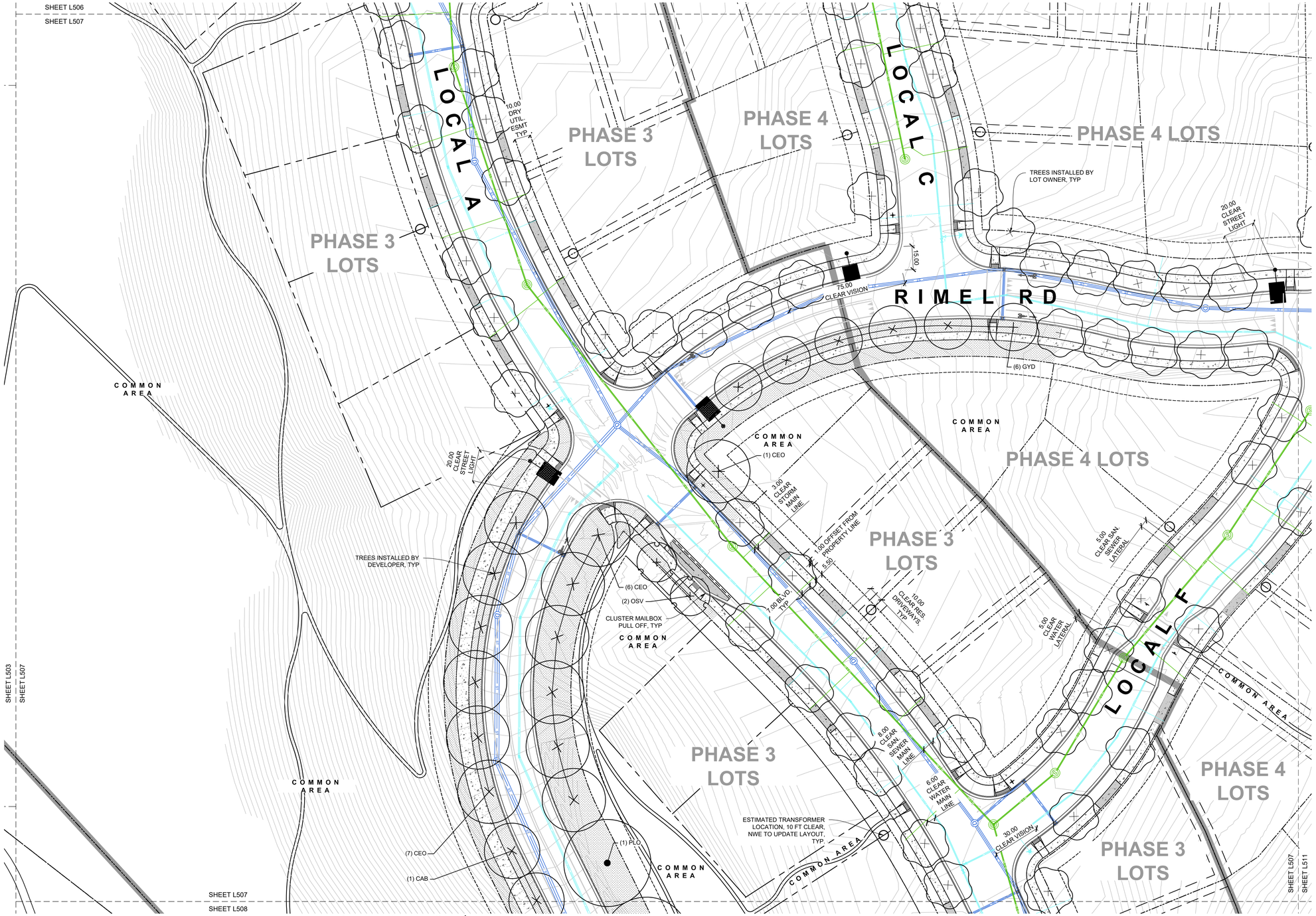

1 B-3 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

GENERAL NOTES

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PLANTING LEGEND

- DEVELOPER INSTALLED TREES
- LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE
- DEVELOPER INSTALLED ROW SEEDING, AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL, TEMP IRRIGATION TO ESTABLISH

