Ada County Highway District

Project Name: Overland Rd And Linder Rd - Linder Rd Overpass Phase 1
Project Number: 321062.001
GIS No: 209609

LEGEND

(See Standards For Specifics)

- C.L. of Construction or Survey
- Existing Profile or X-Section Line
- Existing Edge of Pavement or Gravel (EP / EG)
- Existing Drain or Irrigation Pipe (12"CMP SD)
- Existing Ditch or Flow line
- Existing Property or Right of Way Line (P/L)
- Existing Fence and Gate
- Existing Slope (Top / Bottom)
- Existing Curb & Gutter
- Existing Curb(No Gutter)
- Existing Concrete Sidewalk
- Existing Curb,Gutter,Sidewalk and Approach
- Existing Utility Line With Initial (—P—or—W—or—G—or—Tor—TV—or—Sew—or—Geo—)
- Water Valve or Meter
- Gas Valve or Meter
- Fire Hydrant
- Signal Pole
- Light Pole
- Utility Pole With Anchor
- Sign, Stop/Street Sign and Mailbox
- Existing and New Manholes
- Existing and New Catch Basin
- New Sediment Box
- Existing and New Irrigation Box
- Deciduous And Evergreen Tree
- Deciduous And Evergreen Bushes
- Existing Building
- River, Creek, or Canal
- Revision Note (2)
- Construction Note (N)
- Street Address (3456)
- Property Number or Curve Number (4 / 9)
- Bench Mark and Monument
- Section & 1/4 Section Corner (10 11 15 14 / 15 14)
- Design Plan Edge of Pavement or Gravel (EP / EG)
- Design Profile For TC or Pipes
- Design Profile Grade Break
- Design Profile PC or PT
- Design Ditch or Flow line
- Design SD or Irrg. Pipe on Plan View
- New Property or Right of Way Line (R/W)
- New Easement Line
- New Retaining Wall
- Limits of Cut Slope
- Limits of Fill Slope
- Section Line
- New Curb and Gutter
- New Curb,Gutter,Sidewalk, and Approach (20')
- New Ped Ramp
- New Valley Gutter
- Sod Repair
- Asphalt Repair
- Gravel Repair
- Concrete Repair
- Landscape Rock

UTILITIES

- T — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Lumen
- G — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Intermountain Gas
- P — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Idaho Power
- W — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By City Of Meridian
- TV — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction Sparklight
- FO — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By ACHD
- F2 — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Syringa (Line 'FOS')
- F3 — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Lumen (Line 'FOC')
- F6 — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Zayo (Line 'FOZ')
- F9 — Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Sparklight (Line 'FOP')

Utility Coordination Was Requested Through Achd During Design Of This Project. Utility Information Is Shown Only For Surface Features And If Provided By The Owner Of The Utility For Non-surface Features.

Utility Adjustments, Relocations, Or Replacements May Or May Not Be Completed Prior To Construction. The Contractor Shall Coordinate And Accommodate Work With The Utility Companies.

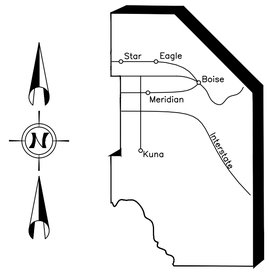
Call Digline
2 Business Days Prior To Excavation
Ph. # 811 To Request Underground
Utility Locates

Contact Scott Bennett
ACHD Utility Supervisor
For Information Call 387-6259

PROJECT DATUM:

The Horizontal Datum for this Project is Based From Ada County Benchmark Information About Ada County Point No. 100502 and CAF of 1.0001528315 was Applied to Project Points to Ground Values. Elevations Shown are NAVD 88 (GEOID18) Based From NGS Brass Cap M 86.

Vicinity Map
N.T.S.



ADA COUNTY

SHEET INDEX

Percent Complete: 99%
Date: 09/2022
Surveyed By: A. Hofen
Date: 4/2024
Drawn By: A. CORLEY
Date: 4/2024
Design By: J. THORNTON
Project Name: Overland Rd And Linder Rd – Linder Rd Overpass Phase 1
Project No: 321062.001

ACHD

Certification Of Compliance With Standards

The Design And Plans Have Been Prepared In Substantial Conformance With The Policy, Design, And Drafting Standards In Effect At The Time Of Preparation.

PROFESSIONAL ENGINEER — REGISTERED — F8C8B3F4148C441 — 7756 — 5/22/2024 — STATE OF IDAHO — DONN R. CARNAHAN

Parcel ID No.	Parcel Assessor ID Number	Record Owner	Address	Assessed Ownership Size (SF)	Prescriptive ROW (SF)	Right Of Way Required (SF)	Easements (SF)		Remaining Ownership Size (SF)	Construction Sheet Number
							Perm. (S,U,D,B,SW)	Temp.		
1	R0525200020	Idaho Auto Mall LLC	1800 W Seabrook St Meridian, ID 83642-0000	533784		2871	8284 (D)	5113	530913	3, 10
81	S1213336185	Debgar LLC	1580 W Greenhead Dr Meridian, ID 83642-0000	12632			2028 (S)		12632	8, 10
82	S1224223501	Aspen Grove Holdings LLC	1575 W Overland Rd Meridian, ID 83642-0000	94569		1342	1770 (S)		93227	4, 8
83	S1224223551	S3 Investments LP	1750 S Linder Rd Meridian, ID 83642-0000	188615					188615	4
84	R2737350120	Fall Creek HOA INC	S Spoonbill Ave Meridian, ID 83642-0000	45128					45128	4
85	R2737350220	Miguel M Lopez	1554 W Elias Dr Meridian, ID 83642-0000	22477					22477	4
86	S1223110500	Louie D Shearer	1807 S Linder Rd Meridian, ID 83642-0000	43560					43560	4
87	R8048710052	Idaho Pacific Lumber Company Inc	1770 S Spanish Sun Way Meridian, ID 83642-0000	52795					52795	4
88	R8048710046	Southridge Farm LLC	S Linder Rd Meridian, ID 83642-0000	35981					35981	
89	R8048710025	Southridge Farm LLC	1716 S Spanish Sun Way Meridian, ID 83642-0000	75185		1171		357	74014	4, 8
90	R0525200040	Idaho Auto Mall LLC	1566 S Spanish Sun Way Meridian, ID 83642-0000	51183		3762	1428 (S)	1556	47421	8

PARCEL OWNERSHIP TABLE

BENCHMARK/ MONUMENT NO.	NORTHING	EASTING	ELEVATION	BENCHMARK/MONUMENT NAME
12	701867.44	2443562.26	2672.39	BRASS CAP
117	701855.65	2449359.46	2608.10	5/8" IRON ROD 12087
120	701869.59	2449232.38	2607.22	5/8" IRON ROD 11118
121	701845.89	2449206.59	2607.91	5/8" IRON ROD 11118
124	701742.04	2449357.93	2607.95	5/8" IRON ROD NO CAP BENT
134	701716.55	2449233.86	2609.23	5/8" IRON ROD 5617
135	701746.78	2449204.07	2609.47	ALUMINUM CAP
136	701394.05	2449328.91	2613.91	5/8" IRON ROD NO CAP BENT
139	702468.12	2449238.06	2608.90	1/2" IRON ROD NO CAP
140	702620.10	2449222.75	2605.57	ALUMINUM CAP
145	702209.03	2449334.75	2603.93	1/2" IRON ROD 4116
150	701793.90	2449282.69	2609.54	BRASS CAP 5291

BENCHMARK/MONUMENT TABLE

0 20 40 60
Plan Scale

KELLER ASSOCIATES

PROFESSIONAL ENGINEER
REGISTERED
DocuSigned by:
[illegible]
F8C8B3F4145C441...
7756
5/22/2024
STATE OF IDAHO
DONN R. CARNAHAN

Revisions:

• S I G N A T U R E S •

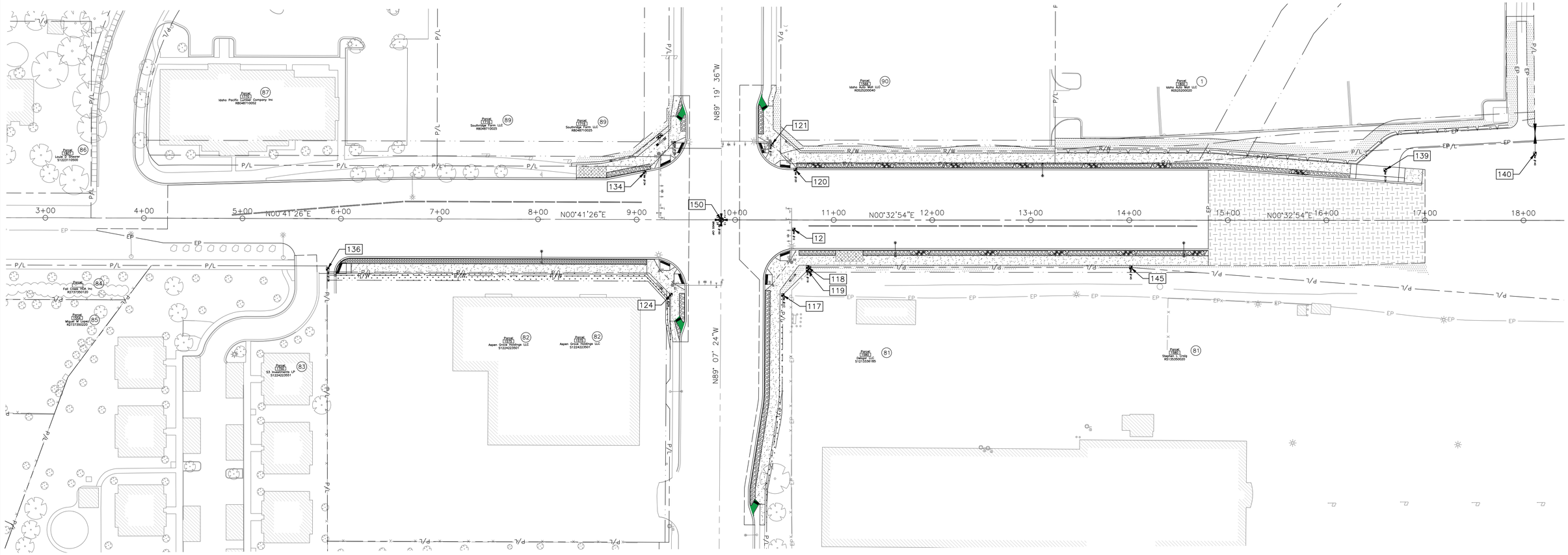
Design By: J. Thornton Date: 4/2024 Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

OWNERSHIP & CONTROL TABLES

Control Point Table

Point #	Northing	Easting	Elevation	Description
12	701867.44	2443562.26	2672.39	BRASS CAP
117	701855.65	2449359.46	2608.10	BARFFV 12087
118	701881.10	2449331.36	2607.44	BARFFV 12087
119	701881.10	2449334.44	2607.54	BARFFV 12087
120	701869.59	2449232.38	2607.22	BARFFV 11118
121	701845.88	2449206.59	2607.91	BARFFV 11118
124	701742.04	2449357.93	2607.94	BARFFV NO CAP BENT POB
134	701716.55	2449233.86	2609.23	BARFFV 5617
139	702468.12	2449238.06	2608.90	BARFHF NO CAP
140	702620.10	2449222.75	2605.57	ALUMINUM CAP
145	702209.02	2449334.74	2603.93	BARFHF 4116
150	701793.90	2449282.69	2609.54	BRASS CAP 5291



0 50 100 150
Plan Scale

KELLER ASSOCIATES

Revisions:

• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024

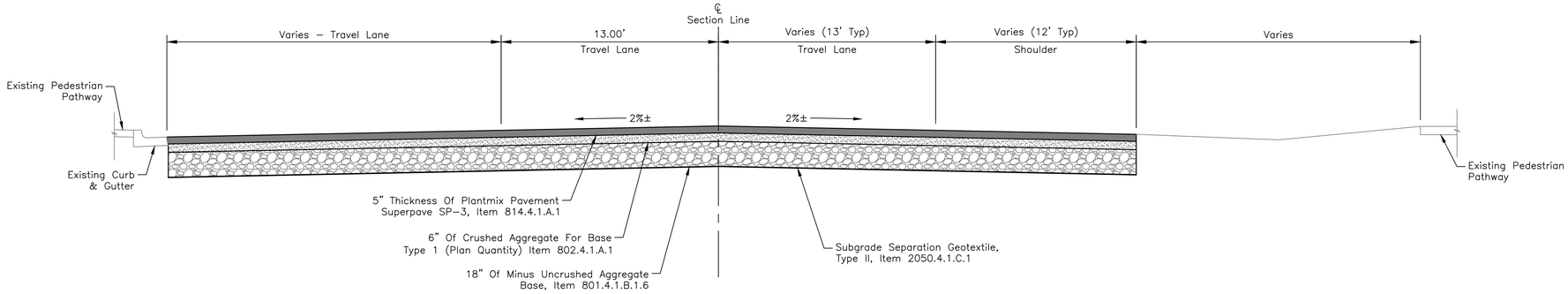
Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

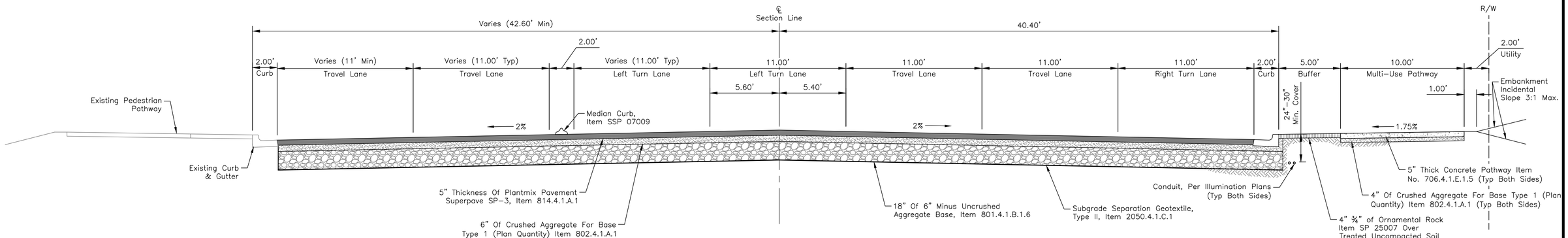
PROJECT CONTROL SHEET

PROFESSIONAL ENGINEER REGISTERED — Digitally signed by — FBC8B3F4145C441... — 7756 — 5/22/2024 — STATE OF IDAHO — DONN R. CARNAHAN

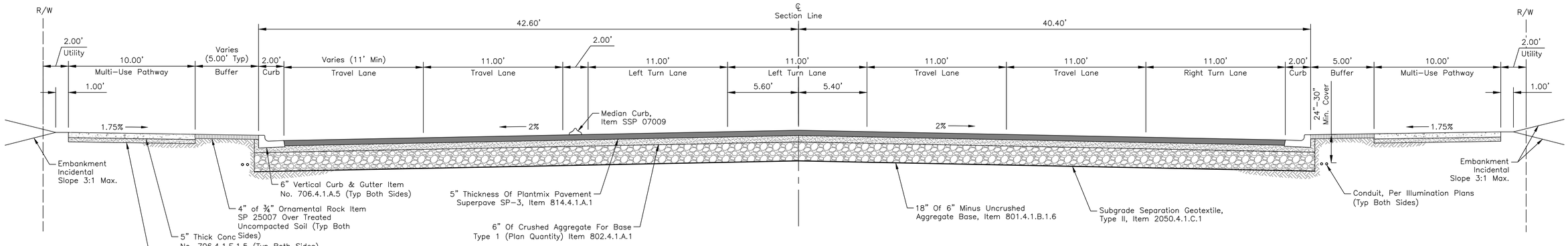
J:\222104 LINDER RD, OVERLAND RD TO FRANKLIN RD\C_DESIN_CAD\3_DESIGN\D_PLANS BID 1\OWNERSHIP & CONTROL SHEET.DWG LAST SAVED: 5/21/2024 2:22 PM PRINTED: 5/22/2024 1:40 PM



Typical Roadway Section 1
Sta. 4+24.02 To 6+10.37



Typical Roadway Section 2
Sta. 6+10.37 To Sta. 8+38.73



Typical Roadway Section 3
Sta. 8+38.73 To Sta. 9+53.15

KELLER ASSOCIATES

Revisions:

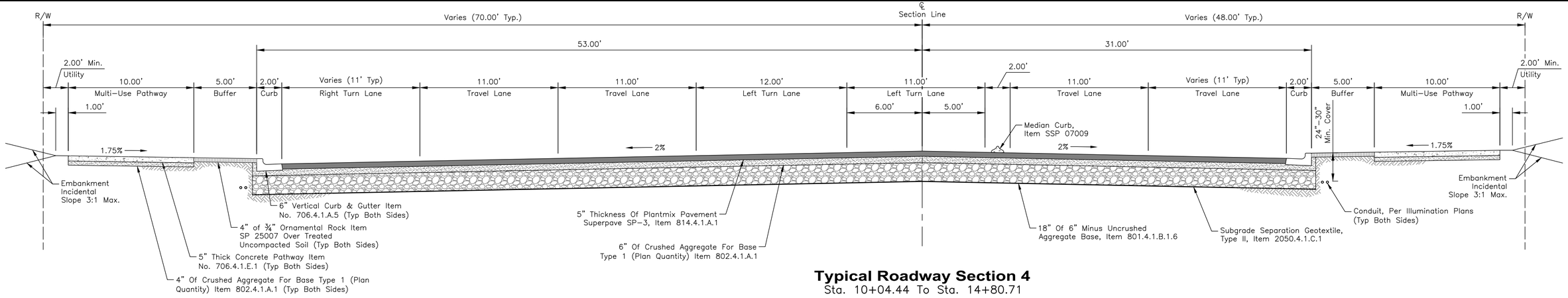
• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024 Drawn By: A. Corley Date: 4/2024

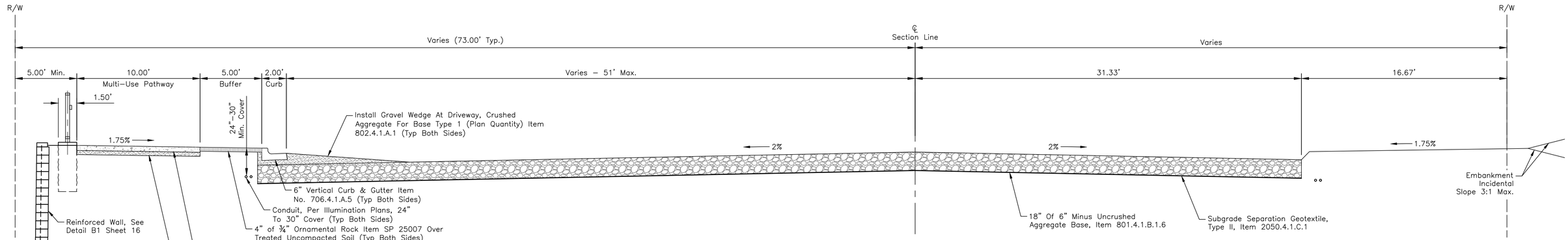
• D E T A I L T I T L E •

TYPICAL SECTIONS

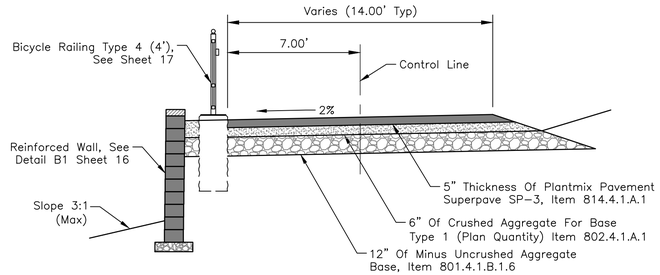
PROFESSIONAL ENGINEER REGISTERED Digitally signed by DONN R. CARNAHAN FBC8B3F4145C441... 7756 5/22/2024 STATE OF IDAHO DONN R. CARNAHAN



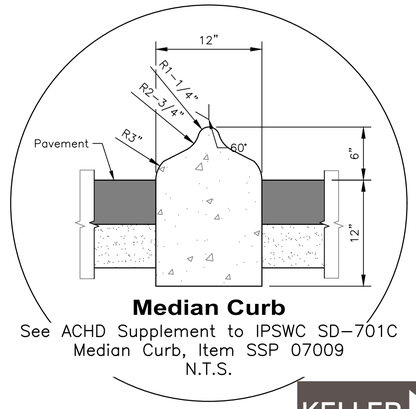
Typical Roadway Section 4
Sta. 10+04.44 To Sta. 14+80.71



Typical Roadway Section 5
Sta. 14+80.71 To Sta. 17+00



Typical Section 13
Access Driveway at Storm Basin



Median Curb
See ACHD Supplement to IPSWC SD-701C
Median Curb, Item SSP 07009
N.T.S.

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Revisions:

• S I G N A T U R E S •

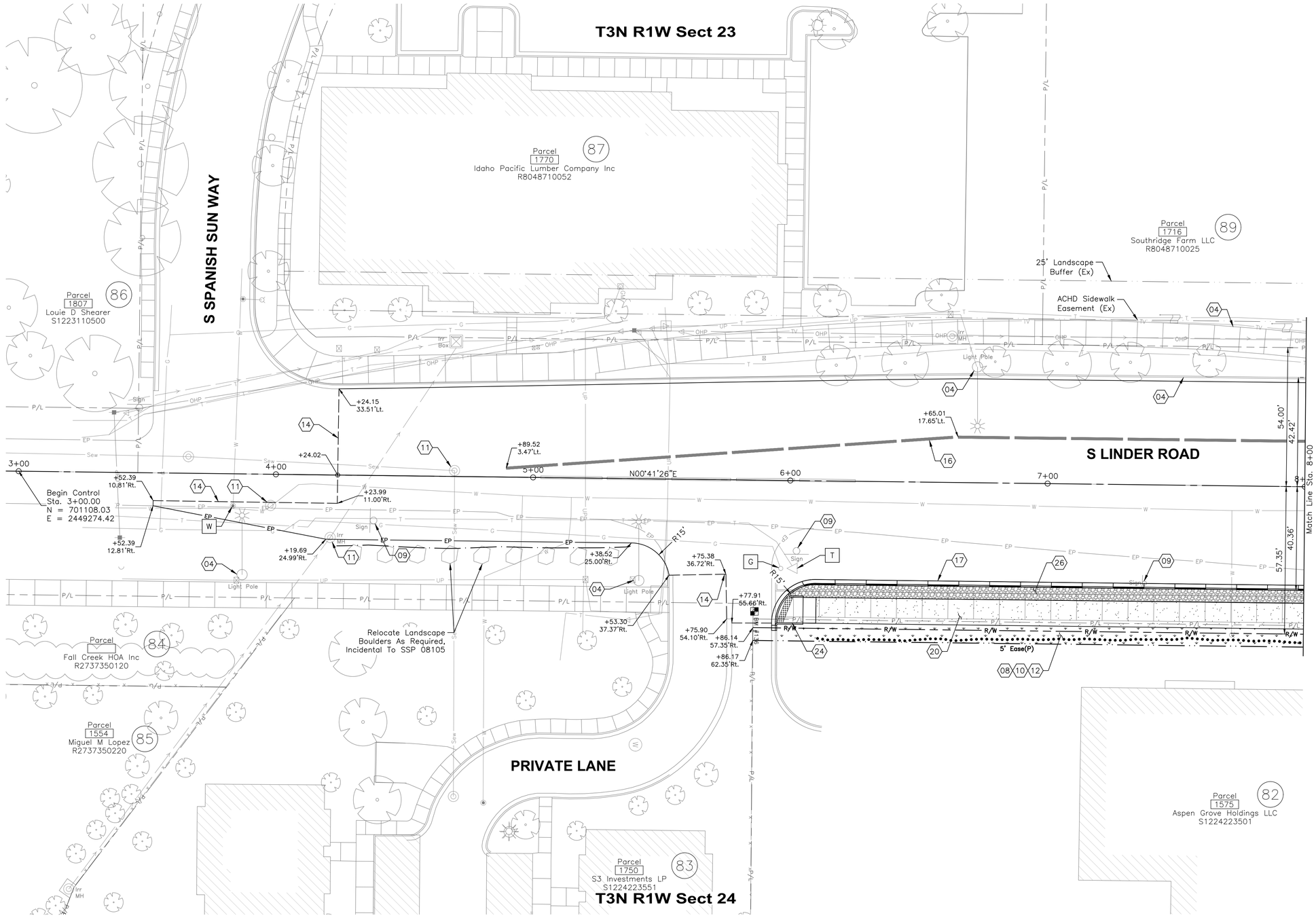
Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

TYPICAL SECTIONS

Professional Engineer Registered by FRC8B3F41454441 7756 05/22/2024 State of Idaho Donn R. Carnahan



N O T E S

- 04 Retain & Protect
- 08 Remove & Reset Sprinkler System, Item SSP 29101
- 09 Remove & Salvage Roadside Sign, Item 1135.01.06
- 10 Sod Repair, Item SSP 29064
- 11 Adjust Manhole To Grade, Item 2030.4.1.A.1
- 12 4" Topsoil, Item SSP 25050 & Incidental To Item SSP 29064
- 14 Sawcut Incidental To Project, Incidental To Item 814.4.1.A.1
- 16 Median Curb, 20' Sections with 2' Gaps, Location Callouts To Center Of Curb, Item SSP 07009
- 17 Standard 6-Inch Vertical Curb & Gutter, Item 706.4.1.A.5
- 20 Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1.5
- 24 Pedestrian Ramp w/Detectable Warning Domes, Type C, Item 706.4.1.H.1.C.C3
- 26 3/4" Crushed Ornamental Rock, Item SP 25007

BENCH MARKS:

BM #136 – 5/8" Iron Rod No Cap
Sta. 5+86.65, 51.0' Rt.
N: 701394.05
E: 2449328.91
Elev: 2613.91

0 20 40 60
Plan Scale

KELLER ASSOCIATES

Digital Signature
Professional Engineer Registered
7756
05/22/2024
State of Idaho
Donn R. Carnahan

Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022

J:\22104 LINDER RD, OVERLAND RD TO FRANKLIN RD\C_DESN_CAD\3_DESIGN\D_PLANS BID 1\ROADWAY PLAN SHEETS.DWG LAST SAVED: 5/22/2024 8:21 AM PRINTED: ----

3+00 4+00 5+00 6+00 7+00 8+00

2624 2622 2620 2618 2616 2614 2612 2610 2608 2606 2604 2602 2600 2598 2596 2594 2592

50.00' Vertical Curve
PVI Sta 4+70.14
PVI Elev.2618.33
K=33.29

GB Sta. 4+24.02
Match Existing Elevation

PVC Sta. 4+45.14
CL Elev. 2618.49

PVT Sta. 4+95.14
CL Elev. 2617.80

-0.63%

Design Grade
@ CL

Existing Grade
@ CL

-2.13%

Begin Sta.5+95.38
TBC Elev. Match Ex
Offset 58.35' Rt.

