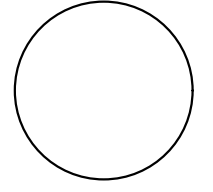


PROJECT LOCATION

PROJECT LOCATION:
 32264 PIKES PEAK ROAD
 MCGREGOR, IA 52157-8558
 COORDINATES: 42°59'41.30"N (42.99481°), 91°09'57.41"W (91.165947°)

CONSULTANT:



IOWA DEPARTMENT OF
 NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



VICINITY MAPS

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
 UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER:
 21-03-22-01

CHK'D BY: DATE:
 5/01/2021

SHEET No:
2

ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY	NON-P&I	P&I
1	CLEARING AND GRUBBING	LS	1	0	1
2	TREE CLEARING/STUMP GRINDING	LS	1	0	1
3	FULL DEPTH SAW CUT	LF	325	0	325
4	HMA PAVEMENT REMOVAL	SY	12,800	0	12,800
5	PCC REMOVAL	SY	529.4	0	529.4
6	GRADING	LS	1	0	1
7	12-INCH FILTER SOCK	LF	3,160	0	3,160
8	SANITARY SEWER CONNECTIONS TO EXISTING MANHOLE	EA	2	2	0
9	TYPE SW-301 48" DIAMETER SANITARY MANHOLE W/TYPE 'A' CASTING	EA	1	1	0
10	6-INCH SANITARY SEWER (PVC SDR 23.5)	LF	228	228	0
11	4-INCH SANITARY SEWER SERVICE (PVC SDR 23.5)	LF	242	242	0
12	DISPOSAL STATION RV CLEANOUT CONNECTION	EA	2	2	0
13	RV SANITARY SEWER CLEANOUT CONNECTION	EA	6	6	0
14	6"x4" PVC SCHEDULE 40 SERVICE WYE	EA	6	6	0
15	2"x2"x2"x2" HDPE CROSS	EA	1	1	0
16	1-INCH HDPE PIPE	LF	1,128	1,128	0
17	2-INCH HDPE PIPE	LF	1,195	1,195	0
18	2-INCH VALVE	EA	3	3	0
19	WOODFORD MODEL S-3 SANITARY YARD HYDRANT W/DRAIN DOWN PIT (OR APPROVED EQUAL)	EA	16	16	0
20	WOODFORD MODEL S-3 SANITARY YARD HYDRANT W/O DRAIN DOWN PIT (OR APPROVED EQUAL)	EA	2	2	0
21	WOODFORD MODEL S-4H SANITARY YARD HYDRANT W/DRAIN DOWN PIT (OR APPROVED EQUAL)	EA	2	2	0
22	WOODFORD MODEL S-4H SANITARY YARD HYDRANT W/O DRAIN DOWN PIT (OR APPROVED EQUAL)	EA	2	2	0
23	1"x1"x1" HDPE TEE	EA	2	2	0
24	2"x2"x1" HDPE TEE	EA	14	14	0
25	2"x2"x2" HDPE TEE	EA	3	3	0
26	2"x1" HDPE REDUCER	EA	5	5	0
27	WELLXTRDL MODEL WX-452C PRESSURE TANK (OR APPROVED EQUAL)	EA	2	2	0
28	PRESSURE TANK INSTALLATION AND REMOVAL OF 2 OLD TANKS	EA	1	1	0
29	WATER CONNECTION	EA	2	2	0
30	DISINFECTION	LS	1	1	0
31	TYPE SW-512 CIRCULAR AREA INTAKE W/SW-604 TYPE 3A CASTING	EA	8	0	8
32	TYPE SW-513 OPEN SIDED INTAKE W/SW-602 TYPE G CASTING	EA	4	0	4
33	12-INCH RCP CLASS III	LF	505.7	0	505.7
34	15-INCH RCP CLASS III	LF	415.4	0	415.4
35	12-INCH RCP CLASS III FES	EA	1	0	1
36	15-INCH RCP CLASS III FES	EA	1	0	1
37	CLASS 'D' RIPRAP	TONS	100	0	100

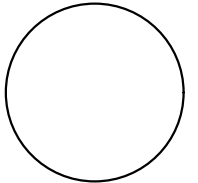
GENERAL NOTES

- TWO WEEKS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY:
 - IOWA DNR PROJECT MANAGER: BRETT JOHNSON 515-250-3711 (BUS CELL); 515-778-6877 (PERSONAL CELL, SEE NOTE)
NOTE: BUSINESS CELL WILL BE UNAVAILABLE 1/26/22-2/16/22, CALL PERSONAL CELL WITH ANY QUESTIONS.
 - DISTRICT INSPECTOR: MELVIN PACOVSKY 319-240-3553
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATEWIDE URBAN STANDARD DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS). ALL CONSTRUCTION TESTING TO BE IN ACCORDANCE WITH SUDAS AND IS THE EXPENSE OF THE CONTRACTORS.
- THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ABOVE MENTIONED CONTACTS OF ANY DISCREPANCIES.
- THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING FACILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND LOCATION OF THEIR FACILITIES BEFORE BEGINNING WORK.
- THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCE, OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED.
- CONTRACTOR TO PROTECT ALL UTILITY, PAVING, BUILDINGS, ETC. OUTSIDE OF LIMITS OF PROPOSED CONSTRUCTION.
- IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE QUANTITIES AND THE PLANS, THE DETAILED PLANS SHALL GOVERN.
- MAINTAIN ALL CUT AND FILL AREAS TO ACCOMMODATE SURFACE DRAINAGE.
- FINISHED GRADE ON ALL AREAS SHALL BE WITHIN 0.20 FOOT OF PLAN GRADE.
- TOPSOIL SHALL BE SPREAD TO A MINIMUM THICKNESS OF 4-INCHES ON ALL DISTURBED UNPAVED AREAS ADJACENT TO PAVEMENT.
- BACKFILL TO THE TOP OF ALL ROCK AND PAVEMENT SURFACES.
- ALL ELEVATIONS ARE TO FINISH GRADE.
- PROTECT ALL EXISTING TREES AND VEGETATION UNLESS OTHERWISE NOTED.
- AN NPDES GENERAL PERMIT #2 WILL BE REQUIRED AS THE PROJECT IS DISTURBING 9.5 ACRES.
- EARTHWORK QUANTITY IS ROUGHLY 8,000 CY, AND IS ROUGHLY BALANCED.
- CONTRACTOR SHALL HYDRAULICALLY SEED ALL DISTURBED AREAS (APPROXIMATELY 5.0 ACRES). USE TYPE 1 (PERMANENT LAWN MIXTURE) SEED MIX AROUND THE SHOWER BUILDING, AND ALONG ROADWAYS (APPROXIMATELY 1.0 ACRE). USE TYPE 3 (PERMANENT WARM-SEASON SLOPE AND DITCH MIXTURE) IN ALL OTHER AREAS INCLUDING ALL 3:1 SLOPES (APPROXIMATELY 4.0 ACRES) IN ACCORDANCE WITH SUDAS SECTION 9010.
- AN ARCHEOLOGICAL INSPECTION OF THE PARKING LOT AREA NEEDS TO OCCUR DURING AND AFTER THE PAVEMENT REMOVAL TO LOOK FOR ANY POTENTIAL CULTURAL DEPOSITS. A MONITOR WILL BE ON SITE WHEN THE EXISTING PARKING LOT AREA IS REMOVED DURING THE DEMOLITION PHASE TO INVESTIGATE THE SITE FOR ANY EVIDENCE OF POTENTIAL ARCHEOLOGICAL ITEMS. COORDINATE THIS ACTIVITY WITH THE DNR INSPECTOR. IF THE CONTRACTOR OR MONITOR UNCOVERS ANY ARCHEOLOGICAL ITEMS DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP WORK IN THAT AREA IMMEDIATELY AND NOTIFY THE DNR INSPECTOR SO THAT HE CAN CONTACT THE APPROPRIATE AGENCY FOR AN ARCHEOLOGICAL INSPECTION OF THE AREA. IF THIS WERE TO OCCUR THE AREA IN QUESTION MAY BE SHUT DOWN FOR A WEEK OR SO UNTIL THE INSPECTION IS COMPLETE. THE CONTRACTOR NEEDS TO LET THE DNR INSPECTOR KNOW 30 DAYS IN ADVANCE FOR WHEN THE PARKING LOT AREA IS GOING TO BE REMOVED FOR THE PURPOSE OF SCHEDULING THE MONITOR TO BE PRESENT.
- THE 7-INCH NYLON REINFORCED PCC HAS 5 LBS (MINIMUM) OF MACRO-SYNTHETIC FIBER PER CUBIC YARD IN THE MIX. THE CONTRACTOR MAY WANT TO DO A TEST POUR TO ENSURE FIBERS ARE PROPERLY MIXED AND NO 'BALLING' OF FIBERS OCCUR.
- A FIBER OPTIC COMMUNICATION LINE NEEDS TO BE INSTALLED TO THE CHECK-IN KIOSK PRIOR TO THE PAVEMENT CONSTRUCTION. CONTRACTOR TO COORDINATE THIS FIBER OPTIC LINE CONSTRUCTION WITH ALPINE COMMUNICATIONS LOCATED IN ELKADER, IA PHONE: 563-245-4000.
- TOTAL COST ESTIMATE FOR THE FUNDING OF THE PROJECT IS \$1,827,200.70 OF WHICH \$739,122.70 IS NON-P&I ITEMS AND \$1,088,078.00 IS P&I ITEMS.

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
1	CLEARING AND GRUBBING - CONTRACTOR TO CLEAR AND GRUB THE PROJECT SITE CONSISTING OF, BUT NOT LIMITED TO: OUTLET POSTS (SALVAGE AND GIVE TO INSPECTOR/PARK STAFF), CAMPPAD GRAVEL, CAMPPAD TIMBER RETAINING WALLS, FIRE RINGS, EXISTING SIGNAGE, CULVERT, AS DETAILED ON SHEETS #6-12.
2	TREE CLEARING/STUMP GRINDING - CONTRACTOR TO CLEAR APPROXIMATELY 222 INDIVIDUAL TREE STUMPS AND BRUSH PILES ALONG WITH ALL ADDITIONAL TREES DESIGNATED ON SHEETS #6-12, INSPECTOR MAY REQUIRE ADDITIONAL TREES REMOVED IF THEY ARE IN CONFLICT WITH CONSTRUCTION ACTIVITIES.
3	FULL DEPTH SAW CUT - CONTRACTOR SHALL SAW CUT EXISTING PAVEMENTS FULL DEPTH IN THE LOCATIONS SHOWN ON SHEETS #6-12.
4	HMA REMOVAL - CONTRACTOR SHALL REMOVE THE EXISTING HMA CAMPGROUND ROADS AS DETAILED ON SHEETS #6-12. THE SURFACE HMA ROADS ARE ASSUMED TO BE AN AVERAGE OF 5-INCHES OF THICKNESS (2,557 TONS) AND THE ORIGINAL ENTRANCE ROAD WHICH IS UNDER THE EXISTING ROAD MAY YIELD APPROXIMATELY 680 TONS. MAY USE CRUSHED HMA AS SPECIAL BACKFILL.
5	PCC REMOVAL - CONTRACTOR SHALL REMOVE THE EXISTING PCC AS DETAILED ON SHEETS #6-12. CONTRACTOR CAN PLACE REMOVED PCC IN RIPRAP LOCATIONS AS DETAILED ON SHEETS #21 & 22. REMOVED PCC CANNOT HAVE ANY EXPOSED REBAR.
6	GRADING - CONTRACTOR SHALL GRADE THE SITE (APPROXIMATELY 8,000 CY) AS DETAILED ON SHEETS #37-45. TOPSOIL TO BE STRIPPED AND STOCKPILED AND RESPREAD TO A MINIMUM DEPTH OF 4-INCHES. EXISTING CAMP PAD GRAVEL MATERIAL CAN BE USED AS BASE FILL MATERIAL BELOW NEW CAMP PAD LOCATIONS AND IN DEEPER FILL LOCATIONS. ANY EXCESS CUT CAN BE WASTED OVER THE SITE AND IN DESIGNATED AREAS SHOWN ON THE PLANS AS DETAILED ON SHEETS #42 & 43.
7	12-INCH FILTER SOCK - CONTRACTOR TO INSTALL FILTER SOCK AS DETAILED ON SHEETS #37-45.
8	SANITARY SEWER CONNECTIONS TO EXISTING STRUCTURES - INSTALL SANITARY SEWER CONNECTIONS AS DETAILED ON SHEET #13.
9	TYPE SW-301 48" DIAMETER MANHOLE WITH TYPE 'A' CASTING - AS DETAILED ON SHEETS #13.
10	6-INCH SANITARY SEWER (PVC SDR 23.5) - INSTALL 6-INCH SANITARY SEWER WITH LOCATOR TAPE AS DETAILED ON SHEET #13.
11	4-INCH SANITARY SEWER SERVICE (PVC SDR 23.5) - INSTALL 4-INCH SANITARY SEWER SERVICE WITH LOCATOR TAPE AS DETAILED ON SHEET #13.
12	DISPOSAL STATION RV CLEANOUT CONNECTION - CONTRACTOR SHALL INSTALL DISPOSAL STATION RV CLEANOUT CONNECTION AS DETAILED ON SHEETS #13-14.
13	RV SANITARY SEWER CLEANOUT CONNECTION - CONTRACTOR SHALL INSTALL RV SANITARY SEWER CONNECTIONS FOR THE CAMPPADS AS DETAILED ON SHEETS #13-14.
14	6x4 PVC SCHEDULE 40 SERVICE WYE - CONTRACTOR SHALL INSTALL WYES AS SHOWN ON SHEETS #13-14.
15	2"x2"x2"x2" HDPE CROSS - CONTRACTOR SHALL INSTALL 2"x2"x2"x2" HDPE CROSS AS DETAILED ON SHEETS #17-19.
16	1-INCH HDPE PIPE - CONTRACTOR SHALL INSTALL 1-INCH HDPE WITH TRACER WIRE AS DETAILED ON SHEETS #17-19.
17	2-INCH HDPE PIPE - CONTRACTOR SHALL INSTALL 2-INCH HDPE WITH TRACER WIRE AS DETAILED ON SHEET #17-19.
18	2-INCH VALVE - CONTRACTOR SHALL INSTALL 2-INCH VALVE & CURB BOX (MUELLER #E-25142N OR SIMILAR) AS DETAILED ON SHEETS #17-19.
19	WOODFORD MODEL S-3 SANITARY YARD HYDRANT W/DRAIN DOWN PIT (OR APPROVED EQUAL) - CONTRACTOR TO INSTALL WOODFORD MODEL S-3 SANITARY YARD HYDRANT (INCLUDING CURB STOP, CONCRETE PAD, DRAIN ASSEMBLY, DRAIN PIT, ETC - SEE DETAIL ON SHEET #17) IN LOCATIONS SHOWN ON SHEETS #17-19.
20	WOODFORD MODEL S-3 SANITARY YARD HYDRANT W/O DRAIN DOWN PIT (OR APPROVED EQUAL) - CONTRACTOR TO INSTALL WOODFORD MODEL S-3 SANITARY YARD HYDRANT (INCLUDING CURB STOP AND BOX, ETC - SEE DETAIL ON SHEET #17) IN LOCATIONS SHOWN ON SHEETS #17-19.
21	WOODFORD MODEL S-4H ADA SANITARY YARD HYDRANT W/DRAIN DOWN PIT (OR APPROVED EQUAL) - CONTRACTOR TO INSTALL WOODFORD MODEL S-3 SANITARY YARD HYDRANT (INCLUDING CURB STOP, CONCRETE PAD, DRAIN ASSEMBLY, DRAIN PIT, ETC - SEE DETAIL ON SHEET #17) IN LOCATIONS SHOWN ON SHEETS #17-19.
22	WOODFORD MODEL S-4H ADA SANITARY YARD HYDRANT W/O DRAIN DOWN PIT (OR APPROVED EQUAL) - CONTRACTOR TO INSTALL WOODFORD MODEL S-3 SANITARY YARD HYDRANT (INCLUDING CURB STOP AND BOX, ETC - SEE DETAIL ON SHEET #17) IN LOCATIONS SHOWN ON SHEETS #17-19.
23	1"x1"x1" HDPE TEE - CONTRACTOR SHALL INSTALL 1"x1"x1" HDPE TEE AS DETAILED ON SHEETS #17-19.
24	2"x2"x1" HDPE TEE - CONTRACTOR SHALL INSTALL 2"x2"x1" HDPE TEE AS DETAILED ON SHEETS #17-19.
25	2"x2"x2" HDPE TEE - CONTRACTOR SHALL INSTALL 2"x2"x2" HDPE TEE AS DETAILED ON SHEETS #17-19.
26	2"x1" HDPE REDUCER - CONTRACTOR SHALL INSTALL 2"x1" HDPE REDUCER AS DETAILED ON SHEETS #17-19.
27	WELLXTRDL MODEL WX-452C PRESSURE TANK (OR APPROVED EQUAL) - CONTRACTOR SHALL INSTALL WELLXTRDL MODEL WX-452C PRESSURE TANK AS DETAILED ON SHEET #16.
28	PRESSURE TANK INSTALLATION AND REMOVAL OF 2 OLD TANKS - CONTRACTOR SHALL INSTALL AND REMOVE PRESSURE TANKS AS DETAILED ON SHEET #16.
29	WATER CONNECTION - CONTRACTOR TO CONNECT TO EXISTING WATER LINES AS DETAILED ON SHEETS #17-19.
30	DISINFECTION - COST OF DISINFECTION OF THE WATER LINES IN ACCORDANCE TO SUDAS.
31	TYPE SW-512 CIRCULAR AREA INTAKE W/SW-604 TYPE 3A CASTING - CONTRACTOR TO INSTALL TYPE SW-512 CIRCULAR AREA INTAKE W/SW-604 TYPE 3A CASTING AS SHOWN ON SHEET #21.
32	TYPE SW-513 OPEN SIDED AREA INTAKE W/SW-602 TYPE G CASTING - CONTRACTOR TO INSTALL TYPE SW-513 OPEN SIDED AREA INTAKE W/SW-602 TYPE G CASTING AS SHOWN ON SHEET #22.
33	12-INCH RCP CLASS III - CONTRACTOR TO INSTALL 12-INCH RCP CLASS III AS SHOWN ON SHEETS #20-22.
34	15-INCH RCP CLASS III - CONTRACTOR TO INSTALL 15-INCH RCP CLASS III AS SHOWN ON SHEETS #20-22.
35	12-INCH RCP CLASS III FES - CONTRACTOR TO INSTALL 12-INCH RCP CLASS III FES AS SHOWN ON SHEET #21.
36	15-INCH RCP CLASS III FES - CONTRACTOR TO INSTALL 15-INCH RCP CLASS III FES AS SHOWN ON SHEET #22.
37	CLASS 'D' RIPRAP - CONTRACTOR TO INSTALL CLASS 'D' RIPRAP IN AREAS SHOWN ON SHEETS #20-22.

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



QUANTITIES & GENERAL NOTES

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
21-03-22-01

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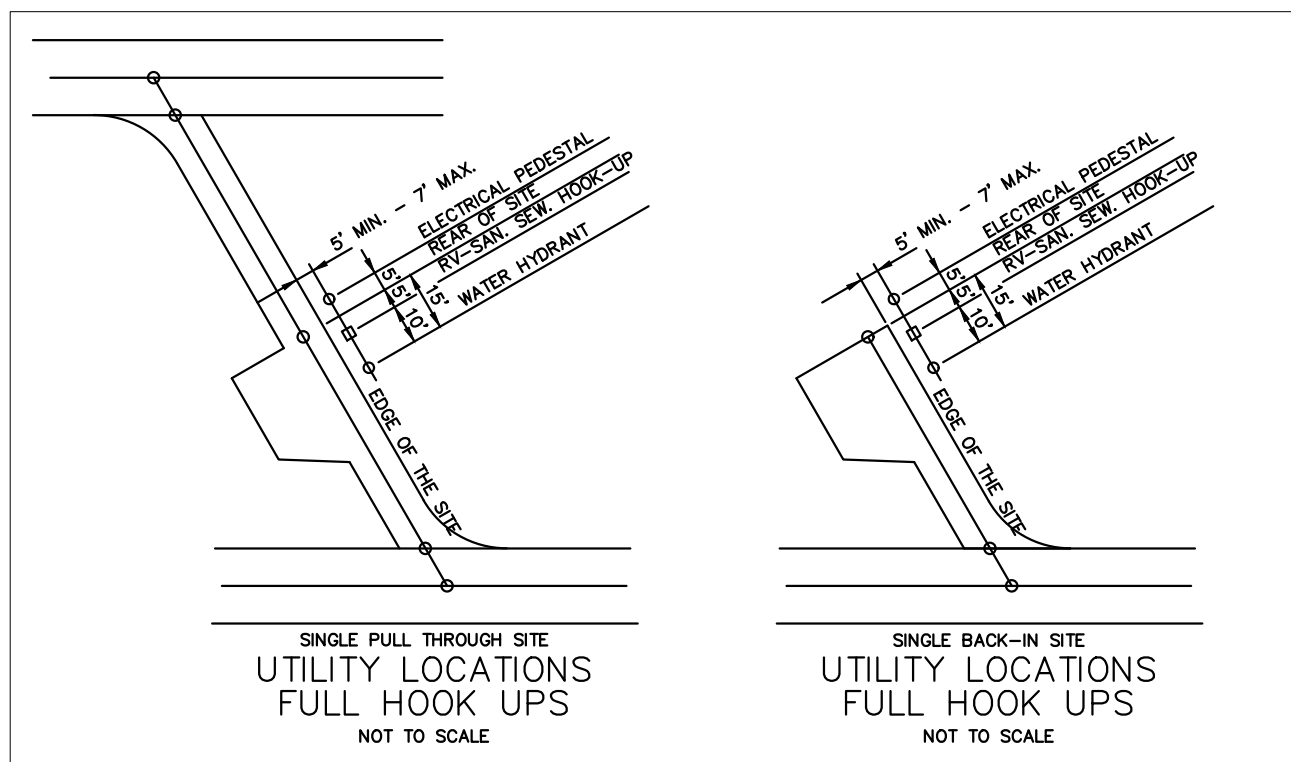
SHEET NO:

ESTIMATED PROJECT QUANTITIES

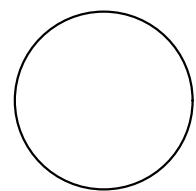
ITEM NO.	ITEM	UNIT	QUANTITY	NON-P&I	P&I
38	PRIMARY ELECTRIC SERVICE TO DISTRIBUTION PANELS	LS	1	1	0
39	SINGLE CAMPSITE OUTLET POST-30 AMP	EA	1	1	0
40	SINGLE CAMPSITE OUTLET POST-50 AMP	EA	60	60	0
41	NO. 2 AWG GROUNDING CONDUCTOR CABLE, TYPE THW OR USE	LF	4,359	4,359	0
42	NO. 4 AWG GROUNDING CONDUCTOR CABLE, TYPE THW OR USE	LF	822	822	0
43	NO. 350 MCM SINGLE CONDUCTOR CABLE, TYPE USE	LF	837	837	0
44	NO. 300 MCM SINGLE CONDUCTOR CABLE, TYPE USE	LF	1,386	1,386	0
45	NO. 250 MCM SINGLE CONDUCTOR CABLE, TYPE USE	LF	2,640	2,640	0
46	NO. 4/0 AWG SINGLE CONDUCTOR CABLE, TYPE USE	LF	8,214	8,214	0
47	NO. 3/0 AWG SINGLE CONDUCTOR CABLE, TYPE USE	LF	1,656	1,656	0
48	NO. 2/0 AWG SINGLE CONDUCTOR CABLE, TYPE USE	LF	810	810	0
49	ROADWAY CROSSING 3-INCH CONDUIT-SCHEDULE 80 PVC	LF	90	90	0
50	ROADWAY CROSSING 2.5-INCH CONDUIT-SCHEDULE 80 PVC	LF	290	290	0
51	ROADWAY CROSSING 2-INCH CONDUIT-SCHEDULE 80 PVC	LF	25	25	0
52	DETECTABLE WARNING TAPE, 3-INCH ELECTRIC	LF	4,116	4,116	0
53	TRENCH, SINGLE CIRCUIT SECONDARY	EA	4,521	4,521	0
54	200 AMP CIRCUIT BREAKER	EA	9	9	0
55	175 AMP CIRCUIT BREAKER	EA	1	1	0
56	150 AMP CIRCUIT BREAKER	EA	1	1	0
57	600 AMP DISTRIBUTION PANEL	EA	1	1	0
58	400 AMP DISTRIBUTION PANEL	EA	1	1	0
59	ELECTRICAL CONNECTION TO CHECK-IN KIOSK AND LED LIGHT	LS	1	1	0
60	SPECIAL BACKFILL/GRANULAR BASE	TONS	4,658.3	1,056.2	3,602.1
61	6-INCH NON-REINFORCED PCC	SY	3,625.3	3,431.2	194.1
62	7-INCH NYLON REINFORCED PCC	SY	10,747.3	0	10,747.3
63	DISPOSAL STATION ISLAND PAVEMENT	EA	2	0	2
64	GRANULAR BASE-SIDEWALKS	TONS	32.1	32.1	0
65	5-INCH NON-REINFORCED PCC SIDEWALKS	SY	160.4	160.4	0
66	ENGINEERING FABRIC	SY	7,770	7,770	0
67	MACADAM STONE	TONS	1,515	1,515	0
68	CLASS 'A' CRUSHED STONE	TONS	1,129	1,129	0
69	4'x4'x5.5' REINFORCED PCC FIRE RING	EA	60	60	0
70	TRAFFIC CONTROL	EA	1	0	1
71	SEEDING, FERTILIZING AND MULCHING	AC	5	0	5
72	STREET SIGNAGE	LS	1	0	1
73	HANDICAP PARKING SIGNAGE	LS	1	1	0
74	STREET PAVEMENT MARKINGS	LS	1	0	1
75	PARKING SPACE PAVEMENT STRIPING, HANDICAP PARKING CROSS HATCH MARKINGS	LS	1	1	0
76	6' CONCRETE PARKING WHEEL STOPS	EA	27	27	0
77	8' CONCRETE PARKING WHEEL STOPS	EA	13	13	0
78	SNOW FENCE BARRIER W/ARCHEOLOGICAL AREA	LF	440	0	440
79	CONSTRUCTION SURVEY STAKING AND AS-BUILT SURVEY	EA	1	0	1
80	NPDES GENERAL PERMIT #2 & SWPPP	LS	1	0	1
81	MOBILIZATION	LS	1	0	1