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PRELIMINARY PLAT

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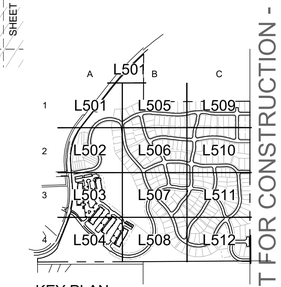

KEY PLAN

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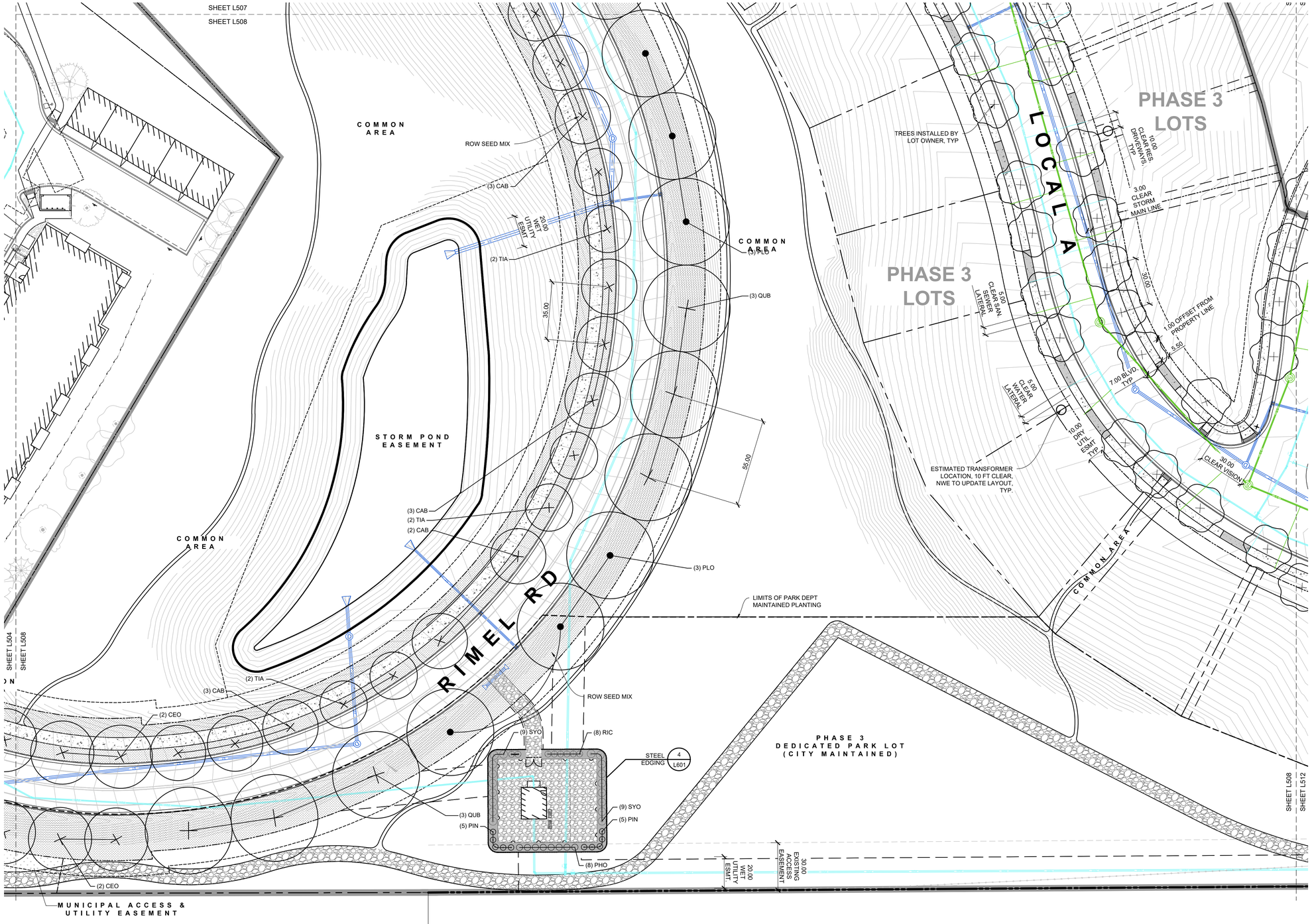
B-3 PLANTING PLAN