PT Sta.6+10.37
TBC Elev. 2615.00
Offset 40.35' Rt.

TBC Rt.

GB/PI Sta.7+63.70
TBC Elev. 2611.73
Offset 40.35' Rt.

Exist 18" RCP Irrig

Exist Sanitary
Sewer

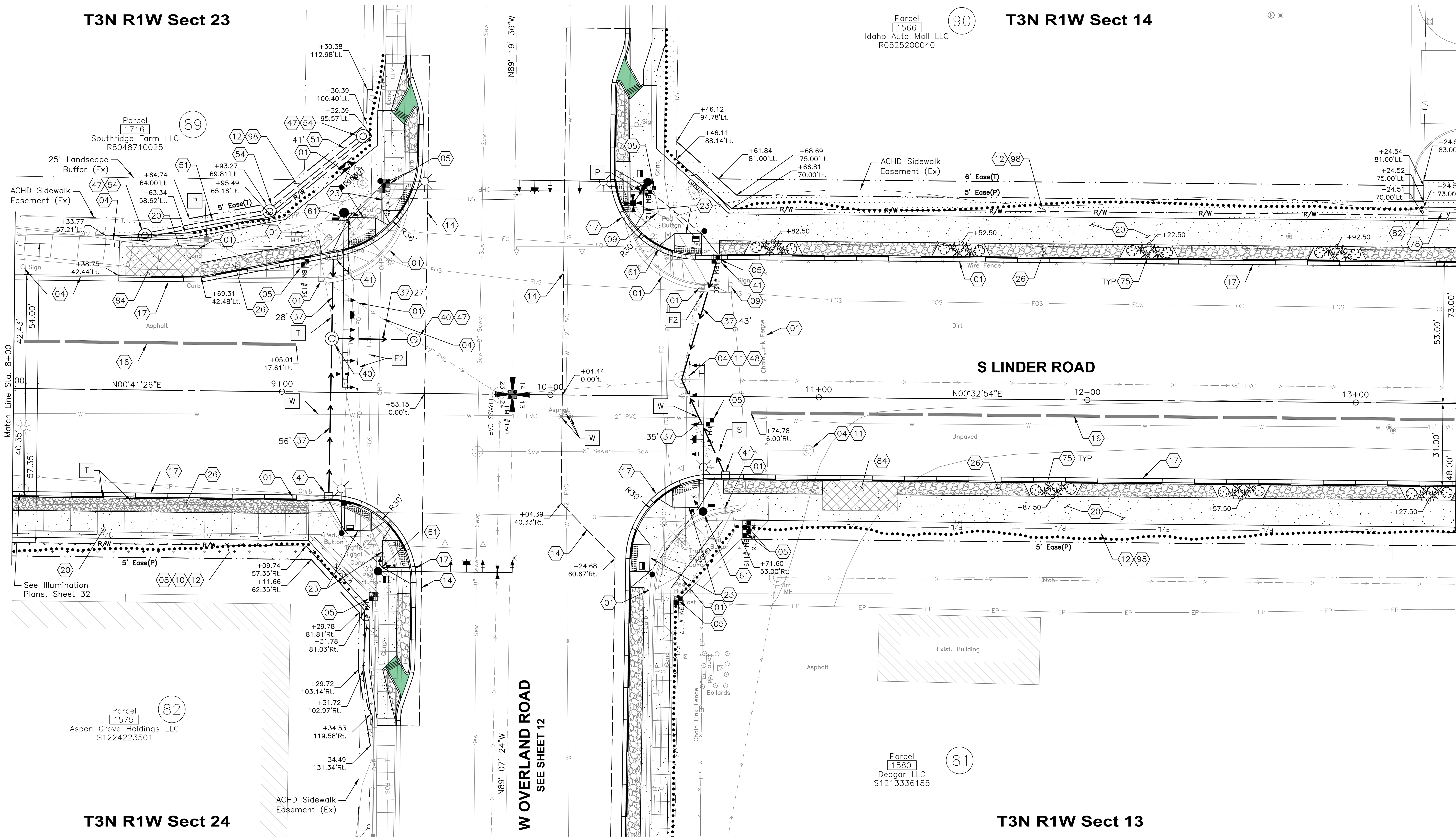
0 20 40 60
Plan Scale

J:\22104 LINDER RD, OVERLAND RD TO FRANKLIN RD\C_DESN_CAD\3_DESIGN\D_PLANS BID 1\ROADWAY PROFILE SHEETS.DWG LAST SAVED: 4/19/2024 1:54 PM PRINTED: 5/22/2024 1:41 PM

KELLER ASSOCIATES

Digital Signature — Electronically signed by: DONN R. CARNAHAN — PROFESSIONAL ENGINEER — REGISTERED — F8C8B3F41454C441... — 7756 — 05/22/2024 — STATE OF IDAHO

Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022



N O T E S

- (01) Removal of Obstructions, Item 201.4.1.C.1
- (04) Retain & Protect
- (05) Reference and Reset Monuments, Item 2020.4.1.F.1
- (08) Remove & Reset Sprinkler System, Item SSP 29101
- (09) Remove & Salvage Roadside Sign, Item 1135.01.06
- (10) Sod Repair, Item SSP 29064
- (11) Adjust Manhole To Grade, Item 2030.4.1.A.1
- (12) 4" Topsoil, Item SSP 25050 & Incidental To Item SSP 29064
- (14) Sawcut Incidental To Project, Incidental To Item 814.4.1.A.1
- (16) Median Curb, 20' Sections with 2' Gaps, Location Callouts To Center Of Curb, Item SSP 07009
- (17) Standard 6-Inch Vertical Curb & Gutter, Item 706.4.1.A.5
- (20) Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1.5
- (23) Pedestrian Ramp w/Detectable Warning Domes, Type A, Item 706.4.1.H.1.A.A
- (26) 3/4" Crushed Ornamental Rock, Item SP 25007
- (37) 12" PVC – C900, Item 601.4.1.A.05.12A
- (40) 48" Dia. Storm Drain Catch Manhole, Item 602.4.1.E.1.048
- (41) Catch Basin – Type I, Item 602.4.1.F.1
- (47) Connect Existing Pipe to New Structure, Incidental To Item 602.4.1.E.1.048
- (48) Connect New Pipe to Existing Structure, Incidental To Item 601.4.1.A.05.12A
- (51) 18" RCP, Irrigation Pipe, Item 601.4.1.A.01.18A
- (54) 48" Dia. Irrigation Manhole, Item 602.4.1.E.1.048
- (61) Traffic Signal & Related Equipment Modified, See Signal Plans, Item 1131.01.01
- (75) Landscape Areas, See Landscape Plans
- (78) Reinforced Retaining Wall, See Details B1 Sheet 16, Item SP 20113
- (82) Bicycle Railing Type 4, See Sheet 17, Item SP 20109
- (84) Concrete Bus Stop Boarding/Alighting Pad, 11'x28' Minimum, Continue Concrete Multi-Use Pathway to Back of Curb,Thickness 5", Item 706.4.1.E.1.5
- (98) Hydro Seeding As Required, Item SSP 29060

BENCH MARKS:

BM #150 – Brass Cap 5291
Sta. 9+85.92, 0.0' Rt.
N: 701793.30
E: 2449282.69
Elev: 2609.54

Plan Scale: 0 20 40 60

KELLER ASSOCIATES

Digital Signature

Professional Engineer 7756, 5/22/2024, State of Idaho, Donn R. Carnahan

Revisions:

Design By: J. Thornton	Date: 1/2024	Drawn By: A. Corley	Date: 1/2024	Survey By: A. Hafen	Date: 09/2022

8+00 9+00 10+00 11+00 12+00 13+00

2618 2616 2614 2612 2610 2608 2606 2604 2602 2600 2598 2596 2594 2592 2590 2588 2586

GB Sta.8+20
TBC Elev. 2610.53
Offset 40.35' Rt.

Begin Sta.8+38.75
TBC Elev. 2610.26
Offset 42.44' Lt.

GB/PI Sta.8+69.31
TBC Elev. 2609.83
Offset 42.48' Lt.

PC Sta.9+20.60
TBC Elev. 2609.12
Offset 52.93' Lt.

PC Sta.9+18.73
TBC Elev. 2609.22
Offset 40.35' Rt.

Sta. 9+29.11
48" Dia. Irrig MH O.2
95.46' Lt.
Rim Elev. 2609.34
18" Dia. Inv. 2605.50' (SE)
18" Dia. Inv. 2605.50' (W)

PT Sta.9+49.42
TBC Elev. 2609.64
Offset 88.18' Lt.

PT Sta.9+48.83
TBC Elev. 2608.46
Offset 70.45' Rt.

PC Sta.10+23.55
TBC Elev. 2608.74
Offset 83.07' Lt.

PC Sta.10+30.68
TBC Elev. 2608.36
Offset 60.73' Rt.

PT Sta.10+53.55
TBC Elev. 2607.78
Offset 53.00' Lt.

PT Sta.10+60.68
TBC Elev. 2608.11
Offset 31.00' Rt.

TBC Rt.
TBC Lt.
-1.41%
-1.33%
-1.38%
1.06%
1.60%
-0.53%
-2.03%
-1.54%
-1.54%
Existing Grade @ CL

EX FO
EX TEL
EX FO
EX TEL
EX FO
EX FO

18" 43 LF @ 1.50%
Exist 18" RCP Irrig

12" 35 LF @ 0.22%
12" 43 LF @ 0.22%

Exist 12" W

Exist 36" PVC Storm

Sta. 10+65.51
Catch Basin A5.E, 29.50' Rt.
Rim Elev. 2607.60
12" Dia. Inv. 2604.60' (SW)

Sta. 10+61.84
Catch Basin A5.W, 51.50' Lt.
Rim Elev. 2607.21
12" Dia. Inv. 2604.20' (E)

Exist 36" PVC Storm

223.03'
Vertical Curve
PVI Sta 13+81.43
PVI Elev.2602.73
K=70.39
Left TBC

PVC Sta.12+69.91
TBC Elev. 2604.44
Offset 53.00' Lt.

370.65'
Vertical Curve
PVI Sta 14+55.23
PVI Elev.2602.03
K=70.38
Right TBC

PVC Sta.12+69.91
TBC Elev. 2604.88
Offset 31.00' Rt.

Exist 30" RCP Irrig

Sta. 8+48.30
48" Dia. Irrig MH O.4
57.59' Lt.
Rim Elev. 2610.39
18" Dia. Inv. 2607.00' (S)
18" Dia. Inv. 2607.00' (N)

Sta. 8+94.60
48" Dia. Irrig MH O.3
67.02' Lt.
Rim Elev. 2609.61
18" Dia. Inv. 2606.29' (S)
18" Dia. Inv. 2606.29' (NW)

18" 41 LF
@ 1.77%

Sta. 9+18.55
Catch Basin A6.2.W, 50.98' Lt.
Rim Elev. 2608.71
12" Dia. Inv. 2605.91' (E)

Sta. 9+17.90
Catch Basin A6.2.E, 38.85' Rt.
Rim Elev. 2608.79
12" Dia. Inv. 2605.97' (W)

Sta. 9+18.32
Catch MH A6.2, 20.00' Lt.
Rim Elev. 2609.42
12" Dia. Inv. 2605.84' (W)
12" Dia. Inv. 2605.84' (E)
12" Dia. Inv. 2605.74' (N)

12" 27 LF
@ 0.20%

Sta. 9+48.89
Catch MH A6.1, 19.96' Lt.
Rim Elev. 2609.35
12" Dia. Inv. 2605.58' (NE)
12" Dia. Inv. 2605.68' (S)

Exist. Sta. 9+81.34
Catch MH A6 (E), 0.24' Rt.
Rim Elev. 2609.53
12" Dia. Inv. 2605.50' (SW)
30" Dia. Inv. 2598.85' (E)
36" Dia. Inv. 2598.84' (N)

Exist. Sta. 10+48.88
Catch MH A5 (E), 6.15' Lt.
Rim Elev. 2608.36
36" Dia. Inv. 2598.40' (S)
36" Dia. Inv. 2598.52' (N)
12" Dia. Inv. 2604.10' (W)
12" Dia. Inv. 2604.51' (NE)

Exist Sanitary Sewer

0 20 40 60
Plan Scale

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Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022

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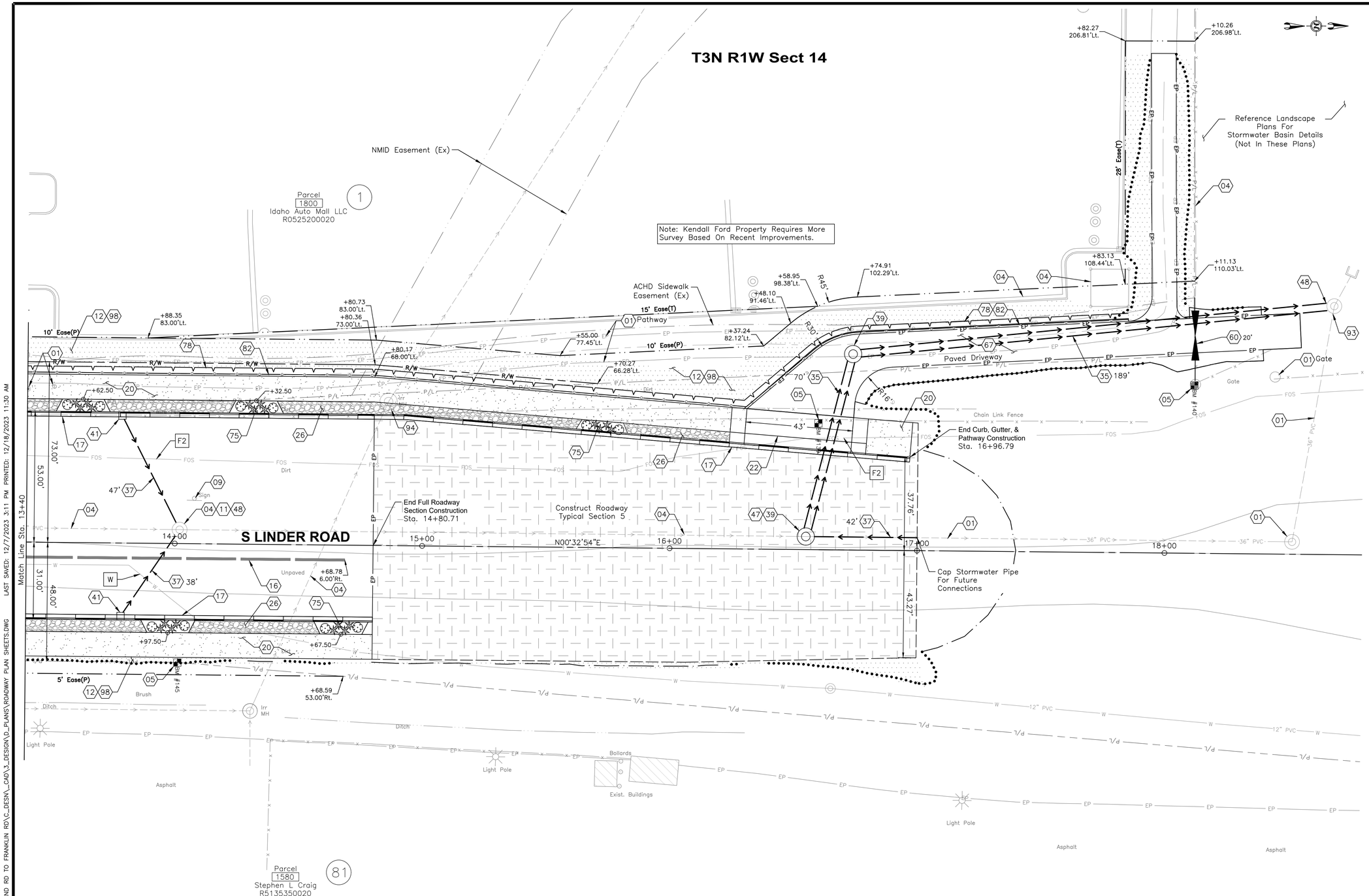

N O T E S

- (01) Removal of Obstructions, Item 201.4.1.C.1
- (04) Retain & Protect
- (05) Reference and Reset Monuments, Item 2020.4.1.F.1
- (09) Remove & Salvage Roadside Sign, Item 1135.01.06
- (11) Adjust Manhole To Grade, Item 2030.4.1.A.1
- (12) 4" Topsoil, Item SSP 25050 & Incidental To Item SSP 29064
- (16) Median Curb, 20' Sections with 2' Gaps, Location Callouts To Center Of Curb, Item SSP 07009
- (17) Standard 6–Inch Vertical Curb & Gutter, Item 706.4.1.A.5
- (20) Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1.5
- (22) Concrete Driveway Approach, Item 706.4.1.F.1
- (26) 3/4" Crushed Ornamental Rock, Item SP 25007
- (35) 36" PVC – C905, Storm Pipe, Item 601.4.1.A.01.36A
- (37) 12" PVC – C900, Item 601.4.1.A.05.12A
- (39) 72" Dia. Storm Drain Catch Manhole, Item 602.4.1.E.1.072
- (41) Catch Basin – Type I, Item 602.4.1.F.1
- (47) Connect Existing Pipe to New Structure, Incidental To Item 602.4.1.E.1.048
- (48) Connect New Pipe to Existing Structure, Incidental To Item 601.4.1.A.05.12A
- (60) Gate 6' – See Landscape Plans
- (67) Paved Driveway – Storm Basin Access; See Sheet 13 and Typical Roadway Section 13 Sheet 5
- (75) Landscape Areas, See Landscape Plans
- (78) Reinforced Retaining Wall, See Details B1 Sheet 16, Item SP 20113
- (82) Bicycle Railing Type 4, See Sheet 17, Item SP 20109
- (93) Grout Existing Pipe, Cut Pipe And Remove, Incidental To Item 601.4.1.A.05.12A
- (94) Adjust 72" Irrigation Manhole, Add Barrel Sections As Needed And Concrete Lid, Rotate Manhole Cover To Lie Within The Buffer, Item 602.4.1.E.1.072
- (98) Hydro Seeding As Required, Item SSP 29060

BENCH MARKS:

BM #145 – 1/2" Iron Rod 4116
Sta. 14+01.53, 48.1' Rt.
N: 702209.03
E: 2449334.75
Elev: 2603.93

0 20 40 60
Plan Scale

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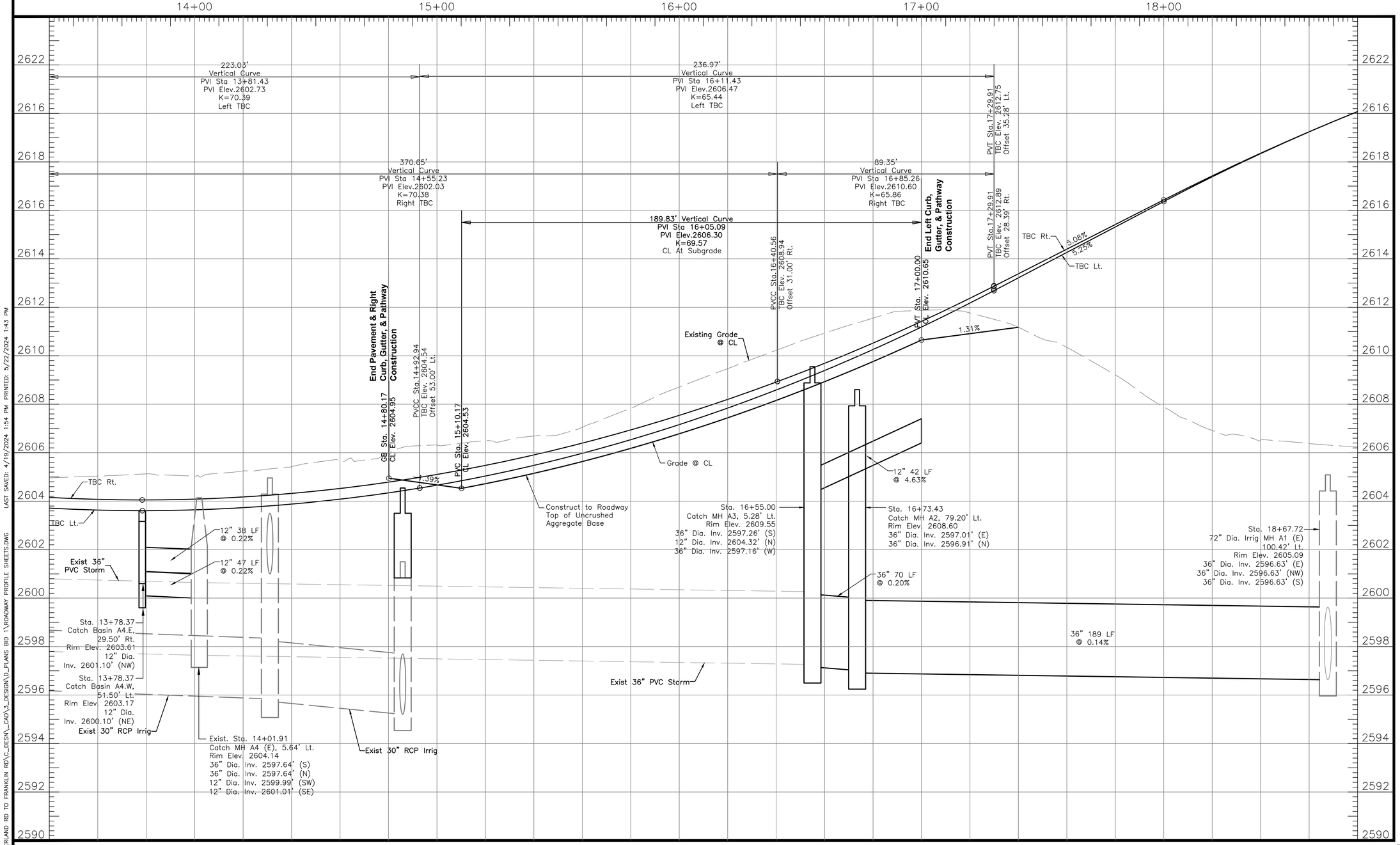

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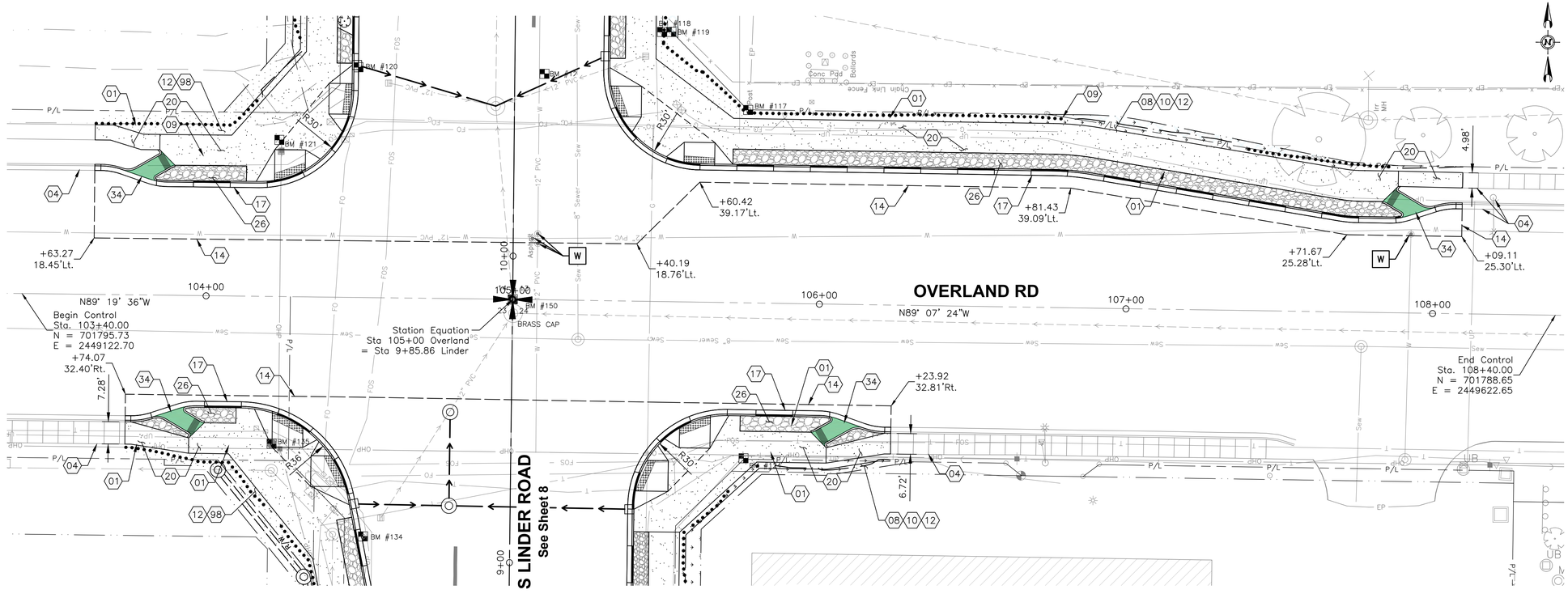