ESTIMATE REFERENCE INFORMATION

ITEM NO.	ITEM
38	PRIMARY ELECTRIC SERVICE TO DISTRIBUTION PANELS - CONTRACTOR TO SUPPLY CT CABINETS (A 400 AMP AND A 600 AMP) AND ALL OTHER ITEMS AS DETAILED ON SHEET #23.
39	SINGLE CAMPSITE OUTLET POST 30 AMP - CONTRACTOR TO INSTALL 30-AMP OUTLET POST OR EXTERIOR MOUNTED CIRCUIT BOX FOR SERVICE TO THE CHECK-IN KIOSK AS DETAILED ON SHEET #26.
40	SINGLE CAMPSITE OUTLET POST 50 AMP - CONTRACTOR TO INSTALL 50-AMP OUTLET POSTS AS DETAILED ON SHEETS #23-36.
41	NO. 2 AWG GROUNDING CONDUCTOR CABLE, TYPE THW OR USE - CONTRACTOR TO INSTALL NO. 2 AWG GROUNDING CABLE AS DETAILED ON SHEETS #23-36.
42	NO. 4 AWG GROUNDING CONDUCTOR CABLE, TYPE THW OR USE - CONTRACTOR TO INSTALL NO. 4 AWG GROUNDING CABLE AS DETAILED ON SHEETS #23-36.
43	NO. 350 MCM SINGLE CONDUCTOR CABLE, TYPE USE - CONTRACTOR TO INSTALL NO. 350 MCM SINGLE CONDUCTOR CABLE AS DETAILED ON SHEETS #23-36.
44	NO. 300 MCM SINGLE CONDUCTOR CABLE, TYPE USE - CONTRACTOR TO INSTALL NO. 300 MCM SINGLE CONDUCTOR CABLE AS DETAILED ON SHEETS #23-36.
45	NO. 250 MCM SINGLE CONDUCTOR CABLE, TYPE USE - CONTRACTOR TO INSTALL NO. 250 MCM SINGLE CONDUCTOR CABLE AS DETAILED ON SHEETS #23-36.
46	NO. 4/0 AWG SINGLE CONDUCTOR CABLE, TYPE USE - CONTRACTOR TO INSTALL NO. 4/0 AWG SINGLE CONDUCTOR CABLE AS DETAILED ON SHEETS #23-36.
47	NO. 3/0 AWG SINGLE CONDUCTOR CABLE, TYPE USE - CONTRACTOR TO INSTALL NO. 3/0 AWG SINGLE CONDUCTOR CABLE AS DETAILED ON SHEETS #23-36.
48	NO. 2/0 AWG SINGLE CONDUCTOR CABLE, TYPE USE - CONTRACTOR TO INSTALL NO. 2/0 AWG SINGLE CONDUCTOR CABLE AS DETAILED ON SHEETS #23-36.
49	ROADWAY CROSSING 3-INCH CONDUIT-SCHEDULE 80 PVC - CONTRACTOR TO INSTALL CONDUIT FOR ROAD CROSSING AS DETAILED ON SHEETS #23-36.
50	ROADWAY CROSSING 2.5-INCH CONDUIT-SCHEDULE 80 PVC - CONTRACTOR TO INSTALL CONDUIT FOR ROAD CROSSING AS DETAILED ON SHEETS #23-36.
51	ROADWAY CROSSING 2-INCH CONDUIT-SCHEDULE 80 PVC - CONTRACTOR TO INSTALL CONDUIT FOR ROAD CROSSING AS DETAILED ON SHEETS #23-36.
52	DETECTABLE WARNING TAPE, 3-INCH ELECTRIC - CONTRACTOR TO INSTALL DETECTABLE WARNING TAPE, 3-INCH ELECTRIC AS DETAILED ON SHEETS #23-36.
53	TRENCH, SINGLE CIRCUIT SECONDARY - CONTRACTOR TO TRENCH FOR ELECTRIC CABLE LINES AS DETAILED ON SHEETS #23-36.
54	200 AMP CIRCUIT BREAKER - CONTRACTOR TO INSTALL 200 AMP BREAKERS INTO DISTRIBUTION PANELS AS DETAILED ON SHEETS #23-36.
55	175 AMP CIRCUIT BREAKER - CONTRACTOR TO INSTALL 200 AMP BREAKERS INTO DISTRIBUTION PANELS AS DETAILED ON SHEETS #23-36.
56	150 AMP CIRCUIT BREAKER - CONTRACTOR TO INSTALL 200 AMP BREAKERS INTO DISTRIBUTION PANELS AS DETAILED ON SHEETS #23-36.
57	600 AMP DISTRIBUTION PANEL - CONTRACTOR TO INSTALL 600 AMP DISTRIBUTION PANEL AS DETAILED ON SHEETS #23-36.
58	400 AMP DISTRIBUTION PANEL - CONTRACTOR TO INSTALL 400 AMP DISTRIBUTION PANEL AS DETAILED ON SHEETS #23-36.
59	ELECTRICAL CONNECTION TO CHECK-IN KIOSK AND LED LIGHT - CONTRACTOR TO INSTALL ELECTRICAL CONNECTION TO CHECK-IN KIOSK AND LED LIGHT AS DETAILED ON SHEET #26. CONTRACTOR TO INSTALL LITHONIA LIGHTING CNY LED CANDY LIGHT (MODEL #CNY LED P1 40K MVOLT DDB M4, OR APPROVED EQUAL) WITH WOOD BLOCKING DUE TO PITCHED ROOF. INSTALL NEW METAL CONDUIT. LUMP SUM BID ITEM SHALL INCLUDE ANY NEW WIRING, CONDUITS, LED LIGHT, CONNECTIONS, ETC.
60	SPECIAL BACKFILL/GRANULAR BASE - CONTRACTOR SHALL INSTALL 6-INCH SPECIAL BACKFILL OR GRANULAR BASE FOR THE ROADWAY BASE & PCC PARKING AREAS IN ACCORDANCE WITH IDOT SECTION 4132. SPECIAL BACKFILL CAN BE CRUSHED HMA (HMA THAT WAS REMOVED IN BID ITEM #4) IN ACCORDANCE WITH IDOT 4132.04.
61	6-INCH NON-REINFORCED PCC - CONTRACTOR TO INSTALL 6-INCH NON-REINFORCED PCC FOR THE PARKING AREAS AND ADA AND HOST CAMP PADS AS SHOWN ON SHEETS #37-45 AND SHEETS #46-66.
62	7-INCH NYLON-REINFORCED PCC - CONTRACTOR TO INSTALL 7-INCH NYLON-REINFORCED PCC FOR THE ROADWAYS & PARKING DRIVE AISLES AS DETAILED IN THE PLANS ON SHEETS #46-66. MIX SHALL HAVE A MINIMUM OF 5 LBS OF MACRO-SYNTHETIC FIBER PER CUBIC YARD. USE SIKAFIBER ENDURO PRIME OR SIMILAR PRODUCT. FOLLOW MANUFACTURER RECOMMENDATIONS FOR MIXING/APPLICATION.
63	DISPOSAL STATION ISLAND PAVEMENT - CONTRACTOR SHALL INSTALL DISPOSAL STATION ISLANDS AS DETAILED ON SHEETS #59 AND #63.
64	GRANULAR BASE-SIDEWALKS - CONTRACTOR TO INSTALL 4-INCH GRANULAR BASE FOR PCC SIDEWALKS AS DETAILED IN THE PLANS.
65	5-INCH NON-REINFORCED PCC SIDEWALKS - CONTRACTOR TO INSTALL 5-INCH NON-REINFORCED PCC SIDEWALKS AS DETAILED IN THE PLANS.
66	ENGINEERING FABRIC - CONTRACTOR SHALL INSTALL ENGINEERING FABRIC, MIRAFLI 600X OR APPROVED EQUAL, BELOW CAMP PADS AS LOCATED IN THE PLANS. FABRIC SHALL CONFORM TO IOWA DOT SPECIFICATION SECTION 4196.01.
67	MACADAM STONE - CONTRACTOR TO INSTALL 4-INCH DEPTH MACADAM STONE ON TOP OF ENGINEERING FABRIC IN CAMP PADS AS LOCATED IN THE PLANS. MATERIAL SHALL CONFORM TO IOWA DOT SPECIFICATION SECTION 4122.02.
68	CLASS 'A' CRUSHED STONE - CONTRACTOR TO INSTALL 2-INCHES OF CLASS 'A' CRUSHED STONE ON TOP OF MACADAM STONE IN CAMP PADS AS LOCATED IN THE PLANS. THIS QUANTITY INCLUDES AN ADDITIONAL 10% TO ALLOW FOR COMPACTION.
69	4'x4'x5.5' PCC FIRE RING - CONTRACTOR TO INSTALL 4'x4'x5.5' PCC FIRE RINGS FOR EACH CAMP PAD. SEE DETAIL ON SHEET #73. COORDINATE LOCATIONS WITH THE DNR INSPECTOR.
70	TRAFFIC CONTROL - CONTRACTOR TO INSTALL TYPE III BARRICADES OR SOME OTHER KIND OF ROAD CLOSURE BARRIER AT THE ENTRANCE TO KEEP THE GENERAL PUBLIC FROM ENTERING THE CONSTRUCTION SITE.
71	SEEDING, FERTILIZING AND MULCHING - CONTRACTOR SHALL HYDRAULICALLY SEED ALL DISTURBED AREAS (APPROXIMATELY 5.0 ACRES). USE TYPE 1 (PERMANENT LAWN MIXTURE) SEED MIX AROUND THE SHOWER BUILDING, AND ALONG ROADWAYS (APPROXIMATELY 1.0 ACRE). USE TYPE 3 (PERMANENT WARM-SEASON SLOPE AND DITCH MIXTURE) IN ALL OTHER AREAS INCLUDING ALL 3:1 SLOPES (APPROXIMATELY 4.0 ACRES) IN ACCORDANCE WITH SUDAS SECTION 9010.
72	STREET SIGNAGE - CONTRACTOR TO INSTALL STREET SIGNAGE AS DETAILED IN THE PLANS.
73	HANDICAP PARKING SIGNAGE - CONTRACTOR TO INSTALL HANDICAP PARKING SIGNAGE AS DETAILED IN THE PLANS.
74	STREET PAVEMENT MARKINGS - CONTRACTOR TO INSTALL STREET PAVEMENT MARKINGS TO INCLUDE 6 BROKEN YELLOW LINES, SOLID WHITE LANE LINES AND CROSS HATCH AREAS AS DETAILED IN THE PLANS.
75	PARKING SPACES PAVEMENT STRIPING, HANDICAP PARKING CROSS HATCH MARKINGS - CONTRACTOR TO INSTALL PARKING SPACES PAVEMENT STRIPING, HANDICAP PARKING CROSS HATCH MARKINGS AS DETAILED IN THE PLANS.
76	6' CONCRETE PARKING WHEEL STOPS - CONTRACTOR TO INSTALL 6' CONCRETE PARKING WHEEL STOPS AS DETAILED IN THE PLANS.
77	8' CONCRETE PARKING WHEEL STOPS - CONTRACTOR TO INSTALL 8' CONCRETE PARKING WHEEL STOPS AS DETAILED IN THE PLANS.
78	SNOW FENCE BARRIER W/ARCHEOLOGICAL AREA - CONTRACTOR TO INSTALL SNOW FENCE BARRIER W/ARCHEOLOGICAL AREA LOCATED 2 FEET WEST OF THE EXISTING PARKING AREA AS DETAILED ON SHEETS #6, 7 AND 37.
79	CONSTRUCTION SURVEY STAKING AND AS-BUILT SURVEY - CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION SURVEY STAKING AND PROVIDING AN AS-BUILT SURVEY TO THE OWNER UPON COMPLETION OF THE PROJECT.
80	NPDES GENERAL PERMIT #2 & SWPPP - CONTRACTOR SHALL OBTAIN THE NECESSARY NPDES GENERAL PERMIT #2 AS GREATER THAN 1 ACRE OF AREA IS BEING DISTURBED WITH THIS PROJECT AND TO PREPARE A SWPPP IN ACCORDANCE WITH PERMIT #2. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING INSPECTIONS & RECORD KEEPING.
81	MOBILIZATION - COST FOR CONTRACTOR TO MOBILIZE.



CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



QUANTITIES & GENERAL NOTES

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

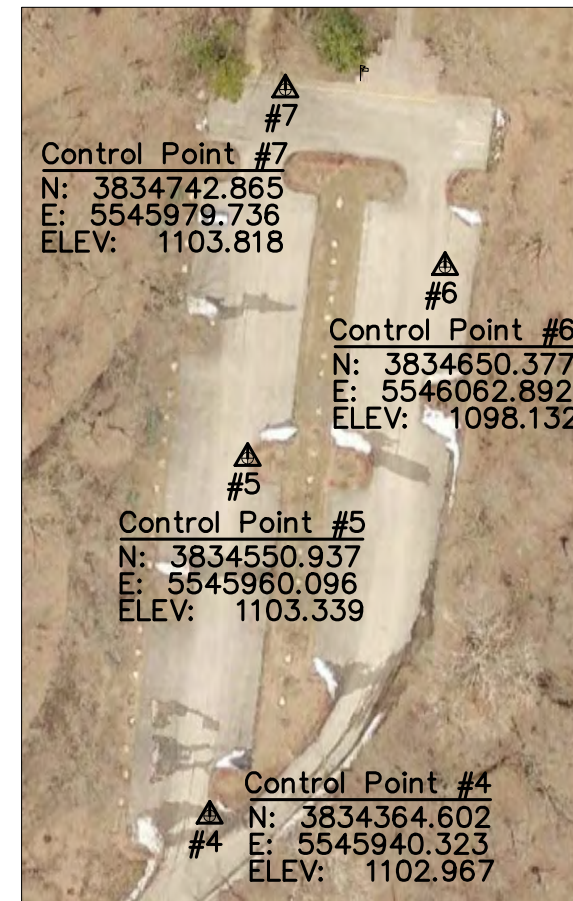
NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01

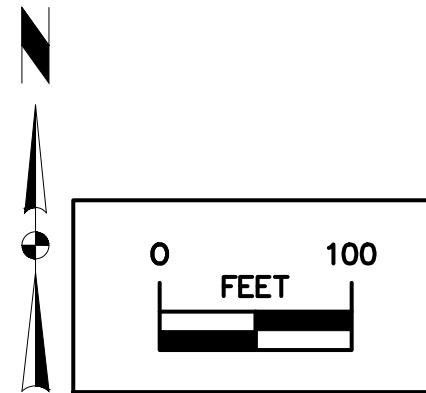
CHKD BY: DATE: 5/01/2021

SHEET No:

SEE VIEWPORT TO THE RIGHT FOR CONTINUATION



SEE VIEWPORT TO THE LEFT FOR CONTINUATION



SURVEY CONTROL NOTES

1. SURVEY CONTROL POINT COORDINATES ARE STATE PLANE.
2. MANY OF THE CONTROL POINTS ARE PK NAILS SET IN THE EXISTING ASPHALT SURFACE WHICH WILL BE REMOVED DURING THE DEMOLITION PHASE. SURVEYOR SHOULD ESTABLISH ADDITIONAL CONTROL POINTS OUTSIDE OF CONSTRUCTION AREAS.
3. SURVEYOR IS RESPONSIBLE FOR CONFIRMING THE ACCURACY OF ANY CONTROL POINTS USED.

SURVEY CONTROL POINTS

SURVEY CONTROL POINT #1	SURVEY CONTROL POINT #2	SURVEY CONTROL POINT #3	SURVEY CONTROL POINT #4
N: 3834226.632 E: 5545461.341 ELEV: 1123.096 CUT 'X' MAIN HWY POLE	N: 3834217.493 E: 5545573.021 ELEV: 1120.414 CUT 'X'	N: 3834204.738 E: 5545724.073 ELEV: 1117.661 SET PK NAIL	N: 3834364.602 E: 5545940.323 ELEV: 1102.967 SET PK NAIL
SURVEY CONTROL POINT #5	SURVEY CONTROL POINT #6	SURVEY CONTROL POINT #7	SURVEY CONTROL POINT #8
N: 3834550.937 E: 5545960.096 ELEV: 1103.339 SET PK NAIL	N: 3834650.377 E: 5546062.892 ELEV: 1098.132 SET PK NAIL	N: 3833742.865 E: 5545979.736 ELEV: 1103.818 SET PK NAIL	N: 3834118.230 E: 5545760.188 ELEV: 1119.310 SET PK NAIL
SURVEY CONTROL POINT #9	SURVEY CONTROL POINT #10	SURVEY CONTROL POINT #11	SURVEY CONTROL POINT #12
N: 3834187.896 E: 5546042.811 ELEV: 1106.181 SET PK NAIL	N: 3834054.988 E: 5546091.253 ELEV: 1099.811 SET PK NAIL	N: 3833951.087 E: 5545768.785 ELEV: 1117.021 SET PK NAIL	N: 3834016.023 E: 5545671.291 ELEV: 1122.169 SET PK NAIL
SURVEY CONTROL POINT #13	SURVEY CONTROL POINT #14	SURVEY CONTROL POINT #15	SURVEY CONTROL POINT #16
N: 3833879.692 E: 5545651.276 ELEV: 1116.567 SET PK NAIL	N: 3833618.660 E: 5545687.630 ELEV: 1105.793 SET PK NAIL	N: 3833419.759 E: 5545704.785 ELEV: 1098.126 SET PK NAIL	N: 3833447.458 E: 5545856.222 ELEV: 1102.803 SET PK NAIL
SURVEY CONTROL POINT #17	SURVEY CONTROL POINT #18	SURVEY CONTROL POINT #19	SURVEY CONTROL POINT #20
N: 3833646.314 E: 5545788.465 ELEV: 1111.007 SET PK NAIL	N: 3833489.293 E: 5545949.982 ELEV: 1097.435 SET PK NAIL	N: 3833582.191 E: 5545943.261 ELEV: 1097.879 SET PK NAIL	N: 3833695.775 E: 5545872.944 ELEV: 1102.868 SET HUB
SURVEY CONTROL POINT #21	SURVEY CONTROL POINT #22	SURVEY CONTROL POINT #23	
N: 3833758.427 E: 5545929.578 ELEV: 1096.216 SET HUB	N: 3834095.428 E: 5545600.325 ELEV: 1125.245 RIVER MONUMENT	N: 3834157.904 E: 5545622.754 ELEV: 1119.959 DIMPLE MANHOLE RIM	

CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



SURVEY CONTROL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01

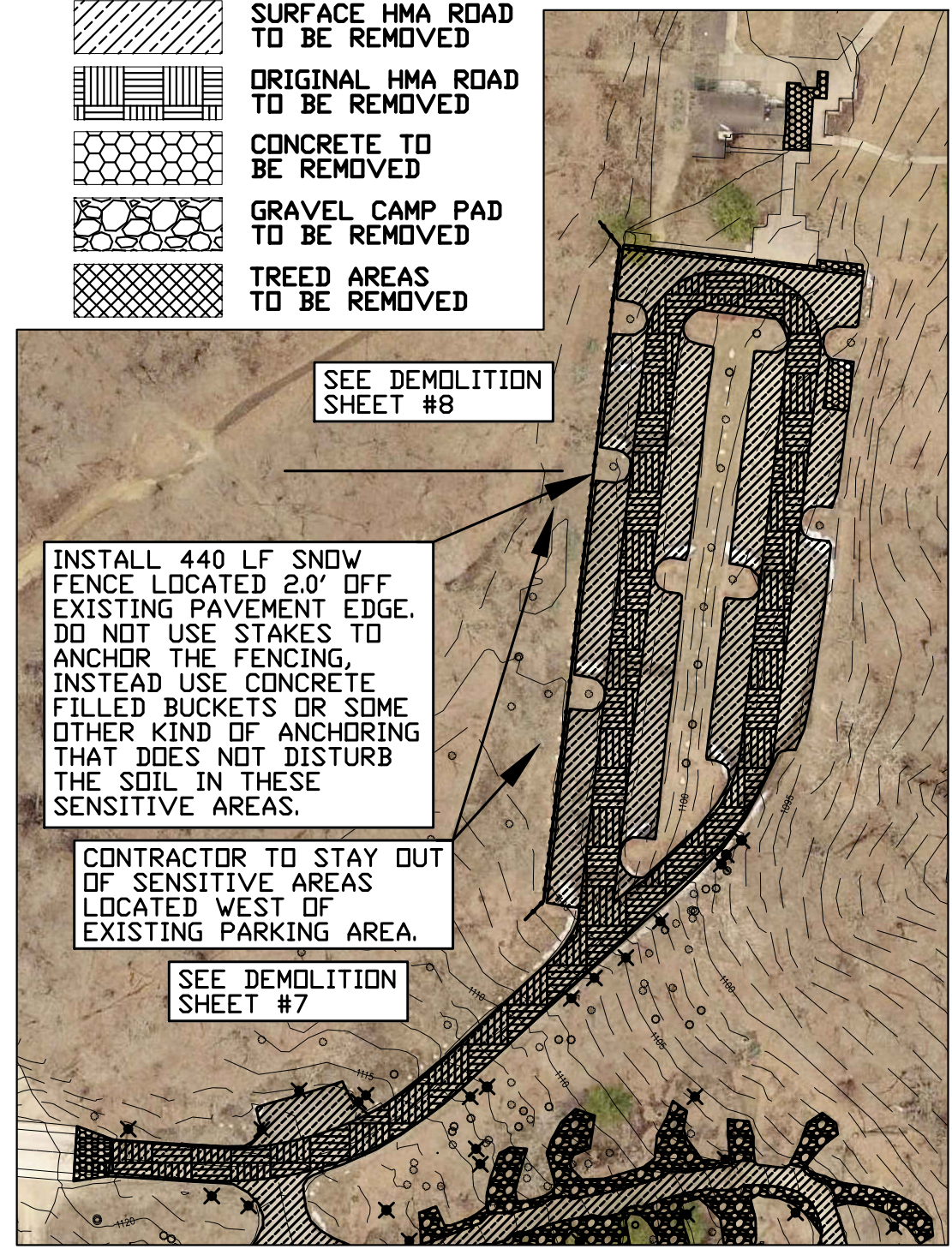
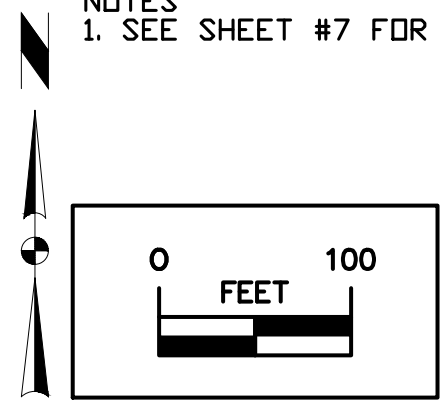
CHKD BY: DATE: 5/01/2021

SHEET No:

LEGEND

- EXISTING/PROPOSED**
- SAN 8" SANITARY SEWER
 - ST 8" STORM SEWER
 - E ELECTRIC LINE
 - W 2" WATER MAIN
 - 20" ASH
 -  TREE TO BE REMOVED
 -  SURFACE HMA ROAD TO BE REMOVED
 -  ORIGINAL HMA ROAD TO BE REMOVED
 -  CONCRETE TO BE REMOVED
 -  GRAVEL CAMP PAD TO BE REMOVED
 -  TREED AREAS TO BE REMOVED

NOTES
 1. SEE SHEET #7 FOR DEMOLITION AND CLEARING AND GRUBBING NOTES.
 SEE ADJACENT FOR CONTINUATION

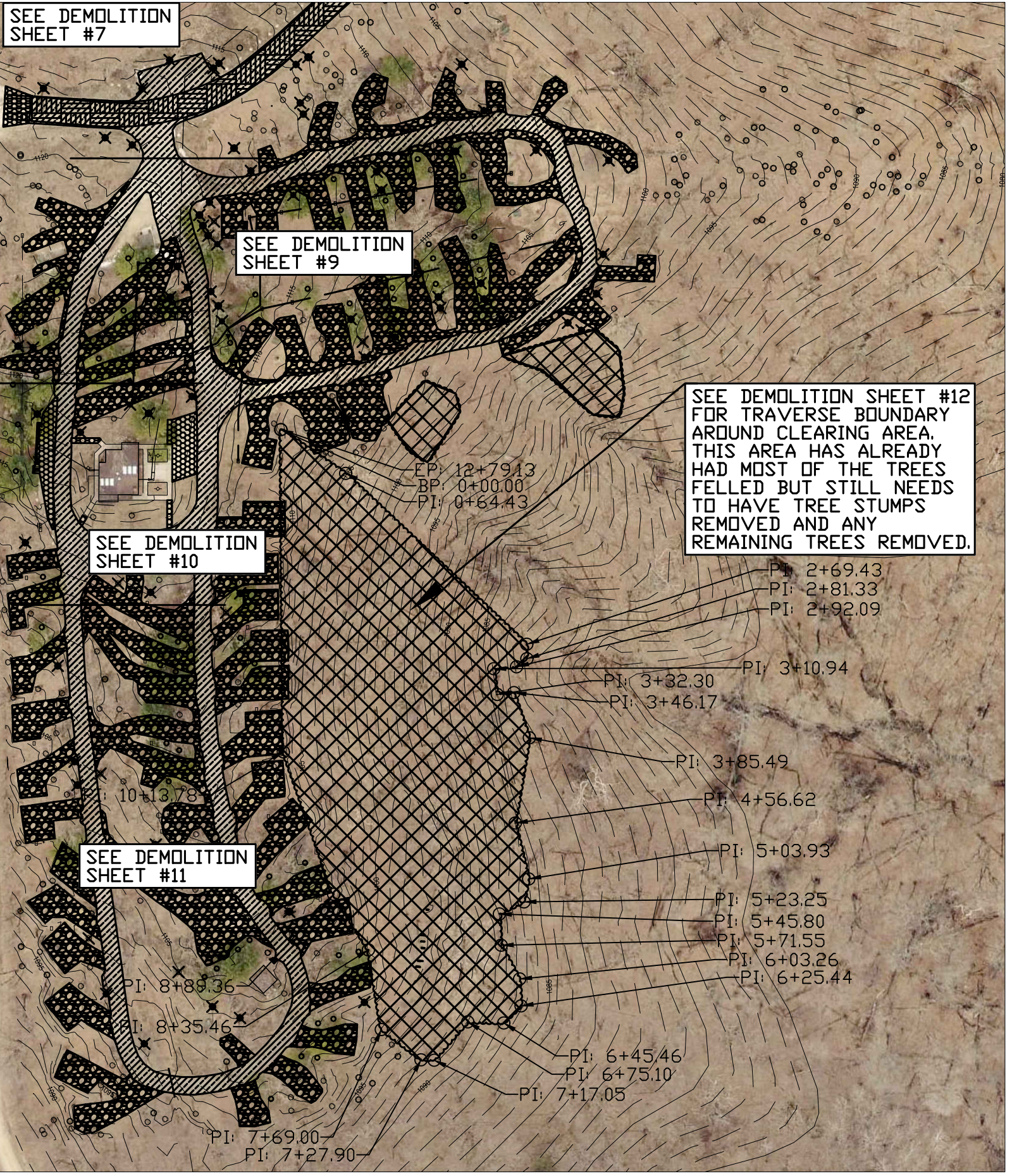


INSTALL 440 LF SNOW FENCE LOCATED 2.0' OFF EXISTING PAVEMENT EDGE. DO NOT USE STAKES TO ANCHOR THE FENCING, INSTEAD USE CONCRETE FILLED BUCKETS OR SOME OTHER KIND OF ANCHORING THAT DOES NOT DISTURB THE SOIL IN THESE SENSITIVE AREAS.

