ITS LINE STYLE LEGEND

FUTURE OR EXISTING	REQ'D	TYPE	CONDUCTOR TYPES
—— #d ——	—— #D ——	4-CONDUIT DUCT BANK (# INDICATES NUMBER OF 4-CONDUIT DUCT BANKS 0.5, 1, 1.5, 2, OR 4)	FIBER OPTIC
—— hv# ——	—— XHV# ——	HIGH VOLTAGE CONDUIT (# INDICATES SIZE IN INCHES - 1 1/2, 2, 3, OR 4; X INDICATES NUMBER OF CONDUITS)	120, 240, OR 480VAC
—— lv# ——	—— XLV# ——	LOW VOLTAGE CONDUIT (# INDICATES SIZE IN INCHES - 1 1/2, 2, 3, OR 4; X INDICATES NUMBER OF CONDUITS)	COPPER COMM OR POWER LESS THAN 120VAC
—— tal# ——	—— XTAL# ——	TAIL CIRCUIT COMMUNICATIONS CONDUIT (# INDICATES SIZE IN INCHES - 1 1/2, 2, 3, OR 4; X INDICATES NUMBER OF CONDUITS)	FIBER OPTIC OR COPPER COMM
—— spr# ——	—— SPR# ——	SPARE CONDUIT (# INDICATES SIZE IN INCHES - 1 1/2, 2, 3, OR 4)	EMPTY
—— xc ——		EXISTING CONDUIT	UNKNOWN OR AS SPECIFIED
—— e ——	—— E ——	OVERHEAD POWER	N/A
—— ohc ——	—— OHC ——	OVERHEAD COMMUNICATIONS	N/A
—— ohx ——		EXISTING OVERHEAD CONDUCTORS	UNKNOWN OR AS SPECIFIED
—— md# ——	—— MD# ——	BUNDLED MICRODUCT (# INDICATED NUMBER OF INDIVIDUAL MICRODUCTS CONTAINED WITHIN OVER SHEATH; 2,3,4, OR 7)	MICRODUCT

ABBREVIATIONS

ABBREVIATION	DEFINITION
ATMS	ADVANCED TRAFFIC MANAGEMENT SYSTEM
AWG	AMERICAN WIRE GAUGE
BNC	BAYONET NEILL-CONCELMAN
CAB	CABINET
CAT-#	CATEGORY - (# INDICATES CATEGORY NUMBER) CONDUCTOR
CCTV	CLOSED CIRCUIT TELEVISION
COMM	COMMUNICATIONS
DLC	DETECTOR LOOP LEAD-IN CABLES
DIA	DIAMETER
ESS	ENVIRONMENTAL SENSOR STATION
FRE	FIBERGLASS REINFORCED EPOXY
GND	GROUND CONDUCTOR
GRC	GALVANIZED RIGID CONDUIT
HAR	HIGHWAY ADVISORY RADIO
HDPE	HIGH DENSITY POLYETHYLENE
HFC	HYBRID FIBER CABLE
HMA	HOT MIX ASPHALT
LAN	LOCAL AREA NETWORK
LM	LINEAR MEASURE
NID	NON-INTRUSIVE DETECTOR
NTS	NOT TO SCALE
OC	OFF CENTER
PC	POLYMER CONCRETE
PCCP	PORTLAND CEMENT CONCRETE PAVEMENT
PS	POWER SOURCE
PTCC	PAN-TILT CONTROL CABLE
PTZ	PAN/TILT/ZOOM
PWR	POWER
RDPE	REMOTE DATA PORT ENCLOSURE
REQ'D	REQUIRED
RMS	RAMP METER STATION
ROW	RIGHT-OF-WAY
RPU	REMOTE PROCESSING UNIT (FOR RWIS)
RWIS	ROADWAY WEATHER INFORMATION SYSTEM
## SMF	SINGLE MODE FIBER (## INDICATES NUMBER OF STRANDS)
TMS	TRAFFIC MONITORING STATION
TOC	TRAFFIC OPERATIONS CENTER
TSC	TRAFFIC SIGNAL CONTROLLER
TYP	TYPICAL
USP	UNDERGROUND SERVICE PEDESTAL
VAC	VOLTS (ALTERNATING CURRENT)
VID	VIDEO
VMS	VARIABLE MESSAGE SIGN
VSL	VARIABLE SPEED LIMIT
WIM	WEIGH-IN-MOTION
WP	WORKING POINT

DETAIL CALLOUT LEGEND

CALLOUT	MEANING
"X" / "Y"	SEE DETAIL "X" ON SHEET "Y"

EQUIPMENT LEGEND

FUTURE OR EXISTING	REQ'D	EQUIPMENT TYPE * NON-ANNOTATIVE CELL USED TO SHOW ACTUAL SIZE OF EQUIPMENT
		ROADWAY WEATHER INFORMATION SYSTEM
		CCTV CAMERA
II-pc	II-PC	TYPE II- HDPE JUNCTION BOX *
III-pc	III-PC	TYPE III- HDPE JUNCTION BOX *
		POLE-MOUNTED ITS CABINET *
		GROUND-MOUNTED ITS CABINET *
		POLE *
ps	PS	POWER SERVICE POINT
		UNDERGROUND SERVICE PEDESTAL
d	D	NON-INTRUSIVE DETECTOR (RADAR)
	SP ##	SPLICE POINT ## = SPLICE NUMBER
s	S	SOLAR ELECTRIC SYSTEM
		DRAINAGE CULVERT
w	W	WIFI HOTSPOT
		DIRECTIONAL BORE
	MILE XX.X	MILEPOST (FOR INFORMATION ONLY)
	LM XX.XX	LINEAR MEASURE MILEPOST (FOR REFERENCE ONLY)