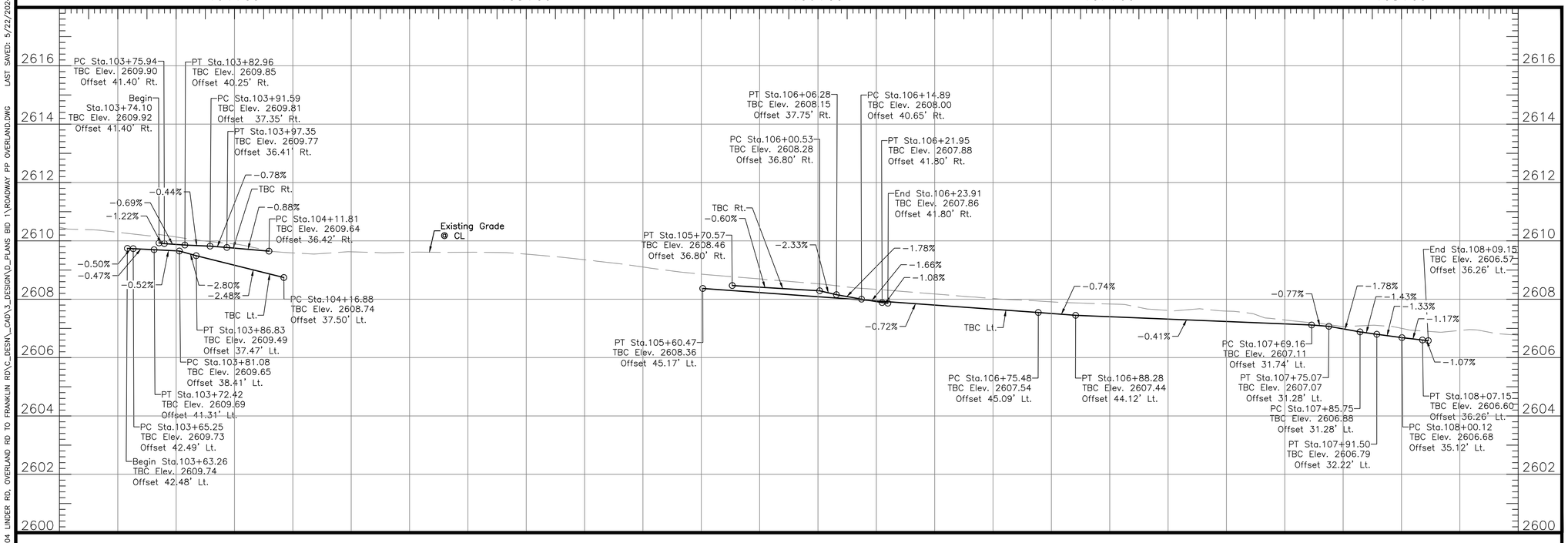

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N O T E S

01	Removal of Obstructions, Item 201.4.1.C.1
04	Retain & Protect
08	Remove & Reset Sprinkler System, Item SSP 29101
09	Remove & Salvage Roadside Sign, Item 1135.01.06
10	Sod Repair, Item SSP 29064
12	4" Topsoil, Item SSP 25050 & Incidental To Item SSP 29064
14	Sawcut Incidental To Project, Incidental To Item 814.4.1.A.1
17	Standard 6-Inch Vertical Curb & Gutter, Item 706.4.1.A.5
20	Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1.5
26	3/4" Crushed Ornamental Rock, Item SP 25007
34	Bike Ramp, See Detail A1 Sheet 14, Item 706.4.1.H.1.A.A
98	Hydro Seeding As Required, Item SSP 29060

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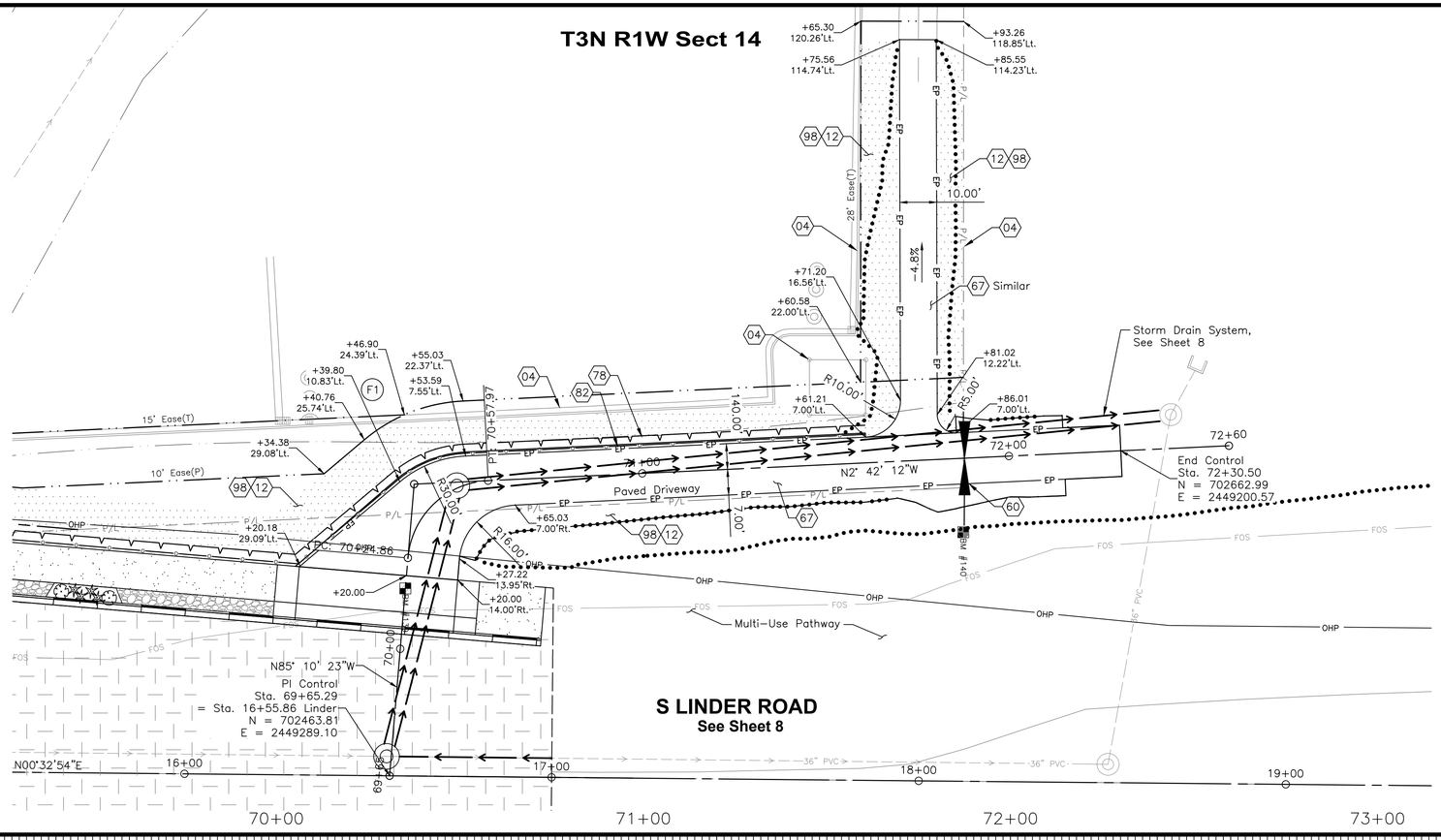
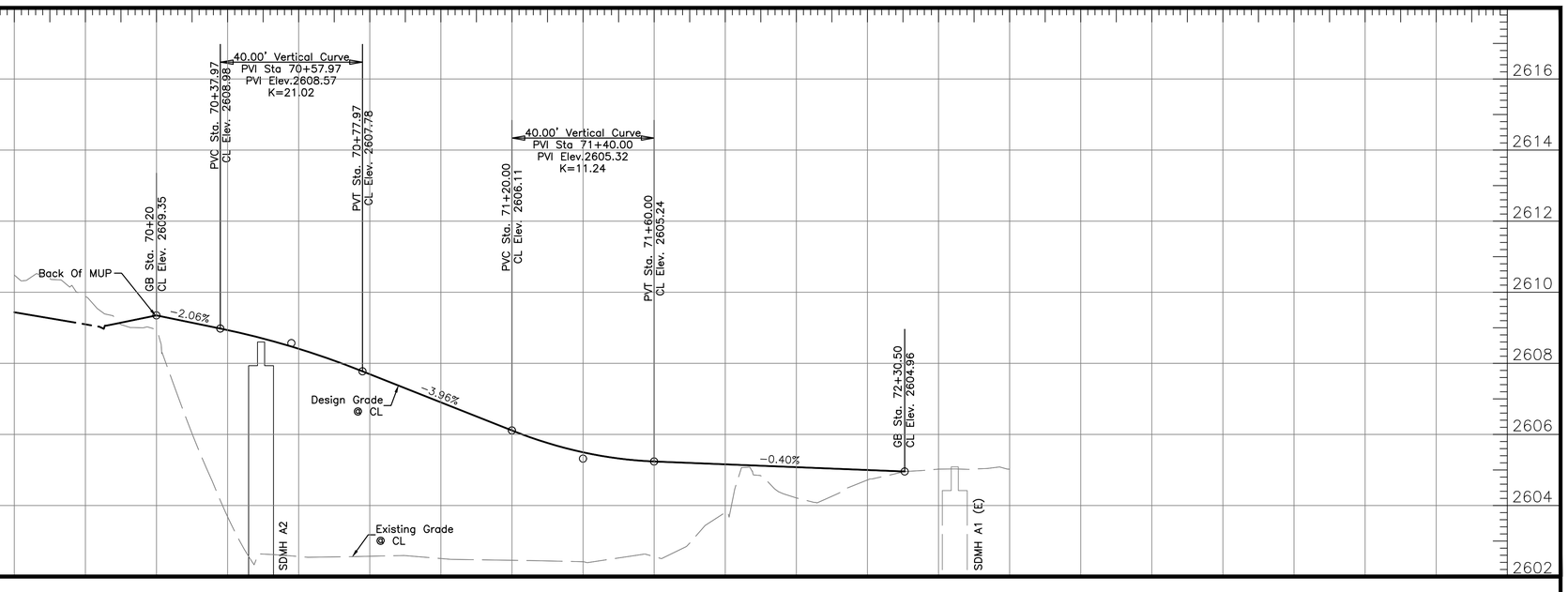
T3N R1W Sect 14

Curve (F1)

R = 23.00'
Δ = 82°28'12" Rt.
L = 33.11'
T = 20.16'



S LINDER ROAD
See Sheet 8



N O T E S

- (04) Retain & Protect
- (12) 4" Topsoil, Item SSP 25050 & Incidental To Item SSP 29064
- (60) Gate 6' – See Landscape Plans
- (67) Paved Driveway – Storm Basin Access; See Sheet 13 and Typical Roadway Section 13 Sheet 5
- (78) Reinforced Retaining Wall, See Details B1 Sheet 16, Item SP 20113
- (82) Bicycle Railing Type 4, See Sheet 17, Item SP 20109
- (98) Hydro Seeding As Required, Item SSP 29060

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Plan Scale

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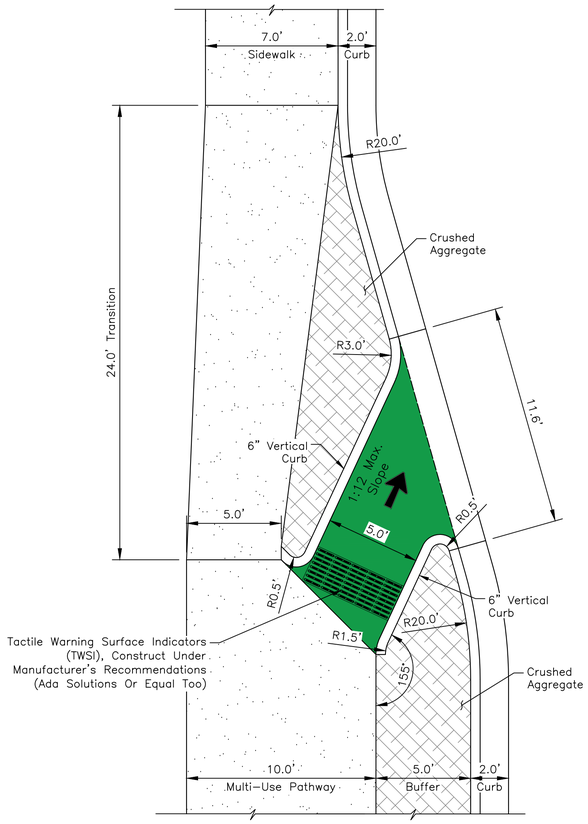
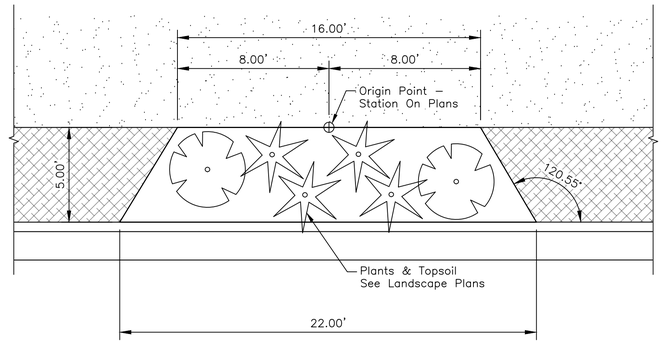


A1 BIKE RAMP - BIKE LANE/MULTI-USE PATH TRANSITION

1:4

0 4 8



A3 BUFFER PLANTER BOX

1:4

0 4 8

Revisions:

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Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

DETAIL SHEET

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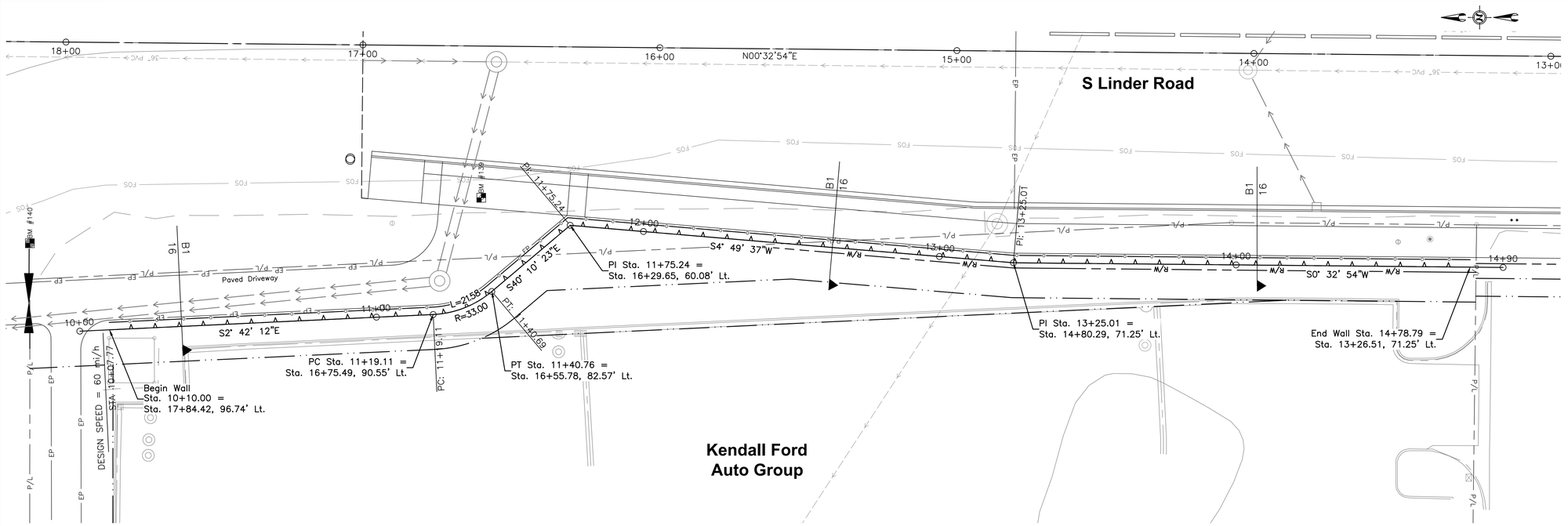
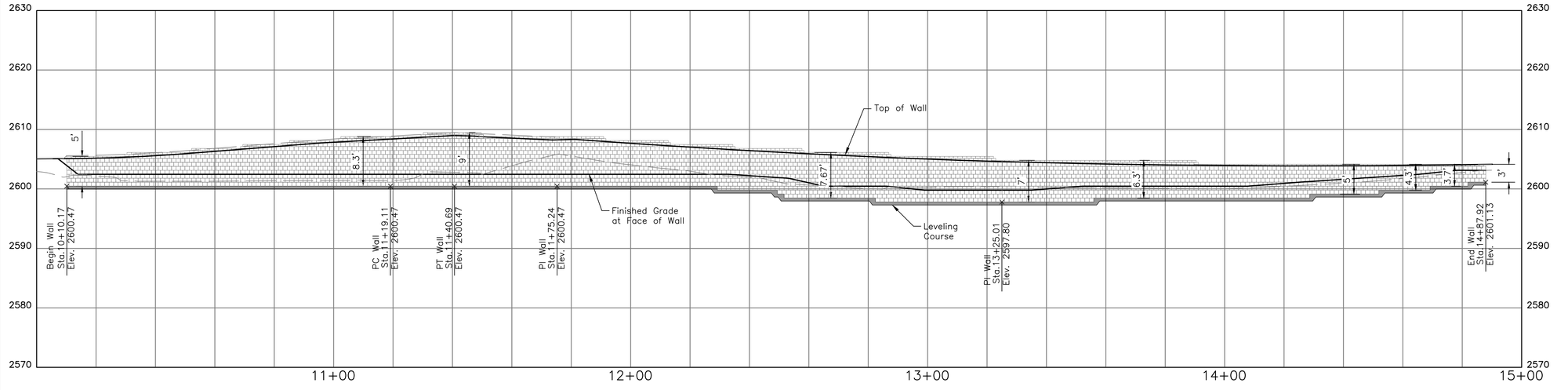
N O T E S





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Plan Scale

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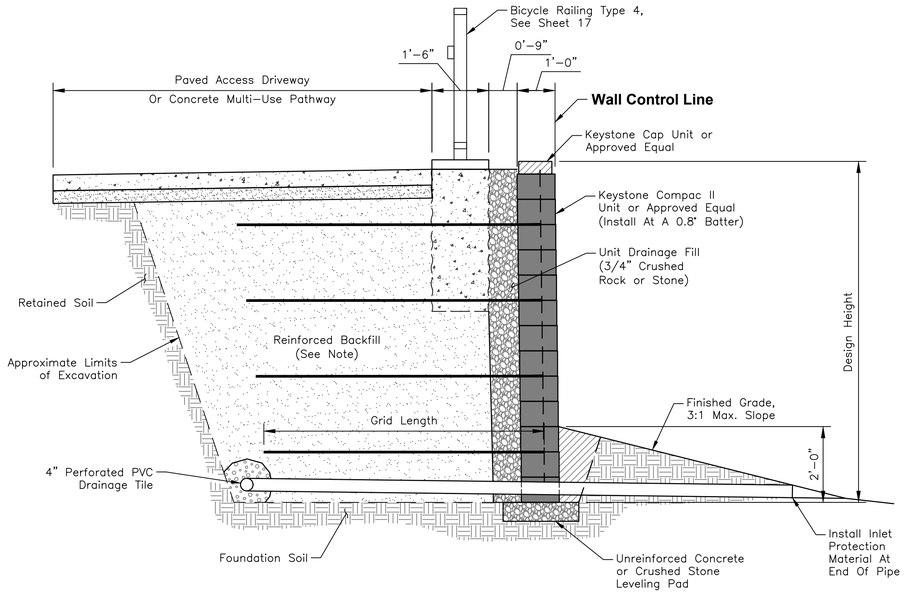
Revisions:	Design By: J. Thornton	Date: 1/2024	Drawn By: A. Corley	Date: 1/2024	Survey By: A. Hafen	Date: 09/2022



Notes:
1. Consider Railing Loads In Accordance With AASHTO LRFD Bridge Design Specifications 9th Edition 13.8 For Pedestrian Loading And 13.9 For Bicycle Railing With The Reinforced Wall And Grid Reinforcement.
2. Consider Surcharge Load Corresponding To The Wall Height Indicated On The Wall Profile Drawing (Sheet 15) In Accordance With AASHTO LRFD Bridge Design Specifications 9th Edition 3.11.6.4 And Table 3.11.6.4-2.
3. When Site Conditions Require, Wrap Drainage Tile In 3/4" Aggregate And Filter Fabric With Drainage Geotextile Per ITD Spec Section 718.05, As Directed By Geotechnical Engineer.
4. Use Grid Reinforcement When Walls Exceed Minimum Height For Gravity Wall.
5. Install Per Specifications.
6. Coordinate Reinforcing Straps And Post Foundation Locations With The Wall Designer/Supplier.

B1 TYPICAL REINFORCED WALL SECTION - MULTI-USE PATHWAY

1/2" = 1'-0"

0 1' 2' 4'

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BLOCK WALL SECTIONS

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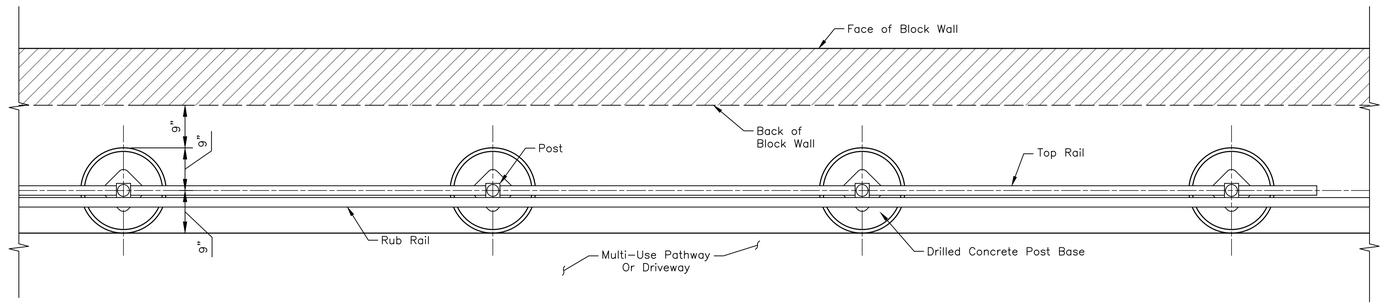
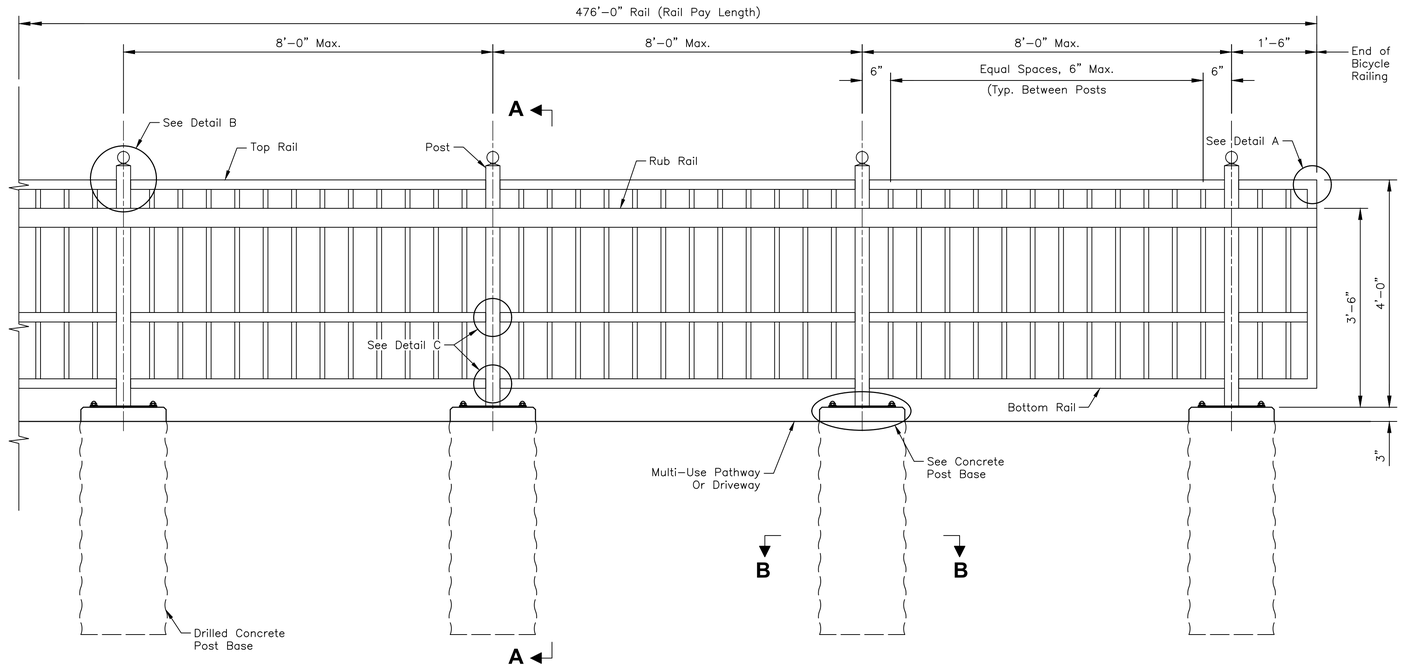


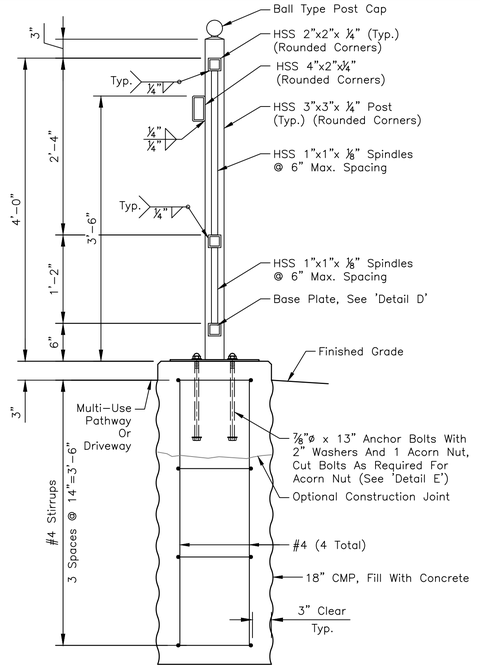
PLAN VIEW



ELEVATION VIEW

A1 **BICYCLE RAILING TYPE 4**
3/4" = 1'-0"

0 1' 2' 3'



SECTION A-A
RAIL & FOUNDATION DETAIL
1"=1'-0"

N O T E S

MATERIALS

1. Anchor Bolts, Nuts And Washers Shall Conform With ASTM F-1554 Grade 105.
2. Structural Steel Tubing Shall Conform With ASTM A500 Grade B, ASTM A618, or ASTM A501.
3. Structural Steel Plates And Sleeves Shall Conform With ASTM A709 Grade 36.
4. Provide Class 40AF Concrete.
5. Provide Epoxy-Coated Grae 60 Type S Reinforcement In Accordance With 708.02.