CONTRACTOR TO STAY OUT OF SENSITIVE AREAS LOCATED WEST OF EXISTING PARKING AREA.

SEE DEMOLITION SHEET #7

SEE DEMOLITION SHEET #8



SEE DEMOLITION SHEET #7

SEE DEMOLITION SHEET #9

SEE DEMOLITION SHEET #10

SEE DEMOLITION SHEET #11

SEE DEMOLITION SHEET #12 FOR TRAVERSE BOUNDARY AROUND CLEARING AREA. THIS AREA HAS ALREADY HAD MOST OF THE TREES FELLED BUT STILL NEEDS TO HAVE TREE STUMPS REMOVED AND ANY REMAINING TREES REMOVED.

EP: 12+79.13
 BP: 0+00.00
 PI: 0+64.43

PI: 2+69.43
 PI: 2+81.33
 PI: 2+92.09

PI: 3+32.30
 PI: 3+46.17

PI: 3+85.49
 PI: 4+56.62

PI: 5+03.93
 PI: 5+23.25
 PI: 5+45.80
 PI: 5+71.55

PI: 6+03.26
 PI: 6+25.44

PI: 6+45.46
 PI: 6+75.10
 PI: 7+17.05

PI: 7+69.00
 PI: 7+27.90

SEE ADJACENT FOR CONTINUATION

CONSULTANT:

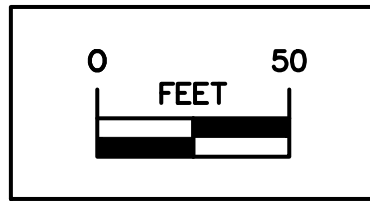
IOWA DEPARTMENT OF NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



OVERALL DEMOLITION PLAN
 CONSTRUCTION PROJECT FOR:
**PIKES PEAK CAMPGROUND
 UPGRADE PROJECT**
 CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER:
 21-03-22-01
 CHK'D BY: DATE:
 5/01/2021
 SHEET No:



DEMOLITION NOTES

1. CONTRACTOR TO REMOVE EXISTING PCC CONCRETE AS SHOWN. CONCRETE FROM DEMOLITION SHALL BE USED AS EROSION CONTROL IN ERODING DRAINAGE CHANNELS, SEE GRADING SHEET #44 FOR LOCATIONS AND DETAILS.
2. CONTRACTOR SHALL REMOVE THE EXISTING HMA CAMPGROUND ROAD IN THE AREAS SHOWN. THE HMA CAMPGROUND SURFACE ROAD IS 10,100 SQUARE YARDS AND IS ASSUMED TO BE AN AVERAGE OF 5-INCHES OF THICKNESS (APPROXIMATELY 2,556.6 TONS). THERE IS ALSO AN EXISTING ACC ROAD BENEATH THE SURFACE ACC THAT WAS THE ORIGINAL ENTRANCE LOOP ROAD WHICH ALSO NEED TO BE REMOVED AND IS ASSUMED TO BE 20 FEET IN WIDTH FOR A LENGTH OF 1,250 FEET AND AN ASSUMED DEPTH OF 5-INCHES YIELDING AN ADDITIONAL 2,700 SY (APPROXIMATELY 680 TONS). MAY USE CRUSHED HMA AS SPECIAL BACKFILL FOR THE ROADWAY BASE IN ACCORDANCE WITH IDOT SECTION 4132.
3. SAWCUT EXISTING PCC WHERE NOTED ON PLANS FOR CLEAN EDGES.
4. CONTRACTOR TO REMOVE EXISTING DISPOSAL STATION AND HYDRANTS LOCATED WEST OF THE EXISTING SHOWER BUILDING, DISPOSE OF PROPERLY.
5. AN ARCHEOLOGICAL INSPECTION OF THE PARKING LOT AREA NEEDS TO OCCUR AFTER THE PAVEMENTS HAVE BEEN REMOVED TO LOOK FOR ANY CULTURAL DEPOSITS. COORDINATE WITH DNR INSPECTOR. CONTRACTOR TO STAY OUT OF SENSITIVE AREA LOCATED WEST OF THE EXISTING PARKING AREA.

CLEARING & GRUBBING NOTES

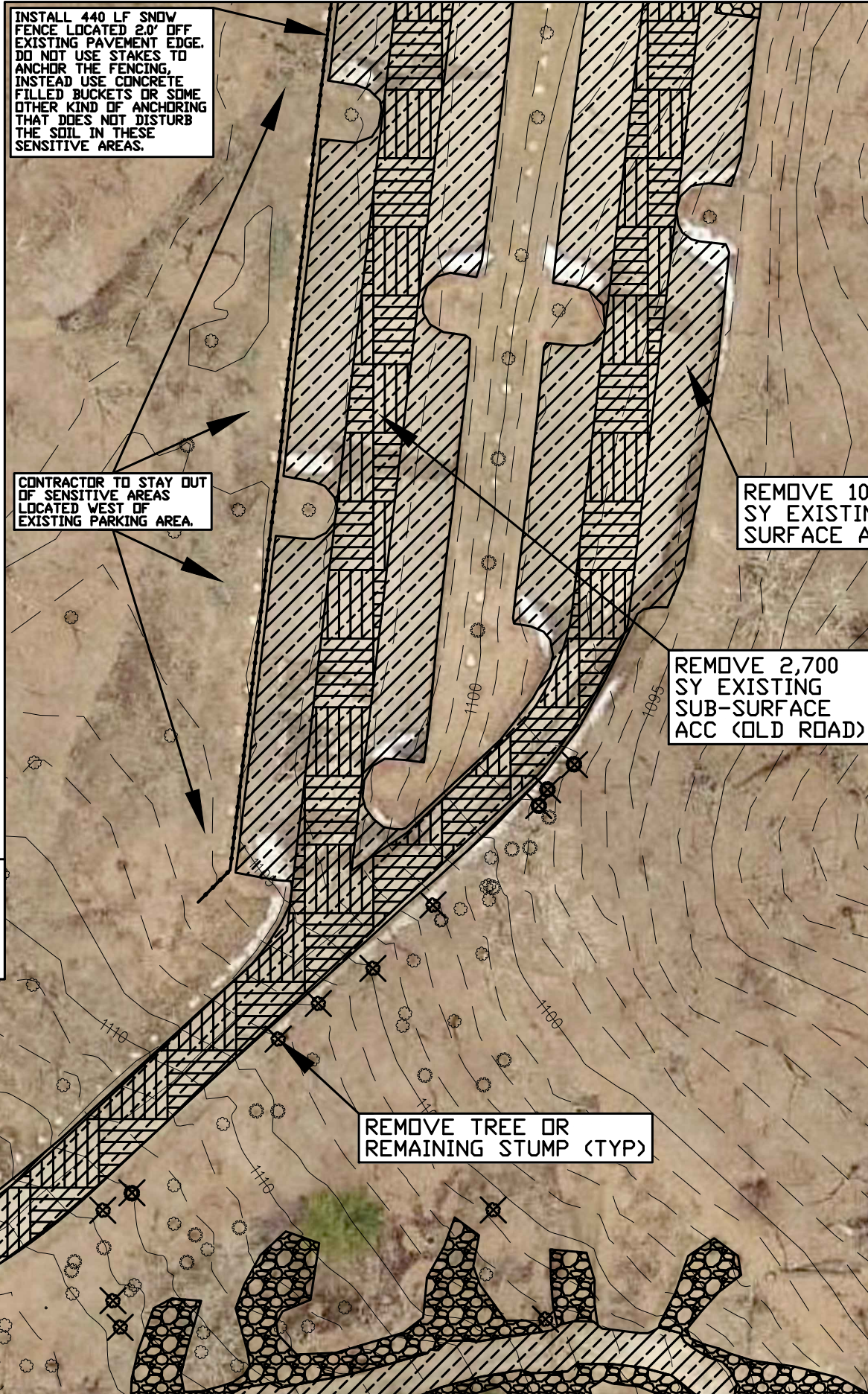
1. CONTRACTOR TO REMOVE TREES/STUMPS AS INDICATED, INCLUDING ROOTS, TO A DEPTH OF AT LEAST 12-INCHES IN ACCORDANCE WITH SUDAS SECTION 2010.3.01.C. PLACE BACKFILL TO FILL HOLE AND COMPACT. MOST TREES HAVE BEEN TOPPED AND REMOVED FOR FIREWOOD, HOWEVER, SOME TREES STILL NEED TO BE REMOVED, SOME BRUSH PILES MAY REMAIN. CONTRACTOR CAN BURN BRUSH PILES, COORDINATE WITH DNR INSPECTOR FOR BURN LOCATIONS AND TIMING. ADDITIONAL TREES MAY NEED TO BE REMOVED BY THE CONTRACTOR IF THEY ARE FOUND TO BE IN CONFLICT WITH THE CONSTRUCTION. DNR INSPECTOR WILL DETERMINE THOSE THAT NEED TO BE REMOVED.
2. THERE ARE APPROXIMATELY 222 EXISTING STUMPS THAT ARE OVER 6-INCHES IN DIAMETER (AND MANY MORE THAT ARE SMALLER) THAT NEED TO BE REMOVED/GROUND DOWN. CONTRACTOR MAY WANT TO DO A SITE VISIT TO VISUALLY SEE THE SCOPE FOR THE CLEARING AND GRUBBING.
3. CONTRACTOR TO REMOVE GRAVEL CAMPPADS (9,700 SY ASSUMED TO BE A 4-INCH DEPTH) AND SHALL BE PART OF THE CLEARING AND GRUBBING BID ITEM. REMOVED MATERIAL CAN BE USED IN FILL LOCATIONS ON FUTURE CAMPPADS #24, 26, 28 AND 30 (SEE GRADING SHEETS #42 AND #43 FOR LOCATIONS AND DETAILS).
4. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING CMP CULVERT (WHERE NOTED IN PLANS). TO BE INCLUDED IN CLEARING AND GRUBBING BID ITEM. CONTRACTOR TO DISPOSE OF MATERIAL OFF-SITE PROPERLY.
5. CONTRACTOR TO TRIM LOW HANGING TREE BRANCHES (14 FEET OF HEIGHT OR LOWER) THAT INTERFERE WITH THE CAMPPADS.
6. CONTRACTOR TO REMOVE AND DISPOSE OF ALL RETAINING WALL TIMBERS THAT WERE USED ON THE CAMPSITES (DISPOSE OF PROPERLY OFF-SITE).
7. CONTRACTOR TO REMOVE AND SALVAGE THE EXISTING ELECTRICAL PEDESTALS (50 TOTAL). COORDINATE THE TRANSFER OF THE SALVAGED PEDESTALS WITH THE DNR INSPECTOR AND PARK STAFF.
8. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING FIRE RINGS (67 TOTAL).

LEGEND

EXISTING/PROPOSED

- SAN 8" SANITARY SEWER
- ST 8" STORM SEWER
- E ELECTRIC LINE
- W 2" WATER MAIN
- 20" ASH TREE TO BE REMOVED
- SURFACE HMA ROAD TO BE REMOVED
- ORIGINAL HMA ROAD TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL CAMP PAD TO BE REMOVED
- TREED AREAS TO BE REMOVED

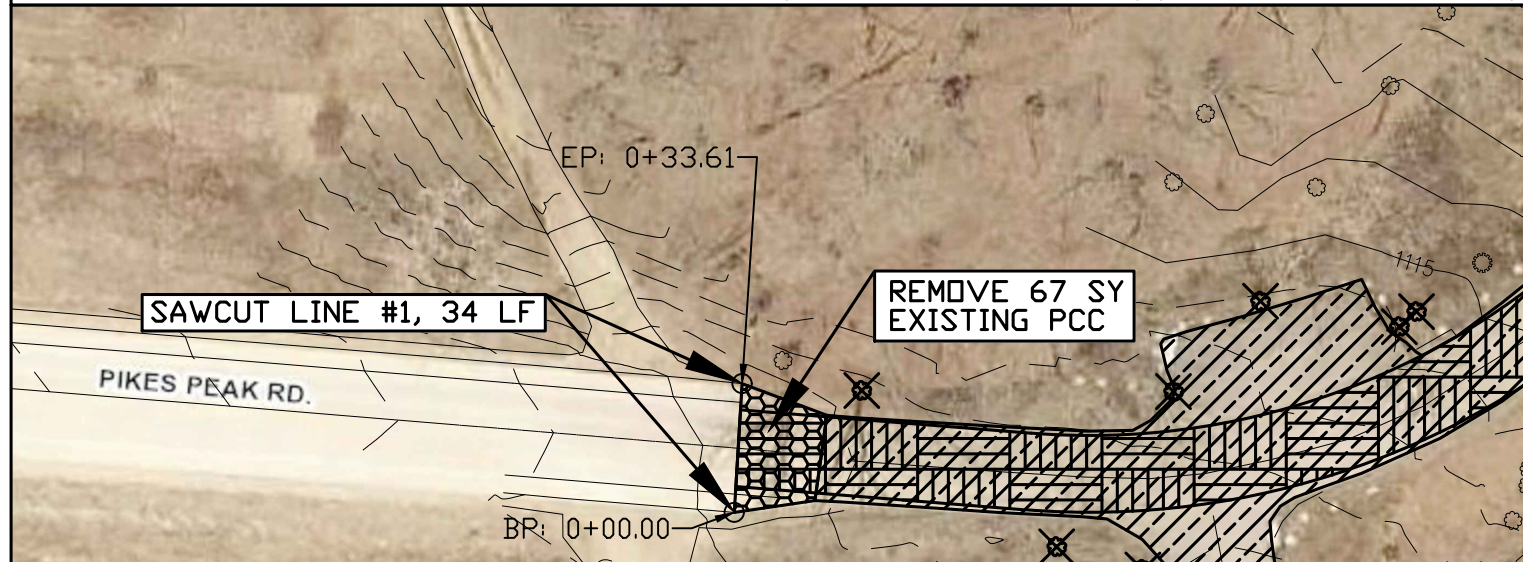
SEE SHEET #8 FOR CONTINUATION



SAW CUT LINE CONTROL

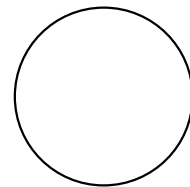
SAW CUT LINE #1

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	33.61'	N3° 26' 56"E	0+00.00'	0+33.61'	(5545608.2660', 3834180.7560')	(5545610.2880', 3834214.3060')



SEE SHEET #9 FOR CONTINUATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



DEMOLITION PLAN

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

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DRAWN BY: PROJECT NUMBER:

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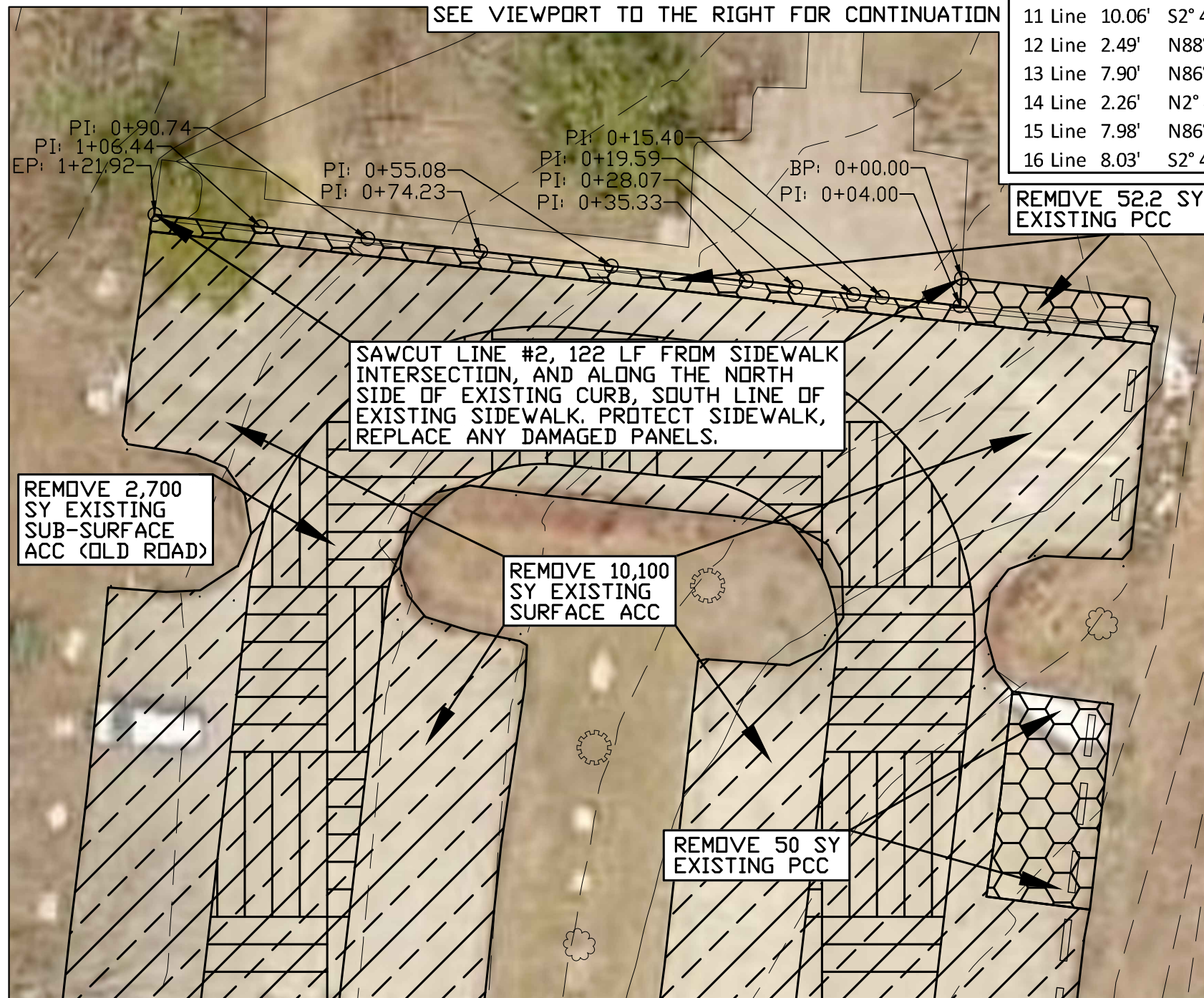
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SAW CUT LINE CONTROL

SAW CUT LINE #2

No.	Type	Length	Direction	Start Sta	End Sta	Start Point	End Point
1	Line	4.00'	S2° 59' 43"W	0+00.00'	0+04.00'	(5546060.3100', 3834740.8850')	(5546060.1009', 3834736.8894')
2	Line	11.40'	N83° 40' 33"W	0+04.00'	0+15.40'	(5546060.1009', 3834736.8894')	(5546048.7720', 3834738.1450')
3	Line	4.19'	N84° 37' 56"W	0+15.40'	0+19.59'	(5546048.7720', 3834738.1450')	(5546044.6000', 3834738.5370')
4	Line	8.48'	N82° 57' 17"W	0+19.59'	0+28.07'	(5546044.6000', 3834738.5370')	(5546036.1850', 3834739.5770')
5	Line	7.26'	N82° 56' 26"W	0+28.07'	0+35.33'	(5546036.1850', 3834739.5770')	(5546028.9820', 3834740.4690')
6	Line	19.75'	N83° 37' 41"W	0+35.33'	0+55.08'	(5546028.9820', 3834740.4690')	(5546009.3530', 3834742.6610')
7	Line	19.15'	N83° 37' 32"W	0+55.08'	0+74.23'	(5546009.3530', 3834742.6610')	(5545990.3230', 3834744.7870')
8	Line	16.52'	N83° 29' 09"W	0+74.23'	0+90.74'	(5545990.3230', 3834744.7870')	(5545973.9110', 3834746.6610')
9	Line	15.70'	N83° 42' 32"W	0+90.74'	1+06.44'	(5545973.9110', 3834746.6610')	(5545958.3090', 3834748.3810')
10	Line	15.48'	N83° 25' 19"W	1+06.44'	1+21.92'	(5545958.3090', 3834748.3810')	(5545942.9340', 3834750.1540')

SEE VIEWPORT TO THE RIGHT FOR CONTINUATION

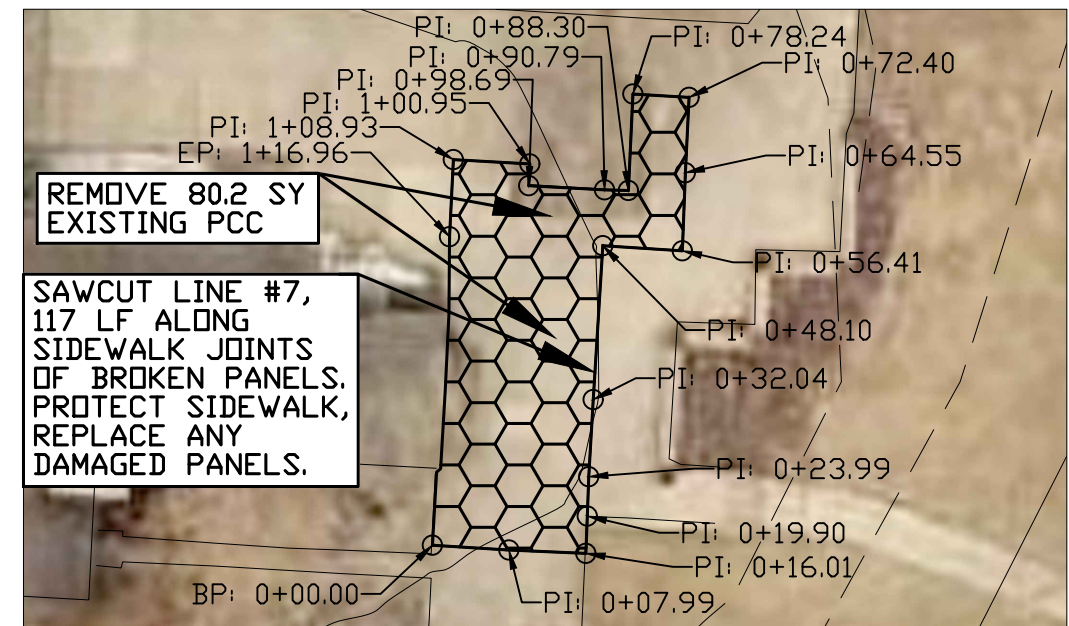


SEE SHEET #7 FOR CONTINUATION

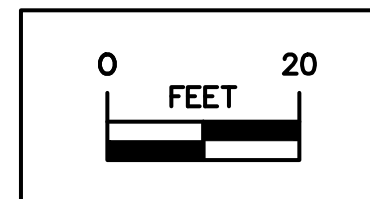
SAW CUT LINE CONTROL

SAW CUT LINE #7

No.	Type	Length	Direction	Start Sta	End Sta	Start Point	End Point
1	Line	7.99'	S86° 25' 14"E	0+00.00'	0+07.99'	(5546039.7300', 3834808.4240')	(5546047.7070', 3834807.9250')
2	Line	8.02'	S87° 29' 25"E	0+07.99'	0+16.01'	(5546047.7070', 3834807.9250')	(5546055.7150', 3834807.5740')
3	Line	3.89'	N2° 14' 24"E	0+16.01'	0+19.90'	(5546055.7150', 3834807.5740')	(5546055.8670', 3834811.4600')
4	Line	4.09'	N2° 06' 05"E	0+19.90'	0+23.99'	(5546055.8670', 3834811.4600')	(5546056.0170', 3834815.5480')
5	Line	8.05'	N3° 16' 10"E	0+23.99'	0+32.04'	(5546056.0170', 3834815.5480')	(5546056.4760', 3834823.5830')
6	Line	16.07'	N3° 34' 32"E	0+32.04'	0+48.10'	(5546056.4760', 3834823.5830')	(5546057.4780', 3834839.6190')
7	Line	8.31'	S86° 18' 04"E	0+48.10'	0+56.41'	(5546057.4780', 3834839.6190')	(5546065.7690', 3834839.0830')
8	Line	8.13'	N2° 08' 55"E	0+56.41'	0+64.55'	(5546065.7690', 3834839.0830')	(5546066.0740', 3834847.2120')
9	Line	7.85'	N2° 47' 47"E	0+64.55'	0+72.40'	(5546066.0740', 3834847.2120')	(5546066.4570', 3834855.0530')
10	Line	5.85'	N86° 27' 33"W	0+72.40'	0+78.24'	(5546066.4570', 3834855.0530')	(5546060.6230', 3834855.4140')
11	Line	10.06'	S2° 41' 24"W	0+78.24'	0+88.30'	(5546060.6230', 3834855.4140')	(5546060.1510', 3834845.3680')
12	Line	2.49'	N88° 38' 39"W	0+88.30'	0+90.79'	(5546060.1510', 3834845.3680')	(5546057.6580', 3834845.4270')
13	Line	7.90'	N86° 51' 51"W	0+90.79'	0+98.69'	(5546057.6580', 3834845.4270')	(5546049.7730', 3834845.8590')
14	Line	2.26'	N2° 42' 31"E	0+98.69'	1+00.95'	(5546049.7730', 3834845.8590')	(5546049.8800', 3834848.1203')
15	Line	7.98'	N86° 46' 10"W	1+00.95'	1+08.93'	(5546049.8800', 3834848.1203')	(5546041.9120', 3834848.5700')
16	Line	8.03'	S2° 45' 44"W	1+08.93'	1+16.96'	(5546041.9120', 3834848.5700')	(5546041.5250', 3834840.5490')



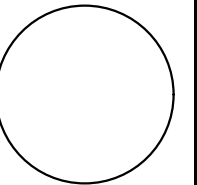
SEE VIEWPORT TO THE LEFT FOR CONTINUATION



LEGEND

— — — — —	SAN 8"	SANITARY SEWER	[Diagonal Hatching]	SURFACE HMA ROAD TO BE REMOVED
— — — — —	ST 8"	STORM SEWER	[Horizontal Hatching]	ORIGINAL HMA ROAD TO BE REMOVED
— — — — —	E	ELECTRIC LINE	[Cross-hatching]	CONCRETE TO BE REMOVED
— — — — —	W 2"	WATER MAIN	[Hexagonal Pattern]	

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



DEMOLITION PLAN

CONSTRUCTION PROJECT FOR:

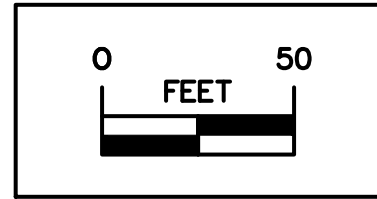
PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01
CHKD BY: DATE: 5/01/2021
SHEET No:

SEE SHEET #7 FOR CONTINUATION



LEGEND
EXISTING/PROPOSED

- SAN 8" SANITARY SEWER
- ST 8" STORM SEWER
- E ELECTRIC LINE
- W 2" WATER MAIN
- 20" ASH TREE TO BE REMOVED
- SURFACE HMA ROAD TO BE REMOVED
- ORIGINAL HMA ROAD TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL CAMPPAD TO BE REMOVED
- TREED AREAS TO BE REMOVED

CONTRACTOR TO SALVAGE EXISTING PIKES PEAK STATE PARK ENTRANCE SIGN, COORDINATE WITH DNR INSPECTOR.