ELECTRICAL SCHEMATIC LEGEND

FUTURE OR EXISTING	SYMBOL	EQUIPMENT
		BREAKER
M	M	METER
N	N	NEUTRAL LUG
EG	EG	EQUIPMENT GROUND LUG
		GROUND ROD
		TRANSFORMER
		BLADE SWITCH
		FUSE

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG
DATE 12/1/25
APPROVED
PROFESSIONAL ENGINEER

JURASSIC US-40 FIBER OPTICS
- SEGMENT B

PIN 22898
PROJECT NUMBER F-0040(249)51

ITS DETAIL

PROJECT
SHEET NO. ITSDT-01

22898_ITSDT-01.dgn
11/19/2025

ITS GENERAL NOTES:

1. CONDUIT PATHS SHOWN ON PLANS ARE SCHEMATIC. TRENCH AND BORE PARALLEL CONDUIT RUNS TOGETHER. FIELD LOCATE ALL NEW CONDUIT, EXISTING CONDUIT, JUNCTION BOXES AND UTILITIES BEFORE CONSTRUCTING. COORDINATE LOCATIONS AND CHANGES WITH ENGINEER TO OBTAIN APPROVAL.
2. CONDUIT PATHS ON PLANS MAY BE ADJUSTED BY DEVIATION PROCESS TO ELIMINATE IMPACTS TO OTHER UTILITIES. ADJUST ITS CONDUIT LOCATION AND ELEVATION TO AVOID DRAINAGE AND UTILITY CONFLICTS.
3. CONTACT BLUE STAKES UTILITY NOTIFICATION CENTER AT 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO EXCAVATION ACTIVITIES.
4. EXERCISE ALL APPROPRIATE SAFETY MEASURES WHEN WORKING IN OR AROUND AREAS OF OVERHEAD ELECTRICAL TRANSMISSION LINES OR UNDERGROUND UTILITIES.
5. MAINTAIN A MINIMUM OF 5-FT CLEARANCE - HIGH PRESURE GAS, 2.5-FT CLEARANCE - OTHER GAS LINES, 1-FT CLEARANCE ALL OTHER UTILITIES.
6. PRIOR TO BIDDING, INSPECT THE PROJECT SITE AND SUBSURFACE CONDITIONS. FIELD VERIFY CONDUIT, CABLING, AND SMFO QUANTITIES BEFORE BIDDING AND ORDERING.
7. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL OTHER CONTRACTOR PLANS AND COORDINATING WITH OTHER TRADES ON ITEM / EQUIPMENT LOCATIONS AND UTILITIES PRIOR TO INSTALLATION.
8. REQUEST PROJECT SPLICE PLANS THROUGH THE ENGINEER. SPLICE PLANS WILL INCLUDE SPLICE DETAILS AND DEVICE ASSIGNMENT TO FIBER CHANNELS. REQUEST THE SPLICE PLANS AT LEAST 30 BUSINESS DAYS PRIOR TO THE DESIRED START OF SPLICING AND TERMINATION.
9. CONTACT CHRIS SMITH (801-887-3725) A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE OF ANY TESTING REQUIRED TO BE WITNESSED BY THE DEPARTMENT FIBER TECHNICIAN.
10. BORE UNDER ALL EXISTING PAVEMENT OR AS DIRECTED IN THE PLANS. TRENCHING IS ALLOWED IN UNPAVED OR PAVEMENT RECONSTRUCT AREAS ONLY.
11. FOLLOW THE PROCEDURES IN SECTION 13595 FOR THE TESTING AND ACCEPTANCE OF ITS SYSTEMS.
12. ALL ITS IMPROVEMENTS ARE TO BE CONSTRUCTED ACCORDING TO THE MOST CURRENT UDOT STANDARD DRAWINGS AND SPECIFICATIONS.
13. PROVIDE THE APPROPRIATE CABLE SLACK IN JUNCTION BOXES ACCORDING TO SECTION 13594 OF THE UDOT STANDARD SPECIFICATIONS.
14. INSTALL ALL JUNCTION BOXES TO FINISHED GRADE. DO NOT INSTALL CABINET OR JUNCTION BOXES IN DITCHES. RESET EXISTING JUNCTION BOXES, INCLUDING NEW CONCRETE COLLAR AS REQUIRED TO FINISHED GRADE. DO NOT BURY ANY JUNCTION BOXES STILL IN USE, REMOVE ALL OTHERS.
15. SEAL ALL CONDUIT CONNECTIONS TO CONDUIT, JUNCTIONS BOXES, VAULTS, AND CABINETS AS DESCRIBED IN SECTION 13553 OF THE UDOT STANDARD SPECIFICATIONS. CONDUIT STUBS FOR FUTURE CONNECTIONS TO BE SEALED ON JUNCTION BOX END AND LOOSE END. USE TEMPORARY SEALS AS NEEDED DURING CONSTRUCTION TO PREVENT CONDUIT FROM BEING FLOODED.
16. MAINTAIN OPERATION OF UDOT AND 3RD PARTY FIBER SYSTEMS DURING CONSTRUCTION. REFER TO PROJECT SPECIAL PROVISION 555 FOR COMMUNICATION SWITCHOVER EVENTS.
17. REPRESENTATIVES FROM 3RD PARTIES REQUIRED ON SITE ANYTIME CONNECTIONS ARE MADE TO EXISTING 3RD PARTIES' CONDUIT AND JUNCTION BOXES.