L507



1 B-4 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

GENERAL NOTES

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PLANTING LEGEND

- DEVELOPER INSTALLED TREES
- LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE
- DEVELOPER INSTALLED ROW SEEDING, AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL, TEMP IRRIGATION TO ESTABLISH
- STEEL EDGING, SEE DETAIL

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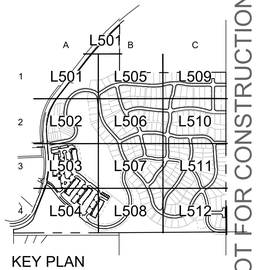

KEY PLAN

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

B-4 PLANTING PLAN

L508

PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

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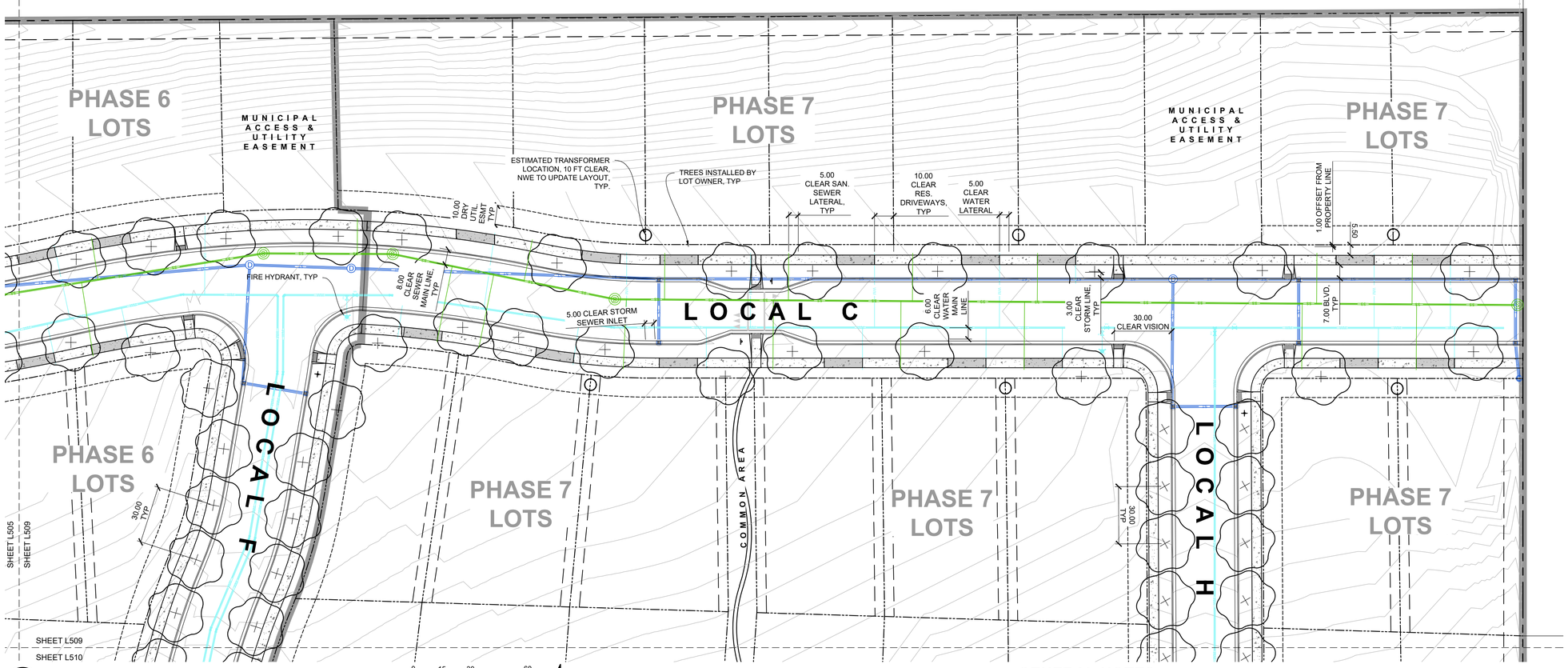