REMOVE 2,700 SY EXISTING SUB-SURFACE ACC (OLD ROAD)

EXISTING UNDERGROUND ELECTRICAL WIRING CAN BE ABANDONED (TYP)

REMOVE TREE OR REMAINING STUMP (TYP)

REMOVE 10,100 SY EXISTING SURFACE ACC

PROTECT EXISTING ELECTRICAL PANELS AND TRANSFORMERS

REMOVE/SALVAGE EXISTING CAMPSITE ELECTRICAL OUTLET BOX (TYP)

REMOVE/DISPOSE CAMPPAD FIRE RINGS (TYP), 67 TOTAL

SEE SHEET #10 FOR THIS AREA

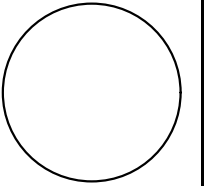
REMOVE EXISTING GRAVEL CAMPPADS (TYP), (9,700 SY OF APPROXIMATELY 4-INCH DEPTH).

REMOVE/CLEAR TREE AND BRUSH IN THESE AREAS FOR CAMPPADS #15 AND #19 (SEE TRAVERSE INFO ON SHEET #12).

REMOVE/DISPOSE OF EXISTING CAMPSITE TIMBER RETAINING WALLS (TYP)

SEE SHEET #11 FOR CONTINUATION

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



DEMOLITION PLAN

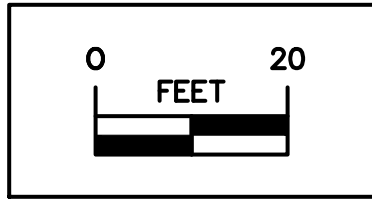
CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND
UPGRADE PROJECT
CLAYTON COUNTY, IOWA

NO.	BY	REVISION

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21-03-22-01
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5/01/2021

SHEET No:

SEE SHEET #9 FOR CONTINUATION



LEGEND

EXISTING/PROPOSED

- SAN 8" SANITARY SEWER
- ST 8" STORM SEWER
- E 2" ELECTRIC LINE
- W 2" WATER MAIN
- 20" ASH TREE TO BE REMOVED
- ASPHALT DRIVE TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL CAMP PAD TO BE REMOVED
- TREED AREAS TO BE REMOVED

REMOVE EXISTING GRAVEL CAMPPADS (TYP), (9,700 SY OF APPROXIMATELY 4-INCH DEPTH).

PROTECT EXISTING TREES THAT ARE NOT BEING REMOVED

REMOVE 125 SY EXISTING PCC

REMOVE 130 SY EXISTING PCC

REMOVE 10 SY EXISTING PCC

REMOVE 10,100 SY EXISTING SURFACE ACC

REMOVE (2) EXISTING HYDRANTS AND VALVES, CAP WATER SERVICE LINE.

SAWCUT LINE #6, 4 LF

REMOVE/SALVAGE EXISTING CAMPSITE ELECTRICAL OUTLET BOX (TYP)

SAWCUT LINE #3, 35 LF

SAWCUT LINE #5, 4 LF

REMOVE EXISTING SANITARY DUMP STATION RISER & CONCRETE APRON

SAWCUT LINE #4, 4 LF

REMOVE 3 SY EXISTING PCC

REMOVE 10 SY EXISTING PCC

PROTECT EXISTING ELECTRICAL PANELS AND TRANSFORMERS

REMOVE/DISPOSE OF EXISTING CAMPSITE TIMBER RETAINING WALLS (TYP)

REMOVE TREE OR REMAINING STUMP (TYP)

SEE SHEET #11 FOR CONTINUATION

REMOVE/DISPOSE CAMPPAD FIRE RINGS (TYP), 67 TOTAL

SAW CUT LINE CONTROL

SAW CUT LINE #3

No.	Type	Length	Direction	Start Sta	End Stati	Start Point	End Point
1	Line	4.13'	S89° 50' 38"E	0+00.00'	0+04.13'	(5545743.4270', 3833919.4920')	(5545747.5539', 3833919.4808')
2	Line	31.03'	S0° 07' 52"W	0+04.13'	0+35.16'	(5545747.5539', 3833919.4808')	(5545747.4830', 3833888.4500')

SAW CUT LINE #4

No.	Type	Length	Direction	Start Sta	End Stati	Start Point	End Point
1	Line	4.06'	N89° 52' 23"W	0+00.00'	0+04.06'	(5545747.3130', 3833873.3200')	(5545743.2550', 3833873.3290')

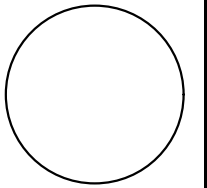
SAW CUT LINE #5

No.	Type	Length	Direction	Start Sta	End Stati	Start Point	End Point
1	Line	4.02'	N59° 21' 34"W	0+00.00'	0+04.02'	(5545677.2449', 3833859.0309')	(5545673.7896', 3833861.0776')

SAW CUT LINE #6

No.	Type	Length	Direction	Start Sta	End Stati	Start Point	End Point
1	Line	4.01'	N45° 02' 10"E	0+00.00'	0+04.01'	(5545685.9880', 3833920.4690')	(5545688.8246', 3833923.3020')

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



DEMOLITION PLAN

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01

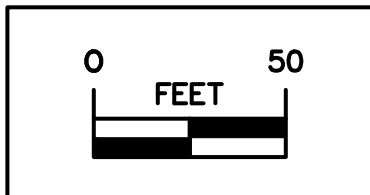
CHKD BY: DATE: 5/01/2021

SHEET No:

SEE SHEETS #9 & 10 FOR CONTINUATION

SAW CUT LINE #8

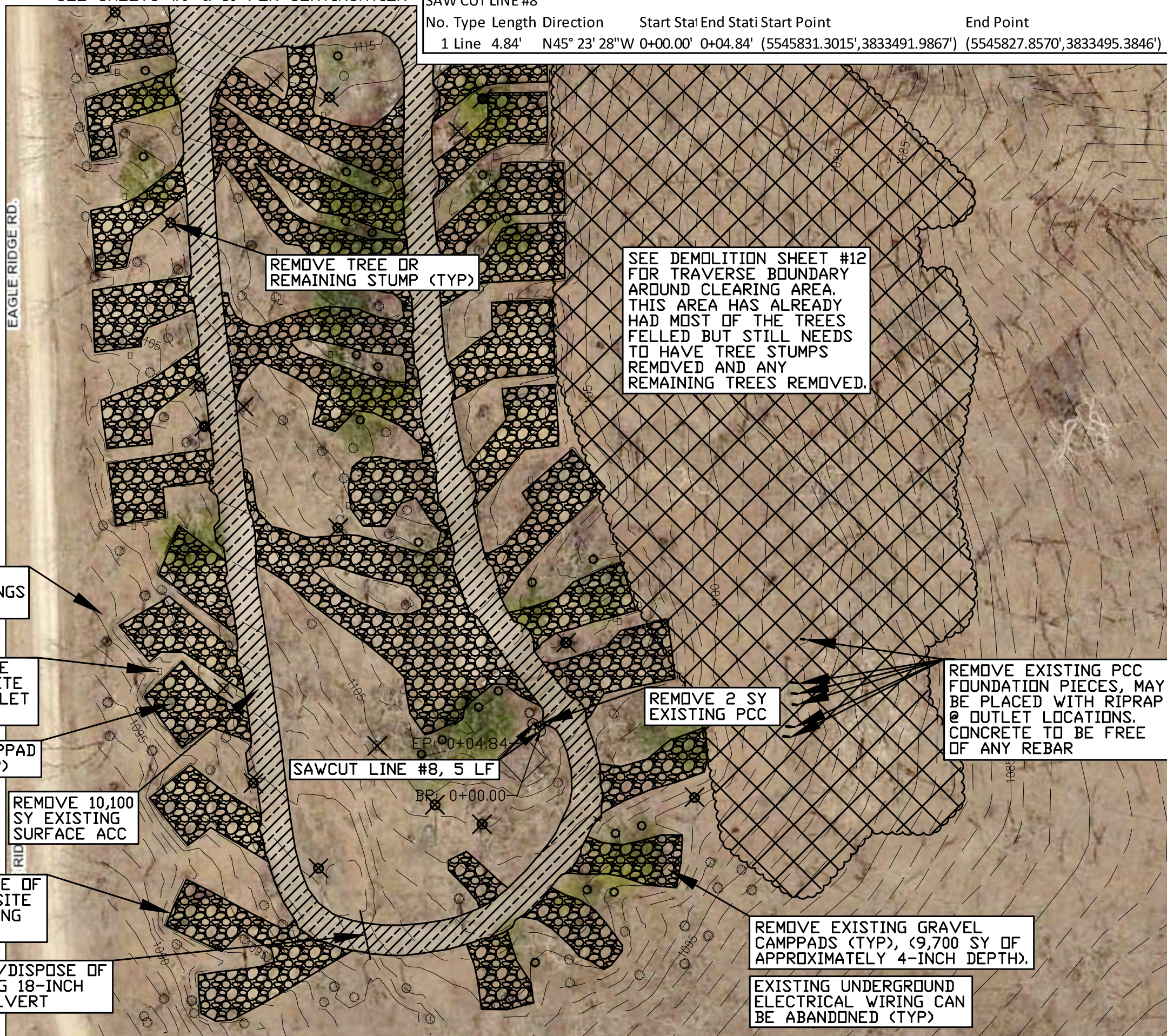
No.	Type	Length	Direction	Start Sta	End Stati	Start Point	End Point
1	Line	4.84'	N45° 23' 28"W	0+00.00'	0+04.84'	(5545831.3015', 3833491.9867')	(5545827.8570', 3833495.3846')



LEGEND

EXISTING/PROPOSED

- SAN 8" SANITARY SEWER
- ST 8" STORM SEWER
- E ELECTRIC LINE
- W 2" WATER MAIN
- 20" ASH TREE TO BE REMOVED
- ASPHALT DRIVE TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL CAMP PAD TO BE REMOVED
- TREED AREAS TO BE REMOVED



REMOVE TREE OR REMAINING STUMP (TYP)

SEE DEMOLITION SHEET #12 FOR TRAVERSE BOUNDARY AROUND CLEARING AREA. THIS AREA HAS ALREADY HAD MOST OF THE TREES FELLED BUT STILL NEEDS TO HAVE TREE STUMPS REMOVED AND ANY REMAINING TREES REMOVED.

REMOVE/DISPOSE CAMPPAD FIRE RINGS (TYP), 67 TOTAL

REMOVE/SALVAGE EXISTING CAMPSITE ELECTRICAL OUTLET BOX (TYP)

REMOVE CAMPPAD GRAVEL (TYP)

REMOVE 10,100 SY EXISTING SURFACE ACC

REMOVE/DISPOSE OF EXISTING CAMPSITE TIMBER RETAINING WALLS (TYP)

REMOVE/DISPOSE OF EXISTING 18-INCH CMP CULVERT

SAWCUT LINE #8, 5 LF

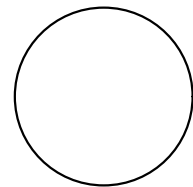
REMOVE 2 SY EXISTING PCC

REMOVE EXISTING PCC FOUNDATION PIECES, MAY BE PLACED WITH RIPRAP @ OUTLET LOCATIONS. CONCRETE TO BE FREE OF ANY REBAR

REMOVE EXISTING GRAVEL CAMPPADS (TYP), (9,700 SY OF APPROXIMATELY 4-INCH DEPTH).

EXISTING UNDERGROUND ELECTRICAL WIRING CAN BE ABANDONED (TYP)

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



DEMOLITION PLAN

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

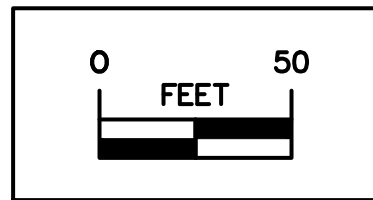
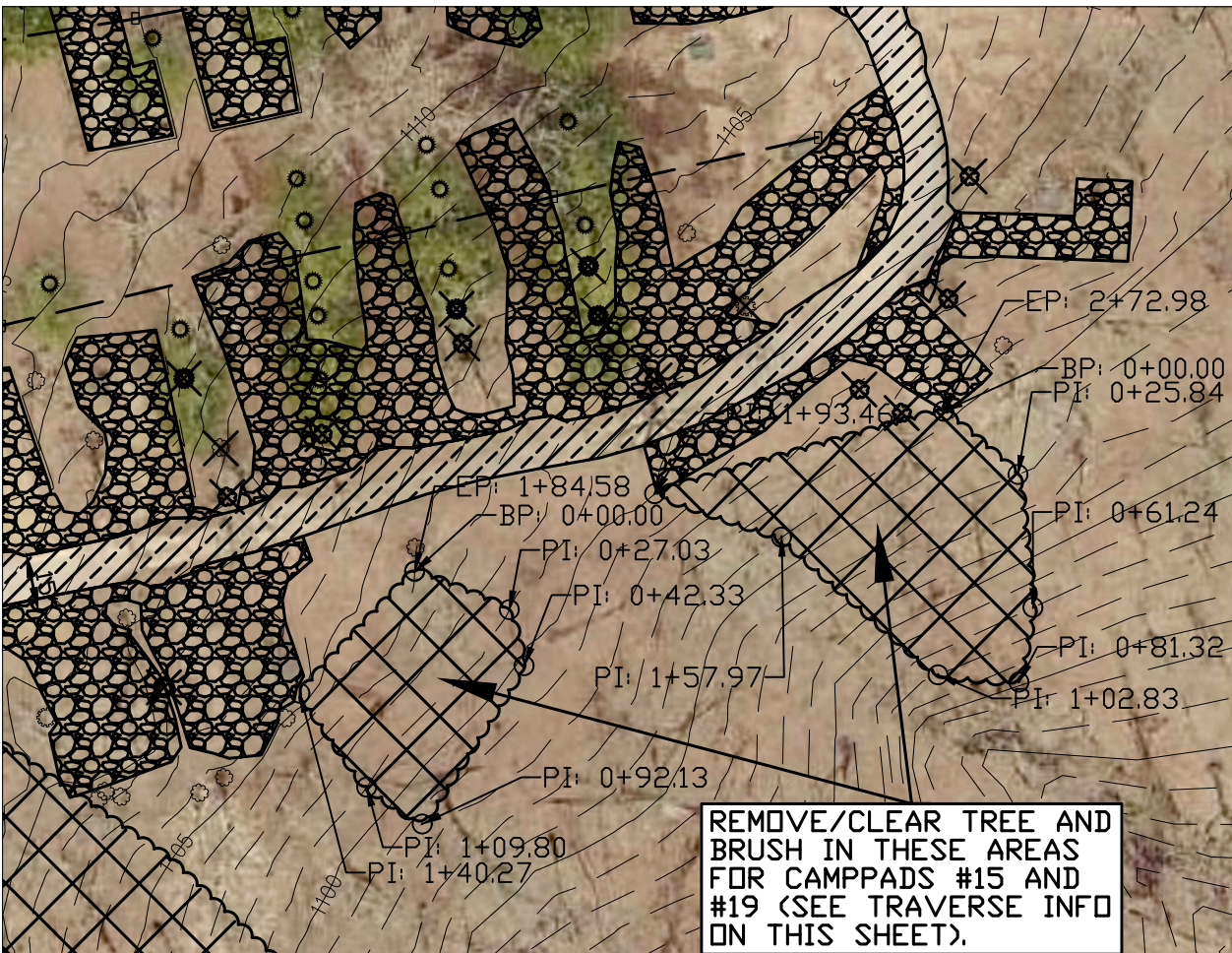
DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHKD BY: DATE:

5/01/2021

SHEET No:



TREE CLEARING TRAVERSE LINE

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	64.43'	S55° 57' 52"E	0+00.00'	0+64.43'	(5545836.9205',3833931.4721')	(5545890.3114',3833895.4112')
2	Line	205.00'	S46° 40' 38"E	0+64.43'	2+69.43'	(5545890.3114',3833895.4112')	(5546039.4520',3833754.7560')
3	Line	11.90'	S0° 03' 01"E	2+69.43'	2+81.33'	(5546039.4520',3833754.7560')	(5546039.4624',3833742.8573')
4	Line	10.76'	S51° 46' 53"W	2+81.33'	2+92.09'	(5546039.4624',3833742.8573')	(5546031.0069',3833736.1990')
5	Line	18.85'	S85° 09' 58"W	2+92.09'	3+10.94'	(5546031.0069',3833736.1990')	(5546012.2249',3833734.6106')
6	Line	21.36'	S7° 39' 16"E	3+10.94'	3+32.30'	(5546012.2249',3833734.6106')	(5546015.0702',3833713.4402')
7	Line	13.87'	N83° 43' 15"E	3+32.30'	3+46.17'	(5546015.0702',3833713.4402')	(5546028.8545',3833714.9569')
8	Line	39.32'	S18° 52' 15"E	3+46.17'	3+85.49'	(5546028.8545',3833714.9569')	(5546041.5721',3833677.7499')
9	Line	71.12'	S9° 20' 59"W	3+85.49'	4+56.62'	(5546041.5721',3833677.7499')	(5546030.0170',3833607.5701')
10	Line	47.32'	S13° 27' 32"E	4+56.62'	5+03.93'	(5546030.0170',3833607.5701')	(5546041.0301',3833561.5521')
11	Line	19.32'	S11° 35' 55"W	5+03.93'	5+23.25'	(5546041.0301',3833561.5521')	(5546037.1463',3833542.6294')
12	Line	22.54'	S63° 47' 33"W	5+23.25'	5+45.80'	(5546037.1463',3833542.6294')	(5546016.9189',3833532.6730')
13	Line	25.76'	S3° 14' 28"E	5+45.80'	5+71.55'	(5546016.9189',3833532.6730')	(5546018.3751',3833506.9578')
14	Line	31.71'	S28° 40' 14"E	5+71.55'	6+03.26'	(5546018.3751',3833506.9578')	(5546033.5863',3833479.1399')
15	Line	22.19'	S2° 55' 38"E	6+03.26'	6+25.44'	(5546033.5863',3833479.1399')	(5546034.7194',3833456.9826')
16	Line	20.02'	S45° 20' 37"W	6+25.44'	6+45.46'	(5546034.7194',3833456.9826')	(5546020.4789',3833442.9119')
17	Line	29.64'	N88° 15' 02"W	6+45.46'	6+75.10'	(5546020.4789',3833442.9119')	(5545990.8569',3833443.8167')
18	Line	41.96'	S41° 15' 50"W	6+75.10'	7+17.05'	(5545990.8569',3833443.8167')	(5545963.1855',3833412.2789')
19	Line	10.85'	N88° 17' 27"W	7+17.05'	7+27.90'	(5545963.1855',3833412.2789')	(5545952.3434',3833412.6025')
20	Line	41.10'	N52° 41' 39"W	7+27.90'	7+69.00'	(5545952.3434',3833412.6025')	(5545919.6555',3833437.5092')
21	Line	66.47'	N9° 12' 49"W	7+69.00'	8+35.46'	(5545919.6555',3833437.5092')	(5545909.0132',3833503.1174')
22	Line	53.90'	N32° 01' 30"W	8+35.46'	8+89.36'	(5545909.0132',3833503.1174')	(5545880.4300',3833548.8154')
23	Line	124.42'	N19° 27' 26"W	8+89.36'	10+13.78'	(5545880.4300',3833548.8154')	(5545838.9861',3833666.1279')
24	Line	265.35'	N0° 26' 46"W	10+13.78'	12+79.13'	(5545838.9861',3833666.1279')	(5545836.9205',3833931.4721')

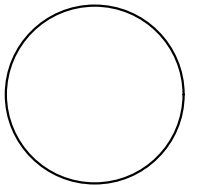
TREE CLEARING TRAVERSE LINE FOR CAMPPAD #15

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	25.84'	S49° 36' 11"E	0+00.00'	0+25.84'	(5546095.5508',3834013.7041')	(5546115.2317',3833996.9561')
2	Line	35.39'	S6° 27' 10"E	0+25.84'	0+61.24'	(5546115.2317',3833996.9561')	(5546119.2094',3833961.7865')
3	Line	20.08'	S10° 36' 45"W	0+61.24'	0+81.32'	(5546119.2094',3833961.7865')	(5546115.5108',3833942.0469')
4	Line	21.51'	N84° 56' 16"W	0+81.32'	1+02.83'	(5546115.5108',3833942.0469')	(5546094.0817',3833943.9451')
5	Line	55.13'	N48° 40' 08"W	1+02.83'	1+57.97'	(5546094.0817',3833943.9451')	(5546052.6817',3833980.3558')
6	Line	35.49'	N71° 07' 04"W	1+57.97'	1+93.46'	(5546052.6817',3833980.3558')	(5546019.0988',3833991.8421')
7	Line	79.52'	N74° 02' 30"E	1+93.46'	2+72.98'	(5546019.0988',3833991.8421')	(5546095.5508',3834013.7041')

TREE CLEARING TRAVERSE LINE FOR CAMPPAD #19

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	27.03'	S67° 53' 33"E	0+00.00'	0+27.03'	(5545955.6018',3833971.3500')	(5545980.6416',3833961.1786')
2	Line	15.30'	S14° 49' 42"E	0+27.03'	0+42.33'	(5545980.6416',3833961.1786')	(5545984.5582',3833946.3846')
3	Line	49.80'	S32° 45' 37"W	0+42.33'	0+92.13'	(5545984.5582',3833946.3846')	(5545957.6088',3833904.5035')
4	Line	17.67'	N56° 32' 11"W	0+92.13'	1+09.80'	(5545957.6088',3833904.5035')	(5545942.8704',3833914.2452')
5	Line	30.47'	N35° 22' 39"W	1+09.80'	1+40.27'	(5545942.8704',3833914.2452')	(5545925.2271',3833939.0924')
6	Line	44.31'	N43° 16' 41"E	1+40.27'	1+84.58'	(5545925.2271',3833939.0924')	(5545955.6018',3833971.3500')

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



DEMOLITION PLAN

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

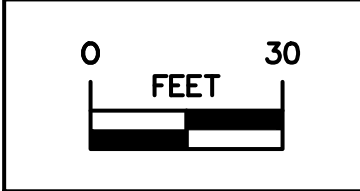
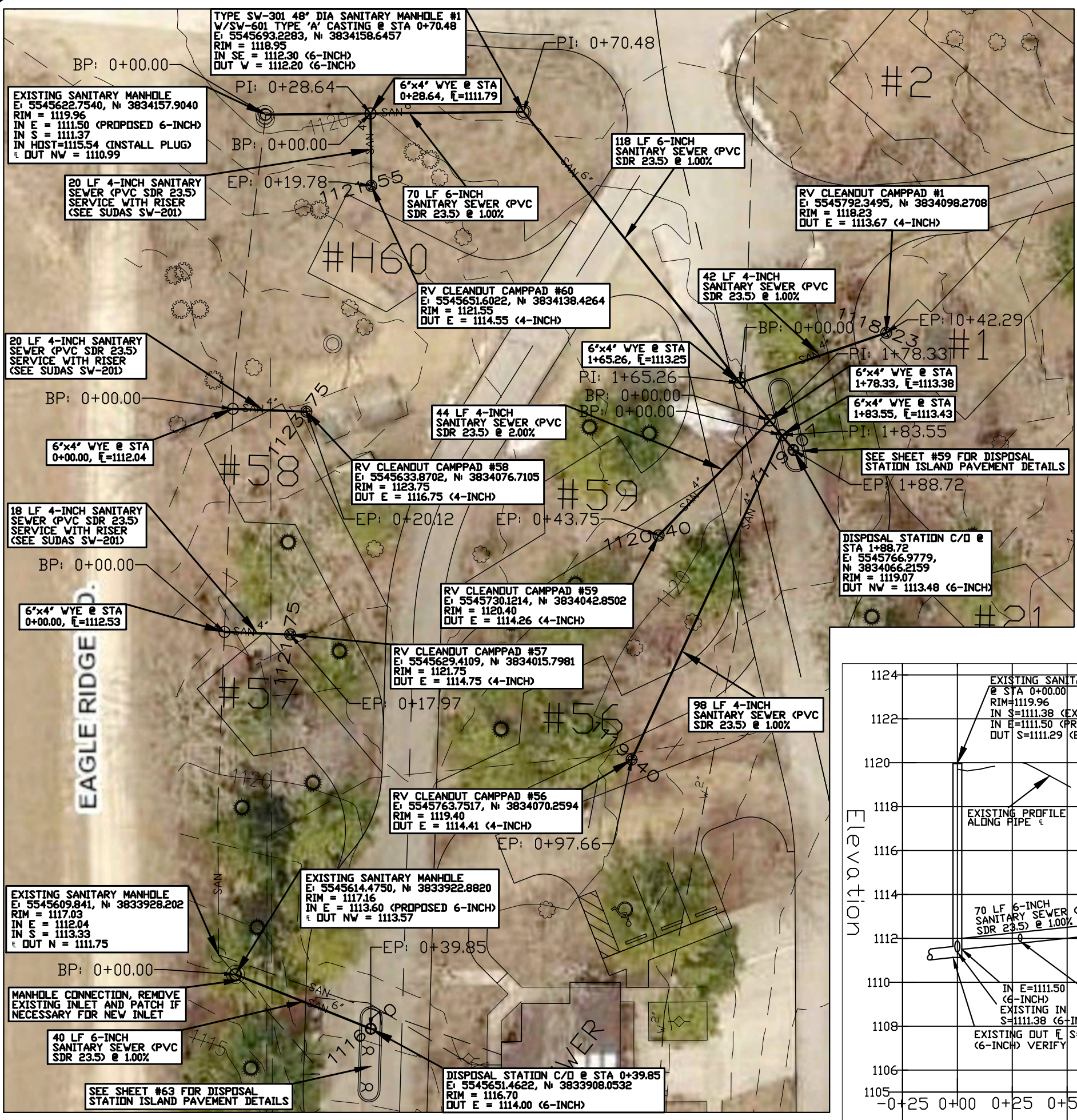
CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