GALVANIZING/POWDER COATING

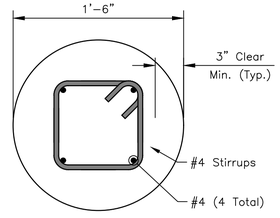
6. All Steel Parts Shall Be Galvanized After Fabrication In Accordance With ASTM A123 And ASTM A385. Repair Damaged Coatings In Accordance With ASTM A780 And ASTM A123.
7. Anchor Bolts, Nuts, And Washers Shall Be Galvanized In Accordance With ASTM A153.
8. All Galvanized Surfaces Shall Be Free Of Fines, Abrasions, Rough Or Sharp Edges, Or Other Surface Defects.
9. The Railing System Shall Be Powder Coated After Galvanizing With A Minimum Thickness of 3 MILS. The Color Shall Be Federal Standard 595 Number 17038 (Black). A Color Sample Shall Be Submitted For Approval.
10. Construct Railing System In Accordance With AASHTO LRFD Bridge Design Specifications 9th Edition 13.9 For Pedestrian Railing.
11. Powder Coating Shop Procedures For Preparation Of The Galvanized Surfaces And Application Process Of The Powder Coating Shall Be Submitted For Approval.
12. Scratches, Pits And Other Defects Shall Be Repaired In Accordance With The Powder Coating Manufacturer's Written Instructions.

FABRICATION AND ERECTION

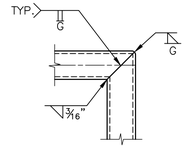
13. Fabrication And Erection Of The Railing Shall Conform With The Current Edition Of AASHTO Specifications For Highway Bridges And ITD Standard Specifications.
14. The Railing Shall Be Fabricated In A Plant Experienced In Producing Railings And Architectural Metal Work And Shall Be Erected By Skilled Workers Experienced In This Type Of Work.
15. Shop Drawings Shall Be Submitted To The Engineer In Accordance With 504.01 F And 105.02.
16. All Posts Shall Be Plumb.
17. All Ends Of Tube Sections And Base Plates At Splices Shall Be Sawed Or Milled. Cut Ends Shall Be True, Smooth And Free From Burrs Or Ragged Edges.
18. Vent Holes For Galvanizing Shall Be Provided As Required And Shown On The Shop Drawings. Vent Holes Shall Be Drilled Away From Traffic Face And Not On The Top Surface Of The Horizontal Tube.
19. Railing System Shall Be Continuous. Each Joint In A Rail Length Shall Be Located At The Same Position In The Section And Shall Be Spliced As Detailed.
20. Alternate Splice Details May Be Submitted For Approval On The Shop Drawings.

METHOD OF MEASUREMENT

21. Furnish And Install "Bicycle Railing" Shown On The Plans, Complete In Place, Measured By The Linear Foot.



SECTION B-B
1-1/2"=1'-0"



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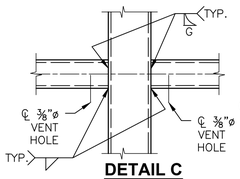

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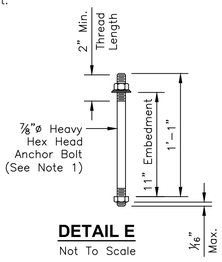

DETAIL E
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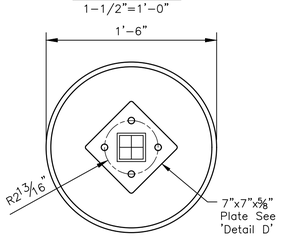
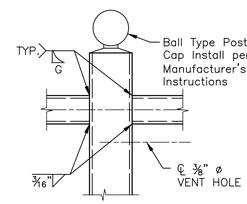


CONCRETE POST BASE
1-1/2"=1'-0"



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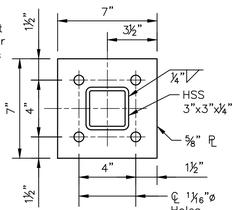

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Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

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BICYCLE RAILING TYPE 4

N O T E S

1. Submit Detailed Construction Phasing And Traffic Control Plans To ACHD For Review And Approval Prior To Construction. The Proposed Construction Phasing Shown Is An Example That May Be Accepted By The Contractor. However, The Contractor Is Encouraged To Develop Their Own Phasing Plan To Fit Their Operations. The Contractor's Traffic Control Plans Must Show Advanced Construction Signing And Detailed Traffic Control For Each Phase Of Work, And Address Pedestrian, Bicycle, And Vehicular Traffic.
2. Maintain Existing Pedestrian Facilities Including Pedestrian Ramps. Where Necessary, Provide Temporary Pedestrian Ramps And Crossings. Make Temporary Facilities Detectable And Include Accessibility Features Consistent With The Existing Pedestrian Facility.
3. ACHD May Require Modifications To The Phasing And Traffic Control Plans In The Field To Minimize Disruption To Traffic.
4. Maintain A Minimum Width of 11' (Feet) For All Travel Lanes Unless Noted Otherwise On The Example Construction Phasing Plans. The Minimum Number Of Travel Lanes Indicated On The Example Plans Must Be Maintained At All Times Unless Approved Otherwise By ACHD.
5. Meet Or Exceed The Requirements Of The Current Version Of MUTCD For Construction Signs, Traffic Control Devices, And Taper Lengths.
6. Construction Traffic Control Signs That Are Located On The Project Longer Than Three Days Must Be Installed As A Permanent Installation Mounted On A Wood Or Steel Post. Completely Cover Or Remove Sign Faces From The Roadway When Not In Use. Place Informational Signs Seven Days Prior To The Start Of Construction.
7. Completely Obliterate Conflicting Pavement Markings Prior To Shifting Traffic, Incidental To Project Construction.
8. Changes In Traffic Patterns That Will Be In Place Longer Than Three Days Require Painted Pavement Markings On Asphalt Pavement Surfaces, Item 1134.03.21, And Pavement Marking Tape On Concrete Pavement Surfaces, Item 1103.4.1.K.1. No Paint Is Allowed On The Concrete Pavement. All Paint Placed On The Final Asphalt Pavement Must Be In The Final Lane Configuration. No Paint For Temporary Lanes Will Be Allowed On The Final Pavement Surface.
9. Night Work Will Only Be Allowed With Prior Approval From ACHD. Contractor To Request Approval A Minimum Of Two Weeks Prior To Ensure That Adequate Time Is Available For ACHD To Coordinate With Nearby Residents And/Or Business.
10. The Approved Quantity Of Temporary Pavement Will Be Paid For By Item SP-08105.

PEDESTRIAN ACCESSIBILITY

1. Maintain Reasonable ADA Access For Pedestrians.
2. Provide ADA Ped Continuity During All Stages. Provide Detailed Plan For Approval To ACHD Prior To Construction.
3. Signage Shown May Require Adjustments Based On Contractors Construction Staging.
4. Any ACHD Approved Roadway Closure Still Requires Reasonable ADA Access & Routes Be Provided, Maintained, And Adjusted, To Meet The Needs Of Pedestrians And Bikes In The Event Bike Lanes Are Impacted.
5. Ref. ACHD Std. Traffic Control Template TC-200 Through TC-204 To Assist & Ensure Reasonable ADA Access Is Maintained Throughout The Construction Process.
6. Temporary Ramps, Sidewalks, Or Pathways Are To Be Removed Upon Completion Of The Applicable Construction Phase And Removal Considered Incidental To Project. Return The Surface To Its Original Condition And All Cost Associated Will Be Considered Incidental.
7. Utilize Pedestrian Route Signage For Stage 1 And Stage 2.
8. Relocation Of Signs Is Covered Under Traffic Control Maintenance, Item 1103.4.1.J.1.
9. Any Items Not Specifically Identified Herein That Required Additional Pedestrian Temporary Traffic Control Will Be Paid By Item SP 11551 – Pedestrian Temporary Traffic Control Plan.

LEGEND

STAGES

Stage 1
Construct The Roadway South Of The Overpass To The Overland Intersection.

Stage 2 Phase 2
Construct The East Side Of Linder Road, South Of The Overland Intersection. Construct The Southeast Corner Of The Overland/Linder Intersection.

Stage 2 Phase 3
Construct The West Side Of Linder Road, South Of The Overland Intersection. Construct The Southwest Corner Of The Overland/Linder Intersection.

Existing Sidewalk

Temporary Asphalt Pavement

Temporary Pedestrian Crossing

PROBABLE SEQUENCING FOR CONSTRUCTION STAGING

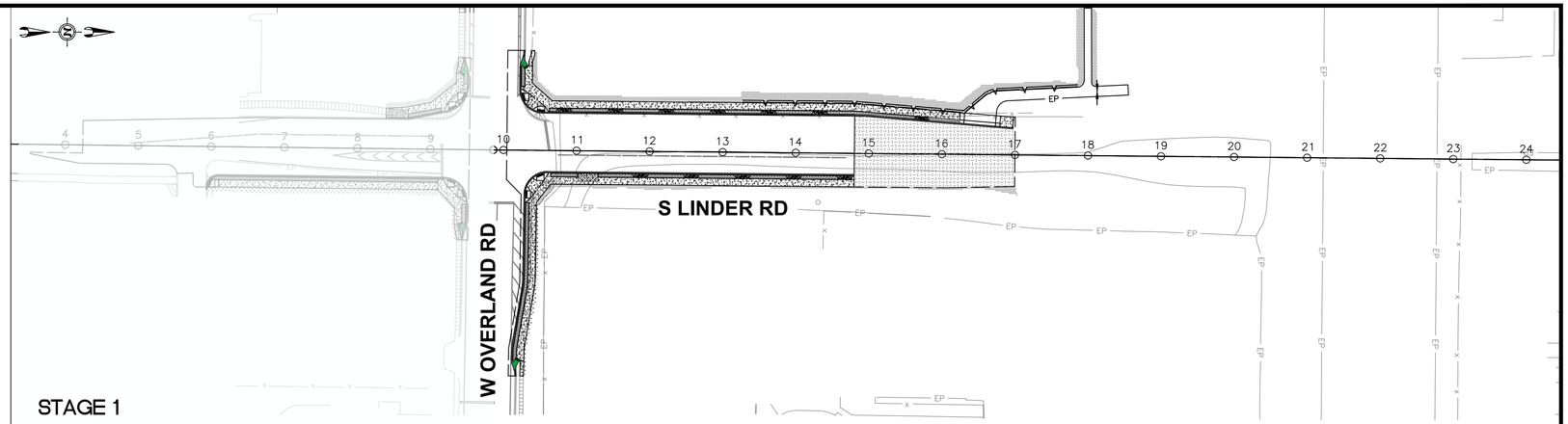
Stage 1

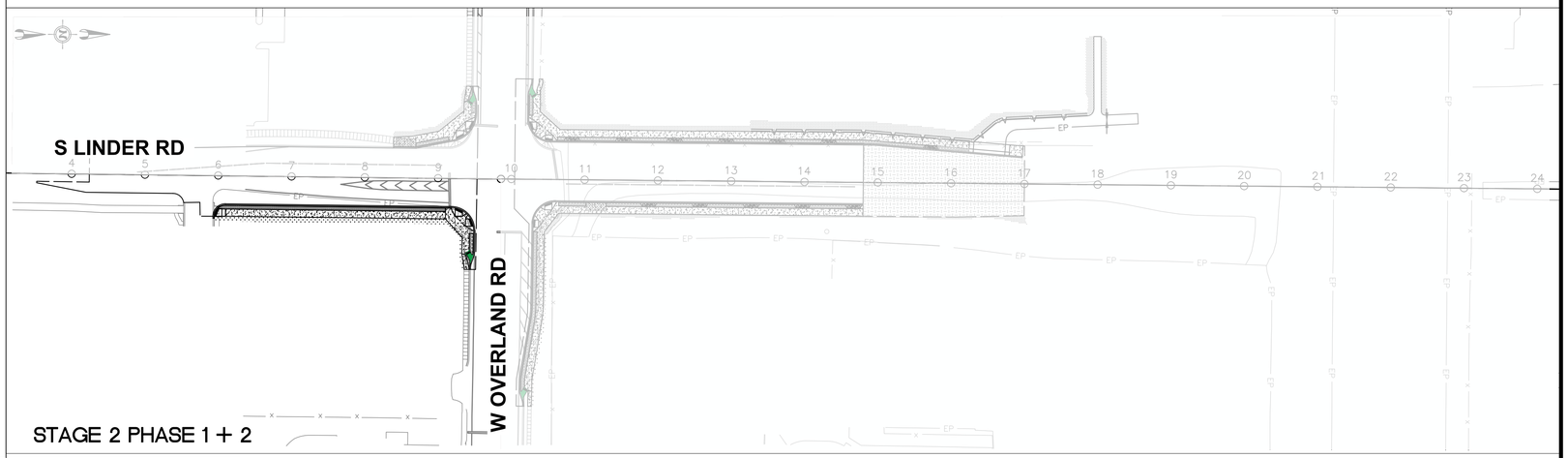
Construct North Side Of Linder/Overland Intersection
Construct The Northeast & Northwest Corners Of The Overland Intersection. Construct The Full Width Of The Typical Section Heading North To Sta 14+80. From Sta 14+80 To Sta 17+00, Construction Up To Uncrushed Aggregate Base. This Includes All Construction On The East Side (Block Retaining Walls, Fencing, Rough Grading Of Basin).

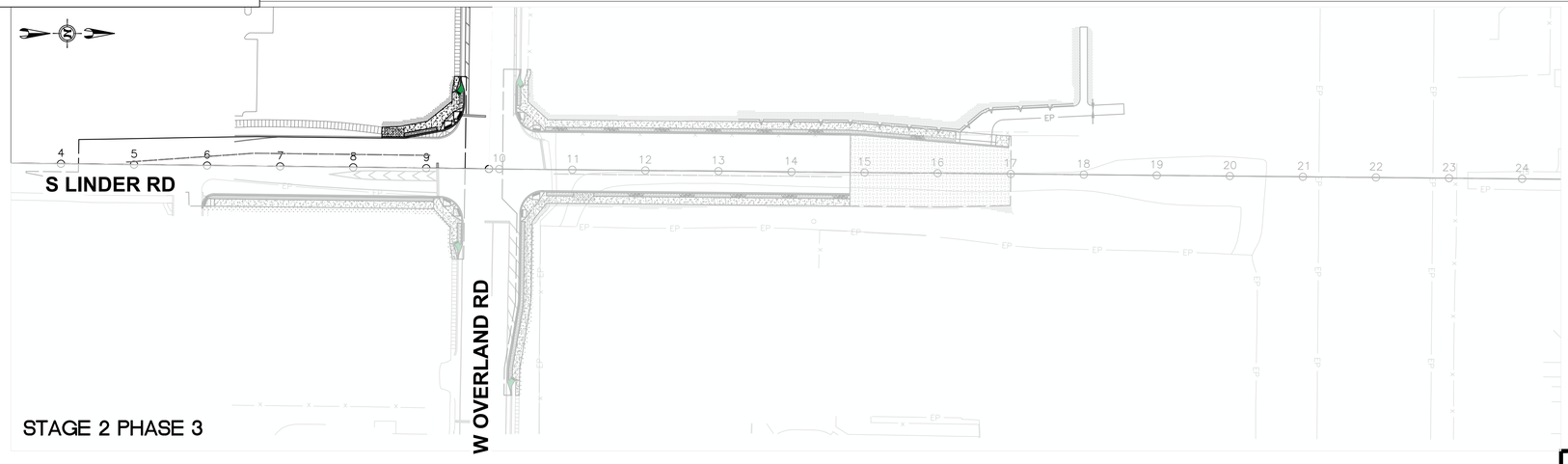
Stage 2

Construct Linder South Of Overland Intersection
Stage 2 Will Be Split Into 3 Phases.

- Phase 1: Construct Temporary Pavement On East Side.
- Phase 2: Construct The East Side Of Linder Road, South Of The Overland Intersection.
- Phase 3: Construct The West Side Of Linder Road, South Of The Overland Intersection.







KELLER ASSOCIATES

PROFESSIONAL ENGINEER REGISTERED — Electronically signed by: DONN R. CARNAHAN — FBCBB3E41E65441... — 7756 — 05/22/2024 — STATE OF IDAHO

Revisions:

• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024 | Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

CONSTRUCTION STAGING OVERVIEW

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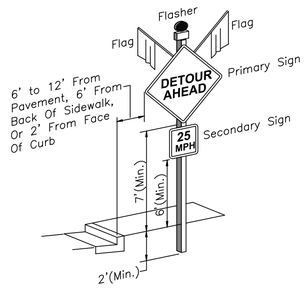
COMMON CONSTRUCTION SIGNS



TYPICAL SIGN INSTALLATION

DRUM

Item No. 1103.4.1.D.1

TUBULAR MARKER

Item No. 1103.4.1.H.1

1 — ROAD WORK AHEAD — W20–1 48"x48"=16SF

2 — S LINDER RD — 9"x18"=1.1SF Ref. TS–1109 (Traffic Supplemental)

3 — RIGHT LANE CLOSED AHEAD — W9–1R 48"x48"=16SF

4 — LANE ENDS MERGE LEFT — W9–2L 48"x48"=16SF

5 — END ROAD WORK — G20–2 (18"x36")=4.5SF

(48"x96")=32SF

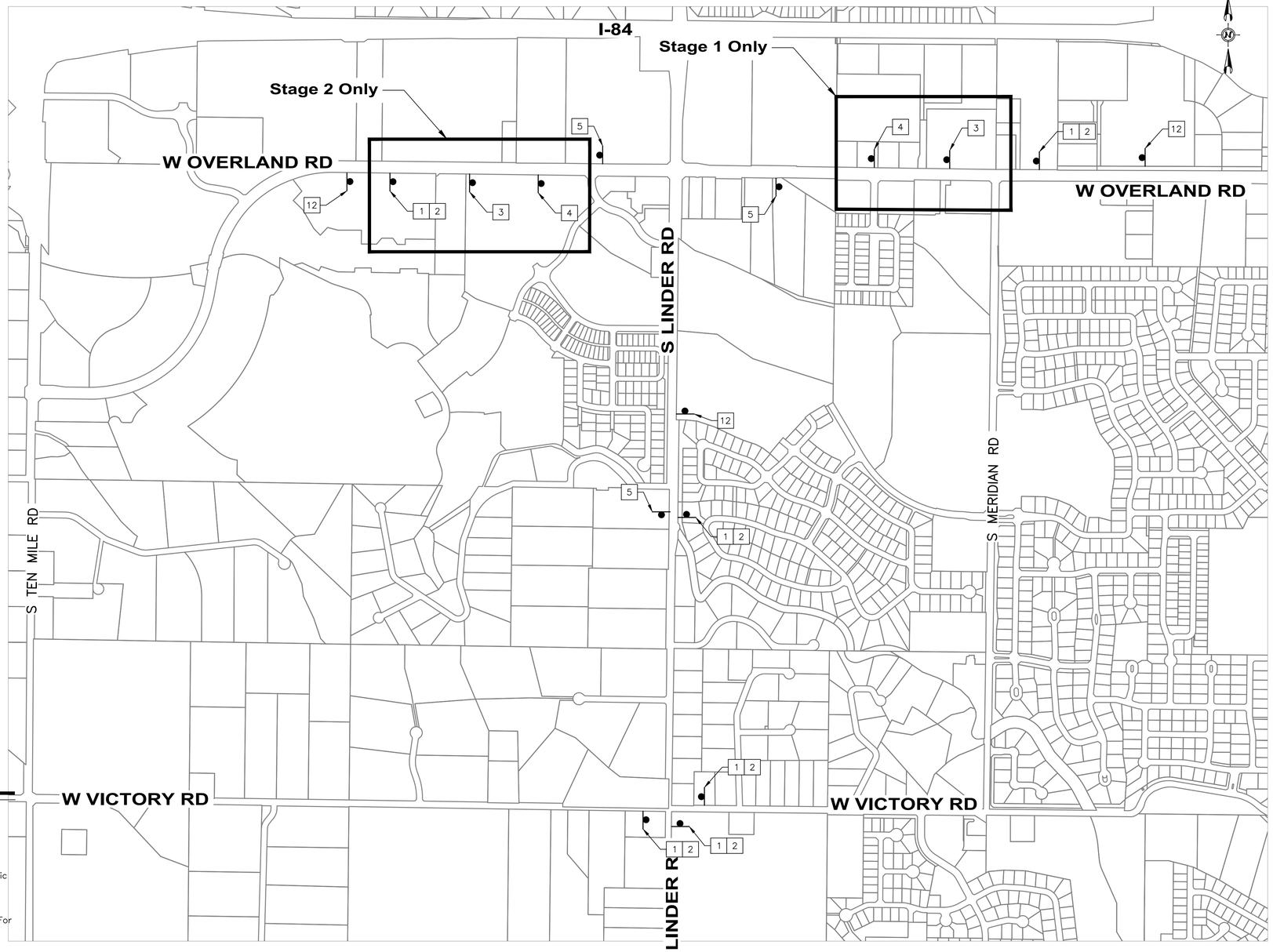
White Background With Black Letters And 1" Black Perimeter Line. Project Name Will Have A ½" Border. Sign Will Be Made Of ¾" Bill Board Plywood Or Traffic Sign Aluminum. Signs From Previous Projects With Appropriate Letter Changes May Be Used If Approved By The Engineer Prior To Installation. Attach To Type III Barricade Or Install With (2) 4x4 Posts.

City Logos Vary Per Project And Text Size Of Each City Logo Will Be Similar In Size Compared With The ACHD Logo.

INFORMATIONAL SIGN 12

BARRICADE TYPE III 13

Item No. 1103.4.1.C.1.C



GENERAL NOTES

1. All Work Shall Conform To the Latest Edition Of The "Manual On Uniform Traffic Control Devices" For Streets And Highways.
2. All Signs Will Be Class "A".
3. This Plan May Be Modified In The Field By The Engineer.
4. All Warning Flags And Flashers Will Be Considered As Incidental To The Traffic Control Bid Items.
5. The Contractor Shall Use Flaggers Only Under Direction Of The Engineer.
6. This Is A General Traffic Control Plan. Submit Specific Detailed Work Plans For The Project Phases To ACHD For Approval.

KELLER ASSOCIATES

PROFESSIONAL ENGINEER REGISTERED Digitally signed by DONN R. CARNAHAN FBC8B3F4145C441... 7756 5/22/2024 STATE OF IDAHO DONN R. CARNAHAN

Revisions:

• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024 Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

STAGE 1-2 CONSTRUCTION SIGNAGE

CONSTRUCTION NOTES

1. Contractor To Obliterate All Conflicting Pavement Markings, SSP 11400.
2. Drum And Tubular Marking Spacing To Be 40 Feet.
3. All Traffic Lanes Temporarily Closed Due To Construction, Must Cover The Corresponding Traffic Signal Head.

LEGEND

STAGES

Stage 1
Construct The Roadway South Of The Overpass To The Overland Intersection.

Stage 2 Phase 2
Construct The East Side Of Linder Road, South Of The Overland Intersection. Construct The Southeast Corner Of The Overland/Linder Intersection.

Stage 2 Phase 3
Construct The West Side Of Linder Road, South Of The Overland Intersection. Construct The Southwest Corner Of The Overland/Linder Intersection.