1 C-1 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

GENERAL NOTES

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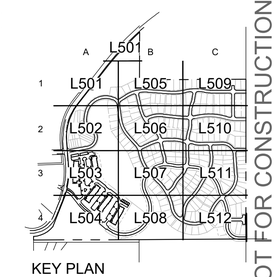

KEY PLAN

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C-1 PLANTING PLAN

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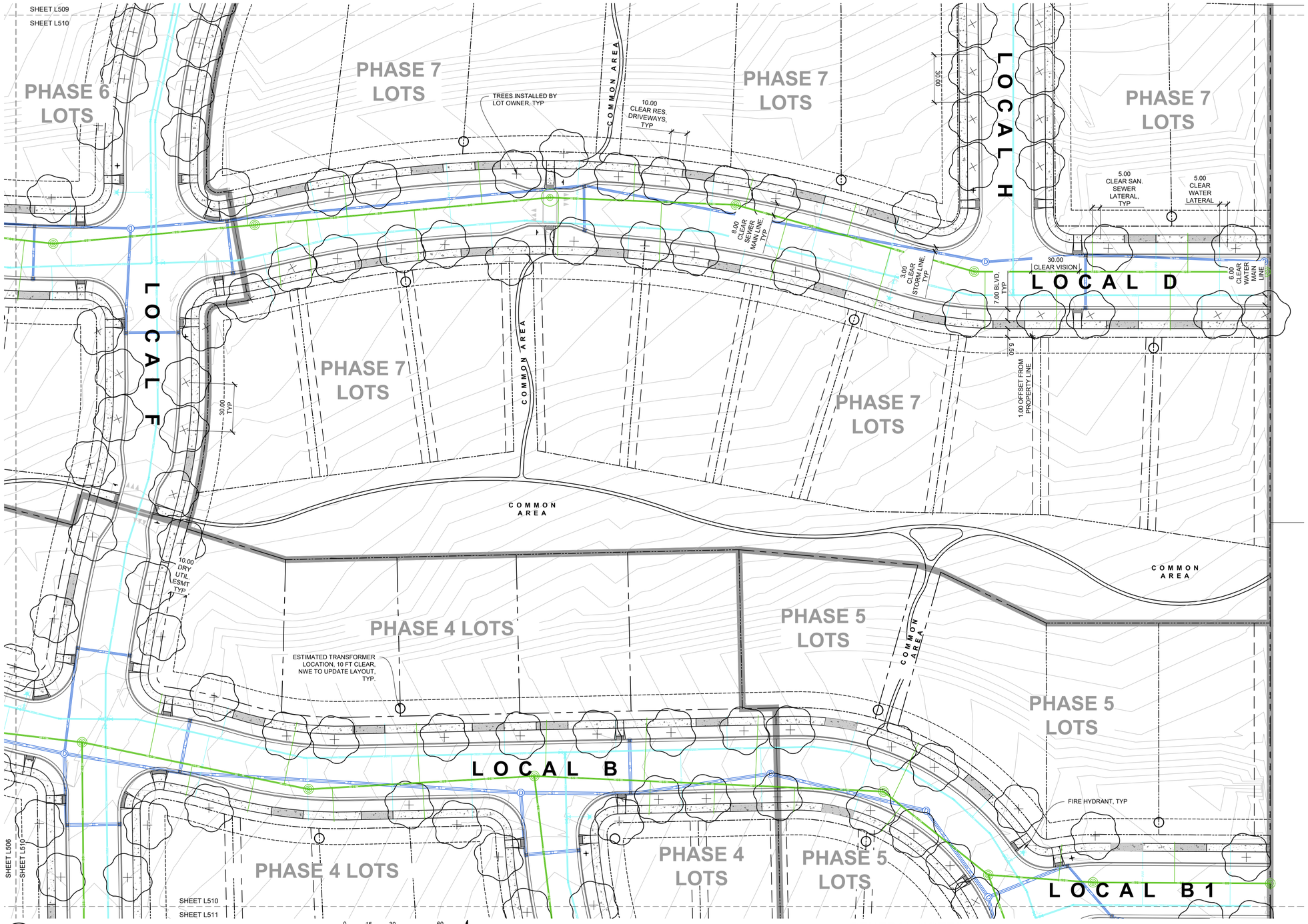