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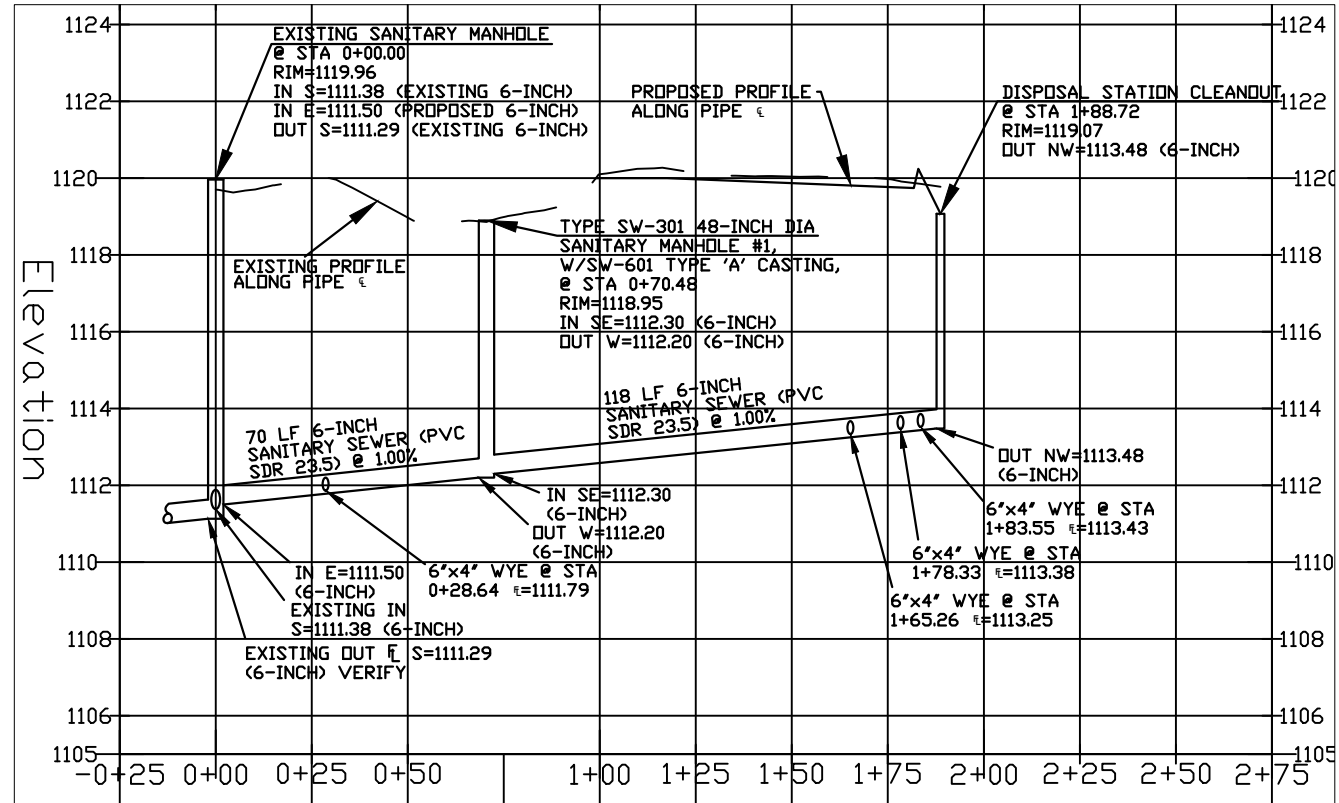
CHKD BY: DATE: 5/01/2021

SHEET No:



- LEGEND**
- EXISTING/PROPOSED
- SAN 6" SANITARY SEWER
 - ST 12" STORM SEWER
 - E ELECTRIC LINE
 - W 2" WATER MAIN
 - MANHOLE/CLEANOUT

- SANITARY SEWER NOTES**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATEWIDE URBAN STANDARD DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS) STANDARDS.
 2. SANITARY SEWER CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED AND USE LINK SEAL CONNECTIONS.
 3. FOR SANITARY SEWER SERVICES THAT WOULD HAVE A SLOPE GREATER THAN 5% USE A SERVICE RISER IN ACCORDANCE WITH SUDAS SW-201.
 4. ALL PVC SDR 23.5 PIPE SHALL BE PRIMED WITH PURPLE PVC PRIMER AND GLUED WITH BLUE PVC GLUE.
 5. SEE SHEET #14 FOR SANITARY SEWER ALIGNMENT CONTROL & RV CLEANOUT AND DISPOSAL STATION CLEANOUT DETAILS.
 6. EXISTING SANITARY SEWER LOCATION SHOWN IS APPROXIMATE, CONTRACTOR TO VERIFY ACTUAL LOCATION OF MAIN FOR WYE INSTALLATIONS.



CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034

SANITARY SEWER PLAN

CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

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21-03-22-01

CHKD BY: DATE:
5/01/2021

SHEET NO: **13**

SANITARY SEWER ALIGNMENT #1 TO DUMPSTATION							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	28.64'	N89° 23' 49"E	0+00.00'	0+28.64'	(5545622.7540', 3834157.9040')	(5545651.3940', 3834158.2054')
2	Line	41.84'	N89° 23' 49"E	0+28.64'	0+70.48'	(5545651.3940', 3834158.2054')	(5545693.2283', 3834158.6457')
3	Line	94.78'	S38° 35' 11"E	0+70.48'	1+65.26'	(5545693.2283', 3834158.6457')	(5545752.3423', 3834084.5586')
4	Line	13.07'	S38° 35' 11"E	1+65.26'	1+78.33'	(5545752.3423', 3834084.5586')	(5545760.4919', 3834074.3448')
5	Line	5.23'	S38° 35' 11"E	1+78.33'	1+83.55'	(5545760.4919', 3834074.3448')	(5545763.7517', 3834070.2594')
6	Line	5.17'	S38° 35' 11"E	1+83.55'	1+88.72'	(5545763.7517', 3834070.2594')	(5545766.9779', 3834066.2159')

SANITARY SEWER SERVICE TO CAMPPAD #60							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	19.78'	S0° 36' 11"E	0+00.00'	0+19.78'	(5545651.3940', 3834158.2054')	(5545651.6022', 3834138.4264')

SANITARY SEWER SERVICE TO CAMPPAD #59							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	43.75'	S43° 57' 32"W	0+00.00'	0+43.75'	(5545760.4919', 3834074.3448')	(5545730.1214', 3834042.8502')

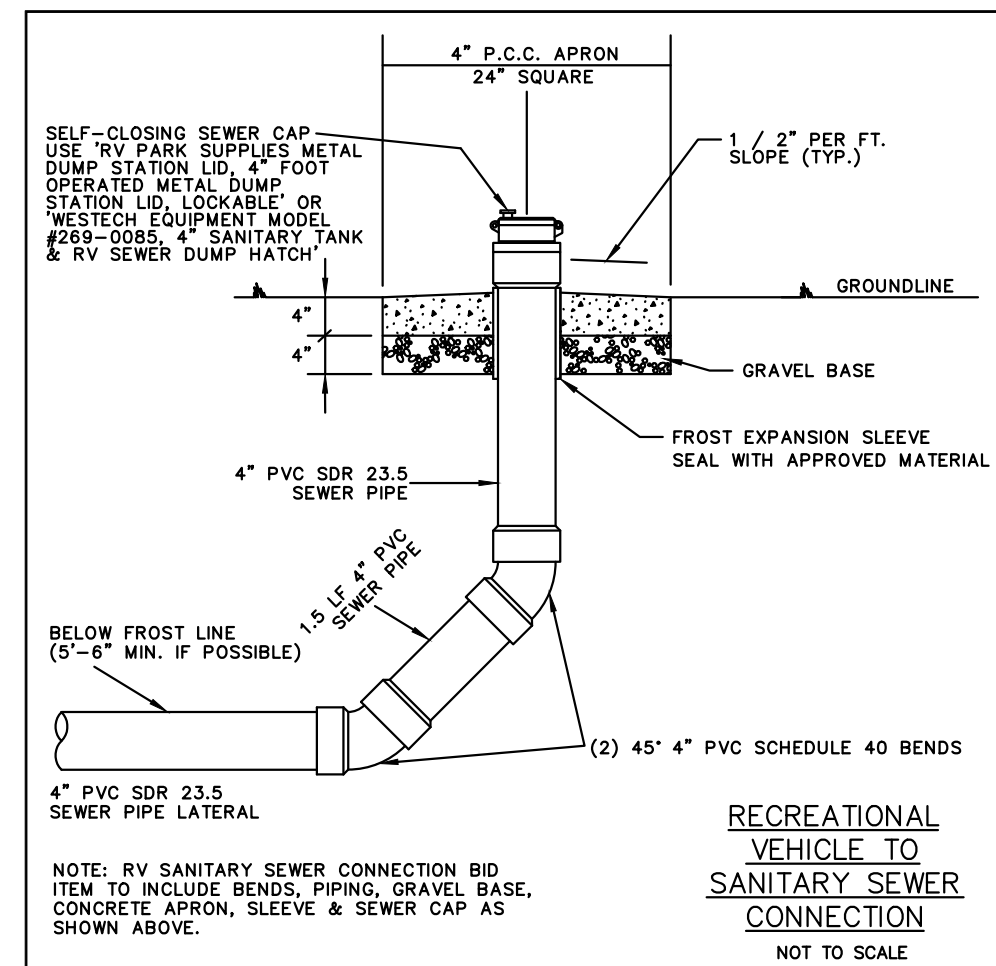
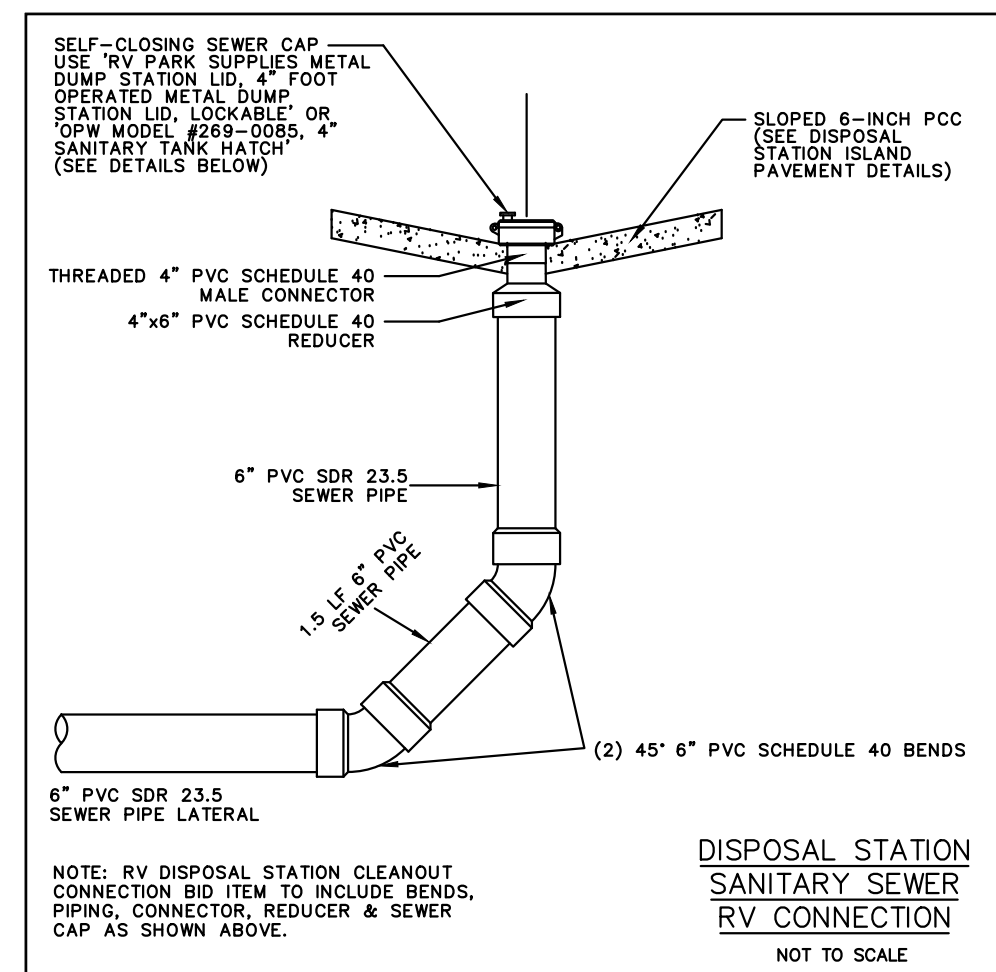
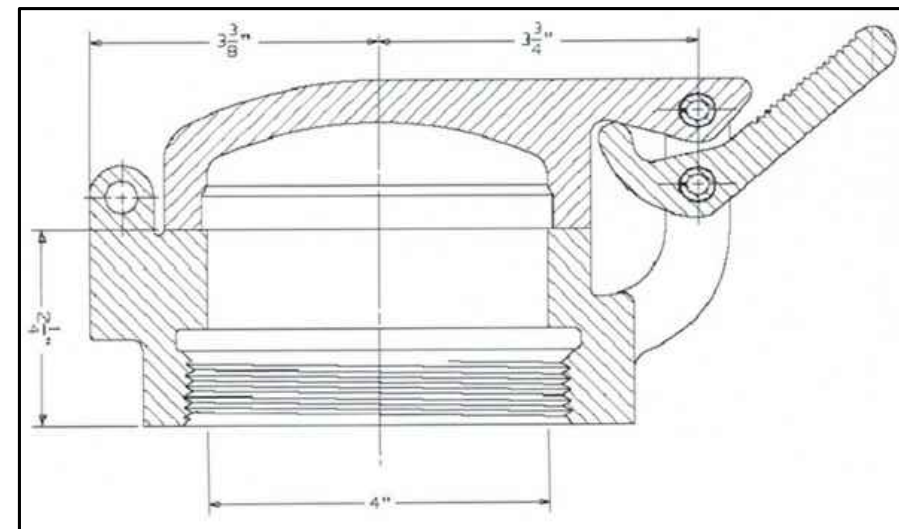
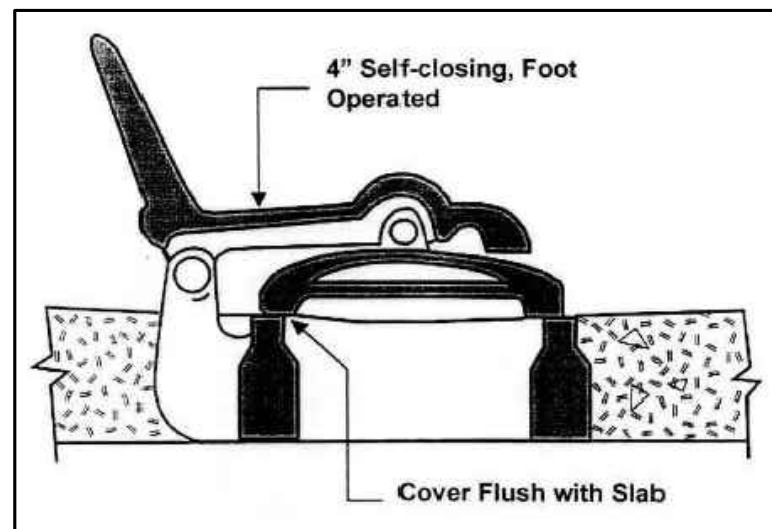
SANITARY SEWER SERVICE TO CAMPPAD #58							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	20.12'	S87° 49' 51"E	0+00.00'	0+20.12'	(5545613.7689', 3834077.4719')	(5545633.8702', 3834076.7105')

SANITARY SEWER SERVICE TO CAMPPAD #57							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	17.97'	S87° 49' 51"E	0+00.00'	0+17.97'	(5545611.4586', 3834016.4781')	(5545629.4109', 3834015.7981')

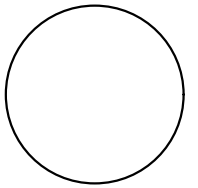
SANITARY SEWER SERVICE TO CAMPPAD #56							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	97.66'	S24° 49' 47"W	0+00.00'	0+97.66'	(5545763.7517', 3834070.2594')	(5545722.7436', 3833981.6305')

SANITARY SEWER SERVICE TO CAMPPAD #1							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	42.29'	N71° 04' 52"E	0+00.00'	0+42.29'	(5545752.3423', 3834084.5586')	(5545792.3495', 3834098.2708')

SANITARY SEWER ALIGNMENT #2 TO DUMPSTATION							
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	39.85'	S68° 09' 12"E	0+00.00'	0+39.85'	(5545614.4750', 3833922.8820')	(5545651.4622', 3833908.0532')



CONSULTANT:



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ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



SANITARY SEWER DETAILS

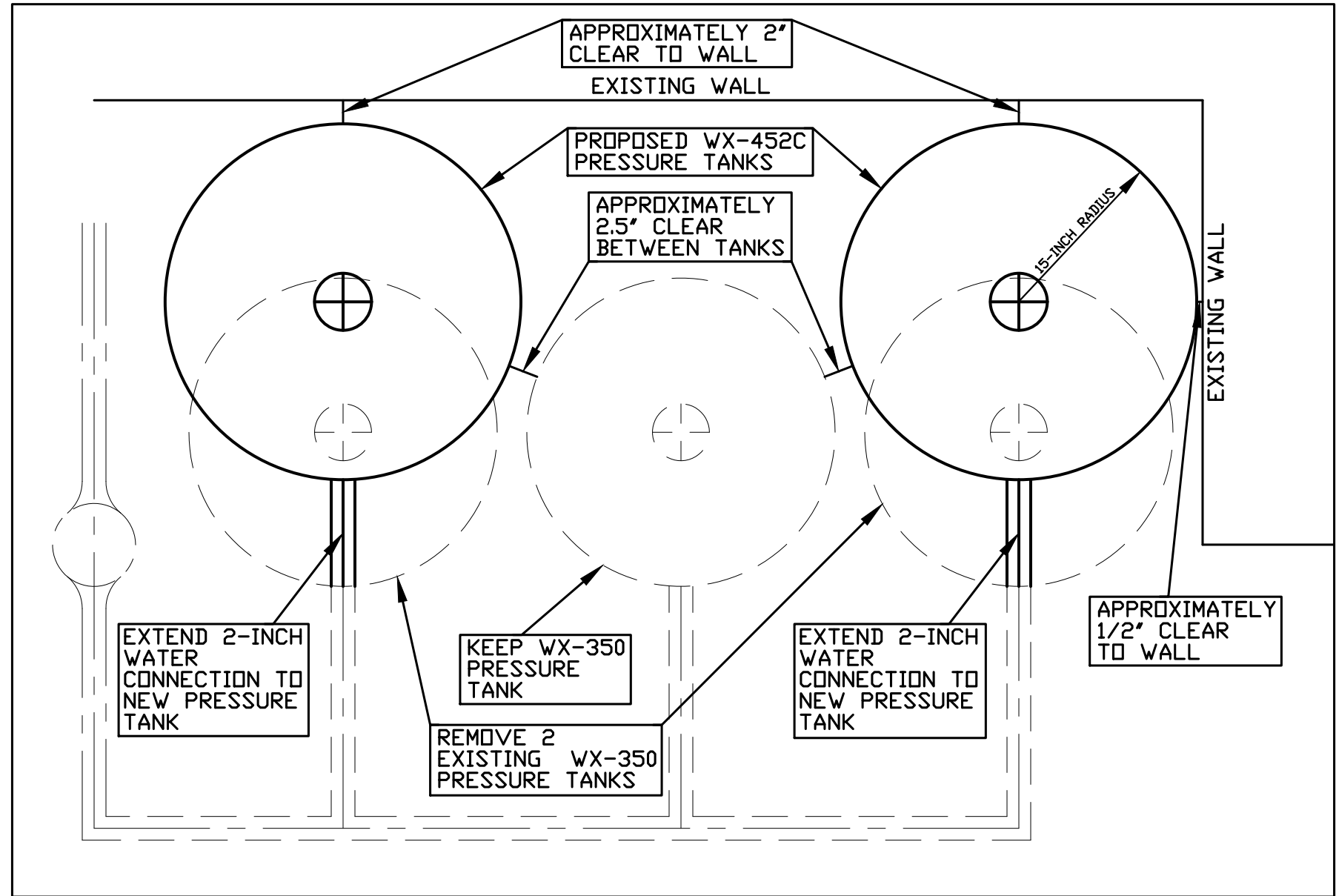
CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND
UPGRADE PROJECT
CLAYTON COUNTY, IOWA

NO.	BY	REVISION

DRAWN BY: PROJECT NUMBER:
21-03-22-01

CHKD BY: DATE:
5/01/2021

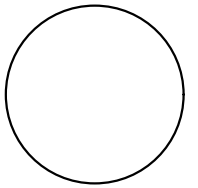
SHEET No:



PRESSURE TANK CONSTRUCTION NOTES

1. CONTRACTOR TO REMOVE 2 EXISTING WX-350 PRESSURE TANKS. CONTRACTOR MAY WANT TO ALSO TEMPORARILY REMOVE MIDDLE WX-350 PRESSURE TANK IN ORDER TO GAIN MORE ROOM FOR THE INSTALLATION OF THE 2 NEW WX-452C PRESSURE TANKS AND THEN RECONNECT THE MIDDLE TANK. CONTRACTOR TO DISPOSE OF THE 2 OLD TANKS.
2. CONTRACTOR TO EXTEND THE 2-INCH WATER CONNECTIONS TO THE 2 NEW TANKS.
3. CONTRACTOR TO CONTACT THE PARK RANGER FOR ACCESS; MATT TSCHIRGI (563) 873-2341
4. THERE IS A BID ITEM FOR THE PRESSURE TANK INSTALLATION AND REMOVAL OF OLD TANKS. BID ITEM TO INCLUDE ALL NECESSARY PIPING AND CONNECTORS THAT ARE NEEDED FOR INSTALLATION.

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502 E. 9TH ST., DES MOINES, IA 50319-0034



WATER PLAN-PRESSURE TANKS

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

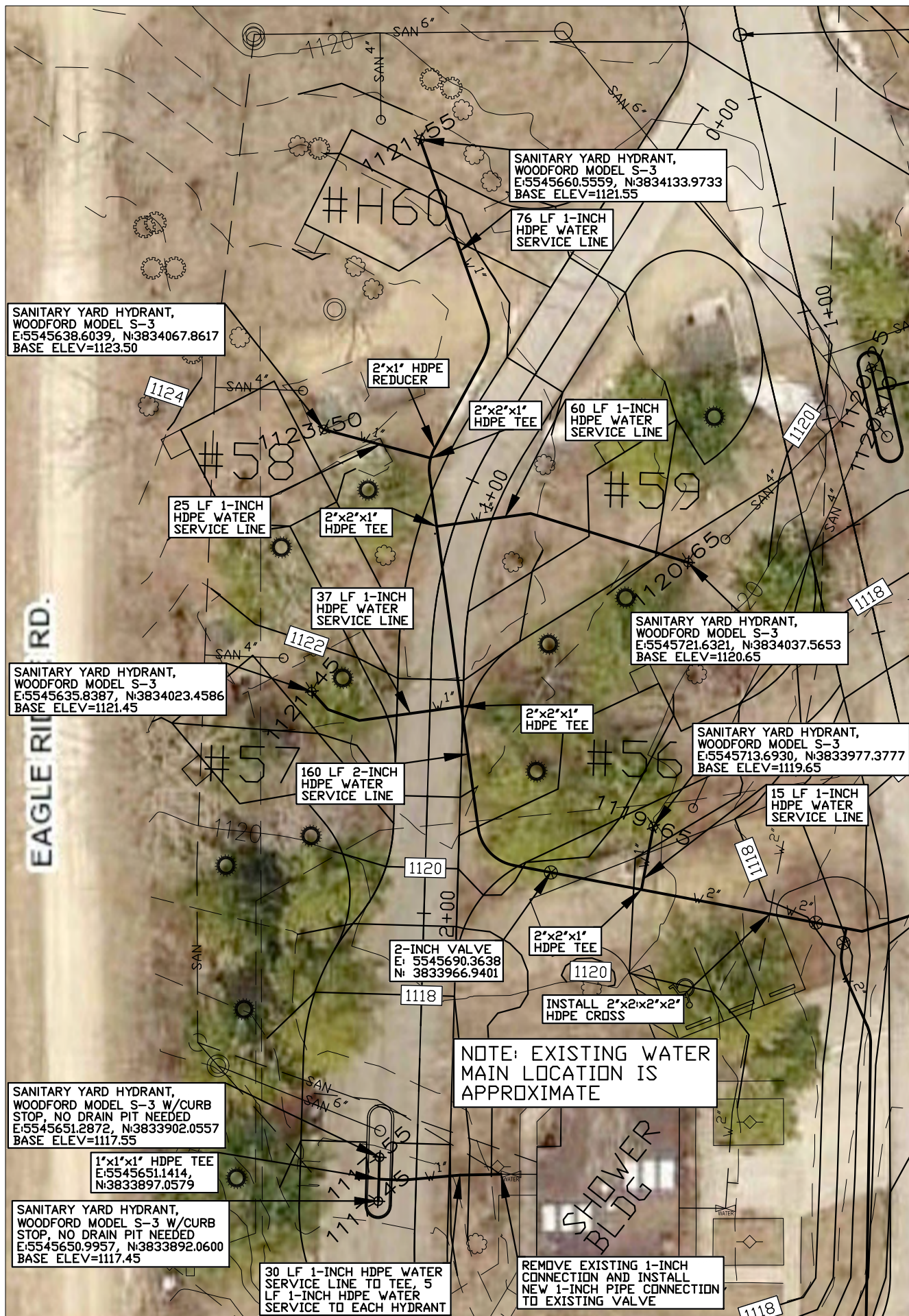
CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER:
21-03-22-01

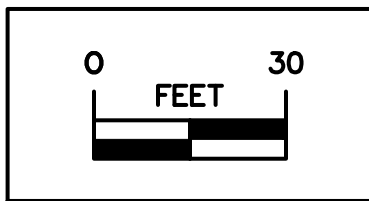
CHKD BY: DATE:
5/01/2021

SHEET No:



LEGEND

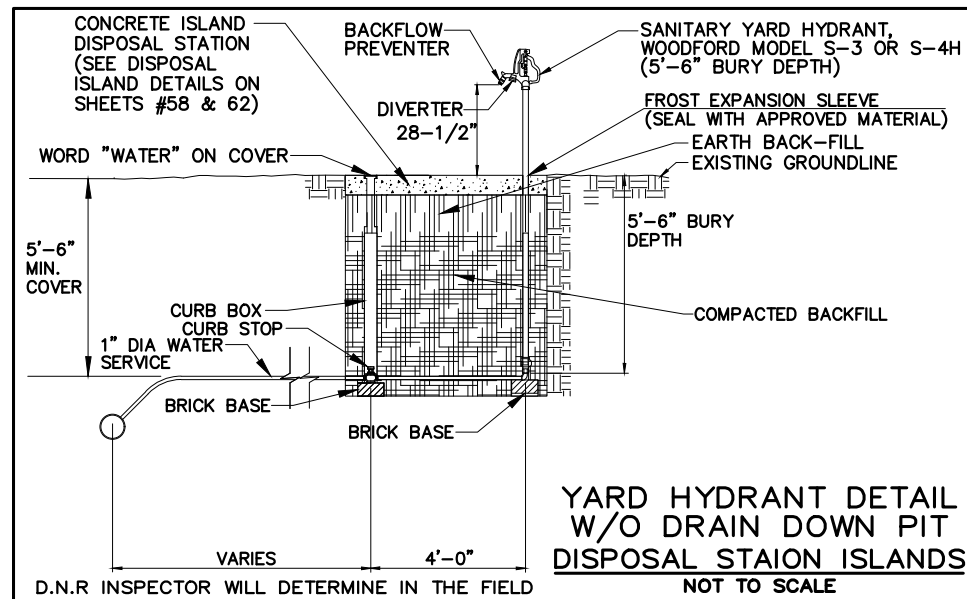
- EXISTING/PROPOSED**
- SAN 6" — SANITARY SEWER
 - ST 12" — STORM SEWER
 - E — ELECTRIC LINE
 - W 2" — WATER MAIN
 - ● MANHOLE/CLEANOUT
 - ⊘ ⊘ HYDRANT
 - ⊗ VALVE



SEE SHEET #18 FOR CONTINUATION

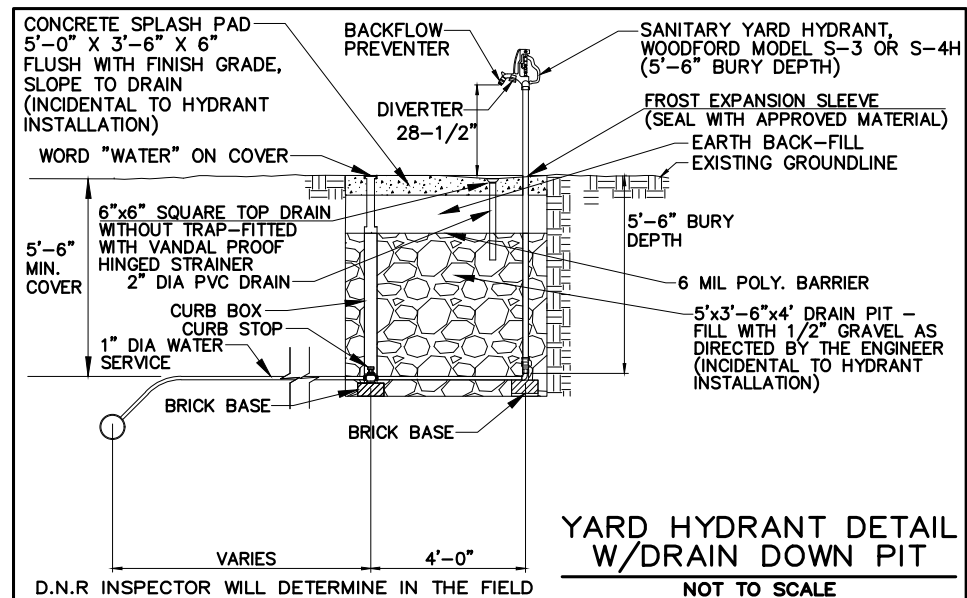
SEE SHEET #19 FOR CONTINUATION

PROFILE VIEW



NOTE: YARD HYDRANT BID ITEM IS TO INCLUDE ALL ITEMS SHOWN IN DETAIL: CURB STOP & BOX, ETC.