    SCHEDULE ACTIVITIES WITH 3RD PARTIES WITH 20 DAYS LEAD TIME.
18. CONDUIT AND JUNCTION BOXES WILL BE PICKED UP AT DIFFERENT LOCATIONS BASED ON THE PROJECT SEGMENT: FROM HEBER TO FRUITLAND, MATERIALS WILL BE PICKED UP AT THE HEBER SHED; FROM FRUITLAND TO EAST OF ROOSEVELT, THEY WILL BE PICKED UP AT THE DUCHESNE SHED; AND FROM EAST OF ROOSEVELT TO THE STATE LINE, PICKUP WILL BE AT THE VERNAL SHED. ALL FIBER FOR THE PROJECT IS TO BE PICKED UP IN SALT LAKE CITY (SLC).

ITS CONSTRUCTION NOTES:

1. PROTECT IN PLACE
2. FIBER OPTIC CABLE SPLICE ENCLOSURE REQ'D
3. SPLICE WITHIN EXISTING SPLICE ENCLOSURE
4. FUSION SPLICE REQ'D
5. PROVIDE 100 FT OF CABLE SLACK FOR RING CUTS AND 50 FT OF CABLE SLACK FOR CABLE ENDS, PLUS ADDITIONAL 7 FT ON ALL CABLES INSIDE OF SPLICE ENCLOSURE FOR SPLICING PURPOSES.
6. PROVIDE 100 FT OF CABLE SLACK IN JUNCTION BOX
7. PROVIDE 65 FT OF DROP CABLE SLACK IN JUNCTION BOX FOR SPLICING PURPOSES
8. PROVIDE 15 FT OF DROP CABLE SLACK FOR DEVICE CABINET PURPOSES. EXCESS CABLE SLACK IS TO BE STORED IN NEAREST JUNCTION BOX AND IS IN ADDITION TO ALL OTHER SPECIFIED SLACK.
9. INSTALL SMFO CABLE WITHIN BLUE CONDUIT OR BLUE MICRODUCT
10. INSTALL LOCATE WIRE IN SAME CONDUIT AS SMFO CABLE OR MICRODUCTS
11. DIRECTIONAL BORE REQ'D
12. PLOW OR TRENCH OUTSIDE OF ROADWAY REQ'D
13. PROOF EXISTING CONDUIT REQ'D
14. INSTALL STATE FURNISHED CONDUIT REQ'D
15. TAL2 CONDUIT
16. INTERCEPT, RE-ROUTE AND COUPLE EXISTING CONDUIT REQ'D
17. INSTALL STATE FURNISHED JUNCTION BOX REQ'D
18. BUILDING ENTRANCE REQ'D
19. INSTALL WIFI HOTSPOT REQ'D
20. 1D CONDUIT
21. 1/2D CONDUIT
22. INSTALL CONDUIT INTO EXISTING JUNCTION BOX.
23. BRIDGE ATTACHED CONDUIT REQ'D. REFER TO STRUCTURE DESIGN.
24. DIRECTIONAL BORE CONDUIT UNDER WATERWAY REQ'D

CONT. ITS GENERAL NOTES:

19. PROTECT IN PLACE ALL UTILITIES AND CULVERTS, IF THAT IS NOT POSSIBLE CONTACT THE RESIDENT ENGINEER (JEFF TOONE AT 801-897-1869 OR jefftoone@utah.gov) .

ITS WIRE SCHEDULE SUMMARY

NO.	DESCRIPTION
1	INSTALL STATE FURNISHED 144 STRAND SMFO CABLE REQ'D
2	6 STRAND PRE-TERMINATED DROP CABLE UNIT REQ'D
3	#14 AWG SOLID/INSULATED LOCATE WIRE REQ'D
4	EXISTING SMFO CABLE
5	ETHERNET CABLE CAT6, REQ'D
6	24 STRAND PRE-TERMINATED DROP CABLE UNIT REQ'D