1 C-2 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

GENERAL NOTES

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PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

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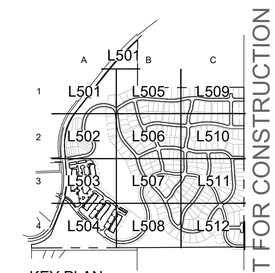

KEY PLAN

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WILDROOT

PRELIMINARY PLAT

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C-2 PLANTING PLAN

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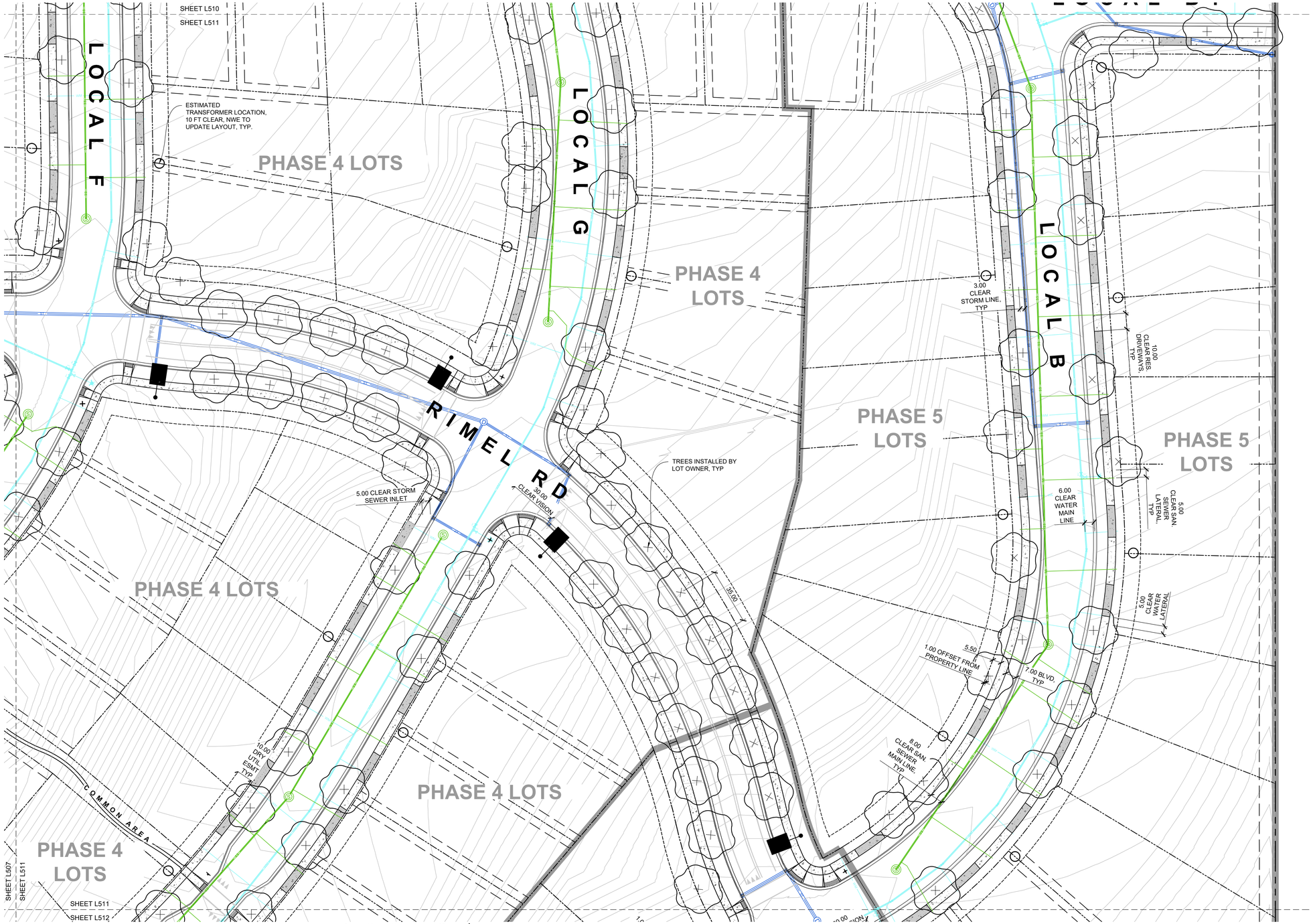