PROFILE VIEW



NOTE: YARD HYDRANT BID ITEM IS TO INCLUDE ALL ITEMS SHOWN IN DETAIL: DRAIN ASSEMBLY, DRAIN PIT, 2.0 SY PCC SLAB, CURB STOP & BOX, ETC.

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502 E. 9TH ST., DES MOINES, IA 50319-0034



WATER PLAN

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHKD BY: DATE:









5/01/2021

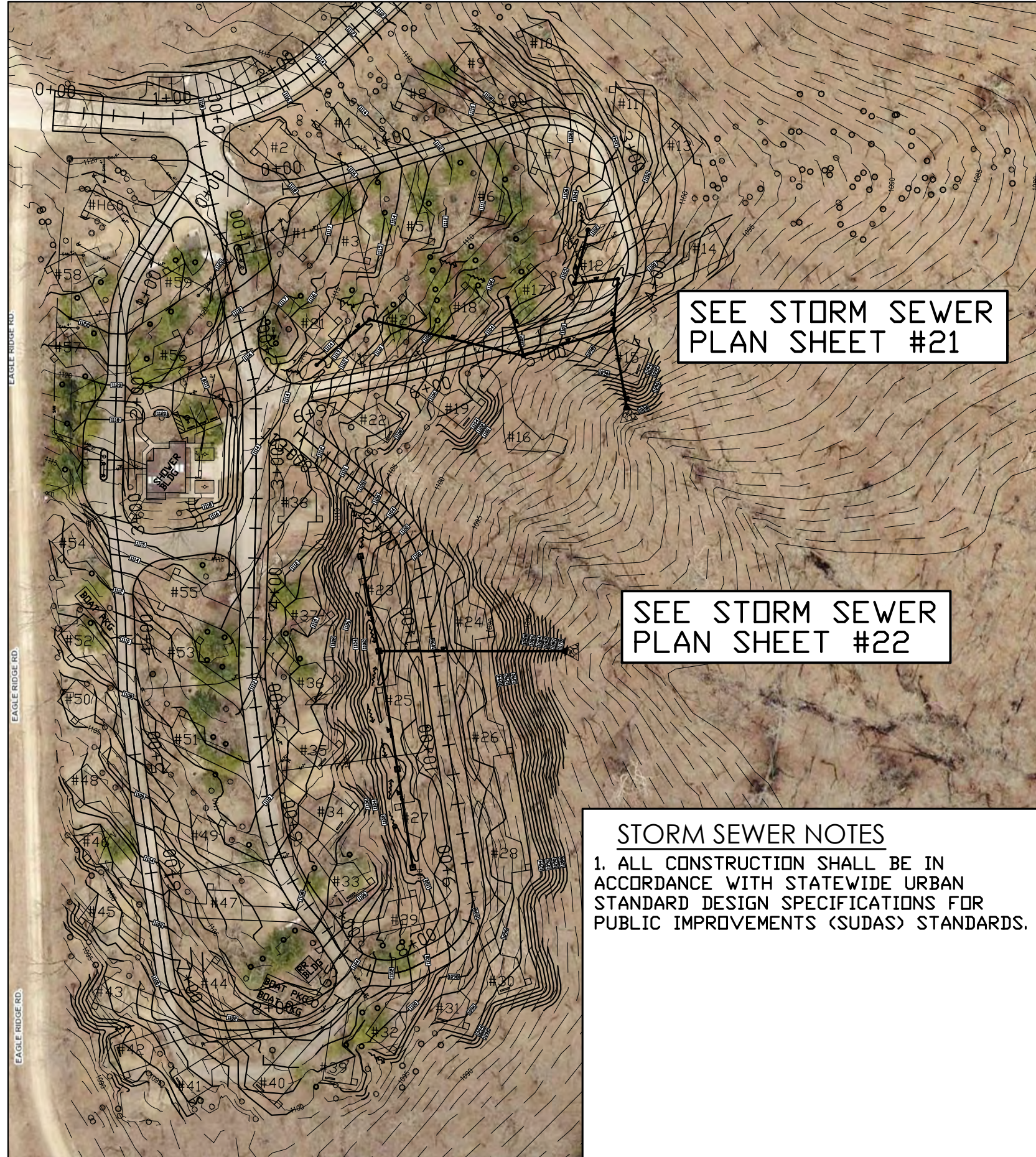
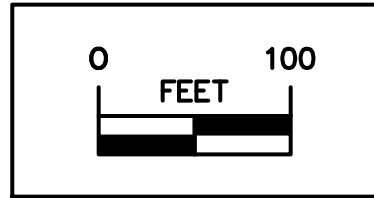
SHEET No:

17

LEGEND

EXISTING/PROPOSED

-  SAN 8" SANITARY SEWER
-  ST 15" STORM SEWER
-  E ELECTRIC LINE
-  W 2" WATER MAIN
-  MANHOLE/CLEANOUT
-  HYDRANT
-  VALVE
-  INTAKE

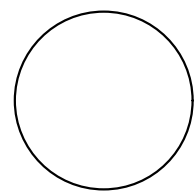


SEE STORM SEWER
PLAN SHEET #21

SEE STORM SEWER
PLAN SHEET #22

STORM SEWER NOTES
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATEWIDE URBAN STANDARD DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS) STANDARDS.

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502 E. 9TH ST., DES MOINES, IA 50319-0034



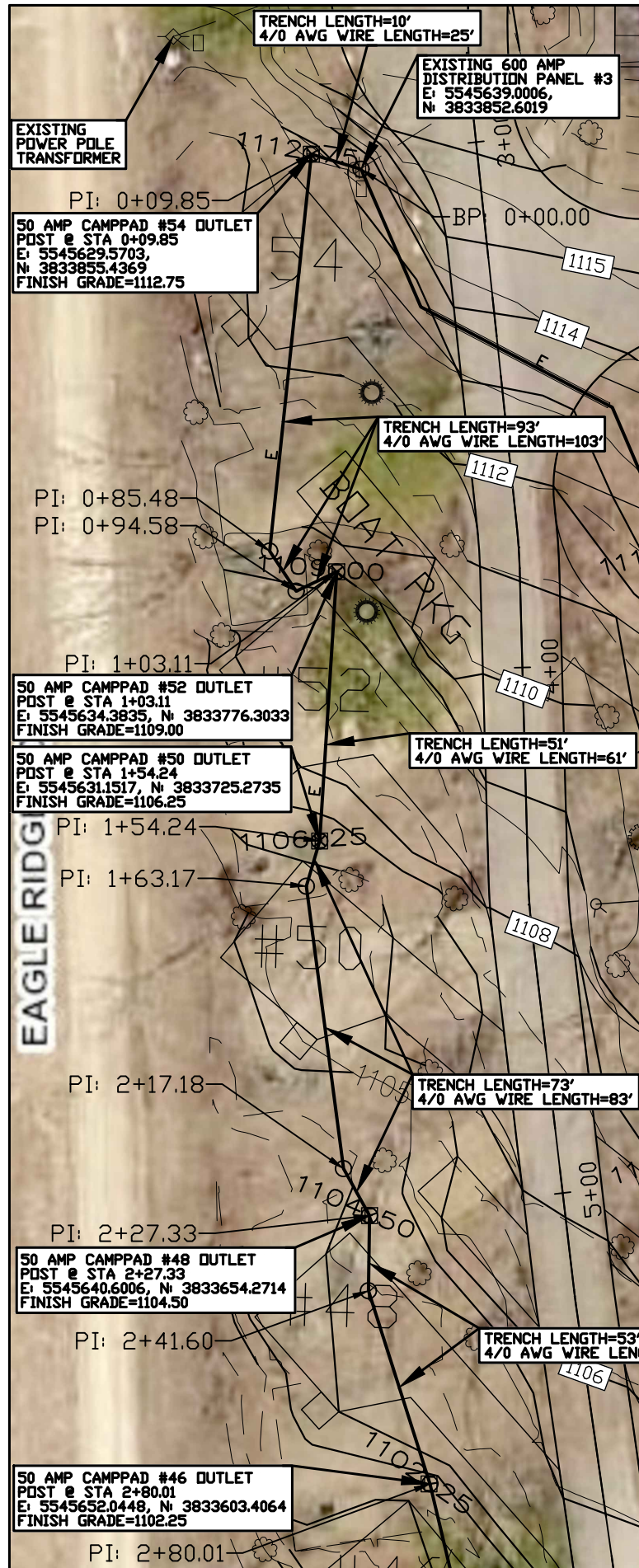
OVERALL STORM SEWER PLAN

CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND
UPGRADE PROJECT
CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER:
21-03-22-01
CHKD BY: DATE:
5/01/2021

SHEET No: **20**

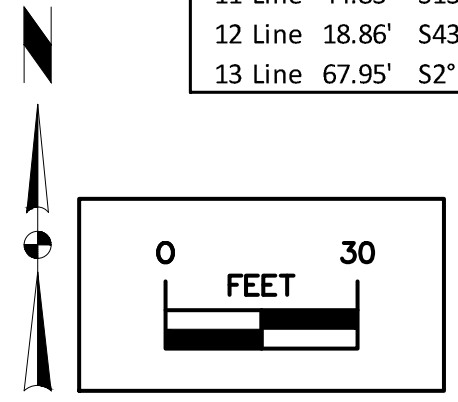


SEE SHEET #31 FOR CIRCUIT #8

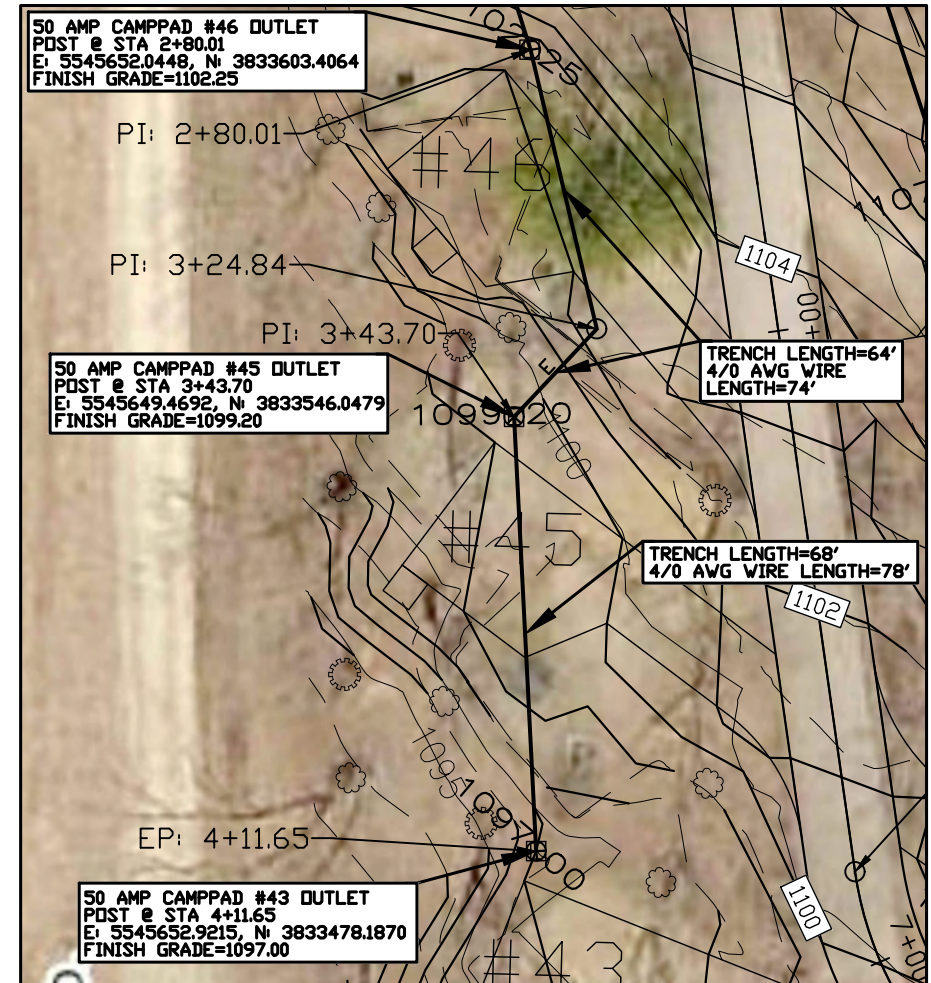
SEE VIEWPORT TO THE RIGHT FOR CONTINUATION

ELECTRICAL CIRCUIT #7 ALIGNMENT

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point	Camppad #
1	Line	9.85'	N73° 16' 05"W	0+00.00'	0+09.85'	(5545639.0006', 3833852.6019')	(5545629.5703', 3833855.4369')	54
2	Line	75.63'	S5° 59' 02"W	0+09.85'	0+85.48'	(5545629.5703', 3833855.4369')	(5545621.6859', 3833780.2192')	
3	Line	9.10'	S33° 21' 59"E	0+85.48'	0+94.58'	(5545621.6859', 3833780.2192')	(5545626.6898', 3833772.6206')	52
4	Line	8.53'	N64° 25' 14"E	0+94.58'	1+03.11'	(5545626.6898', 3833772.6206')	(5545634.3835', 3833776.3033')	50
5	Line	51.13'	S3° 37' 25"W	1+03.11'	1+54.24'	(5545634.3835', 3833776.3033')	(5545631.1517', 3833725.2735')	48
6	Line	8.94'	S16° 21' 54"W	1+54.24'	1+63.17'	(5545631.1517', 3833725.2735')	(5545628.6340', 3833716.6999')	46
7	Line	54.00'	S7° 29' 57"E	1+63.17'	2+17.18'	(5545628.6340', 3833716.6999')	(5545635.6824', 3833663.1571')	45
8	Line	10.16'	S28° 57' 52"E	2+17.18'	2+27.33'	(5545635.6824', 3833663.1571')	(5545640.6006', 3833654.2714')	44
9	Line	14.26'	S0° 47' 43"W	2+27.33'	2+41.60'	(5545640.6006', 3833654.2714')	(5545640.4026', 3833640.0105')	43
10	Line	38.41'	S17° 38' 37"E	2+41.60'	2+80.01'	(5545640.4026', 3833640.0105')	(5545652.0448', 3833603.4064')	
11	Line	44.83'	S13° 21' 09"E	2+80.01'	3+24.84'	(5545652.0448', 3833603.4064')	(5545662.3986', 3833559.7850')	
12	Line	18.86'	S43° 15' 54"W	3+24.84'	3+43.70'	(5545662.3986', 3833559.7850')	(5545649.4692', 3833546.0479')	
13	Line	67.95'	S2° 54' 44"E	3+43.70'	4+11.65'	(5545649.4692', 3833546.0479')	(5545652.9215', 3833478.1870')	



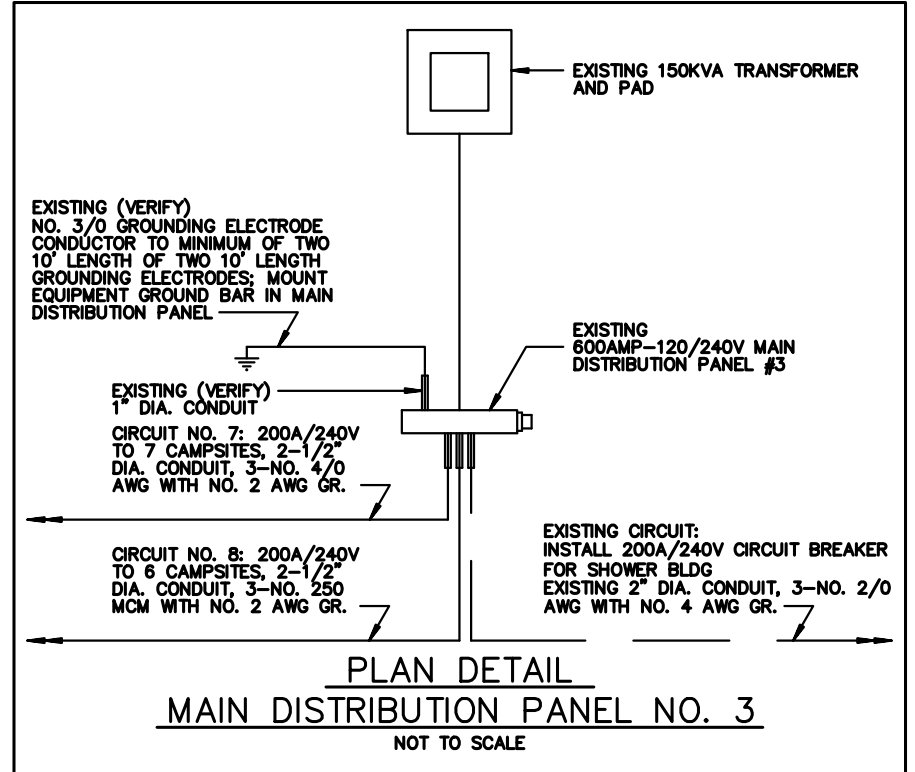
SEE VIEWPORT TO THE LEFT FOR CONTINUATION



LEGEND

EXISTING/PROPOSED

- SAN 6" — SANITARY SEWER
- ST 12" — STORM SEWER
- E — ELECTRIC LINE
- W 2" — WATER MAIN
- — MANHOLE/CLEANOUT
- — HYDRANT
- ⊗ — VALVE
- — INTAKE



CONSULTANT:

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ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034

DNR

ELECTRICAL PLAN CIRCUIT #7

CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

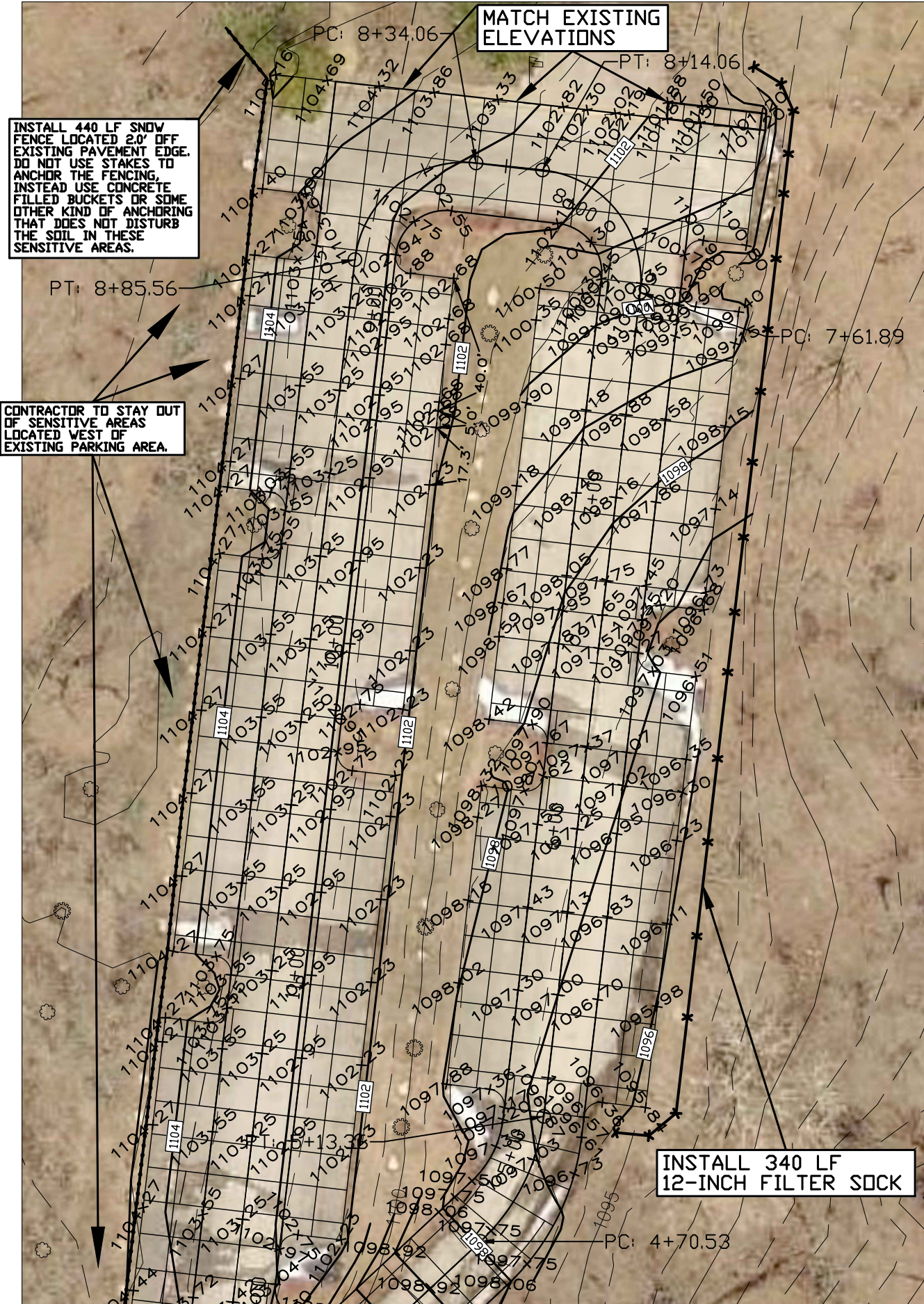
NO.	DATE	REVISION

PROJECT NUMBER: 21-03-22-01

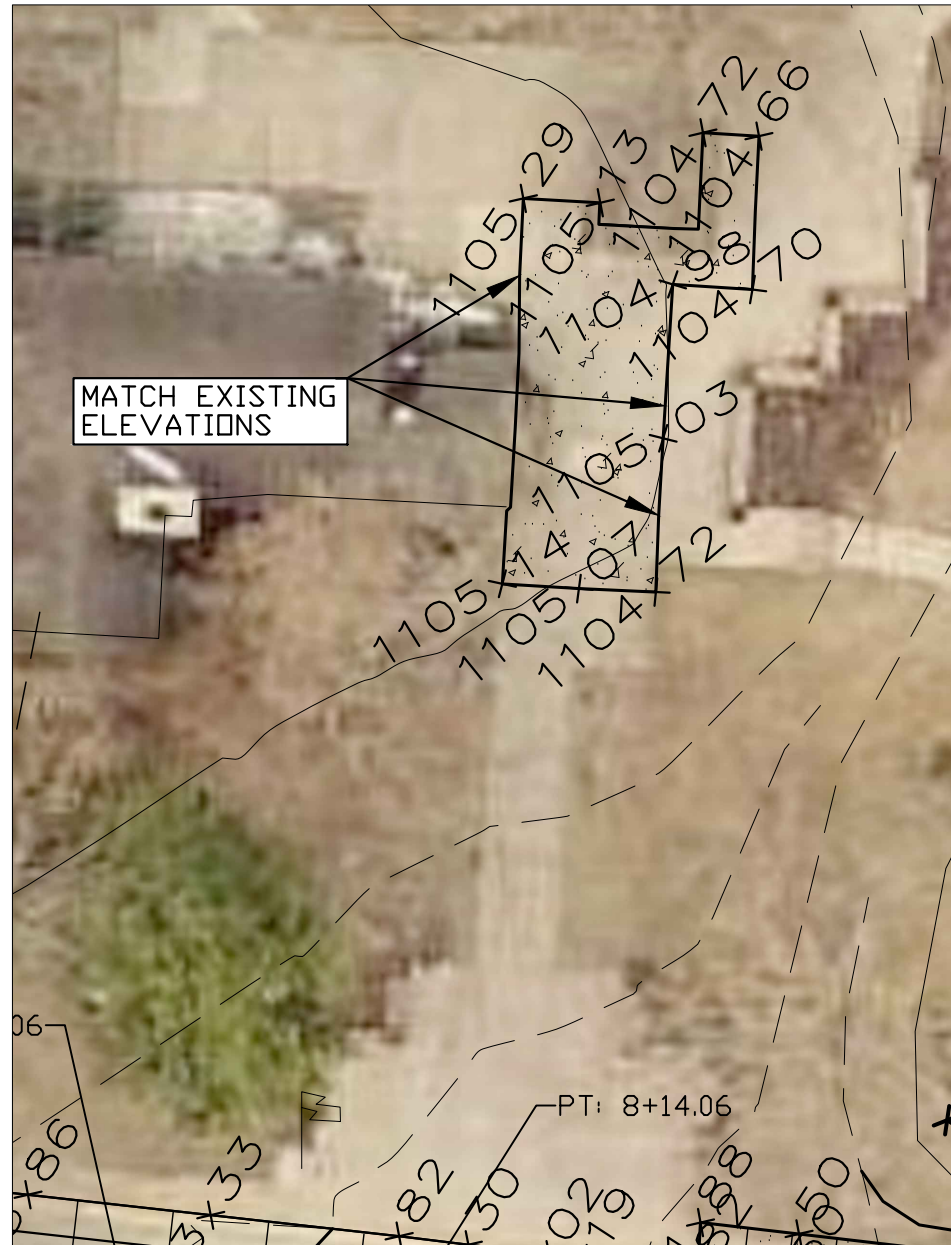
DATE: 5/01/2021

SHEET NO: **30**

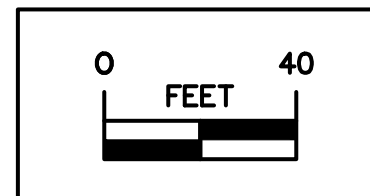
SEE ADJACENT FOR CONTINUATION



SEE SHEET #38 FOR CONTINUATION



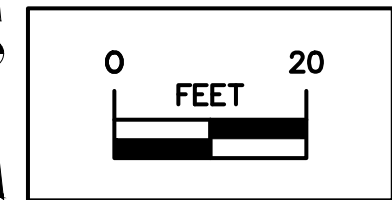
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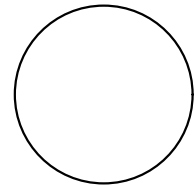
LEGEND