Existing Sidewalk

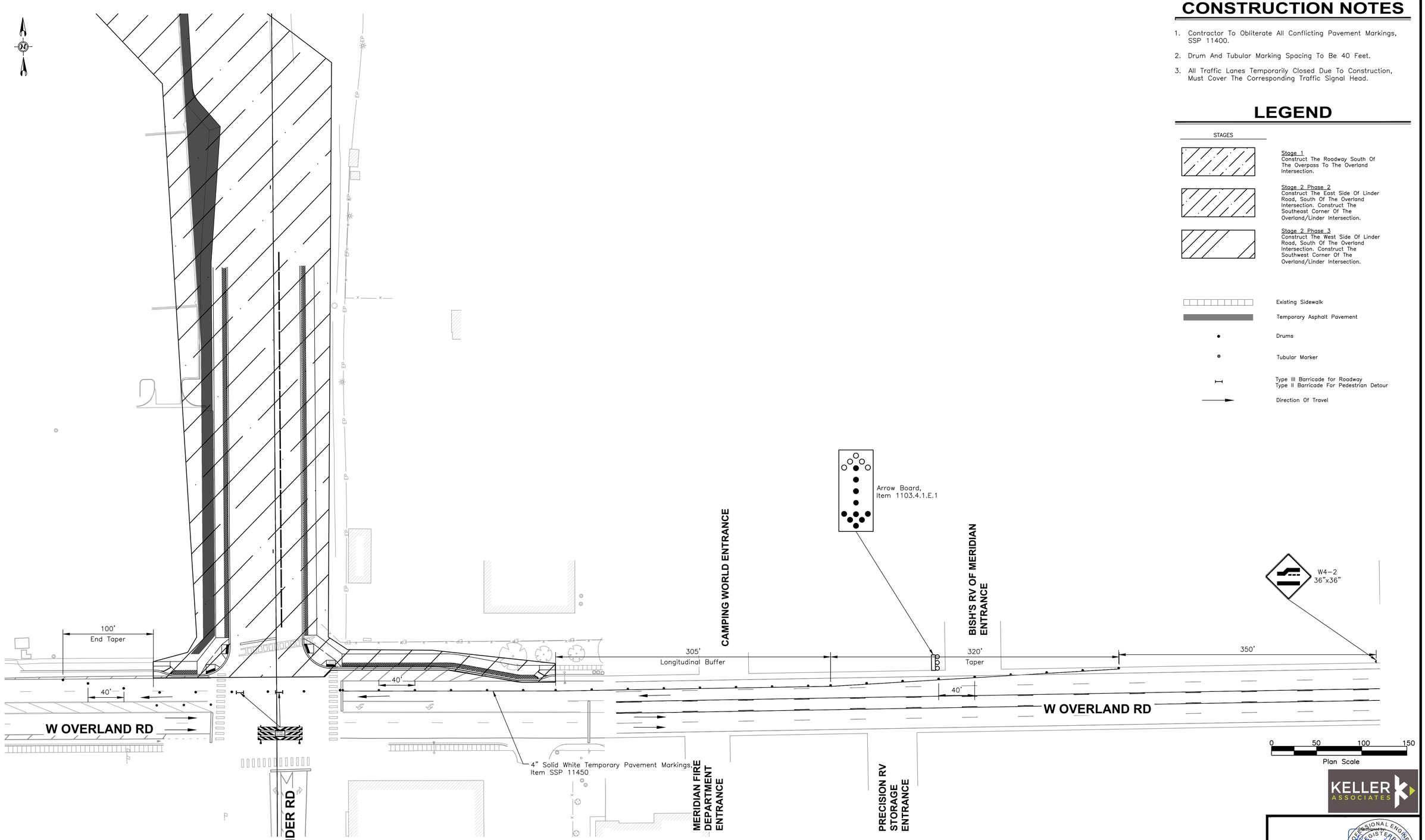
Temporary Asphalt Pavement

Drums

Tubular Marker

Type III Barricade for Roadway
Type II Barricade For Pedestrian Detour

Direction Of Travel



KELLER ASSOCIATES

PROFESSIONAL ENGINEER
REGISTERED
Electronically Signed by:
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7756
05/22/2024
STATE OF IDAHO
DONN R. CARNAHAN

Revisions:

• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

STAGE 1 CONSTRUCTION

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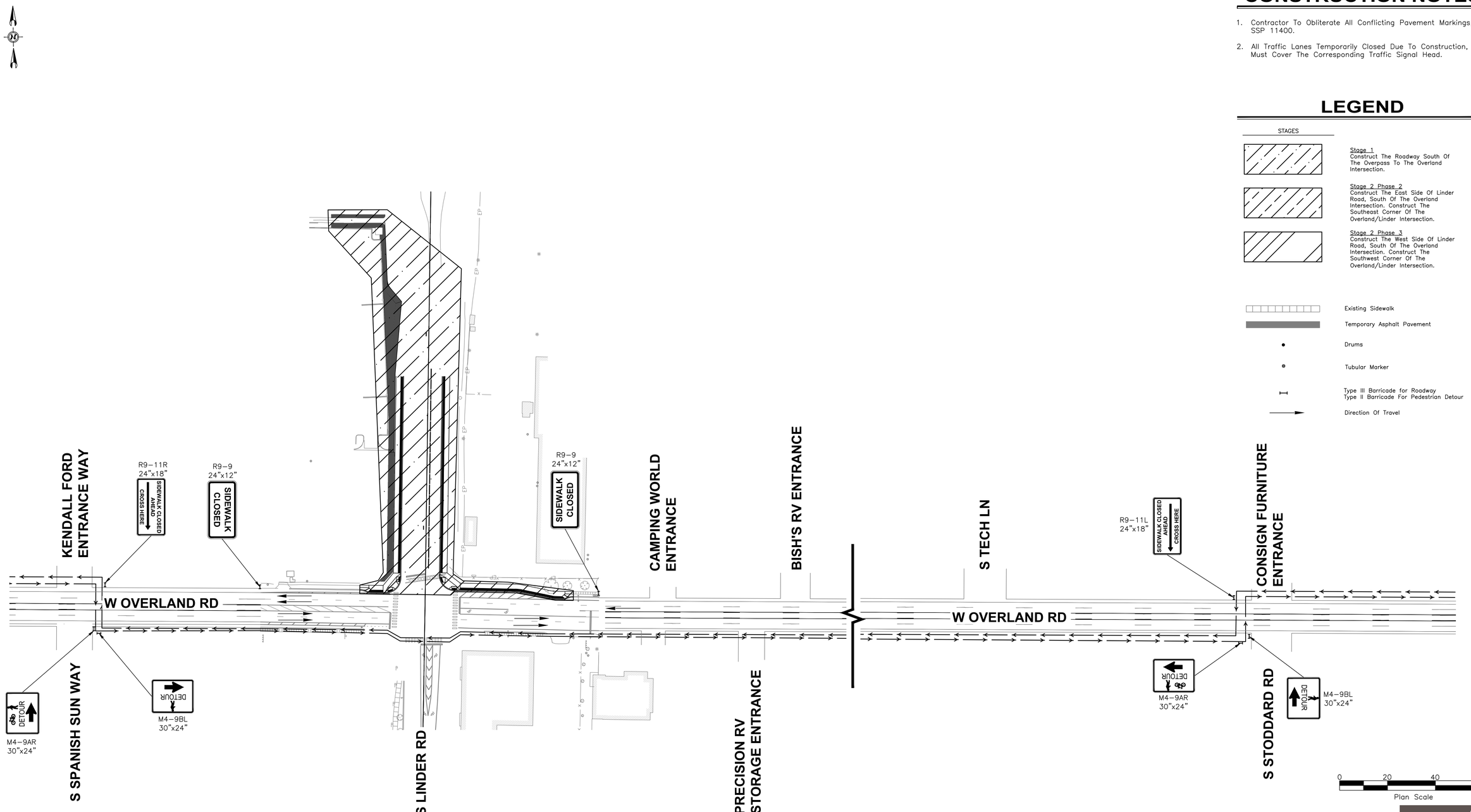

CONSTRUCTION NOTES

1. Contractor To Obliterate All Conflicting Pavement Markings, SSP 11400.
2. All Traffic Lanes Temporarily Closed Due To Construction, Must Cover The Corresponding Traffic Signal Head.

LEGEND

STAGES

Stage 1
Construct The Roadway South Of The Overpass To The Overland Intersection.

Stage 2 Phase 2
Construct The East Side Of Linder Road, South Of The Overland Intersection. Construct The Southeast Corner Of The Overland/Linder Intersection.

Stage 2 Phase 3
Construct The West Side Of Linder Road, South Of The Overland Intersection. Construct The Southwest Corner Of The Overland/Linder Intersection.

Existing Sidewalk

Temporary Asphalt Pavement

Drums

Tubular Marker

Type III Barricade for Roadway
Type II Barricade For Pedestrian Detour

Direction Of Travel

0 20 40 60
Plan Scale

KELLER ASSOCIATES

Revisions:

• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

STAGE 1 PEDESTRIAN & BICYCLIST DETOUR

Professional Engineer
Registered
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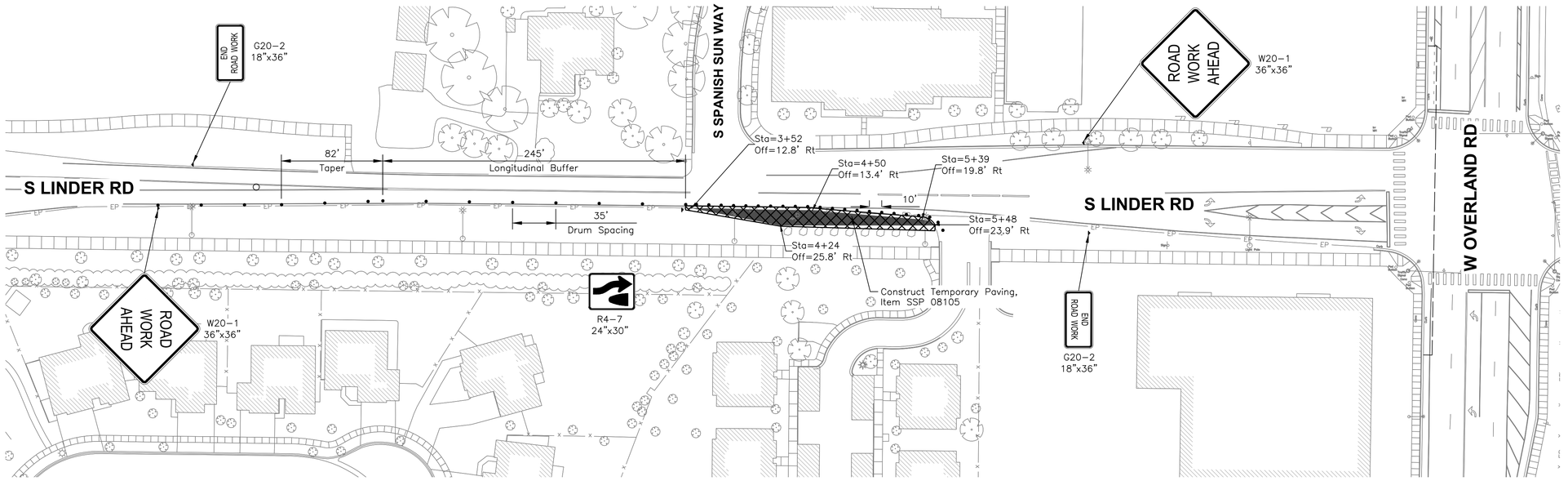
7756
05/22/2024
State of Idaho
Donn R. Carnahan



CONSTRUCTION NOTES

1. Contractor To Obliterate All Conflicting Pavement Markings, SSP 11400.
2. All Traffic Lanes Temporarily Closed Due To Construction, Must Cover The Corresponding Traffic Signal Head.

LEGEND

STAGES

Stage 1
Construct The Roadway South Of The Overpass To The Overland Intersection.

Stage 2 Phase 2
Construct The East Side Of Linder Road, South Of The Overland Intersection. Construct The Southeast Corner Of The Overland/Linder Intersection.

Stage 2 Phase 3
Construct The West Side Of Linder Road, South Of The Overland Intersection. Construct The Southwest Corner Of The Overland/Linder Intersection.

Existing Sidewalk

Temporary Asphalt Pavement

Drums

Tubular Marker

Type III Barricade for Roadway
Type II Barricade For Pedestrian Detour

Direction Of Travel

0 50 100 150
Plan Scale

KELLER ASSOCIATES

PROFESSIONAL ENGINEER
REGISTERED
Signed by:
F8C883F4145C441...
7756
5/22/2024
STATE OF IDAHO
DONN R. CARNAHAN

Revisions:

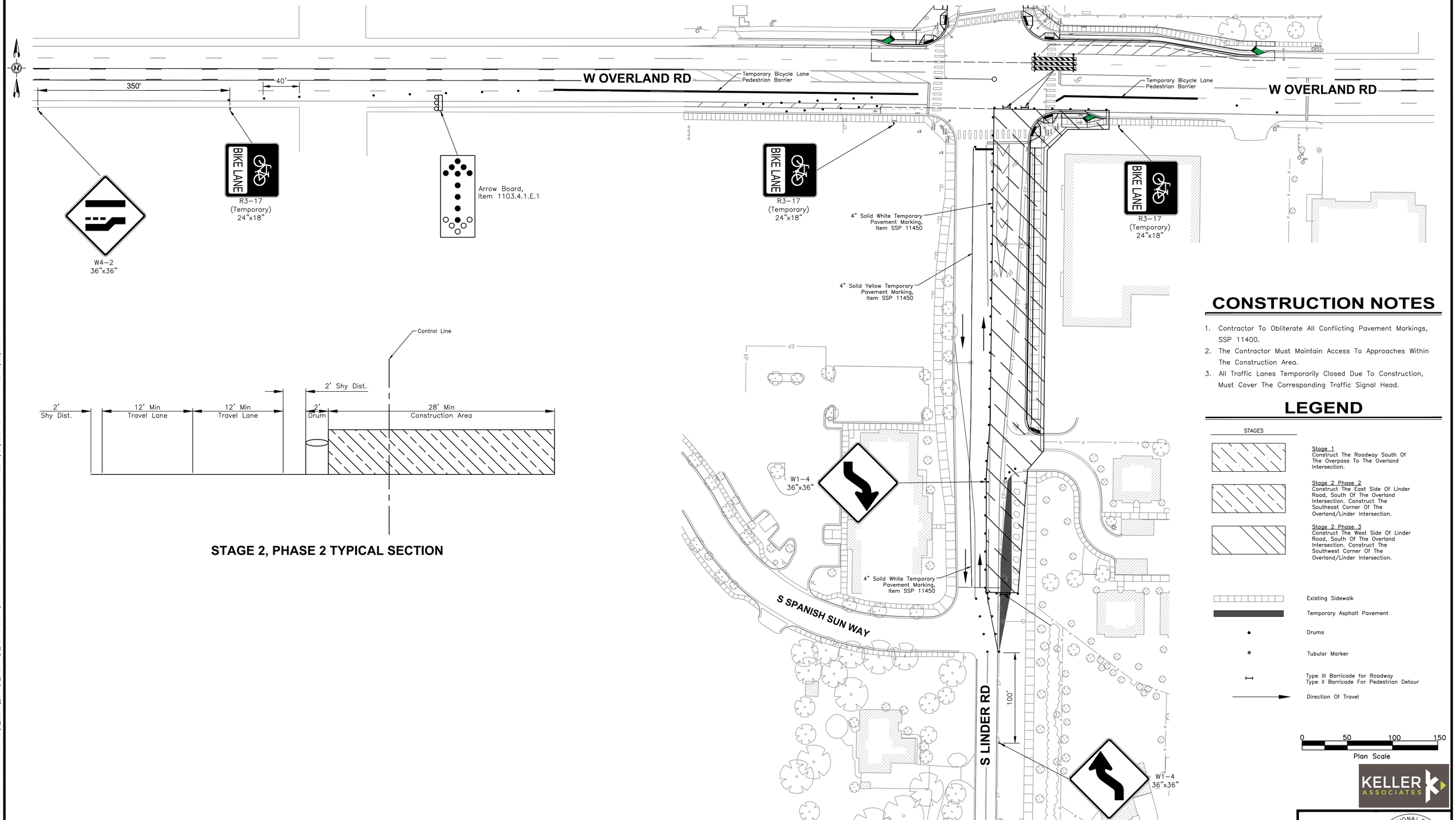
• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

STAGE 2 PHASE 1 CONSTRUCTION



STAGE 2, PHASE 2 TYPICAL SECTION

CONSTRUCTION NOTES

1. Contractor To Obliterate All Conflicting Pavement Markings, SSP 11400.
2. The Contractor Must Maintain Access To Approaches Within The Construction Area.
3. All Traffic Lanes Temporarily Closed Due To Construction, Must Cover The Corresponding Traffic Signal Head.

LEGEND

STAGES

Stage 1
Construct The Roadway South Of The Overpass To The Overland Intersection.

Stage 2 Phase 2
Construct The East Side Of Linder Road, South Of The Overland Intersection. Construct The Southeast Corner Of The Overland/Linder Intersection.

Stage 2 Phase 3
Construct The West Side Of Linder Road, South Of The Overland Intersection. Construct The Southwest Corner Of The Overland/Linder Intersection.

Existing Sidewalk

Temporary Asphalt Pavement

Drums

Tubular Marker

Type III Barricade for Roadway
Type II Barricade For Pedestrian Detour

Direction Of Travel

0 50 100 150
Plan Scale

KELLER ASSOCIATES

PROFESSIONAL ENGINEER
REGISTERED
7756
05/22/2024
STATE OF IDAHO
DONN R. CARNAHAN

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Revisions:

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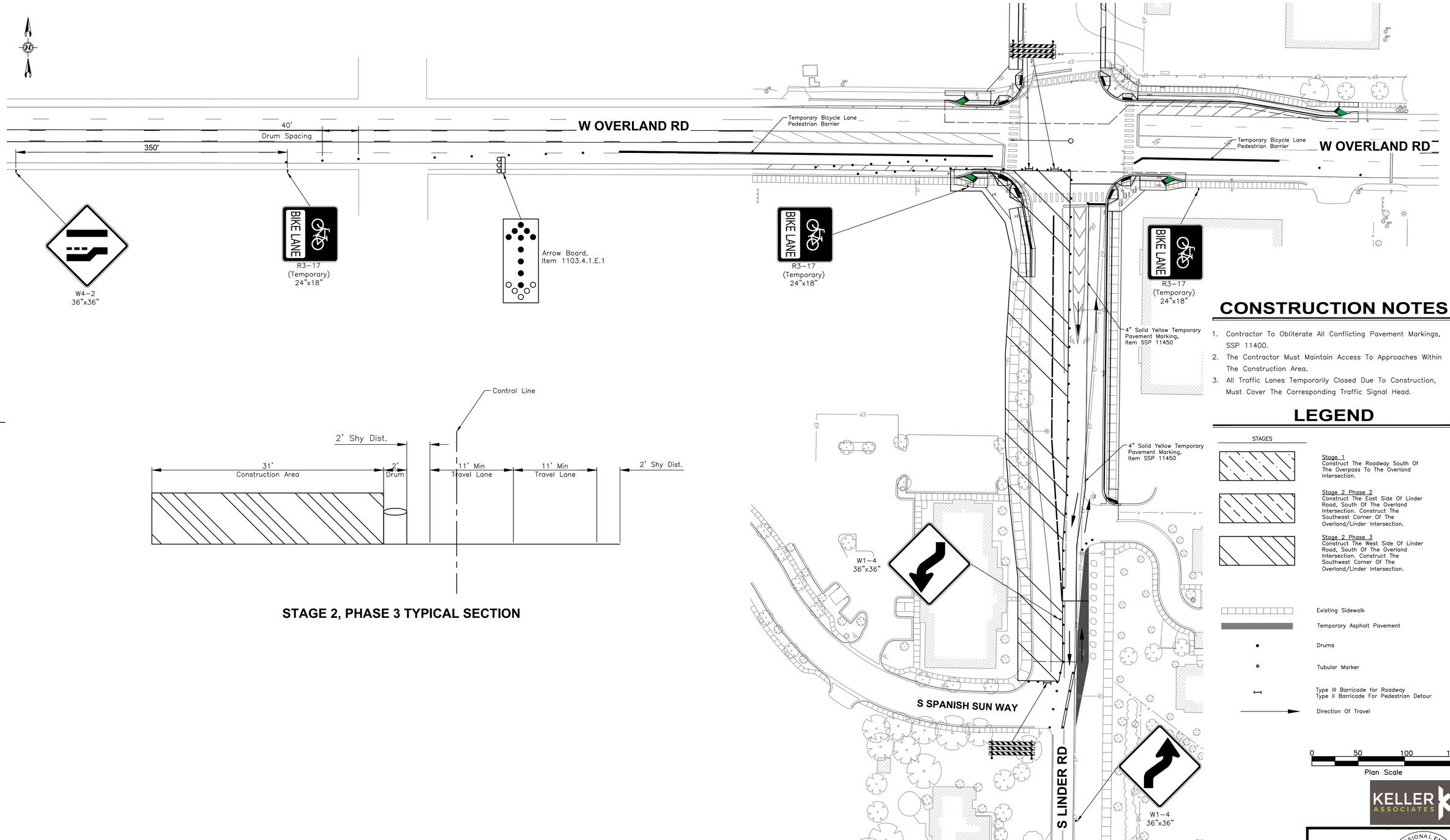
Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

STAGE 2 PHASE 2 CONSTRUCTION



STAGE 2, PHASE 3 TYPICAL SECTION

CONSTRUCTION NOTES

1. Contractor To Obliterate All Conflicting Pavement Markings, SSP 11400.
2. The Contractor Must Maintain Access To Approaches Within The Construction Area.
3. All Traffic Lanes Temporarily Closed Due To Construction, Must Cover The Corresponding Traffic Signal Head.

LEGEND

STAGES

Stage 1
Construct The Roadway South Of The Overpass To The Overland Intersection.

Stage 2 Phase 2
Construct The East Side Of Linder Road, South Of The Overland Intersection. Construct The Southeast Corner Of The Overland/Linder Intersection.

Stage 2 Phase 3
Construct The West Side Of Linder Road, South Of The Overland Intersection. Construct The Southwest Corner Of The Overland/Linder Intersection.

Existing Sidewalk

Temporary Asphalt Pavement

Drums

Tubular Marker

Type III Barricade for Roadway
Type II Barricade For Pedestrian Detour

Direction Of Travel

0 50 100 150
Plan Scale

KELLER ASSOCIATES

Revisions:

• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

STAGE 2 PHASE 3 CONSTRUCTION

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05/22/2024
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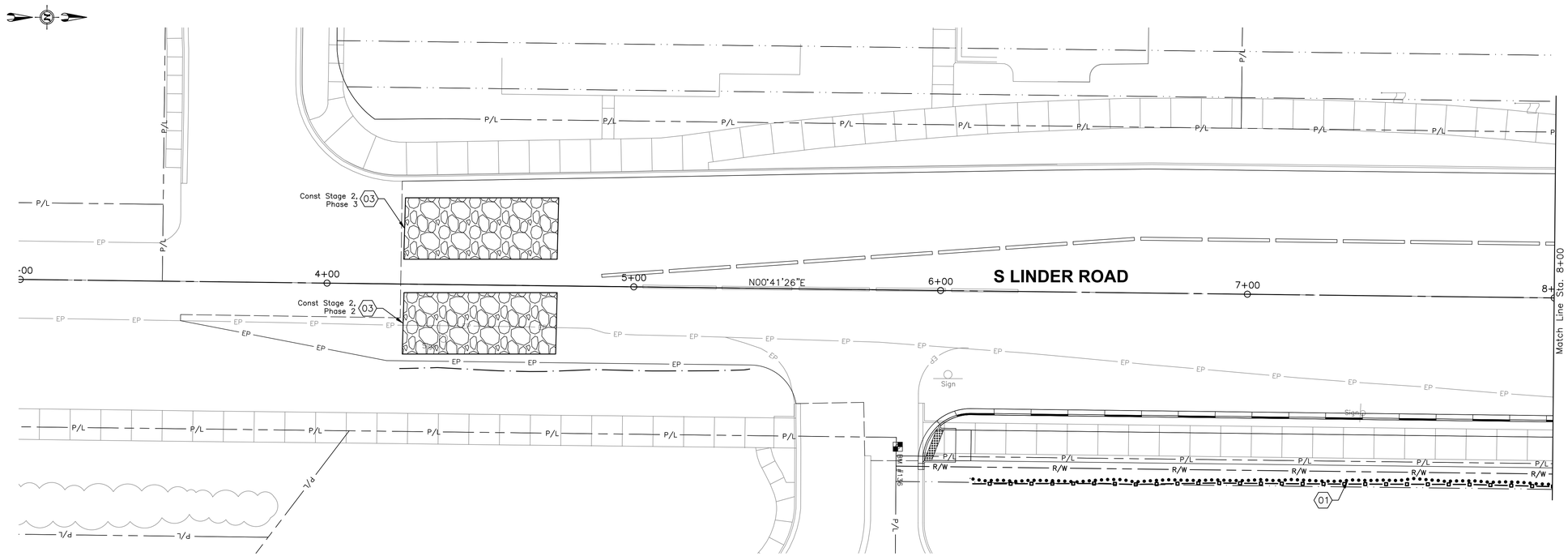
DONN R. CARNAHAN



N O T E S

01 Silt Fence, Item No. 1003.4.1.C.1

02 Inlet Protection, Item No. 1006.4.1.C.1

03 Stabilized Construction Entrance, Item 1001.4.2.B.1

1. Stabilized Construction Entrances Must Be A Minimum Of 24 Feet Wide For Single Entrances And A Minimum Of 12 Feet Wide For Dual Entrances. A Minimum Length Of 50 Feet is Required.