1 C-3 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'

NORTH

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PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

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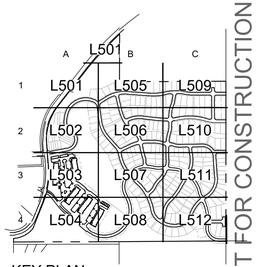

KEY PLAN

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C-3 PLANTING PLAN

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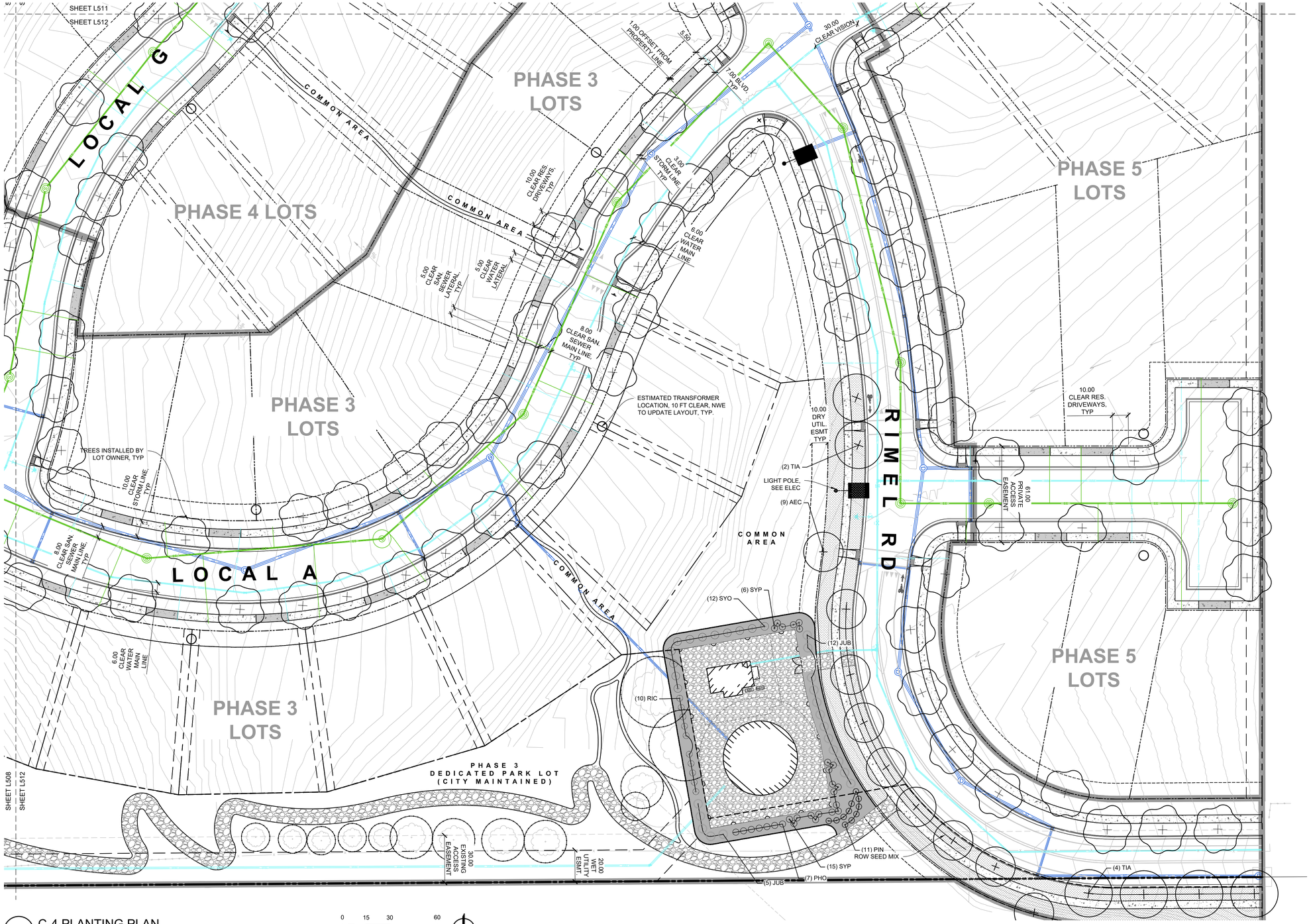