EXISTING/PROPOSED

- SAN 6" — SANITARY SEWER
- ST 12" — STORM SEWER
- E — ELECTRIC LINE
- W 2" — WATER MAIN
- ● MANHOLE/CLEANOUT
- ⊕ ♂ HYDRANT
- ⊗ ⊗ VALVE
- 990 990 ELEVATION
- 1144x50 SPOT ELEVATION
- x-x-x-x-x- FILTER SOCK
- ~> DRAINAGE SWALE



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ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



GRADING PLAN

CONSTRUCTION PROJECT FOR:

**PIKES PEAK CAMPGROUND
UPGRADE PROJECT**

CLAYTON COUNTY, IOWA

NO. BY REVISION

DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHK'D BY: DATE:

5/01/2021

SHEET No:

39

GRAVEL PARKING AREA #1 EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point
1	Line	25.00'		S74° 33' 46"W	0+00.00'	0+25.00'				(5546081.6060',3834113.7588',1102.38')	(5546057.5080',3834107.1043',1103.10')
2	Line	20.00'		N15° 26' 14"W	0+25.00'	0+45.00'				(5546057.5080',3834107.1043',1103.10')	(5546052.1843',3834126.3827',1103.90')
3	Line	25.00'		N74° 33' 46"E	0+45.00'	0+70.00'				(5546052.1843',3834126.3827',1103.90')	(5546076.2824',3834133.0373',1103.17')

GRAVEL PARKING AREA #2 EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	20.00'		N74° 33' 46"E	0+00.00'	0+20.00'				(5546101.5131',3834098.0218',1101.27')	(5546120.7916',3834103.3455',1100.75')	
2	Line	5.11'		S15° 26' 14"E	0+20.00'	0+25.11'				(5546120.7916',3834103.3455',1100.75')	(5546122.1523',3834098.4178',1100.60')	
3	Curve	19.48'	85.00'		0+25.11'	0+44.59'	13.1278 (d)	19.43'	S8° 52' 24"E	(5546122.1523',3834098.4178',1100.60')	(5546125.1499',3834079.2174',1100.00')	(5546040.2189',3834075.7923')
4	Line	20.00'		S87° 41' 26"W	0+44.59'	0+64.59'				(5546125.1499',3834079.2174',1100.00')	(5546105.1661',3834078.4115',1100.55')	

GRAVEL PARKING AREA #3 EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point
1	Line	15.00'		S51° 40' 44"E	0+00.00'	0+15.00'				(5545683.4676',3833669.4039',1107.47')	(5545695.2358',3833660.1028',1107.85')
2	Line	15.00'		S51° 40' 44"E	0+15.00'	0+30.00'				(5545695.2358',3833660.1028',1107.85')	(5545707.0040',3833650.8018',1108.25')
3	Line	10.00'		S38° 19' 16"W	0+30.00'	0+40.00'				(5545707.0040',3833650.8018',1108.25')	(5545700.8033',3833642.9563',1108.00')
4	Line	20.00'		N51° 40' 44"W	0+40.00'	0+60.00'				(5545700.8033',3833642.9563',1108.00')	(5545685.1123',3833655.3577',1107.17')

GRAVEL PARKING AREA #4 EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point
1	Line	30.31'		S51° 40' 44"E	0+00.00'	0+30.31'				(5545686.3059',3833645.1648',1106.86')	(5545710.0887',3833626.3679',1107.35')
2	Line	10.00'		S38° 19' 16"W	0+30.31'	0+40.31'				(5545710.0887',3833626.3679',1107.35')	(5545703.8880',3833618.5224',1106.85')
3	Line	20.00'		N51° 40' 44"W	0+40.31'	0+60.31'				(5545703.8880',3833618.5224',1106.85')	(5545688.1971',3833630.9238',1106.34')

GRAVEL PARKING AREA #5 EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point
1	Line	14.49'		N41° 40' 44"W	0+00.00'	0+14.49'				(5545672.7355',3833633.1191',1106.20')	(5545663.0990',3833643.9430',1106.50')
2	Line	20.00'		N41° 40' 44"W	0+14.49'	0+34.49'				(5545663.0990',3833643.9430',1106.50')	(5545649.7999',3833658.8807',1105.75')
3	Line	10.00'		N48° 19' 16"E	0+34.49'	0+44.49'				(5545649.7999',3833658.8807',1105.75')	(5545657.2688',3833665.5302',1106.00')
4	Line	20.00'		S41° 40' 44"E	0+44.49'	0+64.49'				(5545657.2688',3833665.5302',1106.00')	(5545670.5678',3833650.5925',1106.78')

GRAVEL PARKING AREA #6 EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point
1	Line	30.50'		S51° 40' 44"E	0+00.00'	0+30.50'				(5545694.6715',3833585.2840',1104.65')	(5545718.5996',3833566.3723',1105.10')
2	Line	10.00'		S38° 19' 16"W	0+30.50'	0+40.50'				(5545718.5996',3833566.3723',1105.10')	(5545712.3989',3833558.5268',1104.90')
3	Line	20.00'		N51° 40' 44"W	0+40.50'	0+60.50'				(5545712.3989',3833558.5268',1104.90')	(5545696.7080',3833570.9282',1104.12')

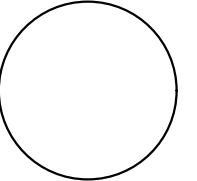
GRAVEL BOAT PARKING AREA WEST SIDE OF WEST ROAD

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	16.77'	25.00'		0+00.00'	0+16.77'	38.4233 (d)	16.45'	N20° 47' 17"W	(5545662.5334',3833740.5749',1109.20')	(5545656.6941',3833755.9566',1110.00')	(5545637.5430',3833739.8872')
2	Line	6.42'		N40° 00' 00"W	0+16.77'	0+23.18'				(5545656.6941',3833755.9566',1110.00')	(5545652.5701',3833760.8714',1110.10')	
3	Line	13.97'		N40° 00' 00"W	0+23.18'	0+37.15'				(5545652.5701',3833760.8714',1110.10')	(5545643.5917',3833771.5714',1109.50')	
4	Line	26.03'		N40° 00' 00"W	0+37.15'	0+63.18'				(5545643.5917',3833771.5714',1109.50')	(5545626.8586',3833791.5132',1110.40')	
5	Line	12.00'		N50° 00' 00"E	0+63.18'	0+75.18'				(5545626.8586',3833791.5132',1110.40')	(5545636.0511',3833799.2267',1110.80')	
6	Line	26.53'		S40° 00' 00"E	0+75.18'	1+01.71'				(5545636.0511',3833799.2267',1110.80')	(5545653.1038',3833778.9040',1110.00')	
7	Line	13.47'		S40° 00' 00"E	1+01.71'	1+15.18'				(5545653.1038',3833778.9040',1110.00')	(5545661.7626',3833768.5849',1110.57')	

GRAVEL BOAT PARKING AREA SOUTH SIDE OF WEST ROAD

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	40.17'		N66° 00' 04"W	0+00.00'	0+40.17'				(5545815.8698',3833438.5108',1103.50')	(5545779.1751',3833454.8475',1104.75')	
2	Line	22.00'		N23° 59' 56"E	0+40.17'	0+62.17'				(5545779.1751',3833454.8475',1104.75')	(5545788.1229',3833474.9457',1105.50')	
3	Line	40.00'		S66° 00' 04"E	0+62.17'	1+02.17'				(5545788.1229',3833474.9457',1105.50')	(5545824.6650',3833458.6769',1104.35')	
4	Curve	30.22'	15.00'		1+02.17'	1+32.39'	115.4375 (d)	25.36'	N56° 16' 49"E	(5545824.6650',3833458.6769',1104.35')	(5545845.7611',3833472.7567',1104.47')	(5545830.7658',3833472.3802')

CONSULTANT:



**IOWA DEPARTMENT OF
NATURAL RESOURCES**

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



GRAVEL PARKING AREA CONTROL

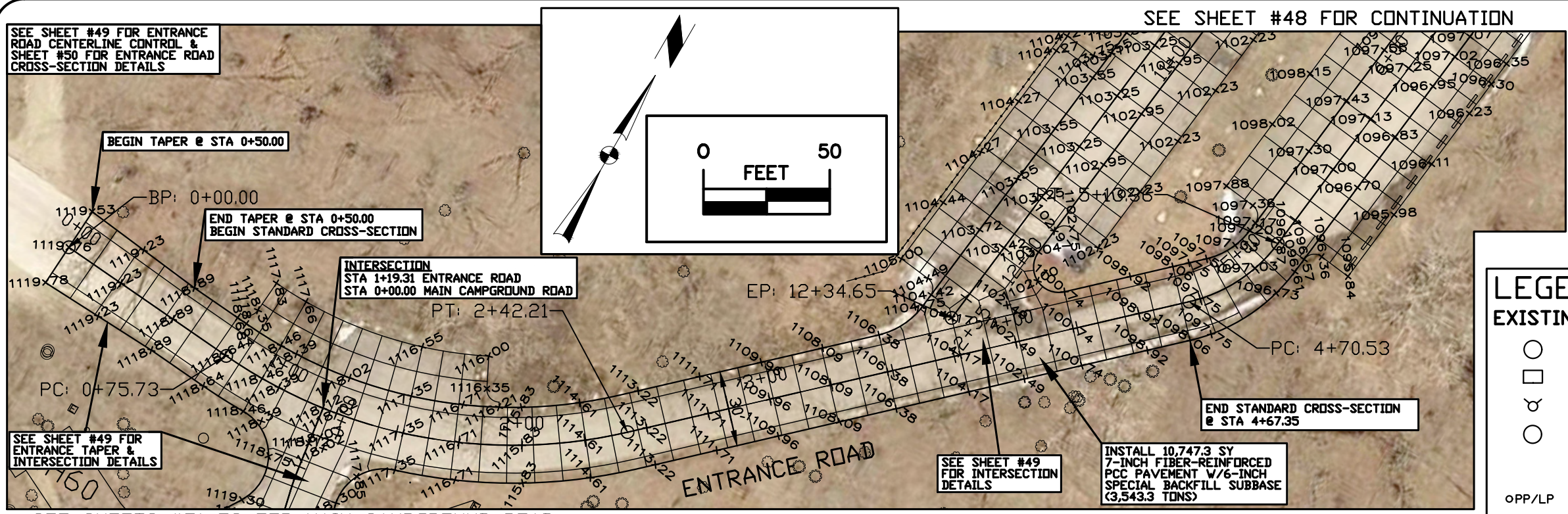
CONSTRUCTION PROJECT FOR:
**PIKES PEAK CAMPGROUND
UPGRADE PROJECT**
CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
21-03-22-01

CHKD BY: DATE:
5/01/2021

SHEET No:

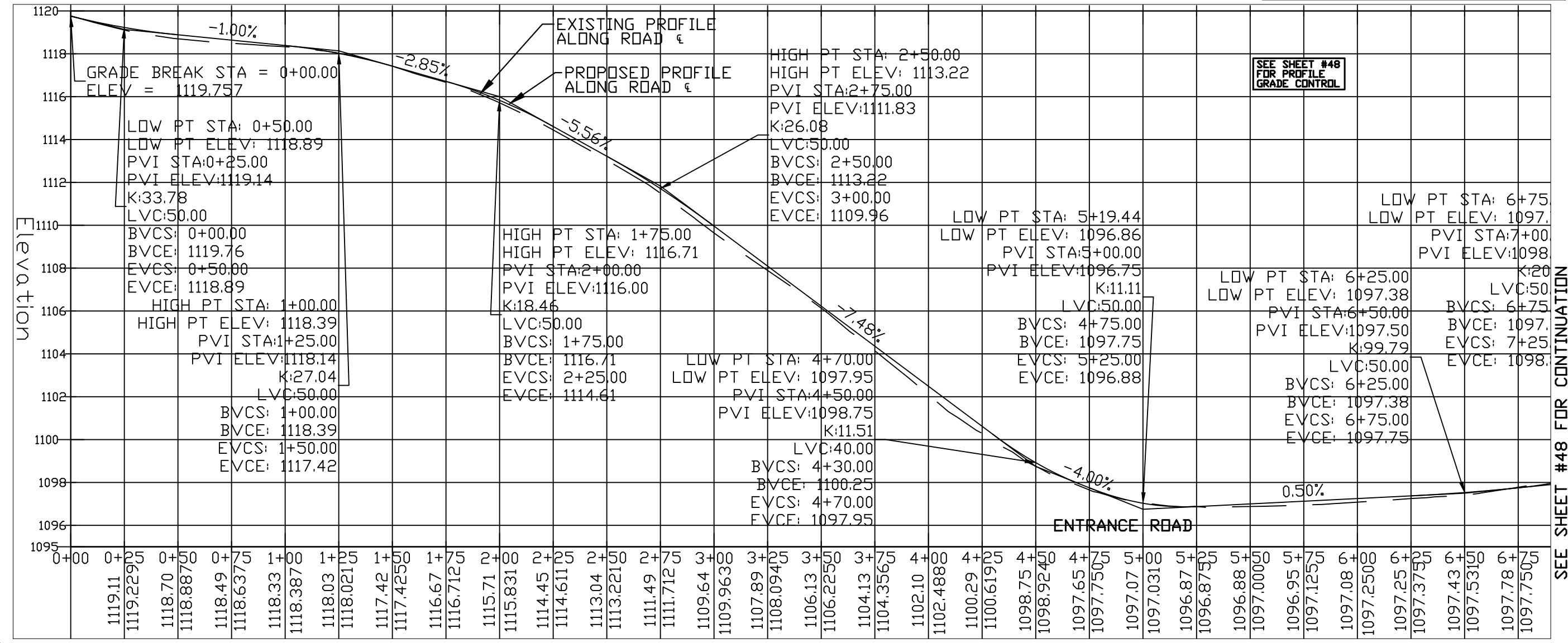


LEGEND
EXISTING/PROPOSED

○	●	MANHOLE
□	▣	INTAKE
⊕	⊖	HYDRANT
○	⊗	VALVE
○	⊞	OUTLET POST
○	○	POWER POLE/ LIGHT POLE

○ OPP/LP ○ PP/LP

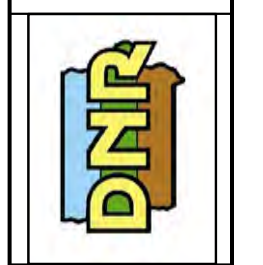
SEE SHEETS #51-59 FOR MAIN CAMPGROUND ROAD



CONSULTANT:

IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



SEE SHEET #48 FOR CONTINUATION

PAVING PLAN-ENTRANCE ROAD

CONSTRUCTION PROJECT FOR:
**PIKES PEAK CAMPGROUND
UPGRADE PROJECT**

CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01

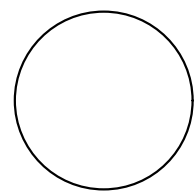
CHECKED BY: DATE: 5/01/2021

SHEET No: **47**

OUTSIDE PAVEMENT EDGE CONTROL ALIGNMENT MAIN PARKING AREA

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord	Chord Direction	Start Point	End Point	Center Point
1	Line	119.46'		N46° 54' 55"E	0+00.00'	1+19.46'				(5545924.8740',3834305.9103',1106.38')	(5546012.1180',3834387.5080',1098.06')	
2	Curve	50.56'	72.00'		1+19.46'	1+70.02'	40.2358 (d)	49.53'	N26° 47' 50"E	(5546012.1180',3834387.5080',1098.06')	(5546034.4476',3834431.7182',1096.61')	(5545962.9363',3834440.0928')
3	Line	6.19'		N6° 40' 46"E	1+70.02'	1+76.21'				(5546034.4476',3834431.7182',1096.61')	(5546035.1679',3834437.8687',1096.57')	
4	Curve	7.85'	5.00'		1+76.21'	1+84.06'	90.0000 (d)	7.07'	N51° 40' 46"E	(5546035.1679',3834437.8687',1096.57')	(5546040.7155',3834442.2532',1096.36')	(5546040.1340',3834437.2871')
5	Line	13.00'		S83° 19' 14"E	1+84.06'	1+97.06'				(5546040.7155',3834442.2532',1096.36')	(5546053.6273',3834440.7411',1095.84')	
6	Line	130.00'		N6° 40' 46"E	1+97.06'	3+27.06'				(5546053.6273',3834440.7411',1095.84')	(5546068.7481',3834569.8587',1096.51')	
7	Line	13.00'		N83° 19' 14"W	3+27.06'	3+40.06'				(5546068.7481',3834569.8587',1096.51')	(5546055.8363',3834571.3708',1097.03')	
8	Curve	7.85'	5.00'		3+40.06'	3+47.92'	90.0000 (d)	7.07'	N38° 19' 12"W	(5546055.8363',3834571.3708',1097.03')	(5546051.4519',3834576.9185',1097.27')	(5546056.4179',3834576.3369')
9	Line	10.00'		N6° 40' 46"E	3+47.92'	3+57.92'				(5546051.4519',3834576.9185',1097.27')	(5546052.6150',3834586.8506',1097.35')	
10	Curve	7.85'	5.00'		3+57.92'	3+65.77'	89.9995 (d)	7.07'	N51° 40' 45"E	(5546052.6150',3834586.8506',1097.35')	(5546058.1626',3834591.2351',1097.20')	(5546057.5811',3834586.2690')
11	Line	13.00'		S83° 19' 14"E	3+65.77'	3+78.77'				(5546058.1626',3834591.2351',1097.20')	(5546071.0744',3834589.7230',1096.68')	
12	Line	90.00'		N6° 40' 46"E	3+78.77'	4+68.77'				(5546071.0744',3834589.7230',1096.68')	(5546081.5427',3834679.1121',1099.40')	
13	Line	13.00'		N83° 19' 14"W	4+68.77'	4+81.77'				(5546081.5427',3834679.1121',1099.40')	(5546068.6310',3834680.6242',1099.90')	
14	Curve	7.85'	5.00'		4+81.77'	4+89.63'	90.0004 (d)	7.07'	N38° 19' 15"W	(5546068.6310',3834680.6242',1099.90')	(5546064.2464',3834686.1718',1100.25')	(5546069.2125',3834685.5903')
15	Line	10.00'		N6° 40' 46"E	4+89.63'	4+99.63'				(5546064.2464',3834686.1718',1100.25')	(5546065.4096',3834696.1040',1100.75')	
16	Curve	7.85'	5.00'		4+99.63'	5+07.48'	90.0000 (d)	7.07'	N51° 40' 46"E	(5546065.4096',3834696.1040',1100.75')	(5546070.9572',3834700.4885',1100.90')	(5546070.3756',3834695.5224')
17	Line	13.00'		S83° 19' 14"E	5+07.48'	5+20.48'				(5546070.9572',3834700.4885',1100.90')	(5546083.8690',3834698.9764',1100.80')	
18	Line	34.89'		N6° 40' 46"E	5+20.48'	5+55.37'				(5546083.8690',3834698.9764',1100.80')	(5546087.9273',3834733.6307',1101.20')	
19	Line	18.00'		N83° 19' 14"W	5+55.37'	5+73.37'				(5546087.9273',3834733.6307',1101.20')	(5546070.0495',3834735.7244',1101.50')	
20	Line	128.00'		N83° 31' 25"W	5+73.37'	7+01.37'				(5546070.0495',3834735.7244',1101.50')	(5545942.8660',3834750.1620',1105.16')	
21	Line	34.44'		S6° 40' 48"W	7+01.37'	7+35.81'				(5545942.8660',3834750.1620',1105.16')	(5545938.8600',3834715.9582',1104.40')	
22	Line	13.00'		S83° 19' 14"E	7+35.81'	7+48.81'				(5545938.8600',3834715.9582',1104.40')	(5545951.7718',3834714.4461',1103.90')	
23	Curve	7.85'	5.00'		7+48.81'	7+56.66'	89.9994 (d)	7.07'	S38° 19' 13"E	(5545951.7718',3834714.4461',1103.90')	(5545956.1562',3834708.8985',1103.65')	(5545951.1901',3834709.4801')
24	Line	10.00'		S6° 40' 46"W	7+56.66'	7+66.66'				(5545956.1562',3834708.8985',1103.65')	(5545954.9931',3834698.9664',1103.54')	
25	Curve	7.85'	5.00'		7+66.66'	7+74.52'	90.0000 (d)	7.07'	S51° 40' 46"W	(5545954.9931',3834698.9664',1103.54')	(5545949.4454',3834694.5819',1103.75')	(5545950.0270',3834699.5480')
26	Line	13.00'		N83° 19' 14"W	7+74.52'	7+87.52'				(5545949.4454',3834694.5819',1103.75')	(5545936.5337',3834696.0940',1104.27')	
27	Line	70.00'		S6° 40' 46"W	7+87.52'	8+57.52'				(5545936.5337',3834696.0940',1104.27')	(5545928.3917',3834626.5691',1104.27')	
28	Line	13.00'		S83° 19' 14"E	8+57.52'	8+70.52'				(5545928.3917',3834626.5691',1104.27')	(5545941.3034',3834625.0570',1103.75')	
29	Curve	7.85'	5.00'		8+70.52'	8+78.37'	90.0000 (d)	7.07'	S38° 19' 14"E	(5545941.3034',3834625.0570',1103.75')	(5545945.6879',3834619.5094',1103.55')	(5545940.7219',3834620.0910')
30	Line	10.00'		S6° 40' 46"W	8+78.37'	8+88.37'				(5545945.6879',3834619.5094',1103.55')	(5545944.5248',3834609.5773',1103.55')	
31	Curve	7.85'	5.00'		8+88.37'	8+96.23'	90.0000 (d)	7.07'	S51° 40' 46"W	(5545944.5248',3834609.5773',1103.55')	(5545938.9772',3834605.1928',1103.75')	(5545939.5587',3834610.1588')
32	Line	13.00'		N83° 19' 14"W	8+96.23'	9+09.23'				(5545938.9772',3834605.1928',1103.75')	(5545926.0654',3834606.7049',1104.27')	
33	Line	120.00'		S6° 40' 46"W	9+09.23'	10+29.23'				(5545926.0654',3834606.7049',1104.27')	(5545912.1077',3834487.5194',1104.27')	
34	Line	13.00'		S83° 19' 14"E	10+29.23'	10+42.23'				(5545912.1077',3834487.5194',1104.27')	(5545925.0195',3834486.0073',1103.75')	
35	Curve	7.85'	5.00'		10+42.23'	10+50.08'	90.0006 (d)	7.07'	S38° 19' 13"E	(5545925.0195',3834486.0073',1103.75')	(5545929.4039',3834480.4596',1103.55')	(5545924.4379',3834481.0412')
36	Line	10.00'		S6° 40' 46"W	10+50.08'	10+60.08'				(5545929.4039',3834480.4596',1103.55')	(5545928.2408',3834470.5274',1103.55')	
37	Curve	7.85'	5.00'		10+60.08'	10+67.93'	89.9989 (d)	7.07'	S51° 40' 48"W	(5545928.2408',3834470.5274',1103.55')	(5545922.6932',3834466.1430',1103.75')	(5545923.2747',3834471.1091')
38	Line	13.00'		N83° 19' 14"W	10+67.93'	10+80.93'				(5545922.6932',3834466.1430',1103.75')	(5545909.7814',3834467.6551',1104.27')	
39	Line	110.00'		S6° 40' 46"W	10+80.93'	11+90.93'				(5545909.7814',3834467.6551',1104.27')	(5545896.9869',3834358.4017',1105.00')	
40	Line	13.00'		S83° 19' 14"E	11+90.93'	12+03.93'				(5545896.9869',3834358.4017',1105.00')	(5545909.8986',3834356.8897',1104.49')	
41	Curve	7.27'	5.00'		12+03.93'	12+11.20'	83.3206 (d)	6.65'	S41° 39' 37"E	(5545909.8986',3834356.8897',1104.49')	(5545914.3170',3834351.9236',1104.42')	(5545909.3170',3834351.9236')
42	Line	5.72'		S6° 20' 22"W	12+11.20'	12+16.92'				(5545914.3170',3834351.9236',1104.42')	(5545913.6858',3834346.2414',1104.75')	
43	Curve	21.07'	30.00'		12+16.92'	12+37.99'	40.2358 (d)	20.64'	S26° 47' 50"W	(5545913.6858',3834346.2414',1104.75')	(5545904.3818',3834327.8205',1106.38')	(5545883.8894',3834349.7308')