REVISIONS

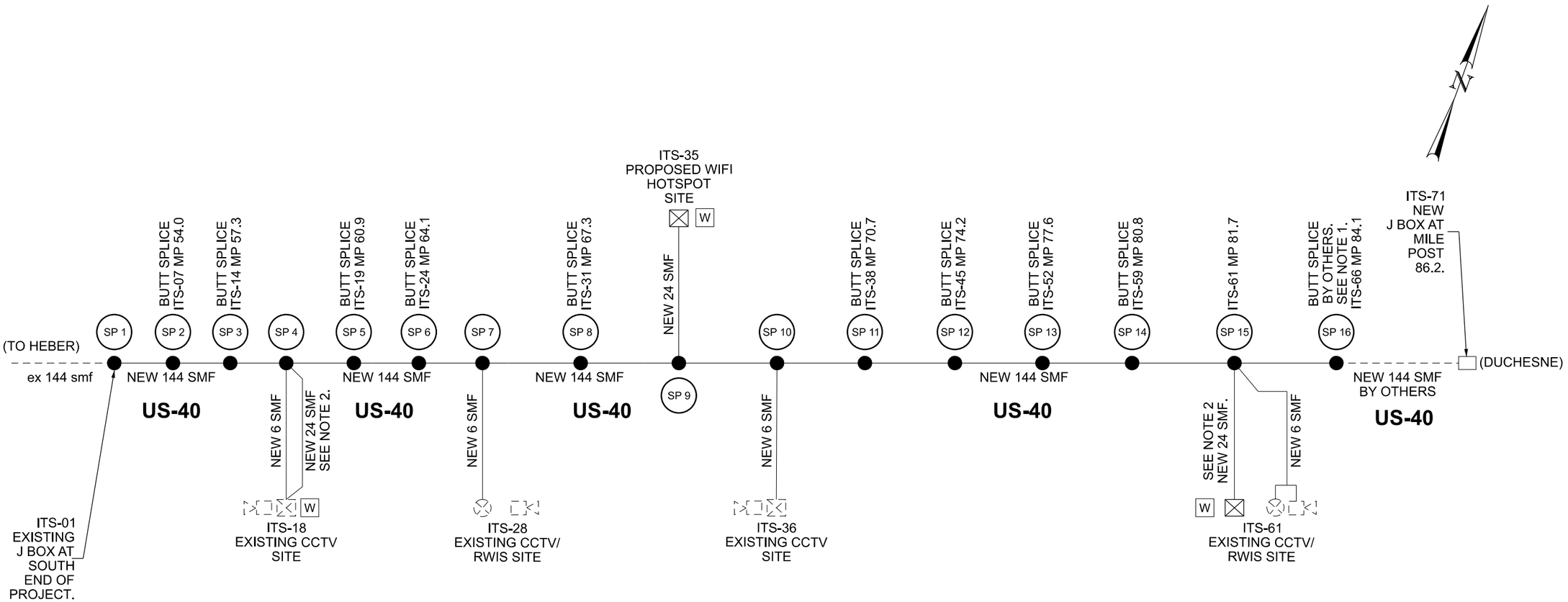
NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG
12/1/25
DATE
APPROVED
PROFESSIONAL ENGINEER

PROJECT: JURASSIC US-40 FIBER OPTICS - SEGMENT B
PIN 22898
PROJECT NUMBER F-0040(249)51
ITS DETAIL
SHEET NO. ITSDT-02

22898_ITSDT-02.dgn
11/26/2025



NOTES:

1. SPLICING AT EAST END OF PROJECT TO BE PERFORMED BY OTHERS, PROJECT 22899_JURASSIC_US-40_FIBER_OPTICS_SEGMENT_C.
2. SEE 22900_JURASSIC_US-40_FIBER_OPTICS - SEGMENT_D FOR DETAILS ON PROPOSED WIFI HOTSPOT SITE USING DEDICATED 24-SMF DROP.

LEGEND:

- PROPOSED FIBER
- EXISTING FIBER
- PROPOSED SPLICE POINT
- EXISTING RWIS SITE
- D — EXISTING TMS
- W — PROPOSED WIFI HOTSPOT
- EXISTING CABINET
- EXISTING CCTV CAMERA
- EXISTING JUNCTION BOX
- PROPOSED JUNCTION BOX
- PROPOSED CABINET

ITS COMMUNICATION SYSTEM DIAGRAM

NOT TO SCALE

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

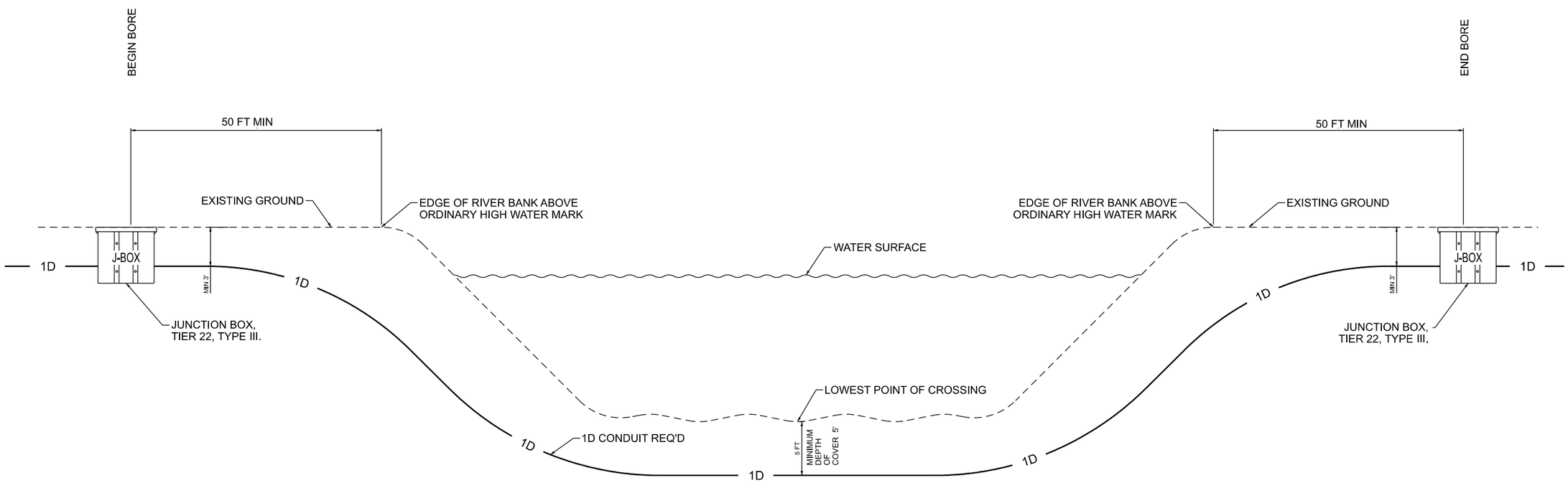
UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG
DATE 12/1/25
APPROVED
PROFESSIONAL ENGINEER