1 C-4 PLANTING PLAN

0 15 30 60
SCALE: 1" = 30'
NORTH

PLANTING LEGEND

DEVELOPER INSTALLED TREES

LOT OWNER INSTALLED TREE, SPECIES PALETTE PER PLANT SCHEDULE

DEVELOPER INSTALLED ROW SEEDING, AS SPECIFIED IN THE MISSOULA PARKS AND RECREATION DESIGN MANUAL, TEMP IRRIGATION TO ESTABLISH

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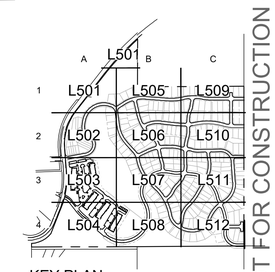

KEY PLAN

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C-4 PLANTING PLAN

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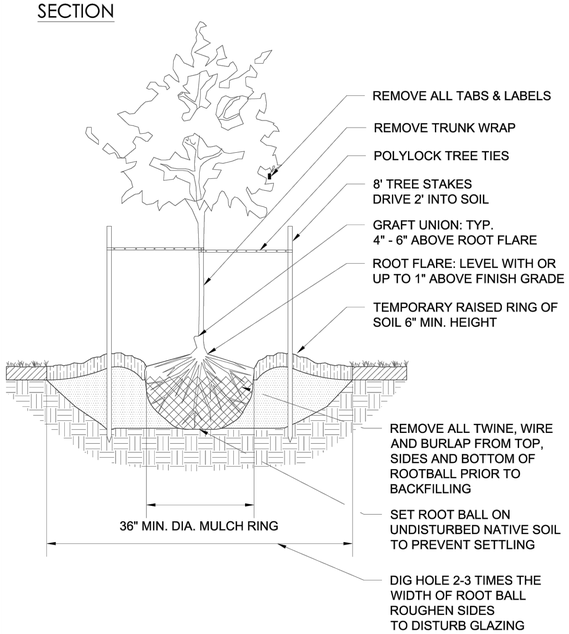


MISSOULA Parks and Rec. Dept.	BALL AND BURLAP TREE PLANTING DETAIL		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-101

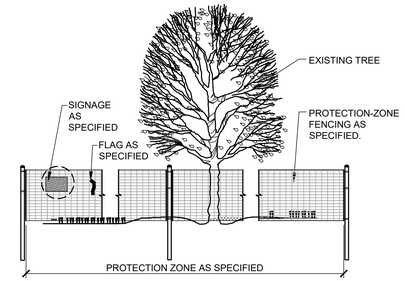
1 BALL AND BURLAP TREE PLANTING

NOTES:

1. Plant material must meet the minimum acceptable standard set by the American Association of Nurserymen's American Standard of Nursery Stock: ANSI Z60.1. Broken, damaged, diseased, or substandard stock are prohibited from being planted in the public right-of-way and will be rejected.
2. Only class I (small growing) trees are permitted to be planted under or within fifteen (15') of overhead utility lines.
3. Prune only broken or damaged branches. Do not apply fertilizer at time of planting.
4. The root flare is the point where the top most structural root emerges from the trunk. The depth of the root ball shall be measured from the root flare to the bottom of the root ball. Handle B&B plants carefully when transferring to planting hole. Lift or carry by holding the root ball, not the trunk.
5. Remove any excess soil from the top of the root ball to expose the root flare. Place tree in planting hole with root flare level with or up to 1" above finish grade.
6. Remove all wire baskets and rope from root ball. Be careful to keep the root ball intact.
7. Remove all burlap from the root ball. Be careful to keep root ball intact.
8. Straighten, cut and remove any circling roots.
9. Backfill planting hole 2/3 full with existing soil, settle with water, continue to fill with soil, water again. Water thoroughly after installation to eliminate air pockets.
10. Construct a temporary raised ring of soil at edge of root ball to contain water. Remove or breach before winter.
11. Construct mulch ring with a minimum 36" diameter to a depth of 2" - 4"; leave 3" bare ground between mulch and tree trunk.
12. Set stakes parallel to prevailing wind and outside of root ball. Ties must be 1" wide minimum, flexible belt-like strapping. Do not use rope or wire. Do not over-tighten around tree. Ties should be tight enough to support the tree while allowing it to sway. Remove stakes and ties within one year after installation.
13. Trees benefit when irrigated separately from turf. Water new trees during summer months to a depth of 12" - 18" once per week (about 5 gallons of water per caliper inch) for the first 3 growing seasons. During periods of drought, new trees my need more frequent watering.

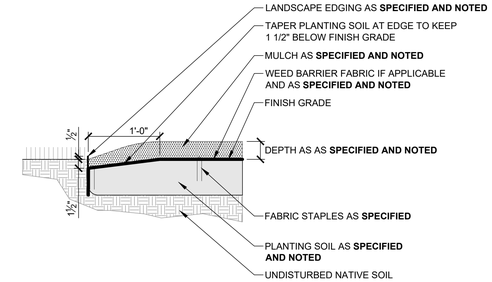
MISSOULA Parks and Rec. Dept.	BALL AND BURLAP TREE PLANTING NOTES		
	Approved by Parks & Rec. Design Mgr. Neil Miner	Drawn by: GLS Checked by: CB Adopted:	PR-101

2 BALL AND BURLAP TREE PLANTING NOTES

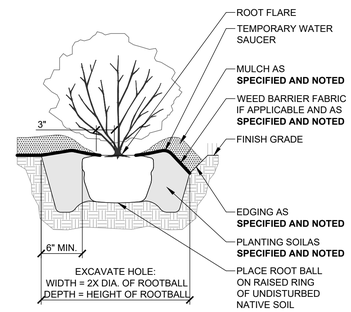


NOTES:
1. SEE TEMPORARY TREE AND PLANT PROTECTION SPECIFICATION 015639 FOR ADDITIONAL INFORMATION.
2. COORDINATE WITH OWNER'S ARBORIST FOR WORK WITHIN TREE PROTECTION AREAS.

3 TREE PROTECTION FENCING



4 STEEL EDGING



NOTES:
1. SEE PLANTING GENERAL NOTES FOR MORE INFORMATION.
2. REMOVE ALL ROOT CONTAINMENT MATERIALS FROM ROOTBALL.
3. THE ROOT FLARE OF ALL SHRUBS SHALL BE LEVEL WITH OR UP TO 1" ABOVE GRADE.
6. ALL SHRUBS SHALL BE INSTALLED WITH A TEMPORARY SAUCER OF RAISED SOIL AT THE EDGE OF ROOT BALL TO CONTAIN WATER. REMOVE OR BREACH WATER SAUCER BEFORE WINTER.
7. PULL MULCH AWAY FROM ROOT FLARE 3".

5 SHRUBS PLANTING

Cushing Terrell.
cushingterrell.com
800.757.9522

HILLVIEW WAY
MISSOULA, MONTANA
WILDROOT

PRELIMINARY PLAT

05.10.2024
DRAWN BY | DONOVAN
CHECKED BY | RUSH
REVISIONS
-

NOT FOR CONSTRUCTION - PRELIMINARY DESIGN

PLANTING DETAILS

L601