L E G E N D

Stabilized Construction Entrance

Silt Fence

GENERAL NOTES FOR TEMPORARY EROSION CONTROL

1. Site Dimensions, Placement, And Payment For Temporary Erosion Control Devices Will Be As Set Forth In The Plans And Special Provisions.
2. The Site Design Determines The Need For Temporary Erosion Control Devices. Modifications To Those Installations Must Be Approved By The Engineer.
3. Temporary Erosion Control Devices Are Not Intended To Last More Than One Season (3 Months), Or Until They Are Integrated Into A Final Erosion Control System, Replace When Expired.
4. At The End Of Each Days Work, The Appropriate Number And Combination Of Temporary Erosion Control Devices Must Be Placed on Each Drainage System Under Construction.
5. The Staging Area Is Required To Be Kept Within The Limits Of The Project. If Additional Area Is Required, Advanced Notification To ACHD Is Needed & The SWPPP Will Be Changed To Include The Additional Potential For Storm Water Runoff.
6. Concrete Clean–Out Areas Are To Be Kept Within The Project Limits. Clean–Out Areas Should Not Be Near Drop Inlets, Or Areas Surrounding Irrigation Ditches, Streams, Or Open Channels Of Any Kind. To Remove Affected Soils/Materials And Concrete From Any Concrete Clean–Out Area And Dispose In An Approved Landfill.
7. If A Porta–Pot Is Needed, It Will Be Kept Behind The Proposed Or Existing Sidewalk, To Minimize Potential Effected Area In Case Of A Spill.
8. All Drop Inlet Protection Will Be Installed Prior To Paving.
9. During The Refueling Process, Take Measures To Contain Any Potential Spills By Using An Approved BMP.
10. Spill Protection Is Required On All Refueling And Maintenance Activities. This Includes Checking And Filling Oil, Brake Fluid, Hydraulic Fluid, Radiator Coolant, Power Steering Fluid, Transmission Fluid, And Gear Oil. The Contractor Will Use An Approved BMP To Prevent And/Or Contain Spills.
11. Spill Cleanup – In The Event Of A Spill As Outlined Above Remove The Effected Soils/Materials And Properly Dispose.
12. The SWPPP Can Be Altered By The Owner Or Contractor To Address Any Potential Onsite Storm Water Problems Not Already Covered Or Mentioned Above. If Altered, Both Parties Are To Be Notified As Soon As Possible.

0 20 40 60
Plan Scale

KELLER ASSOCIATES

PROFESSIONAL ENGINEER REGISTERED — Electronically signed by: DONN CARNAHAN — 7756 — 5/22/2024 — STATE OF IDAHO

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Revisions:

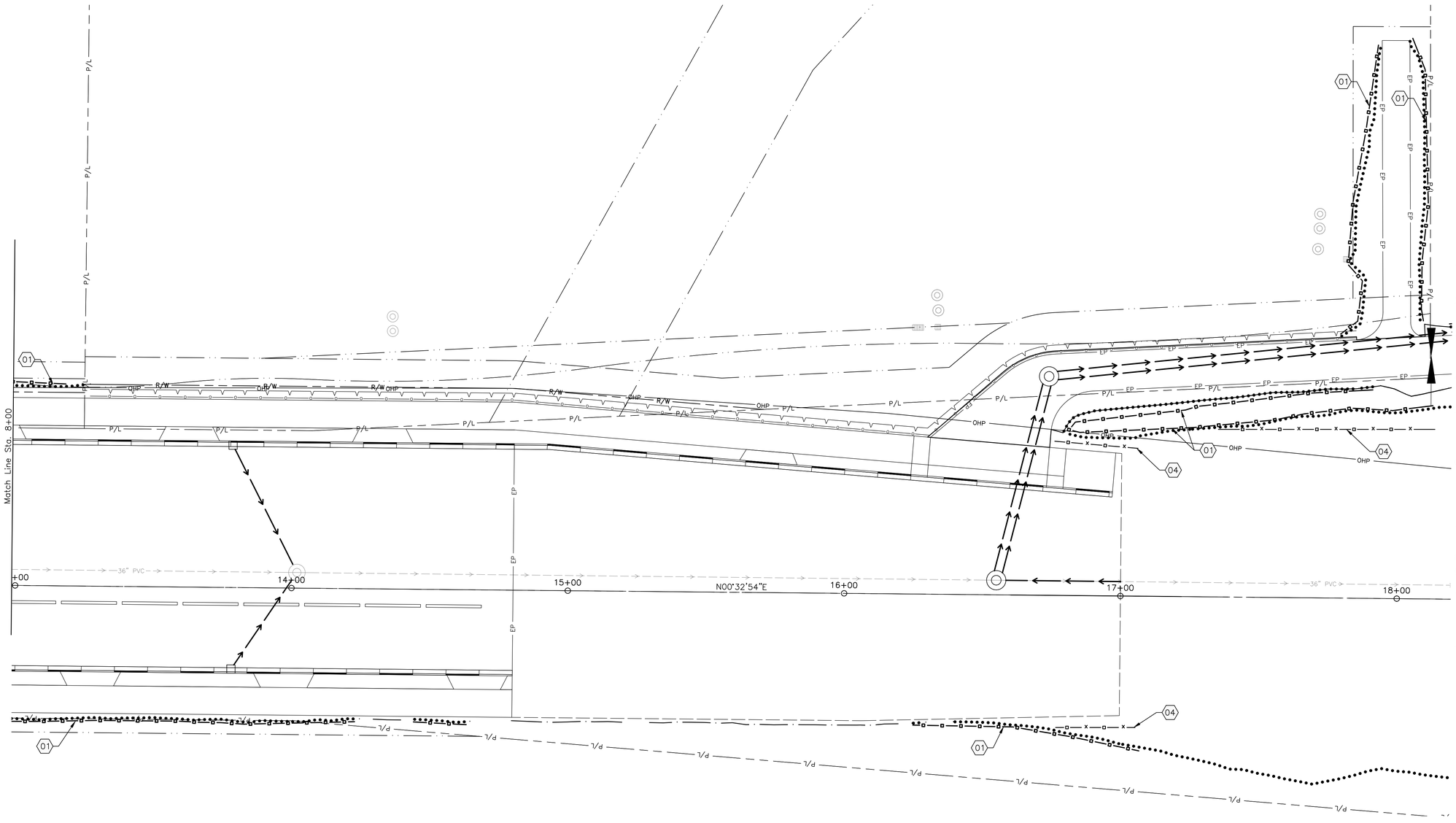
• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

SWPPP PLAN - STA. 3+00 - 13+00



N O T E S

01 Silt Fence, Item No. 1003.4.1.C.1

02 Inlet Protection, Item No. 1006.4.1.C.1

03 Stabilized Construction Entrance, Item 1001.4.2.B.1

04 Fiber Wattle, Item 1003.4.1.G.1

1. Stabilized Construction Entrances Must Be A Minimum Of 24 Feet Wide For Single Entrances And A Minimum Of 12 Feet Wide For Dual Entrances. A Minimum Length Of 50 Feet is Required.

L E G E N D

Stabilized Construction Entrance

Silt Fence

Fiber Wattle

GENERAL NOTES FOR TEMPORARY EROSION CONTROL

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2. The Site Design Determines The Need For Temporary Erosion Control Devices. Modifications To Those Installations Must Be Approved By The Engineer.
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0 20 40 60
Plan Scale

KELLER ASSOCIATES

PROFESSIONAL ENGINEER REGISTERED 7756 05/22/2024 STATE OF IDAHO DONN R. CARNAHAN

Revisions:

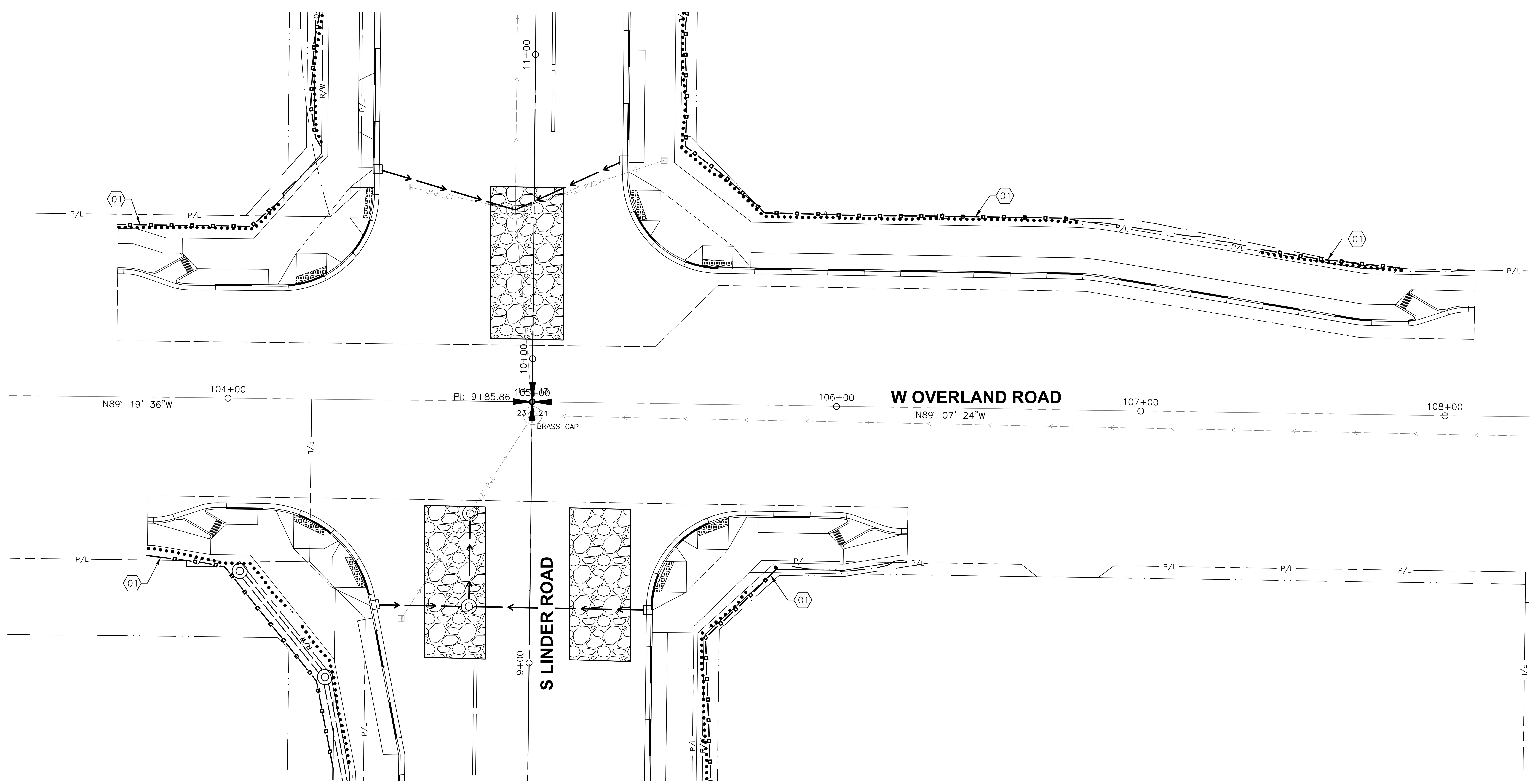
• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024

Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

SWPPP PLAN - STA. 13+00 - 18+00



N O T E S

- (01) Silt Fence, Item No. 1003.4.1.C.1
- (02) Inlet Protection, Item No. 1006.4.1.C.1
- (03) Stabilized Construction Entrance, Item 1001.4.2.B.1

1. Stabilized Construction Entrances Must Be A Minimum Of 24 Feet Wide For Single Entrances And A Minimum Of 12 Feet Wide For Dual Entrances. A Minimum Length Of 50 Feet is Required.

L E G E N D

Stabilized Construction Entrance

Silt Fence

GENERAL NOTES FOR TEMPORARY EROSION CONTROL

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0 20 40 60
Plan Scale

KELLER ASSOCIATES

PROFESSIONAL ENGINEER REGISTERED 7756 5/22/2024 STATE OF IDAHO DONN R. CARNAHAN
DocuSigned by: F8C8B3F4145C441...

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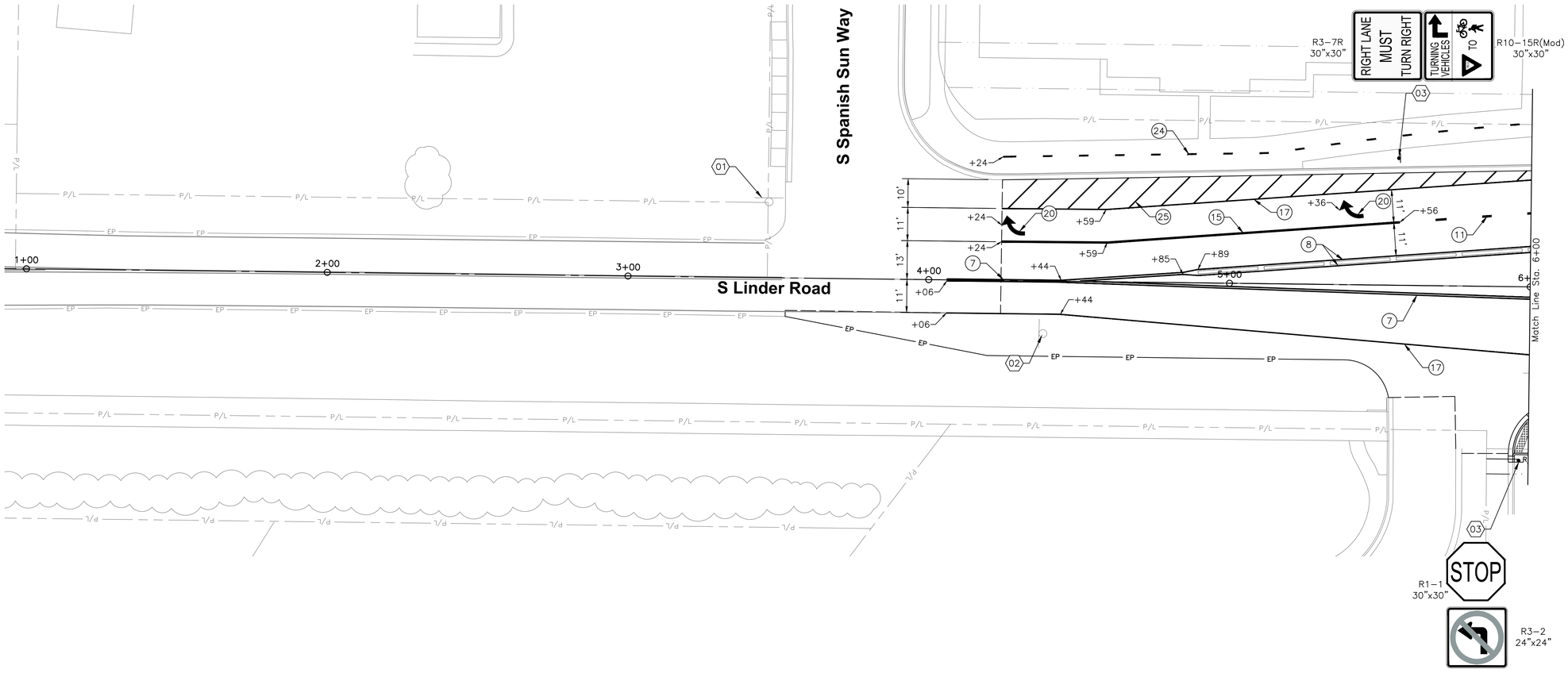
Revisions:

• S I G N A T U R E S •

Design By: J. Thornton Date: 4/2024 | Drawn By: A. Corley Date: 4/2024

• D E T A I L T I T L E •

SWPPP PLAN - STA. 103+00 - 108+00



N O T E S

01 Retain And Protect

02 Remove Sign, Item No. 201.4.1.C.1

03 Roadside Traffic Sign Installation, (One Metal Post, Item No. 1135.01.01

04 Relocate Roadside Sign, Item No. 1135.01.07

1. The Contractor Must Obliterate All Conflicting Pavement Markings Item SSP 11400
2. Street Name Sign Refer To ACHD Traffic Stanards TS 1109.03 For Details.

PAVEMENT MARKING LEGEND

3 — 4" White – Lane Line 7' Length & 18' Gap, Item No. 1134.03.03

4 — 4" White – Lane Line 12' Length & 38' Gap, Item No. 1134.03.04

5 — 4" Yellow – 2 Way Lt. Turn 7' Length & 18' Gap, Item No. 1134.03.05

7 — 4" Yellow – No Passing – 2 Direction, Item No. 1134.03.07

8 — 4" Yellow – Striped Median, Item No. 1134.03.08

11 — 8" White – Lane Drop 3' Length & 12' Gap, Item No. 1134.03.11

12 — 8" White – Bike Lane At Int. 2' Length & 6' Gap, Item No. 1134.03.12

15 — 8" White – Channelizing\Bike Lane, Item No. 1134.03.15

16 — 4" Yellow – Left Edge\Divided Hwy, Item No. 1134.03.16

17 — 4" White – Right Edge, Item No. 1134.03.17

18 — 24" White – Cross Walk – Thermoplastic Item No. 1134.05.21

19 — 24" White – Stop Bar – Thermoplastic Item No. 1134.05.21

20 — Thermoplastic Pavement Markings Item No. 1134.05.21

21 — 4" White – Chevron – Item No. 1134.03.21

24 — 4" Yellow – Multiuse Pathway Center Line 3' Length & 9' Gap, Item No. 1134.03.21

25 — 4" White – Stripe at 30° – Item No. 1134.03.21

0 20 40 60
Plan Scale

KELLER ASSOCIATES

Digital Signature
Electronically signed by: [illegible]
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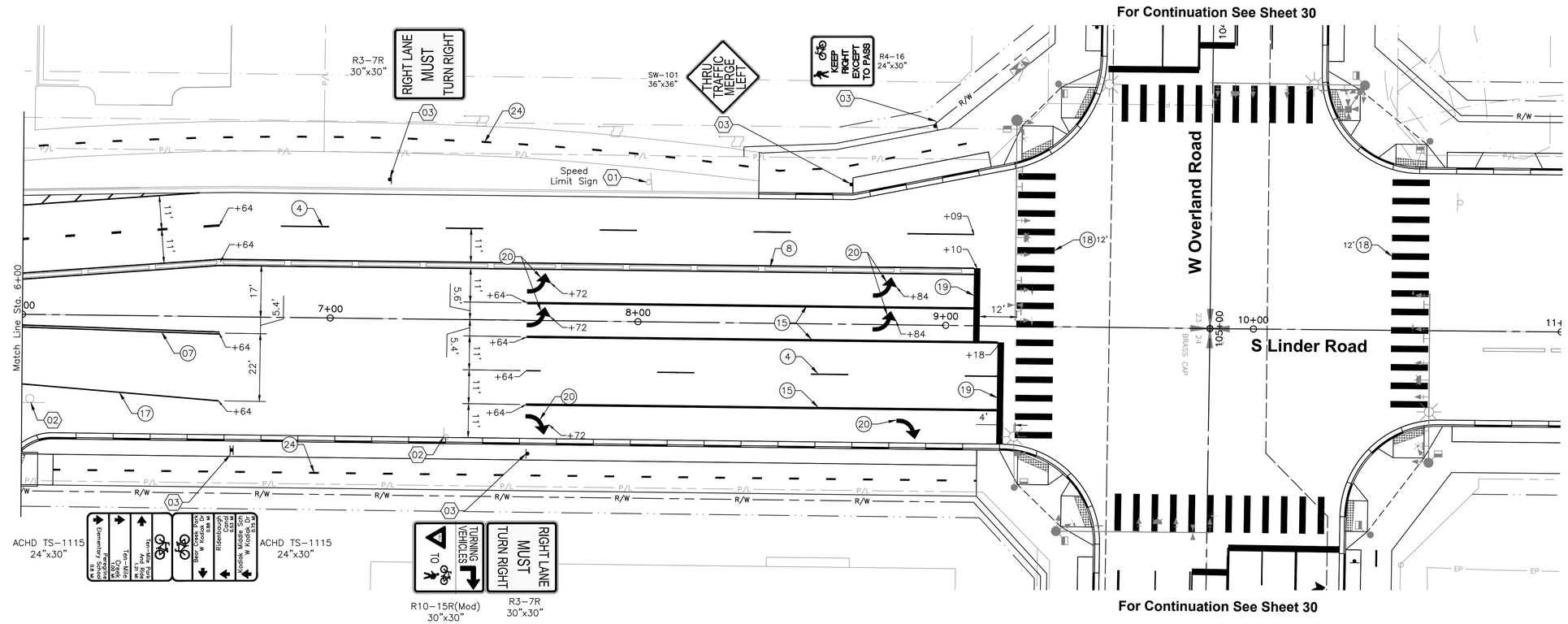
PROFESSIONAL ENGINEER REGISTERED
7756
05/22/2024
STATE OF IDAHO
DOWN R. CARNAHAN

Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022



N O T E S

01 Retain And Protect

02 Remove Sign, Item No. 201.4.1.C.1

03 Roadside Traffic Sign Installation, (One Metal Post, Item No. 1135.01.01

04 Relocate Roadside Sign, Item No. 1135.01.07

1. The Contractor Must Obliterate All Conflicting Pavement Markings Item SSP 11400
2. Street Name Sign Refer To ACHD Traffic Stanards TS 1109.03 For Details.

PAVEMENT MARKING LEGEND

3 — 4" White – Lane Line 7' Length & 18' Gap, Item No. 1134.03.03

4 — 4" White – Lane Line 12' Length & 38' Gap, Item No. 1134.03.04

5 — 4" Yellow – 2 Way Lt. Turn 7' Length & 18' Gap, Item No. 1134.03.05

7 — 4" Yellow – No Passing – 2 Direction, Item No. 1134.03.07

8 — 4" Yellow – Striped Median, Item No. 1134.03.08

11 — 8" White – Lane Drop 3' Length & 12' Gap, Item No. 1134.03.11

12 — 8" White – Bike Lane At Int. 2' Length & 6' Gap, Item No. 1134.03.12

15 — 8" White – Channelizing\Bike Lane, Item No. 1134.03.15

16 — 4" Yellow – Left Edge\Divided Hwy, Item No. 1134.03.16

17 — 4" White – Right Edge, Item No. 1134.03.17

18 — 24" White – Cross Walk – Thermoplastic Item No. 1134.05.21

19 — 24" White – Stop Bar – Thermoplastic Item No. 1134.05.21

20 — Thermoplastic Pavement Markings Item No. 1134.05.21

21 — 4" White – Chevron – Item No. 1134.03.21

24 — 4" Yellow – Multiuse Pathway Center Line 3' Length & 9' Gap, Item No. 1134.03.21

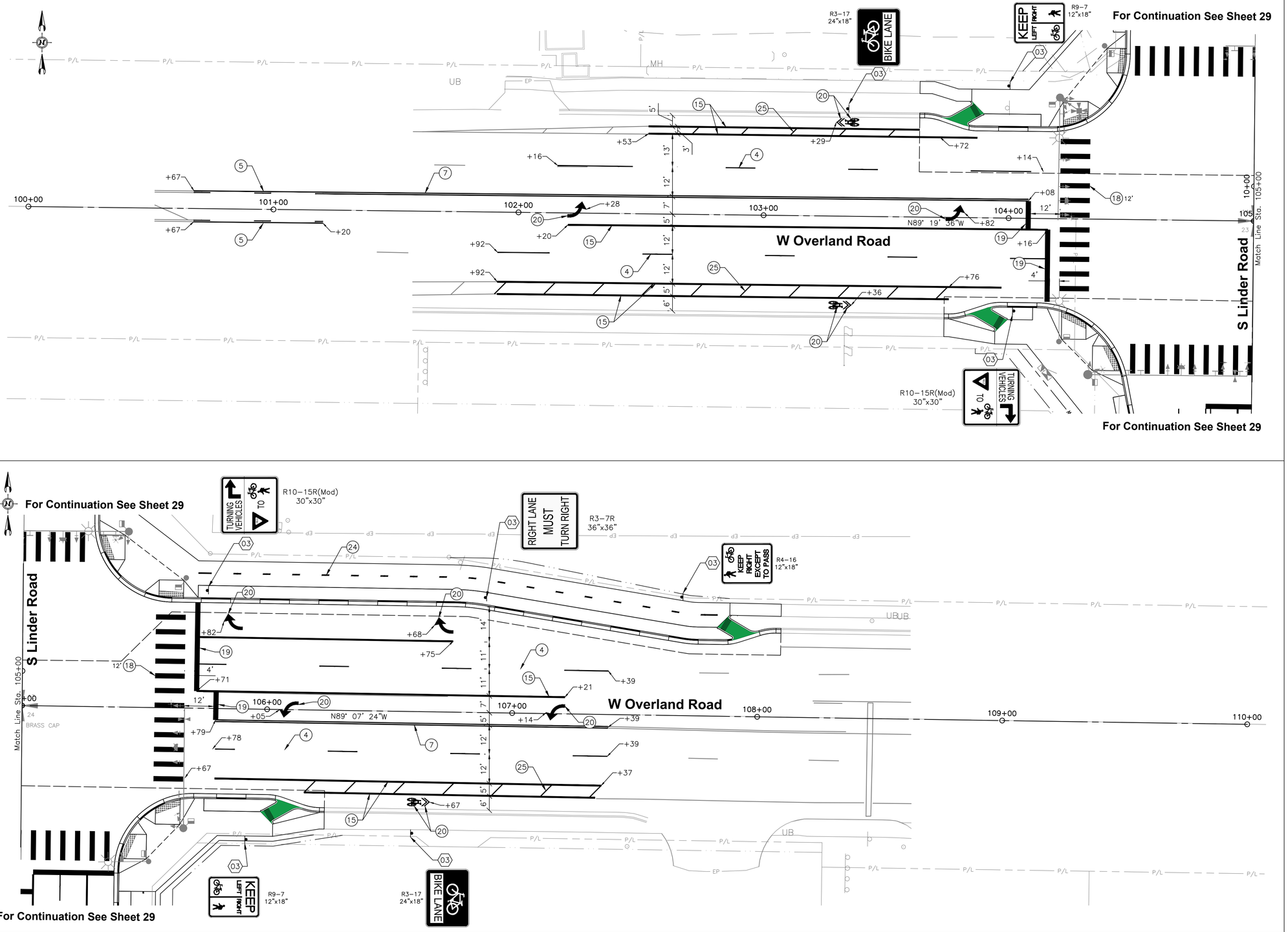
25 — 4" White – Stripe at 30' – Item No. 1134.03.21

0 20 40 60
Plan Scale

KELLER ASSOCIATES

Digital Signature — Professional Engineer — Registered — 7756 — 5/22/2024 — State of Idaho — Donn R. Carnahan

Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022



N O T E S

01. Retain And Protect
02. Remove Sign, Item No. 201.4.1.C.1
03. Roadside Traffic Sign Installation, (One Metal Post, Item No. 1135.01.01
04. Relocate Roadside Sign, Item No. 1135.01.07

1. The Contractor Must Obliterate All Conflicting Pavement Markings Item SSP 11400
2. Street Name Sign Refer To ACHD Traffic Stanards TS 1109.03 For Details.