PROJECT: JURASSIC US-40 FIBER OPTICS - SEGMENT B
PROJECT NUMBER: F-0040(249)51
PIN 22898
ITS DETAIL

SHEET NO. ITSDT-03

22898_ITSDT-03.dgn
11/19/2025



NOTES:

1. BORE CONDUITS UNDER CURRANT CREEK, RED CREEK & STRAWBERRY RIVER. MAINTAIN MINIMUM 5' DEPTH OF COVER BETWEEN CONDUIT AND BOTTOM OF RIVER.

DIRECTIONAL BORING UNDER CURRANT CREEK, RED CREEK & STRAWBERRY RIVER DETAIL

US-40

STA. 388+50, 757+00, 1851+00.

REVISIONS

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UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

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PROJECT: JURASSIC US-40 FIBER OPTICS - SEGMENT B
PROJECT NUMBER: F-0040(249)51 PIN 22898
ITS DETAIL

SHEET NO. ITSDT-04

22898_ITSDT-04.dgn
11/19/2025

US-40 JUNCTION BOX LOCATION SUMMARY

STATION	OFFSET	SHEET	INSTALL STATE FURNISHED JUNCTION BOX, TYPE III
18+51.43	38.34' LT	ITS-01	1
35+06.55	38.70' LT	ITS-02	1
52+77.22	37.66' LT	ITS-03	1
69+81.13	36.24' LT	ITS-03	1
86+77.44	36.24' LT	ITS-04	1
102+44.71	36.24' LT	ITS-04	1
119+93.95	36.24' LT	ITS-05	1
137+53.41	36.24' LT	ITS-06	1
154+80.59	41.08' LT	ITS-06	1
170+53.94	37.62' LT	ITS-07	1
187+70.13	45.31' LT	ITS-08	1
204+98.72	36.24' LT	ITS-08	1
222+84.26	36.24' LT	ITS-09	1
240+88.25	36.24' LT	ITS-10	1
258+86.83	36.24' LT	ITS-11	1
276+24.58	36.24' LT	ITS-11	1
293+82.30	76.58' LT	ITS-12	1
312+18.07	36.24' LT	ITS-13	1
328+82.74	36.24' LT	ITS-13	1
346+83.56	36.24' LT	ITS-14	1
364+65.47	36.67' LT	ITS-15	1
382+54.20	40.96' LT	ITS-16	1
392+50.19	58.71' LT	ITS-16	1
400+27.75	49.16' LT	ITS-16	1
418+00.00	36.24' LT	ITS-17	1
436+11.36	36.24' LT	ITS-18	1
613+67.40	36.24' LT	ITS-20	1
631+03.24	36.24' LT	ITS-21	1
648+92.78	36.21' LT	ITS-22	1
666+56.94	36.21' LT	ITS-22	1
684+15.49	42.13' LT	ITS-23	1
702+27.66	49.94' LT	ITS-24	1
720+17.85	45.78' LT	ITS-24	1
738+14.01	42.03' LT	ITS-25	1
755+52.55	41.41' LT	ITS-26	1
758+90.39	35.88' LT	ITS-26	1
758+91.32	37.23' RT	ITS-26	1
772+90.63	51.17' RT	ITS-27	1
790+43.31	33.53' RT	ITS-27	1
805+99.48	45.02' RT	ITS-28	1
805+99.48	35.88' LT	ITS-28	1
823+24.47	35.88' LT	ITS-29	1
835+81.52	35.88' LT	ITS-29	1
852+89.67	35.88' LT	ITS-30	1
870+68.00	35.88' LT	ITS-31	1
888+52.09	35.88' LT	ITS-31	1
904+75.31	48.16' LT	ITS-32	1
926+94.99	50.83' LT	ITS-33	1
939+87.07	35.88' LT	ITS-33	1
957+35.78	35.88' LT	ITS-34	1
977+44.25	60.90' LT	ITS-35	1
990+80.61	35.88' LT	ITS-36	1
1008+41.58	35.86' LT	ITS-36	1

US-40 JUNCTION BOX LOCATION SUMMARY (CONT.)

STATION	OFFSET	SHEET	INSTALL STATE FURNISHED JUNCTION BOX, TYPE III
1026+28.13	35.88' LT	ITS-37	1
1044+16.70	35.88' LT	ITS-38	1
1053+36.61	35.88' LT	ITS-38	1
1065+57.79	42.27' LT	ITS-39	1
1079+79.13	35.88' LT	ITS-39	1
1093+95.22	35.88' LT	ITS-40	1
1103+74.82	35.88' LT	ITS-40	1
1114+48.78	35.88' LT	ITS-41	1
1133+11.34	35.88' LT	ITS-41	1
1150+69.25	35.88' LT	ITS-42	1
1168+71.39	41.04' LT	ITS-43	1
1186+64.65	42.91' LT	ITS-43	1
1204+58.72	42.91' LT	ITS-44	1
1220+63.76	42.91' LT	ITS-45	1
1238+21.92	42.91' LT	ITS-45	1
1245+59.35	42.91' LT	ITS-46	1
1258+13.98	42.91' LT	ITS-46	1
1276+03.35	42.91' LT	ITS-47	1
1293+65.92	43.23' LT	ITS-47	1
1311+43.04	42.87' LT	ITS-48	1
1329+24.64	42.07' LT	ITS-49	1
1346+54.57	42.75' LT	ITS-49	1
1364+80.20	43.22' LT	ITS-50	1
1382+32.92	43.23' LT	ITS-51	1
1400+34.88	43.24' LT	ITS-52	1
1418+59.60	43.13' LT	ITS-52	1
1436+26.00	43.68' LT	ITS-53	1
1453+59.10	50.43' LT	ITS-54	1
1471+73.60	50.60' LT	ITS-54	1
1489+44.90	43.93' LT	ITS-55	1
1507+27.90	41.08' LT	ITS-56	1
1519+76.05	41.49' LT	ITS-56	1
1532+09.52	41.97' LT	ITS-57	1
1550+41.09	41.63' LT	ITS-57	1
1566+95.97	42.40' LT	ITS-58	1
1584+46.08	43.57' LT	ITS-59	1
1607+94.56	50.22' LT	ITS 60	1
1626+59.98	57.79' LT	ITS-61	1
1637+43.99	47.54' LT	ITS-62	1
1653+49.93	44.81' LT	ITS-62	1
1663+67.56	44.81' LT	ITS-63	1
1681+71.32	44.80' LT	ITS-63	1
1693+98.77	44.80' LT	ITS-64	1
1711+26.03	44.81' LT	ITS-64	1
1721+97.98	44.94' LT	ITS-65	1
1739+92.90	44.80' LT	ITS-66	1
1757+49.39	44.80' LT	ITS-66	1
1775+39.20	44.80' LT	ITS-67	1
1787+63.89	52.26' LT	ITS-67	1
1805+00.98	44.81' LT	ITS-68	1
1823+40.48	44.80' LT	ITS-69	1
1836+71.46	50.29' LT	ITS-69	1
1848+44.54	44.81' LT	ITS-70	1
1852+30.46	44.81' LT	ITS-70	1
1863+03.53	48.99' LT	ITS-70	1
1871+98.51	44.27' LT	ITS-71	1

US-40 JUNCTION BOX LOCATION SUMMARY

STATION	OFFSET	SHEET	INSTALL STATE FURNISHED JUNCTION BOX, TYPE II
436+14.31	53.97' RT	ITS-18	1
977+59.79	492.56' LT	ITS-35	1
1008+41.46	63.49' RT	ITS-36	1
1626+59.98	33.62' RT	ITS-61	1
1627+87.35	127.89' RT	ITS-61	1

NOTES:

1. REFER TO ITS-S2 AND ITS-S3 FOR JUNCTION BOX QUANTITIES.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG
12/1/25
DATE
APPROVED
PROFESSIONAL ENGINEER