PAVEMENT MARKING LEGEND

3. 4" White – Lane Line 7' Length & 18' Gap, Item No. 1134.03.03
4. 4" White – Lane Line 12' Length & 38' Gap, Item No. 1134.03.04
5. 4" Yellow – 2 Way Lt. Turn 7' Length & 18' Gap, Item No. 1134.03.05
7. 4" Yellow – No Passing – 2 Direction, Item No. 1134.03.07
8. 4" Yellow – Striped Median, Item No. 1134.03.08
11. 8" White – Lane Drop 3' Length & 12' Gap, Item No. 1134.03.11
12. 8" White – Bike Lane At Int. 2' Length & 6' Gap, Item No. 1134.03.12
15. 8" White – Channelizing\Bike Lane, Item No. 1134.03.15
16. 4" Yellow – Left Edge\Divided Hwy, Item No. 1134.03.16
17. 4" White – Right Edge, Item No. 1134.03.17
18. 24" White – Cross Walk – Thermoplastic Item No. 1134.05.21
19. 24" White – Stop Bar – Thermoplastic Item No. 1134.05.21
20. Thermoplastic Pavement Markings Item No. 1134.05.21
21. 4" White – Chevron – Item No. 1134.03.21
24. 4" Yellow – Multiuse Pathway Center Line 3' Length & 9' Gap, Item No. 1134.03.21
25. 4" White – Stripe at 30' – Item No. 1134.03.21

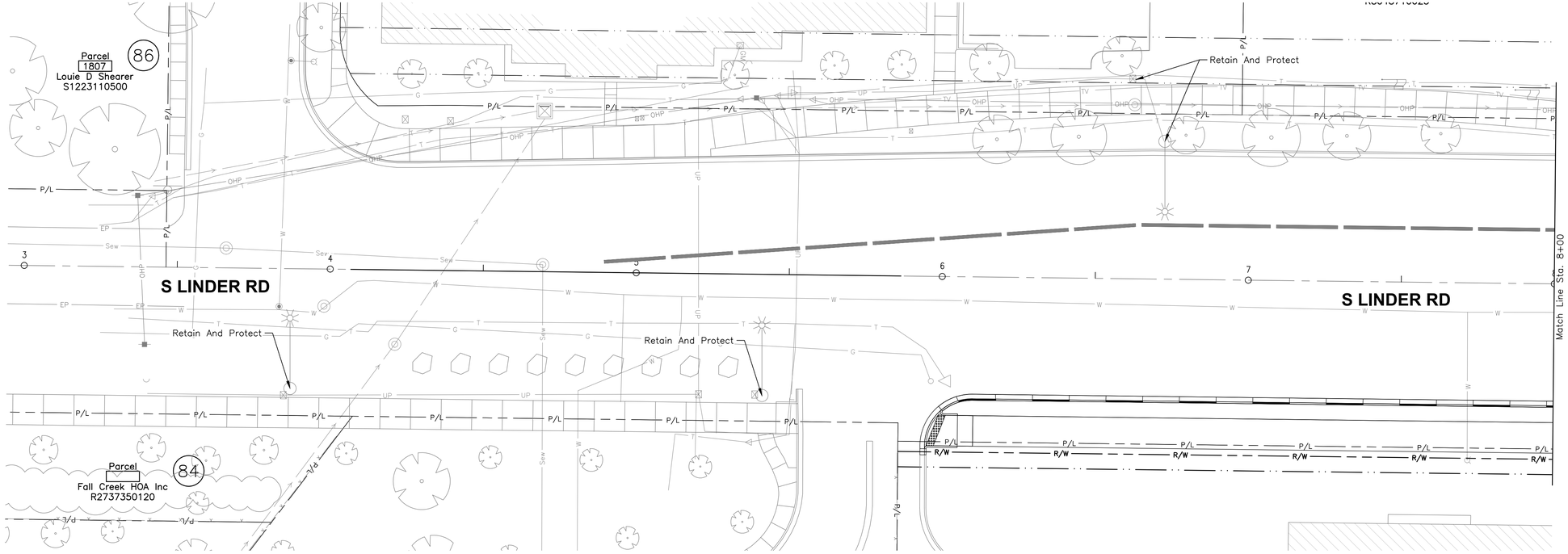
0 20 40 60
Plan Scale

KELLER ASSOCIATES

Digital Signature

PROFESSIONAL ENGINEER REGISTERED — Electronically signed by: DONN R. CARNAHAN — 7756 — 05/22/2024 — STATE OF IDAHO — F8C8B3F41454C441

Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022



N O T E S

1. All Locations Of The Lighting Poles Shall Be Field Verified By ACHD Prior To Installation.
2. It Is Not The Intent Of These Plans To Show The Exact Location Of Underground, Overhead Utilities, And Structures. It Is The Responsibility Of The Contractor To Verify The Locations Of All Existing Utilities With Their Respective Owners. Existing Utilities Damaged By The Contractor Shall Be Repaired At The Contractor's Expense. Call Digline 48 Hours Prior To Excavation To Request Underground Utility Locations.
3. Lighting Plan Designed With Leotek Model No. GCM#–60J–MV–40K–3R–BK–PCR7 124W LED Fixtures.

(01) Install Streetlight, Item 1131.01.06

(02) Install Street Lighting Conduit, With Cabling Indicated, Item 1131.01.07

(03) Install Street Lighting Junction Box, S–40T/ADA, Item 1131.01.08

(04) Install City Of Meridian Future Fiber Conduit (2"), Item 1102.4.1.E.1.2

(05) Install City Of Meridian Future Junction Box, S–40T/ADA, Item 1102.4.1.F.1.B

(06) Install Traffic Signal Interconnect Conduit (Trench), With Locate Wire, Item 1131.01.02.B

(07) Relocate Existing Street Light, Item 1102.4.1.B.1

L E G E N D

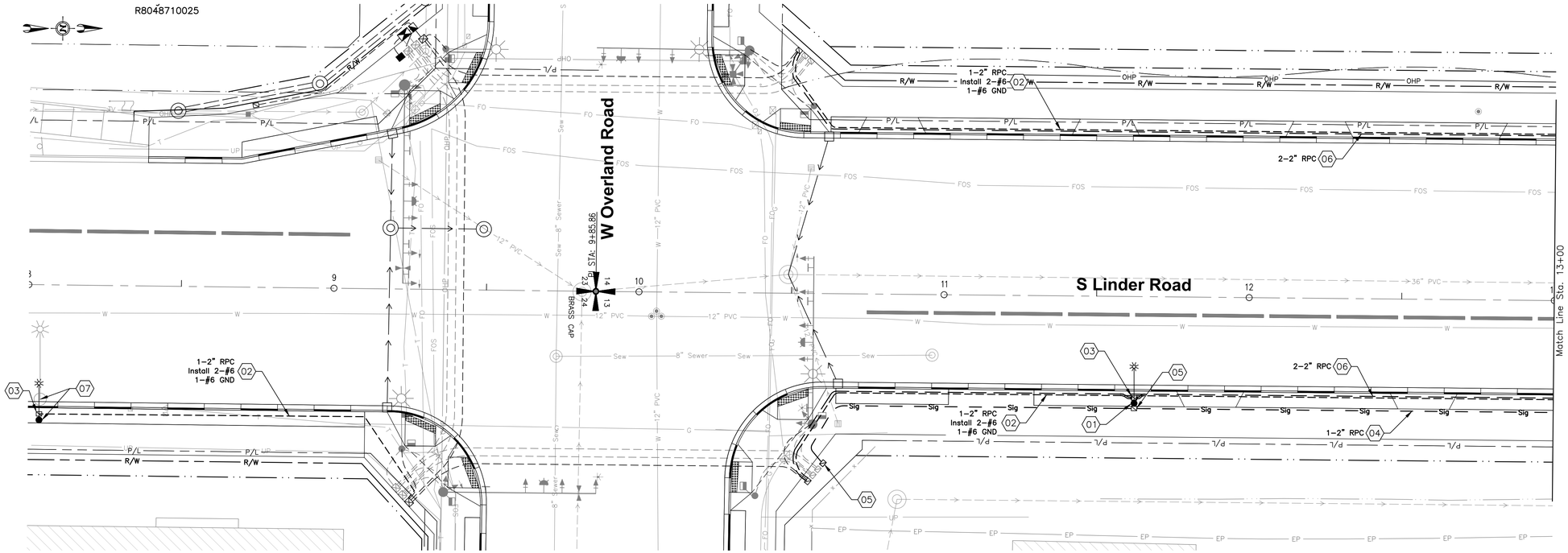
- Service Pedestal
- S–40T/ADA Junction Box
- S–45T/ADA Junction Box with Riser
- Sig — City Of Meridian Fiber Conduit
- Interconnect Conduit
- Illumination Conduit
- Power Pole
- Luminaire Pole
- 1 — Project Note Number
- 92 — Bid Item Note Number
- Signal Cabinet

0 20 40 60
Plan Scale

KELLER ASSOCIATES

Digital Signature
Professional Engineer
Registered
F8C8B3F41450441...
7756
05/22/2024
State of Idaho
Donn R. Carnahan

Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022



N O T E S

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(01) Install Streetlight, Item 1131.01.06

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(06) Install Traffic Signal Interconnect Conduit (Trench), With Locate Wire, Item 1131.01.02.B

(07) Relocate Existing Street Light, Item 1102.4.1.B.1

L E G E N D

- Service Pedestal
- S-40T/ADA Junction Box
- S-45T/ADA Junction Box with Riser
- Sig — City Of Meridian Fiber Conduit
- Interconnect Conduit
- Illumination Conduit
- Power Pole
- Luminaire Pole
- 1 — Project Note Number
- 92 — Bid Item Note Number
- Signal Cabinet

0 20 40 60
Plan Scale

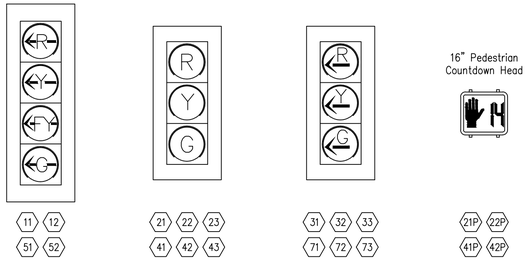
KELLER ASSOCIATES

Digital Signature

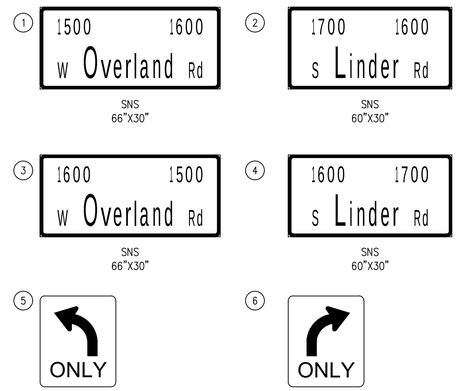
PROFESSIONAL ENGINEER REGISTERED F8C8B3F41465C44... 7756 05/22/2024 STATE OF IDAHO DONN R. CARNAHAN

Revisions:	Design By: J. Thornton Date: 1/2024	Drawn By: A. Corley Date: 1/2024	Survey By: A. Hafen Date: 09/2022

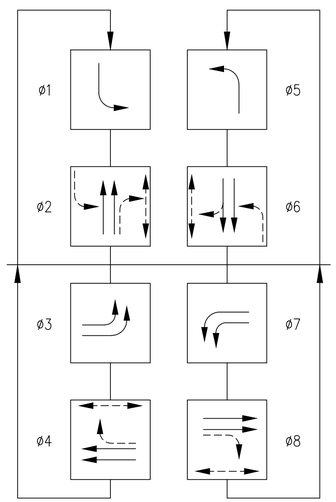
SIGNAL HEAD SCHEDULE

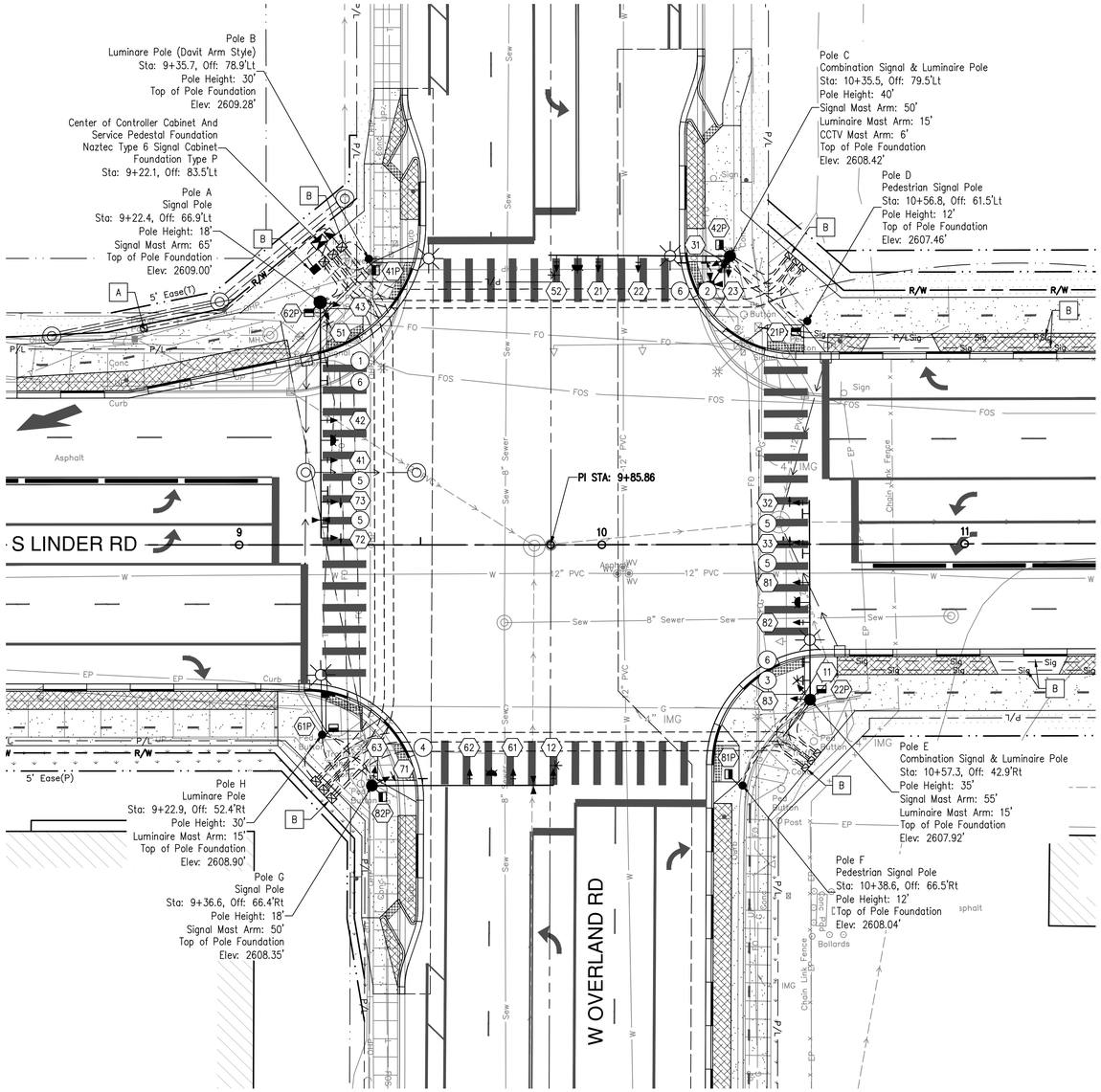


MASTARM SIGN SCHEDULE



PHASE DIAGRAM





TRAFFIC SIGNAL LEGEND

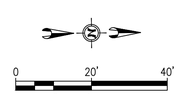
- 21 — Signal Head Number
- A — Project Note Number
- 1 — Sign Face Number
- 1 — Conduit Run Number
- Signal Pole With Luminaire, Mast Arm And Signal Heads
- Signal Head With Backplate
- Pedestrian Signal Head
- Mast Arm Mounted Sign
- Gridsmart Video Detection Camera
- Emergency Preempt Detector
- Advanced Radar Detection
- CCTV Camera
- Signal Controller Cabinet And Service Pedestal
- Junction Box (Type S-40T/ADA)
- Junction Box (Type S-45T/ADA)
- Conduit Group

NOTES

1. Refer To ACHD Standard Traffic Details (TS Series) For Construction Details And Installation Requirements.
2. The Contractor Shall Verify And Check All Dimensions And Details Shown On The Drawings Prior To The Start Of Construction. Any Discrepancies Shall Be Immediately Brought To The Attention Of The Engineer For Clarification.
3. The Locations Of The Traffic Signal Cabinet, Service Pedestal And Signal Poles Foundations Shall Be Field Verified By ACHD Prior To Installation. ACHD Forces Must Be Notified At Least Two Working Days Prior To Installation.
4. Locations Of Existing Underground Structures And Utilities Such As Pipelines Conduits, Cables, Etc. Shown On The Traffic Signal Plans Are Approximate Only. It Is Not The Intent Of These Plans To Show The Exact Location Of All Underground Utilities And Structures. It Is The Responsibly Of The Contractor To Verify The Locations Of All Existing Utilities With The Respective Owners. Existing Utilities Damaged By The Contractor Shall Be Repaired At The Contractors Expense.
5. All Traffic Control Devices Shall Conform To The Latest Edition Of The Manual Of Uniform Traffic Control Devices (MUTCD).
6. Information Shown On This Sheet Is Accurate Only For Traffic Signal Improvements.
7. Regulatory Signs Mounted On Traffic Signal Mast Arms Are Incidental To The Traffic Signal Installation And Are Not Paid For Separately.
8. Contractor To Install Video Detection Cable From Cabinet To The Gridsmart Video Camera Location As Indicated On The Conduit Schedule. Install Gridsmart Video Camera In Location As Directed By ACHD. Contractor To Terminate Conductors In The Field And Coil 10 Feet Of Cable In Cabinet For Termination By ACHD. ACHD To Furnish And Determine Location Of Gridsmart Video Camera, Orient The Camera, Establish The Detection Zones And Calibrate The Entire System For Operation. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation.
9. Contractor To Install Radar Detection Cable From Cabinet To The Radar Detector Location As Indicated On The Conduit Schedule. Install Radar Detector In Location As Directed By ACHD. Contractor To Terminate Conductors In The Field And Coil 10 Feet Of Cable In Cabinet For Termination By ACHD. ACHD To Furnish And Determine Location Of Radar Detector, Orient The Detector, Establish The Detection Zones And Calibrate The Entire System For Operation. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation.
10. Contractor Shall Orient Emergency Pre-Empt Detectors For Optimal Visibility. Contractor To Pick Up Pre-Emption Equipment From Meridian Fire Department. Contact Charlie Butterfield (208-888-1234) At Least 10 Working Days Prior To The Anticipated Pre-Emption Equipment Installation.
11. Contractor Shall Install CCTV Cable From Cabinet To The CCTV Camera Location On Pole A. Coil 10 Feet Of Cable At The End Of The CCTV Camera Mast Arm For Termination By ACHD Forces. ACHD To Furnish, Install And Orient The CCTV Camera. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation. The Existing CCTV Camera Must Remain In Operation During Construction. It May Be Disconnected For A Maximum Of 48 Hours On Weekends Only.
12. Remove And Salvage Existing Signal Cabinet, Service Pedestal, Signal Poles, Mast Arms, Signal Heads, Signs, Light Fixtures And All Other Signal Equipment To ACHD Signal Shop. Coordinate With Idaho Power For Power Clearance Requirements For Equipment And Workers When Removing Mast Arms. Remove And Salvage Existing Pre-Emption Equipment To Meridian Fire Department. Remove And Dispose Of All Foundations, Conduit, Cabling And Junction Boxes Unless Otherwise Noted. The Existing Traffic Signal Control For The Existing Overland Rd And Linder Rd Intersection Shall Remain In Operation Until The New Traffic Signal Is Fully Operational, Item 1131.01.01.A1.

[A] If Indicated On The Plans Or Directed By ACHD, The Contractor Shall Install A Three-Wire Electrical Service To Be Used At 120/240 Volts, Single Phase, 60 Hertz AC Between The Power Supply And The Service Cabinet. The Contractor Shall Install A Junction Box A Maximum Of Two (2) Feet From The Power Supply. The Distance From The Power Source To The Service Cabinet Shall Not Exceed 300' Without Approval From The ACHD Signal Coordinator. The Contractor Shall Coordinate With Idaho Power For The Power Connection Location. The District Shall Be Responsible For All Idaho Power Fees Related To Power Supply And Connection. The Contractor Shall Have Idaho Power Submit Paperwork To The ACHD Utility Coordinator For The Connection A Minimum Of Sixty (60) Working Days Prior To Activating The New Power Supply. The Contractor Shall Be Responsible For All Electrical Permit Fees.

[B] Refer To Illumination And Interconnect Plan & Detail Sheets For Continuous Illumination And Interconnect Improvements. Luminaire Poles & Fixtures, All Conduit, Junction Boxes And Cabling To Be Paid For By Separate Bid Items.



PRECISION ENGINEERING

Revisions:

• SIGNATURES •

Design By: Precision Date: 4/2024 Drawn By: Precision Date: 4/2024

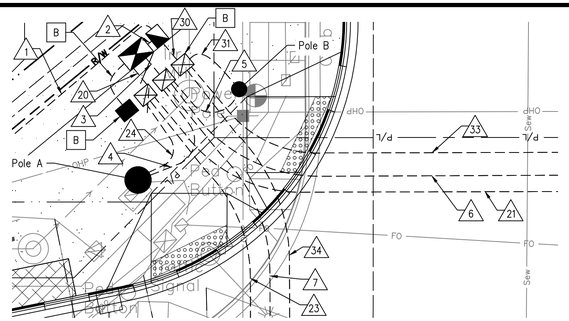
• SHEET TITLE •

Traffic Signal Plan

PROFESSIONAL ENGINEER 12754 4/12/2024 STATE OF IDAHO JOEL GROUNDS

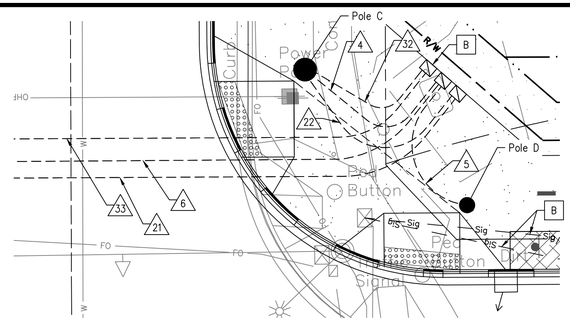
CONDUIT AND CONDUCTOR SCHEDULE

NO.	CONDUIT	CONDUCTORS
1	2" RPC	3-3/0 Copper Or 3-4/0 Aluminum (200A Services)
2	2" RPC	2-#6, 1-#6 Bare (Signal Cabinet Service)
3	2" RPC 2" RPC 2" RPC 2" RPC 2" RPC 2" RPC	2-12C, 1-5C, 1-#6 Bare (Vehicle And Ped) 2-12C, 1-5C, 1-#6 Bare (Vehicle And Ped) 2-12C, 1-5C, 1-#6 Bare (Vehicle And Ped) 2-12C, 1-5C, 1-#6 Bare (Vehicle And Ped) Spare (Install Locate Wire) Spare (Install Locate Wire)
4	2" RPC	2-12C, 1-#6 Bare (Vehicle And Ped)
5	2" RPC	1-5C, 1-#6 Bare (Ped)
6	2" RPC 2" RPC	2-12C, 1-5C, 1-#6 Bare (Vehicle And Ped) Spare (Install Locate Wire)
7	2" RPC 2" RPC 2" RPC	2-12C, 1-5C, 1-#6 Bare (Vehicle And Ped) 2-12C, 1-5C, 1-#6 Bare (Vehicle And Ped) Spare (Install Locate Wire)
20	2" RPC 2" RPC 2" RPC 2" RPC 2" RPC	1-COAX/5C (Gridsmart Video Detection) 1-CAT5 (POE+) (CCTV) 1-Radar Detection Cable 1-3C (Opticom) 1-Radar Detection Cable 1-Radar Detection Cable 1-COAX/5C (Gridsmart Video Detection) 1-3C (Opticom) 1-Radar Detection Cable Spare (Install Locate Wire) Spare (Install Locate Wire)
21	2" RPC 2" RPC	1-COAX (Gridsmart Video Detection) 1-CAT5 (POE+) (CCTV) 1-Radar Detection Cable Spare (Install Locate Wire)
22	2" RPC	1-COAX (Gridsmart Video Detection) 1-CAT5 (POE+) (CCTV) 1-Radar Detection Cable
23	2" RPC 2" RPC 2" RPC	1-3C (Opticom) 1-Radar Detection Cable 1-COAX (Gridsmart Video Detection) 1-Radar Detection Cable Spare (Install Locate Wire)
24	2" RPC	1-3C (Opticom) 1-Radar Detection Cable
25	2" RPC	1-COAX (Gridsmart Video Detection)
26	2" RPC 2" RPC	1-Radar Detection Cable Spare (Install Locate Wire)
27	2" RPC	1-Radar Detection Cable
30	2" RPC 2" RPC 2" RPC 2" RPC	2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #1) 2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #2) Spare (Install Locate Wire) Spare (Install Locate Wire)
31	2" RPC	2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #1)
32	2" RPC	2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #2)
33	2" RPC 2" RPC	2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #2) Spare (Install Locate Wire)
34	2" RPC 2" RPC 2" RPC	2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #1) 2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #2) Spare (Install Locate Wire)
35	2" RPC 2" RPC	2-#6 THWN, 1-#6 THWN Ground (Lighting Ckt #1) Spare (Install Locate Wire)