PROJECT: JURASSIC US-40 FIBER OPTICS - SEGMENT B
PROJECT NUMBER: F-0040(249)51 PIN 22898
JUNCTION BOX SUMMARY

SHEET NO. ITSDT-05

22898_ITSDT-05.dgn
11/19/2025

PINION RIDGE REST AREA BUILDING ENTRANCE
WIFI HOTSPOT DETAIL
NTS

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG

APPROVED
PROFESSIONAL ENGINEER
12/1/25
DATE

PROJECT: JURASSIC US-40 FIBER OPTICS - SEGMENT B
PROJECT NUMBER: F-0040(249)51 PIN 22898
ITS DETAIL

SHEET NO. ITSDT-06

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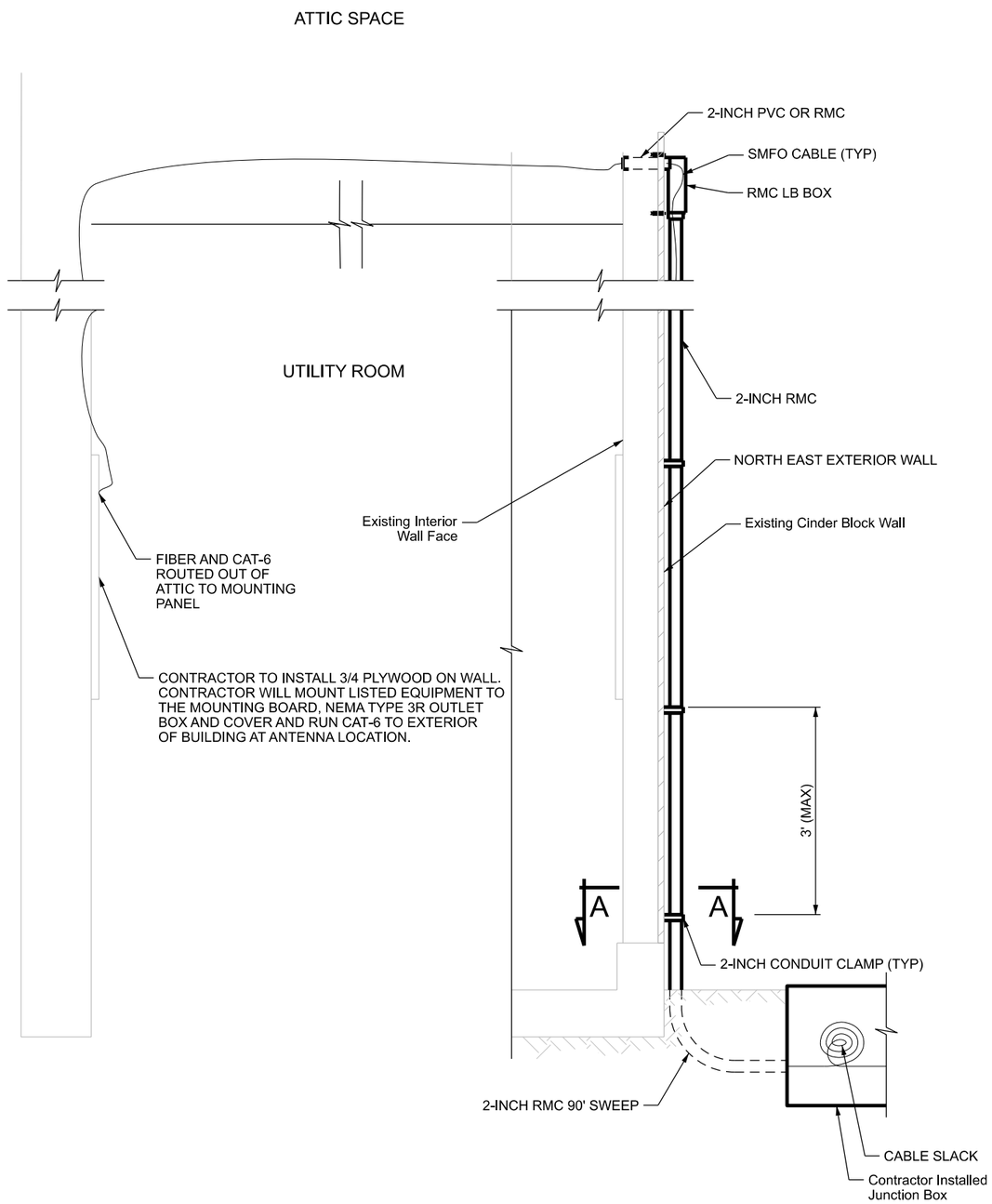
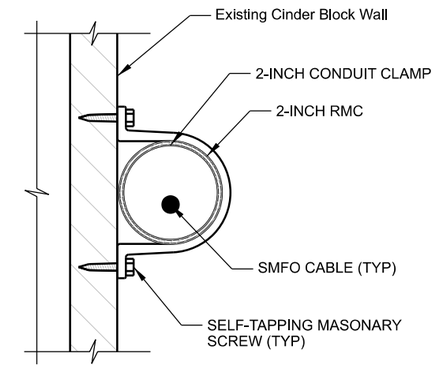
11/19/2025



PINION RIDGE REST AREA BUILDING ENTRANCE WIFI HOTSPOT DETAIL

NTS



SECTION A-A

NTS

NOTES:

1. 36" MIN BEND RADIUS FOR ALL CONDUIT.
2. PROTECT BURIED PORTIONS OF RMC CONDUIT USING APPROVED CORROSION PROTECTION METHODS.
3. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
4. OBTAIN ENGINEER APPROVAL FOR ANY DEVIATIONS PROPOSED BY CONTRACTOR.
5. SEAL HOLE AROUND CONDUIT ENTERING BUILDING USING APPROVED WEATHER-PROOFING METHODS.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG
12/1/25
DATE
APPROVED
PROFESSIONAL ENGINEER

PROJECT: JURASSIC US-40 FIBER OPTICS - SEGMENT B
PIN 22898
PROJECT NUMBER F-0040(249)51
ITS DETAIL

SHEET NO. ITSDT-07

22898_ITSDT-07.dgn
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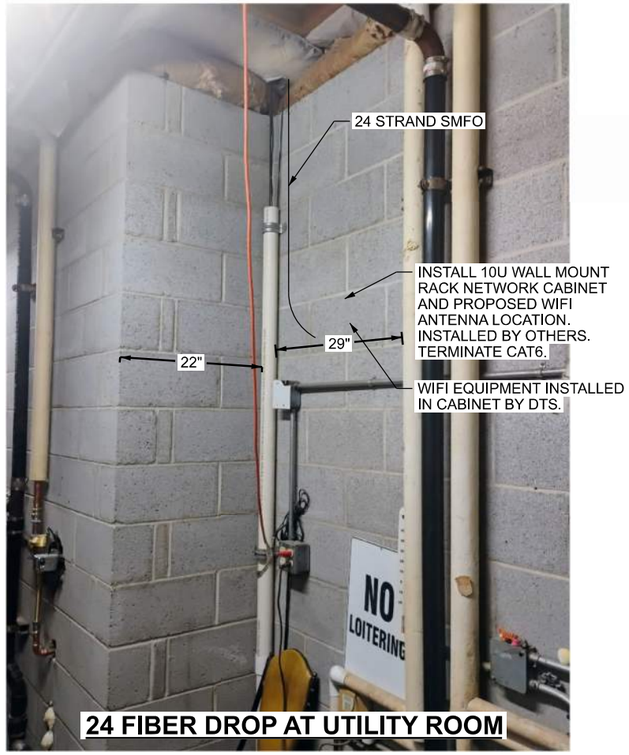
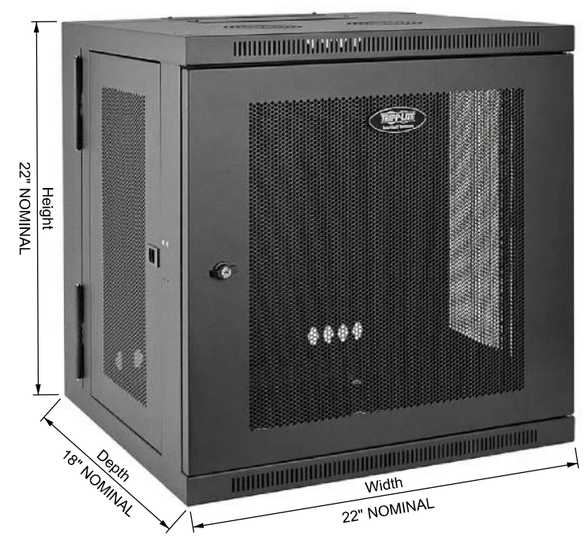
FRONT ENTRANCE

SOUTH CORNER

LOBBY



24 FIBER DROP AT UTILITY ROOM



CABINET EXAMPLE
10U Wall-Mount Rack Network Cabinet

PINION RIDGE REST AREA WIFI HOTSPOT DETAIL

NTS

REVISIONS				
NO.	DATE	APPROVED BY		REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG
12/1/25
DATE

APPROVED

PROFESSIONAL ENGINEER

JURASSIC US-40 FIBER OPTICS
- SEGMENT B

PIN 22898

PROJECT
F-0040(249)51

PROJECT NUMBER

ITS DETAIL

SHEET NO. ITSDT-08

22898.ITSDT-08.dgn
11/19/2025

UDOT ROADWAY SEED SCHEDULE - ANNUAL AVERAGE PRECIPITATION RATE OF 8-12"

GRASS OR FORB	SPECIES NAME		Number of Seeds per Pound (LBS)	DRILL SEED			BROADCAST SEED		
	BOTANICAL NAME	COMMON NAME		Pounds (LBS) of Pure Live Seed (PLS)/Acre	Percentage of Seed mixture	Number of Seeds (PLS/Sq. Foot)	Pounds (LBS) of Pure Live Seed (PLS)/Acre	Percentage of Seed mixture	Number of Seeds (PLS/Sq. Foot)
	Grass Species								
G	*Achnatherum hymenoides*	Indian ricegrass	141,000	2.10	9.27%	7	3.15	9.27%	10
G	*Bouteloua curtipendula*	Sideoats grama	191,000	1.00	5.98%	4	1.50	5.98%	7
G	*Bouteloua gracilis*	Blue grama	825,000	0.30	7.75%	6	0.45	7.75%	9
G	*Elymus elymoides*	Bottlebrush squirreltail	192,000	1.50	9.01%	7	2.25	9.01%	10
G	*Elymus trachycaulus ssp. trachycaulus*	Slender wheatgrass	159,000	2.40	11.94%	9	3.60	11.94%	13
G	*Elymus wawaaiensis*	Snake River wheatgrass	120,000	2.50	9.39%	7	3.75	9.39%	10
G	*Pleuraphis jamesii*	Galleta grass	159,000	2.00	9.95%	7	3.00	9.95%	11
G	*Sporobolus airoides*	Alkali sacaton	1,758,000	0.15	8.25%	6	0.23	8.25%	9
G	*Sporobolus cryptandrus*	Sand dropseed	5,298,000	0.05	8.29%	6	0.08	8.29%	9
				12.00	79.84%	59	18.00	79.84%	88
	Forb Species								
F	*Penstemon palmeri*	Palmer Penstemon	610,000	0.40	7.64%	6	0.60	7.64%	8
F	*Oenothera speciosa*	Showy Evening primrose	2,500,000	0.10	7.83%	6	0.15	7.83%	9
F	*Sphaeralcea ambigua*	Desert globemallow	500,000	0.30	4.70%	3	0.45	4.70%	5
				0.80	20.16%	15	1.20	20.16%	22
			TOTALS =	**12.80**	**100.00%**	**73**	**19.20**	**100.00%**	**110**

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
AVENUE CONSULTANTS

DRAWN BY DAG
QC CHECKED BY MGG
DATE 12/1/25
APPROVED
PROFESSIONAL ENGINEER

PROJECT: JURASSIC US-40 FIBER OPTICS - SEGMENT B
PROJECT NUMBER: F-0040(249)51 PIN 22898
SEED SCHEDULE

SHEET NO. ITSDT-09

22898_ITSDT-09.dgn
12/3/2025