Cabinet/Poles A & B Area Conduit Layout

Not to Scale



Poles C & D Area Conduit Layout

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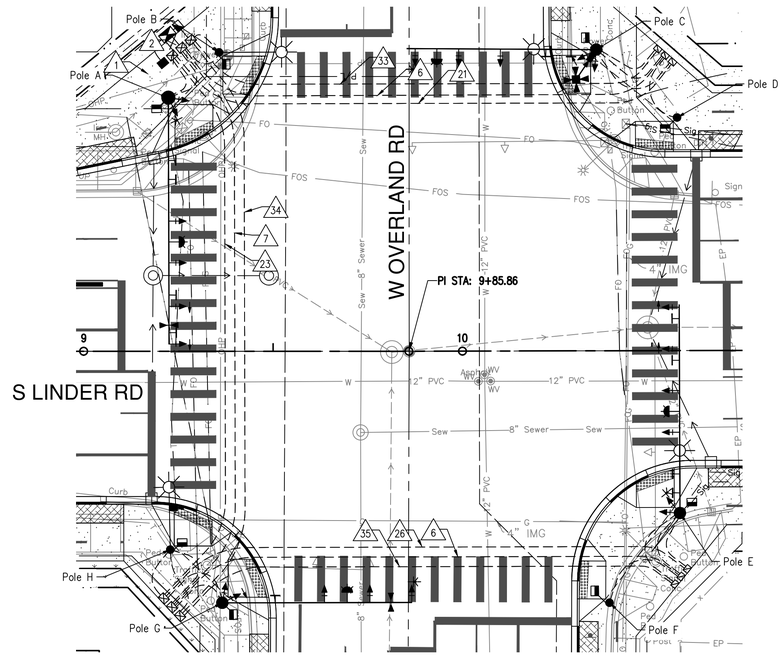
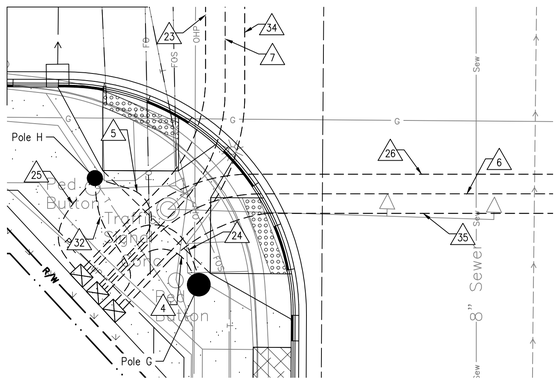
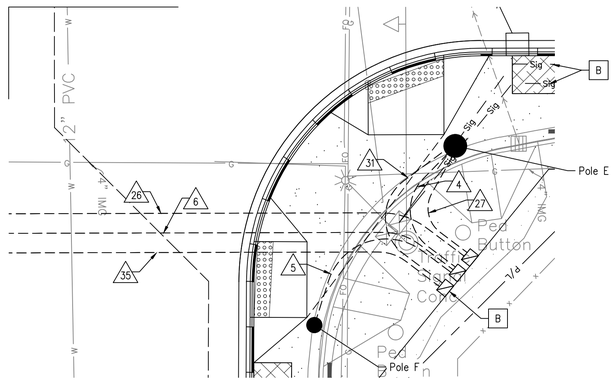




Poles G & H Area Conduit Layout

Not to Scale



Poles E & F Area Conduit Layout

Not to Scale

N O T E S

1. Refer To ACHD Standard Traffic Details (TS Series) For Construction Details And Installation Requirements.
2. The Conduit Layout Shown Is Schematic. The Contractor Shall Maintain The Appropriate Clearance Between Adjacent Utilities.
3. Ground The Traffic Signal And Illumination System In Accordance With The Current Edition Of The NEC And The ACHD Traffic Supplemental Provisions.
4. Locations Of Existing Underground Structures And Utilities Such As Pipelines Conduits, Cables, Etc. Shown On The Traffic Signal Plans Are Approximate Only. It Is Not The Intent Of These Plans To Show The Exact Location Of All Underground Utilities And Structures. It Is The Responsibly Of The Contractor To Verify The Locations Of All Existing Utilities With The Respective Owners. Existing Utilities Damaged By The Contractor Shall Be Repaired At The Contractors Expense.
5. Information Shown On This Sheet Is Accurate Only For Traffic Signal Improvements Only.
6. Install 1-4C In The AGPS SPI Unit Located In The Pedestrian Signal Head To The Corresponding AGPS Push Button Assembly.
7. Install One Locate Wire (No. 12 Copper THWN, Green) In Each Conduit. Where Multiple Locate Wire Exists In The Junction Box, They Shall Be Bonded Together And Insulated. A Single Locate Wire Shall Be Installed To The Service Pedestal. All Locate Wire In Cabinets And Junction Boxes Shall Be Labeled As "Locate Wire" And Insulated From All Metallic Items And Ground Potential Sources, Incidental To Other Traffic Signal Bid Items.

A If Indicated On The Plans Or Directed By ACHD, The Contractor Shall Install A Three-Wire Electrical Service To Be Used At 120/240 Volts, Single Phase, 60 Hertz AC Between The Power Supply And The Service Cabinet. The Contractor Shall Install A Junction Box A Maximum Of Two (2) Feet From The Power Supply. The Distance From The Power Source To The Service Cabinet Shall Not Exceed 300' Without Approval From The ACHD Signal Coordinator. The Contractor Shall Coordinate With Idaho Power For The Power Connection Location. The District Shall Be Responsible For All Idaho Power Fees Related To Power Supply And Connection. The Contractor Shall Have Idaho Power Submit Paperwork To The ACHD Utility Coordinator For The Connection A Minimum Of Sixty (60) Working Days Prior To Activating The New Power Supply. The Contractor Shall Be Responsible For All Electrical Permit Fees.

B Refer To Illumination And Interconnect Plan & Detail Sheets For Continuous Illumination And Interconnect Improvements. Luminaire Poles & Fixtures, All Conduit, Junction Boxes And Cabling To Be Paid For By Separate Bid Items.

0 20' 40'

Scale: 1" = 20'

PRECISION ENGINEERING

PROFESSIONAL ENGINEER 12754 4/12/2024 STATE OF IDAHO JOEL GROUNDS

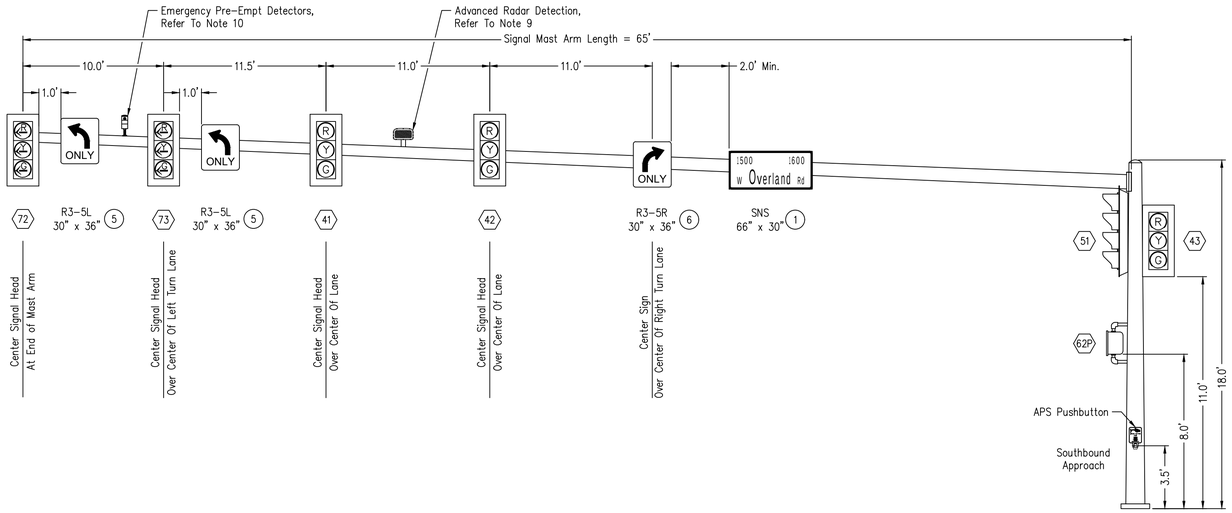
Revisions:

• S I G N A T U R E S •

Design By: Precision Date: 4/2024 Drawn By: Precision Date: 4/2024

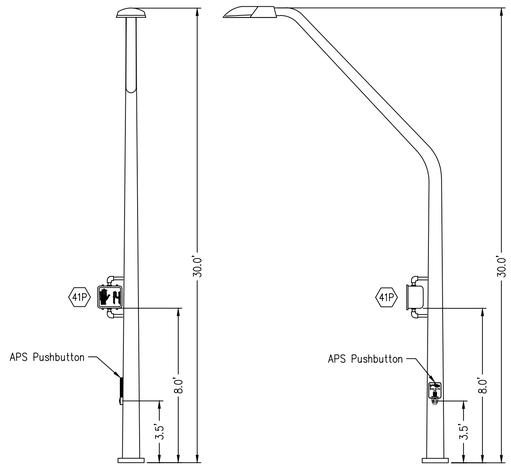
• S H E E T T I T L E •

Traffic Signal Details



Signal Pole A

Not to Scale

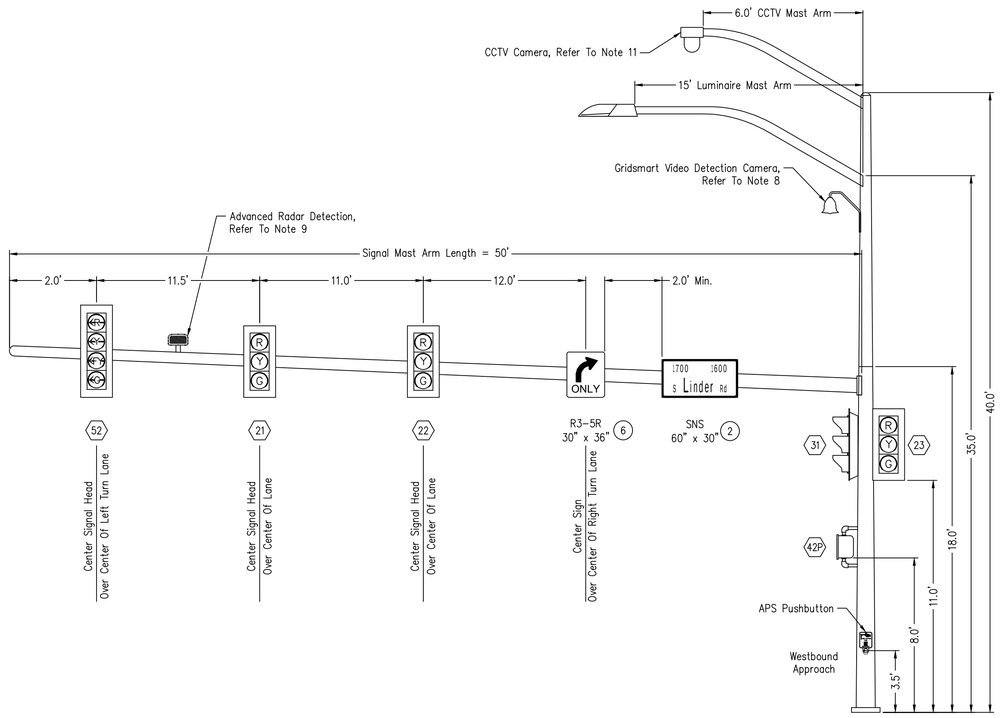


Luminaire Pole (Davit Arm Style) B

Not to Scale

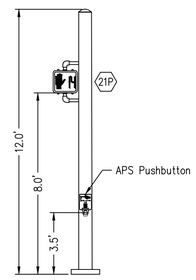
N O T E S

1. The Contractor Shall Verify And Check All Dimensions And Details Shown On The Drawings Prior To The Start Of Construction. Any Discrepancies Shall Be Immediately Brought To The Attention Of The Engineer For Clarification.
2. Refer To ACHD Standard Traffic Details (TS Series) For Construction Details And Installation Requirements.
3. Ground The Traffic Signal And Illumination System In Accordance With The Current Edition Of The NEC And The ACHD Traffic Supplemental Provisions.
4. All Traffic Control Devices Shall Conform To The Latest Edition Of The Manual Of Uniform Traffic Control Devices (MUTCD).
5. Information Shown On This Sheet Is Accurate Only For Traffic Signal Improvements.
6. Regulatory Signs Mounted On Traffic Signal Mast Arms Are Incidental To The Traffic Signal Installation And Are Not Paid For Separately.
7. Dimensions Shown On The Signal Mast Arms Are Accurate For The Pole Locations Shown On The Plan Sheets Only. If The Poles Are Located Differently, Mast Arm Lengths And Signal Head And Sign Locations May Change.
8. Contractor To Install Video Detection Cable From Cabinet To The Gridsmart Video Camera Location As Indicated On The Conduit Schedule. Install Gridsmart Video Camera In Location As Directed By ACHD. Contractor To Terminate Conductors In The Field And Coil 10 Feet Of Cable In Cabinet For Termination By ACHD. ACHD To Furnish And Determine Location Of Gridsmart Video Camera, Orient The Camera, Establish The Detection Zones And Calibrate The Entire System For Operation. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation.
9. Contractor To Install Radar Detection Cable From Cabinet To The Radar Detector Location As Indicated On The Conduit Schedule. Install Radar Detector In Location As Directed By ACHD. Contractor To Terminate Conductors In The Field And Coil 10 Feet Of Cable In Cabinet For Termination By ACHD. ACHD To Furnish And Determine Location Of Radar Detector, Orient The Detector, Establish The Detection Zones And Calibrate The Entire System For Operation. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation.
10. Contractor Shall Orient Emergency Pre-Empt Detectors For Optimal Visibility. Contractor To Pick Up Pre-Emption Equipment From Meridian Fire Department. Contact Charlie Butterfield (208-888-1234) At Least 10 Working Days Prior To The Anticipated Pre-Emption Equipment Installation.
11. Contractor Shall Install CCTV Cable From Cabinet To The CCTV Camera Location On Pole A. Coil 10 Feet Of Cable At The End Of The CCTV Camera Mast Arm For Termination By ACHD Forces. ACHD To Furnish, Install And Orient The CCTV Camera. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation. The Existing CCTV Camera Must Remain In Operation During Construction. It May Be Disconnected For A Maximum Of 48 Hours On Weekends Only.
12. Install 1-4C In The AGPS SPI Unit Located In The Pedestrian Signal Head To The Corresponding AGPS Push Button Assembly.



Combination Signal & Luminaire Pole C

Not to Scale



Pedestrian Signal Pole D

Not to Scale

PRECISION ENGINEERING

• S H E E T T I T L E •

Traffic Signal Details

Revisions:

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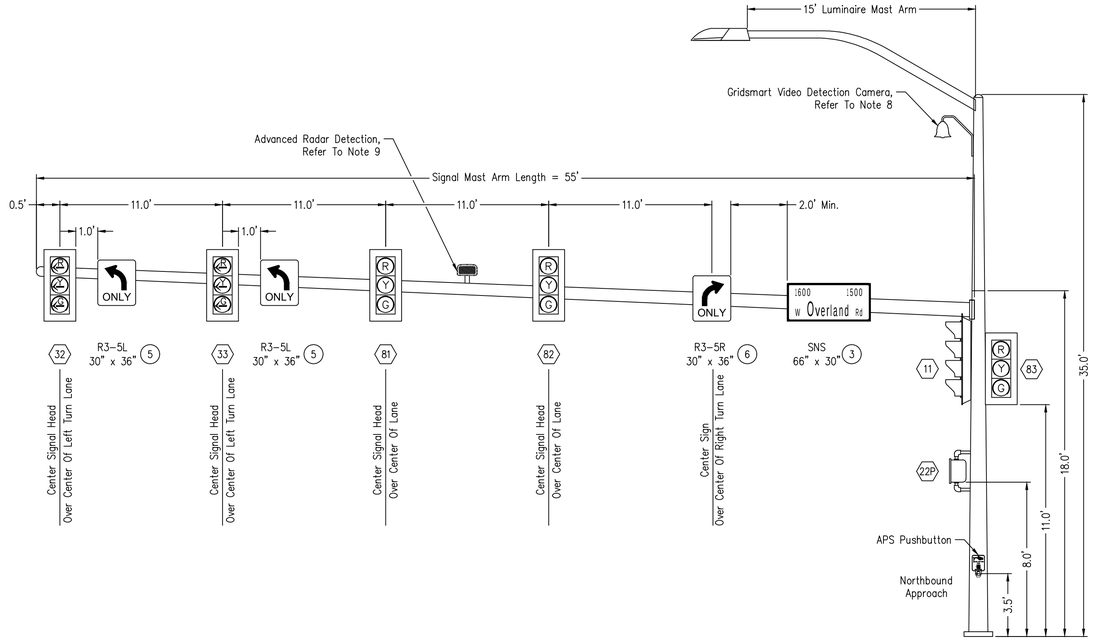
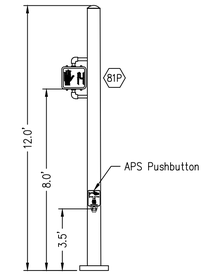
Design By: Precision Date: 4/2024 Drawn By: Precision Date: 4/2024

PROFESSIONAL ENGINEER 12754 STATE OF IDAHO JOEL GROUNDS 4/2/2024



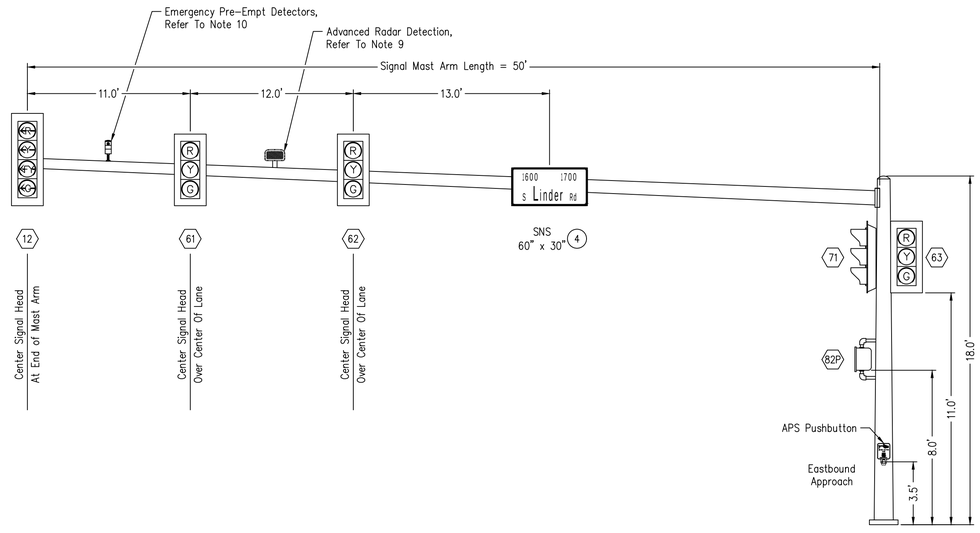
Combination Signal & Luminaire Pole E

Not to Scale



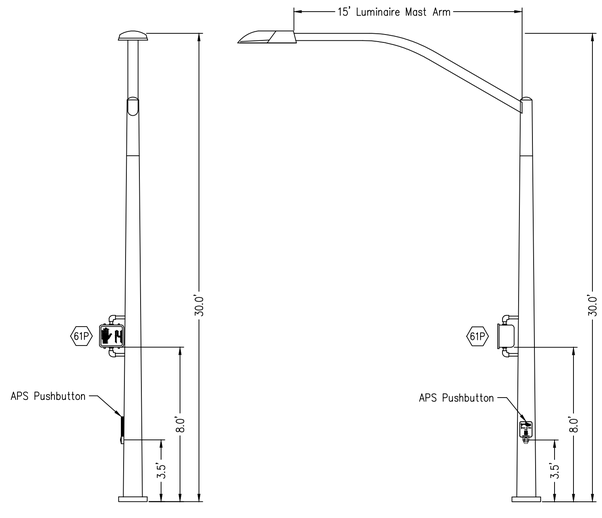
Pedestrian Signal Pole F

Not to Scale



Signal Pole G

Not to Scale



Luminaire Pole H

Not to Scale

NOTES

1. The Contractor Shall Verify And Check All Dimensions And Details Shown On The Drawings Prior To The Start Of Construction. Any Discrepancies Shall Be Immediately Brought To The Attention Of The Engineer For Clarification.
2. Refer To ACHD Standard Traffic Details (TS Series) For Construction Details And Installation Requirements.
3. Ground The Traffic Signal And Illumination System In Accordance With The Current Edition Of The NEC And The ACHD Traffic Supplemental Provisions.
4. All Traffic Control Devices Shall Conform To The Latest Edition Of The Manual Of Uniform Traffic Control Devices (MUTCD).
5. Information Shown On This Sheet Is Accurate Only For Traffic Signal Improvements.
6. Regulatory Signs Mounted On Traffic Signal Mast Arms Are Incidental To The Traffic Signal Installation And Are Not Paid For Separately.
7. Dimensions Shown On The Signal Mast Arms Are Accurate For The Pole Locations Shown On The Plan Sheets Only. If The Poles Are Located Differently, Mast Arm Lengths And Signal Head And Sign Locations May Change.
8. Contractor To Install Video Detection Cable From Cabinet To The Gridsmart Video Camera Location As Indicated On The Conduit Schedule. Install Gridsmart Video Camera In Location As Directed By ACHD. Contractor To Terminate Conductors In The Field And Coil 10 Feet Of Cable In Cabinet For Termination By ACHD. ACHD To Furnish And Determine Location Of Gridsmart Video Camera, Orient The Camera, Establish The Detection Zones And Calibrate The Entire System For Operation. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation.
9. Contractor To Install Radar Detection Cable From Cabinet To The Radar Detector Location As Indicated On The Conduit Schedule. Install Radar Detector In Location As Directed By ACHD. Contractor To Terminate Conductors In The Field And Coil 10 Feet Of Cable In Cabinet For Termination By ACHD. ACHD To Furnish And Determine Location Of Radar Detector, Orient The Detector, Establish The Detection Zones And Calibrate The Entire System For Operation. ACHD Forces Must Be Notified At Least 5 Working Days Prior To Installation.
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12. Install 1-4C In The AGPS SPI Unit Located In The Pedestrian Signal Head To The Corresponding AGPS Push Button Assembly.

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Revisions:

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Traffic Signal Details

PROFESSIONAL ENGINEER 12754 STATE OF IDAHO JOEL GROUNDS 4/12/2024

TRAFFIC SIGNAL MATERIALS

Pole	Pole Type	Signal Mast Arm	Luminaire	Signal Mounting Location (Signal Head No.)	Signal Mounting Brackets	Mast Arm Signs	Foundation See TS-1110
Pole A	Signal Pole Pole Height: 18'	65'	N/A	0.0' From End (72) 10.0' From End (73) 21.5' From End (41) 32.5' From End (42) Pole Mounted (43) Pole Mounted (51)	Astro Bracket Astro Bracket Astro Bracket Astro Bracket – –	R3-5L (30"x36") R3-5L (30"x36") R3-5R (30"x36") SNS (66"x30") "1500 1600" "W Overland Rd"	G
Pole B	Luminaire Pole (Davit Arm Style) Pole Height: 30'	N/A	133 Watt LED Fixture	N/A	N/A	N/A	A
Pole C	Combination Signal And Luminaire Pole Pole Height: 40'	50'	15' Mast Arm 133 Watt LED Fixture	2.0' From End (52) 13.5' From End (21) 24.5' From End (22) Pole Mounted (23) Pole Mounted (31)	Astro Bracket Astro Bracket Astro Bracket – –	R3-5R (30"x36") SNS (60"x30") "1700 1600" "S Linder Rd"	F
Pole D	Pedestrian Signal Pole Pole Height: 12'	N/A	N/A	N/A	N/A	N/A	A
Pole E	Combination Signal And Luminaire Pole Pole Height: 35'	55'	15' Mast Arm 133 Watt LED Fixture	0.5' From End (32) 11.5' From End (33) 22.5' From End (81) 33.5' From End (82) Pole Mounted (83) Pole Mounted (11)	Astro Bracket Astro Bracket Astro Bracket Astro Bracket – –	R3-5L (30"x36") R3-5L (30"x36") R3-5R (30"x36") SNS (66"x30") "1600 1500" "W Overland Rd"	F
Pole F	Pedestrian Signal Pole Pole Height: 12'	N/A	N/A	N/A	N/A	N/A	A
Pole G	Signal Pole Pole Height: 18'	50'	N/A	0.0' From End (12) 11.0' From End (61) 23.0' From End (62) Pole Mounted (63) Pole Mounted (71)	Astro Bracket Astro Bracket Astro Bracket – –	SNS (60"x30") "1600 1700" "S Linder Rd"	F
Pole H	Luminaire Pole Pole Height: 30'	N/A	15' Mast Arm 133 Watt LED Fixture	N/A	N/A	N/A	A

Note: The Backfill For The Pole Foundations Shall Be Controlled Density Fill

PRECISION ENGINEERING

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Traffic Signal Details