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



PAVING-PARKING EDGE CONTROL
 CONSTRUCTION PROJECT FOR:
**PIKES PEAK CAMPGROUND
 UPGRADE PROJECT**
 CLAYTON COUNTY, IOWA

NO.	BY	REVISION

DRAWN BY: PROJECT NUMBER:
 21-03-22-01

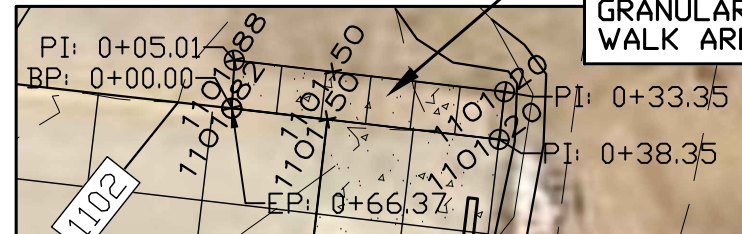
CHKD BY: DATE:
 5/01/2021

SHEET No:
52

INSIDE PAVEMENT EDGE CONTROL ALIGNMENT MAIN PARKING AREA

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord	Chord Direction	Start Point	End Point	Center Point
1	Line	13.68'		N46° 54' 55"E	0+00.00'	0+13.68'				(5545991.6257',3834409.4183',1098.06')	(5546001.6200',3834418.7659',1097.50')	
2	Curve	21.07'	30.00'		0+13.68'	0+34.75'	40.2358 (d)	20.64'	N26° 47' 50"E	(5546001.6200',3834418.7659',1097.50')	(5546010.9240',3834437.1868',1097.20')	(5545981.1277',3834440.6763')
3	Line	3.50'		N6° 40' 46"E	0+34.75'	0+38.25'				(5546010.9240',3834437.1868',1097.20')	(5546011.3308',3834440.6603',1097.17')	
4	Curve	7.85'	5.00'		0+38.25'	0+46.10'	90.0006 (d)	7.07'	N38° 19' 15"W	(5546011.3308',3834440.6603',1097.17')	(5546006.9463',3834446.2079',1097.36')	(5546006.3647',3834441.2418')
5	Line	13.00'		N83° 19' 14"W	0+46.10'	0+59.10'				(5546006.9463',3834446.2079',1097.36')	(5545994.0345',3834447.7200',1097.88')	
6	Line	90.00'		N6° 40' 46"E	0+59.10'	1+49.10'				(5545994.0345',3834447.7200',1097.88')	(5546004.5028',3834537.1091',1098.32')	
7	Line	13.00'		S83° 19' 14"E	1+49.10'	1+62.10'				(5546004.5028',3834537.1091',1098.32')	(5546017.4146',3834535.5970',1097.80')	
8	Curve	7.85'	5.00'		1+62.10'	1+69.96'	89.9991 (d)	7.07'	N51° 40' 48"E	(5546017.4146',3834535.5970',1097.80')	(5546022.9622',3834539.9814',1097.62')	(5546017.9961',3834540.5631')
9	Line	10.00'		N6° 40' 46"E	1+69.96'	1+79.96'				(5546022.9622',3834539.9814',1097.62')	(5546024.1254',3834549.9137',1097.67')	
10	Curve	7.85'	5.00'		1+79.96'	1+87.81'	89.9996 (d)	7.07'	N38° 19' 17"W	(5546024.1254',3834549.9137',1097.67')	(5546019.7408',3834555.4613',1097.90')	(5546019.1593',3834550.4952')
11	Line	13.00'		N83° 19' 14"W	1+87.81'	2+00.81'				(5546019.7408',3834555.4613',1097.90')	(5546006.8291',3834556.9733',1098.42')	
12	Line	130.00'		N6° 40' 46"E	2+00.81'	3+30.81'				(5546006.8291',3834556.9733',1098.42')	(5546021.9499',3834686.0910',1100.50')	
13	Line	13.00'		S83° 19' 14"E	3+30.81'	3+43.81'				(5546021.9499',3834686.0910',1100.50')	(5546034.8617',3834684.5789',1100.30')	
14	Curve	7.85'	5.00'		3+43.81'	3+51.66'	90.0000 (d)	7.07'	N51° 40' 46"E	(5546034.8617',3834684.5789',1100.30')	(5546040.4093',3834688.9634',1100.45')	(5546035.4433',3834689.5449')
15	Curve	23.56'	15.00'		3+51.66'	3+75.23'	90.0003 (d)	21.21'	N38° 19' 15"W	(5546040.4093',3834688.9634',1100.45')	(5546027.2558',3834705.6063',1102.10')	(5546025.5111',3834690.7081')
16	Line	32.00'		N83° 19' 14"W	3+75.23'	4+07.23'				(5546027.2558',3834705.6063',1102.10')	(5545995.4731',3834709.3283',1102.55')	
17	Curve	23.56'	15.00'		4+07.23'	4+30.79'	90.0000 (d)	21.21'	S51° 40' 46"W	(5545995.4731',3834709.3283',1102.55')	(5545978.8302',3834696.1749',1102.94')	(5545993.7283',3834694.4301')
18	Curve	7.85'	5.00'		4+30.79'	4+38.64'	90.0000 (d)	7.07'	S38° 19' 14"E	(5545978.8302',3834696.1749',1102.94')	(5545983.2147',3834690.6272',1102.88')	(5545983.7962',3834695.5933')
19	Line	13.00'		S83° 19' 14"E	4+38.64'	4+51.64'				(5545983.2147',3834690.6272',1102.88')	(5545996.1264',3834689.1151',1102.68')	
20	Line	130.00'		S6° 40' 46"W	4+51.64'	5+81.64'				(5545996.1264',3834689.1151',1102.68')	(5545981.0056',3834559.9975',1102.23')	
21	Line	13.00'		N83° 19' 14"W	5+81.64'	5+94.64'				(5545981.0056',3834559.9975',1102.23')	(5545968.0938',3834561.5096',1102.75')	
22	Curve	7.85'	5.00'		5+94.64'	6+02.50'	90.0000 (d)	7.07'	S51° 40' 46"W	(5545968.0938',3834561.5096',1102.75')	(5545962.5462',3834557.1251',1102.95')	(5545967.5122',3834556.5435')
23	Line	10.00'		S6° 40' 46"W	6+02.50'	6+12.50'				(5545962.5462',3834557.1251',1102.95')	(5545961.3830',3834547.1930',1102.95')	
24	Curve	7.85'	5.00'		6+12.50'	6+20.35'	90.0010 (d)	7.07'	S38° 19' 16"E	(5545961.3830',3834547.1930',1102.95')	(5545965.7676',3834541.6453',1102.75')	(5545966.3491',3834546.6114')
25	Line	13.00'		S83° 19' 14"E	6+20.35'	6+33.35'				(5545965.7676',3834541.6453',1102.75')	(5545978.6793',3834540.1333',1102.23')	
26	Line	140.00'		S6° 40' 46"W	6+33.35'	7+73.35'				(5545978.6793',3834540.1333',1102.23')	(5545962.3953',3834401.0835',1102.23')	
27	Line	13.00'		N83° 19' 14"W	7+73.35'	7+86.35'				(5545962.3953',3834401.0835',1102.23')	(5545949.4835',3834402.5956',1102.75')	
28	Curve	7.85'	5.00'		7+86.35'	7+94.21'	90.0046 (d)	7.07'	S51° 40' 38"W	(5545949.4835',3834402.5956',1102.75')	(5545943.9359',3834398.2107',1102.97')	(5545948.9020',3834397.6295')
29	Line	10.46'		S6° 40' 46"W	7+94.21'	8+04.67'				(5545943.9359',3834398.2107',1102.97')	(5545942.7192',3834387.8216',1103.04')	
30	Curve	24.39'	10.00'		8+04.67'	8+29.06'	139.7642 (d)	18.78'	S63° 12' 10"E	(5545942.7192',3834387.8216',1103.04')	(5545959.4821',3834379.3550',1100.74')	(5545952.6513',3834386.6584')

SCALE: 1"=20'

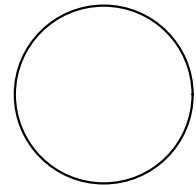


INSTALL 15.7 SY 5-INCH
NON-REINFORCED PCC WITH 4-INCH
GRANULAR SUBBASE (3.1 TONS) FOR
WALK AREA THAT WAS REMOVED

SIDEWALK PAVEMENT EDGE CONTROL VISITOR AREA

SIDEWALK PAVEMENT EDGE CONTROL ALIGNMENT VISITOR AREA												
No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point					
1	Line	5.01'	N2° 59' 56"E	0+00.00'	0+05.01'	(5546060.1009',3834736.8894',1101.82')	(5546060.3631',3834741.8929',1101.88')					
2	Line	28.34'	S83° 19' 14"E	0+05.01'	0+33.35'	(5546060.3631',3834741.8929',1101.88')	(5546088.5089',3834738.5968',1101.20')					
3	Line	5.00'	S6° 40' 46"W	0+33.35'	0+38.35'	(5546088.5089',3834738.5968',1101.20')	(5546087.9273',3834733.6307',1101.20')					
4	Line	28.02'	N83° 19' 14"W	0+38.35'	0+66.37'	(5546087.9273',3834733.6307',1101.20')	(5546060.1009',3834736.8894',1101.82')					

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



PAVING-PARKING EDGE CONTROL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHKD BY: DATE:

5/01/2021

SHEET No:

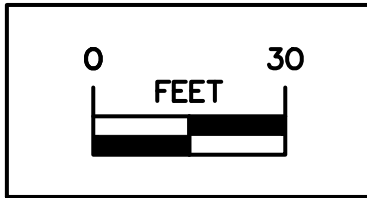
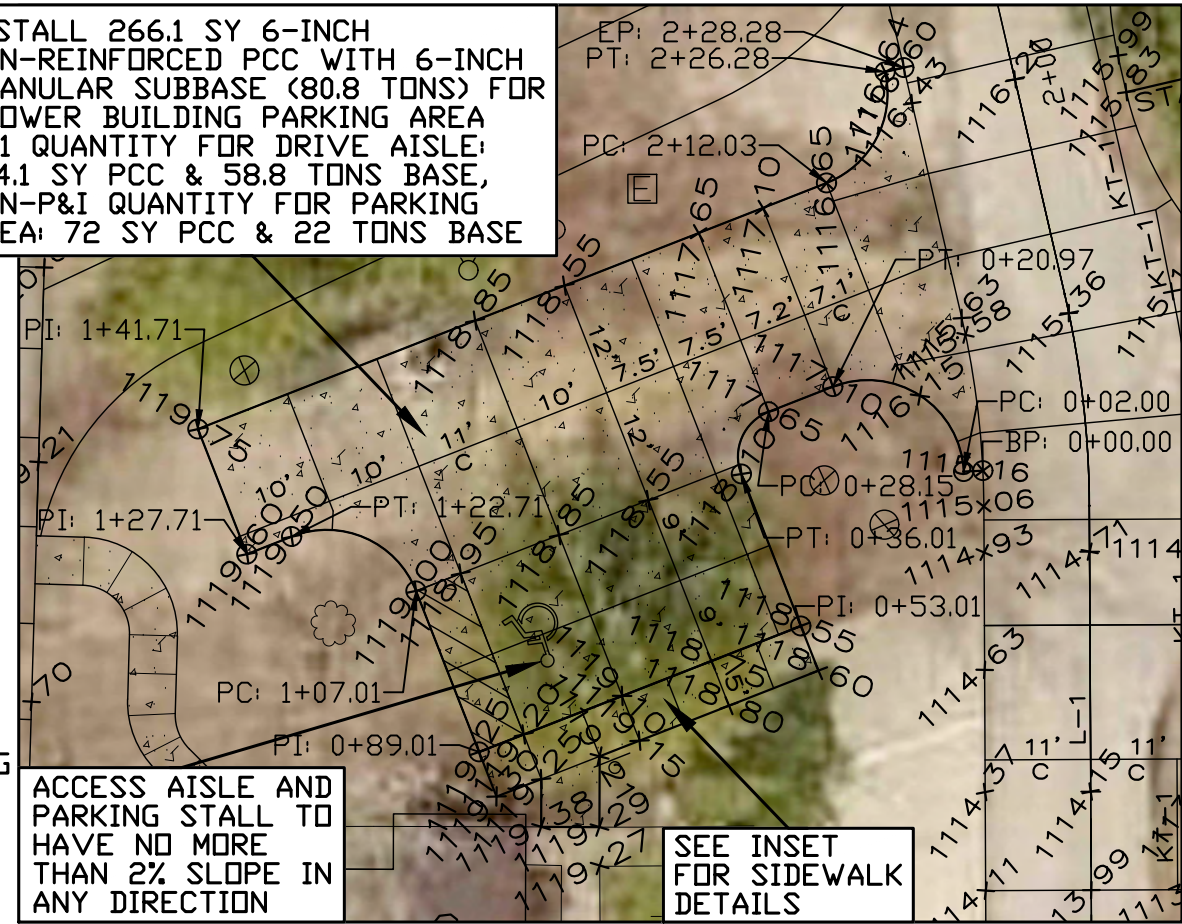
53

MAIN CAMPGROUND ROAD PAVEMENT EDGE CONTROL FROM STA 0+15.00 TO STA 2+85.26



SHOWER BUILDING CONCRETE PARKING AREA

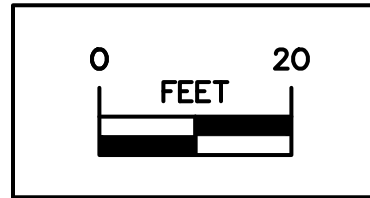
INSTALL 266.1 SY 6-INCH NON-REINFORCED PCC WITH 6-INCH GRANULAR SUBBASE (80.8 TONS) FOR SHOWER BUILDING PARKING AREA P&I QUANTITY FOR DRIVE AISLE: 194.1 SY PCC & 58.8 TONS BASE, NON-P&I QUANTITY FOR PARKING AREA: 72 SY PCC & 22 TONS BASE



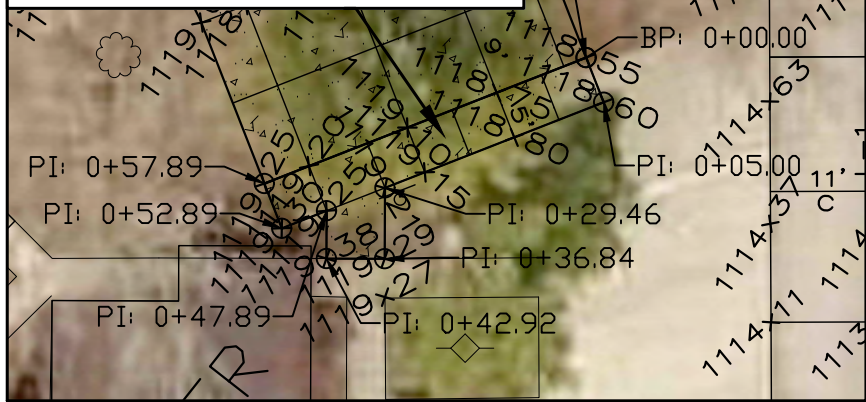
NOTES:
1. SEE SHEET #57 FOR PAVEMENT EDGE CONTROL OF MAIN CAMPGROUND ROAD FROM STATION 0+15.00 TO STATION 2+85.26 AND SHOWER PARKING AREA.
2. SEE SHEET #59 FOR DISPOSAL STATION ISLAND INFORMATION.

ACCESS AISLE AND PARKING STALL TO HAVE NO MORE THAN 2% SLOPE IN ANY DIRECTION

SEE INSET FOR SIDEWALK DETAILS



INSTALL 24.2 SY 5-INCH NON-REINFORCED PCC SIDEWALK WITH 4-INCH GRANULAR SUBBASE (4.8 TONS)

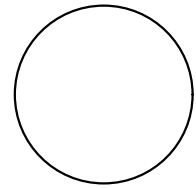


SHOWER BUILDING CONCRETE PARKING AREA SIDEWALK

SIDEWALK PAVEMENT EDGE CONTROL ALIGNMENT FOR THE SHOWER BUILDING PARKING AREA

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	5.00'	S21° 22' 30"E	0+00.00'	0+05.00'	(5545748.3211', 3833940.3231', 1118.55')	(5545750.1435', 3833935.6670', 1118.60')
2	Line	24.46'	S68° 37' 30"W	0+05.00'	0+29.46'	(5545750.1435', 3833935.6670', 1118.60')	(5545727.3627', 3833926.7508', 1119.21')
3	Line	7.37'	S0° 11' 46"W	0+29.46'	0+36.84'	(5545727.3627', 3833926.7508', 1119.21')	(5545727.3374', 3833919.3764', 1119.29')
4	Line	6.08'	N89° 48' 14"W	0+36.84'	0+42.92'	(5545727.3374', 3833919.3764', 1119.29')	(5545721.2588', 3833919.3972', 1119.38')
5	Line	4.97'	N0° 11' 46"E	0+42.92'	0+47.89'	(5545721.2588', 3833919.3972', 1119.38')	(5545721.2758', 3833924.3684', 1119.25')
6	Line	5.00'	S68° 37' 30"W	0+47.89'	0+52.89'	(5545721.2758', 3833924.3684', 1119.25')	(5545716.6198', 3833922.5461', 1119.30')
7	Line	5.00'	N21° 22' 30"W	0+52.89'	0+57.89'	(5545716.6198', 3833922.5461', 1119.30')	(5545714.7974', 3833927.2021', 1119.25')
8	Line	36.00'	N68° 37' 30"E	0+57.89'	0+93.89'	(5545714.7974', 3833927.2021', 1119.25')	(5545748.3211', 3833940.3231', 1118.55')

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



MAIN CAMPGROUND ROAD EDGE CTL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

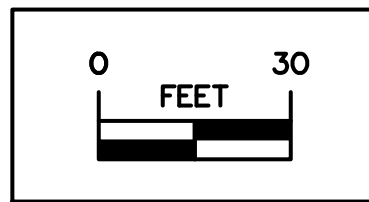
PROJECT NUMBER: 21-03-22-01
DATE: 5/01/2021

MAIN CAMPGROUND ROAD CENTERLINE CONTROL

No.	Type	Length	Radius	Direction	Start Stati	End Statio	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	26.24'		S7° 52' 31"E	0+00.00'	0+26.24'				(5545728.2355',3834192.6349',1118.12')	(5545731.8306',3834166.6444',1118.46')	
2	Curve	9.00'	100.00'		0+26.24'	0+35.24'	5.1571 (d)	9.00'	S10° 27' 14"E	(5545731.8306',3834166.6444',1118.46')	(5545733.4632',3834157.7960',1118.71)	(5545830.8874',3834180.3462')
3	Line	187.74'		S13° 01' 57"E	0+35.24'	2+22.98'				(5545733.4632',3834157.7960',1118.71)	(5545775.7997',3833974.8885',1115.41')	
4	Curve	22.25'	100.00'		2+22.98'	2+45.23'	12.7476 (d)	22.20'	S6° 39' 31"E	(5545775.7997',3833974.8885',1115.41')	(5545778.3742',3833952.8354',1114.84')	(5545678.3754',3833952.3383')
5	Line	70.19'		S0° 17' 05"E	2+45.23'	3+15.43'				(5545778.3742',3833952.8354',1114.84')	(5545778.7231',3833882.6420',1113.67')	
6	Curve	15.95'	500.00'		3+15.43'	3+31.38'	1.8280 (d)	15.95'	S0° 37' 45"W	(5545778.7231',3833882.6420',1113.67')	(5545778.5479',3833866.6912',1113.51')	(5545278.7293',3833880.1567')
7	Line	124.95'		S1° 32' 36"W	3+31.38'	4+56.33'				(5545778.5479',3833866.6912',1113.51')	(5545775.1828',3833741.7826',1112.26')	
8	Curve	30.96'	200.00'		4+56.33'	4+87.29'	8.8690 (d)	30.93'	S2° 53' 29"E	(5545775.1828',3833741.7826',1112.26')	(5545776.7428',3833710.8941',1111.93')	(5545975.1102',3833736.3964')
9	Line	97.38'		S7° 19' 33"E	4+87.29'	5+84.67'				(5545776.7428',3833710.8941',1111.93')	(5545789.1596',3833614.3111',1109.86')	
10	Curve	102.87'	175.00'		5+84.67'	6+87.54'	33.6806 (d)	101.40'	S24° 09' 58"E	(5545789.1596',3833614.3111',1109.86')	(5545830.6698',3833521.8005',1107.14')	(5545962.7311',3833636.6256')
11	Curve	23.61'	100.00'		6+87.54'	7+11.15'	13.5265 (d)	23.55'	S34° 14' 35"E	(5545830.6698',3833521.8005',1107.14')	(5545843.9235',3833502.3298',1105.79')	(5545755.2063',3833456.1861')
12	Curve	78.46'	50.00'		7+11.15'	7+89.61'	89.9111 (d)	70.66'	S72° 26' 08"E	(5545843.9235',3833502.3298',1105.79')	(5545911.2852',3833481.0073',1100.74')	(5545888.2822',3833525.4017')
13	Line	24.01'		N62° 36' 32"E	7+89.61'	8+13.62'				(5545911.2852',3833481.0073',1100.74')	(5545932.6058',3833492.0547',1099.38')	
14	Curve	62.44'	50.00'		8+13.62'	8+76.06'	71.5454 (d)	58.46'	N26° 50' 11"E	(5545932.6058',3833492.0547',1099.38')	(5545958.9959',3833544.2159',1098.00')	(5545909.6029',3833536.4491')
15	Line	267.95'		N8° 56' 11"W	8+76.06'	11+44.00'				(5545958.9959',3833544.2159',1098.00')	(5545917.3741',3833808.9090',1098.99')	
16	Curve	71.29'	100.00'		11+44.00'	12+15.29'	40.8453 (d)	69.79'	N29° 21' 32"W	(5545917.3741',3833808.9090',1098.99')	(5545883.1582',3833869.7342',1105.42')	(5545818.5880',3833793.3753')
17	Line	91.36'		N49° 46' 54"W	12+15.29'	13+06.65'				(5545883.1582',3833869.7342',1105.42')	(5545813.3964',3833928.7259',1113.25')	



SEE SHEET #67 FOR
EDGE OF PAVEMENT CONTROL

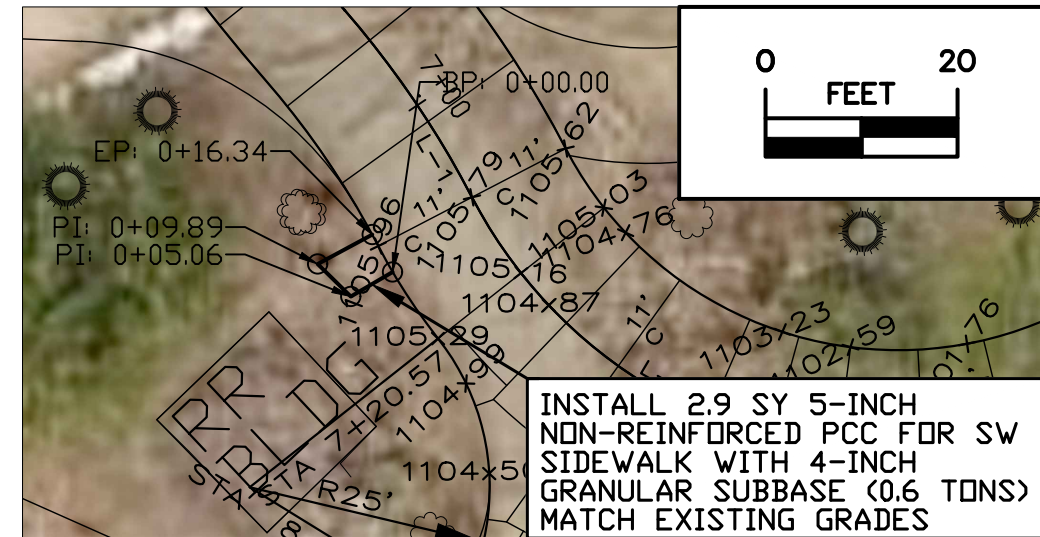


SIDEWALK PAVEMENT EDGE CONTROL NE WALK SOUTH RESTROOM BUILDING

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	5.06'	S59° 36' 41"W	0+00.00'	0+05.06'	(5545835.6626',3833494.5442')	(5545831.3015',3833491.9867')
2	Line	4.84'	N45° 23' 28"W	0+05.06'	0+09.89'	(5545831.3015',3833491.9867')	(5545827.8570',3833495.3846')
3	Line	6.45'	N61° 39' 04"E	0+09.89'	0+16.34'	(5545827.8570',3833495.3846')	(5545833.5327',3833498.4469')



INTERSECTION DETAIL MAIN CAMPGROUND ROAD & WEST ROAD
SEE BELOW FOR EDGE OF PAVEMENT CONTROL



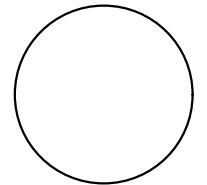
INSTALL 2.9 SY 5-INCH
NON-REINFORCED PCC FOR SW
SIDEWALK WITH 4-INCH
GRANULAR SUBBASE (0.6 TONS)
MATCH EXISTING GRADES

SIDEWALK NORTHEAST OF RESTROOM BUILDING
SEE ABOVE FOR EDGE OF PAVEMENT CONTROL

MAIN CAMPGROUND ROAD & WEST ROAD INTERSECTION PAVEMENT EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	30.54'	25.00'		0+00.00'	0+30.54'	69.9945 (d)	28.68'	N3° 16' 43"W	(5545842.0350',3833458.9854',1103.84')	(5545840.3949',3833487.6153',1105.29')	(5545820.7690',3833472.1291')
2	Line	22.00'		N51° 43' 27"E	0+30.54'	0+52.54'				(5545840.3949',3833487.6153',1105.29')	(5545857.6657',3833501.2432',1105.03')	
3	Curve	30.25'	39.00'		0+52.54'	0+82.79'	44.4432 (d)	29.50'	S60° 29' 51"E	(5545857.6657',3833501.2432',1105.03')	(5545883.3395',3833486.7162',1102.59')	(5545888.2822',3833525.4017')
4	Line	22.00'		S7° 16' 51"W	0+82.79'	1+04.79'				(5545883.3395',3833486.7162',1102.59')	(5545880.5514',3833464.8936',1102.67')	
5	Curve	28.61'	25.00'		1+04.79'	1+33.40'	65.5626 (d)	27.07'	S64° 29' 59"W	(5545880.5514',3833464.8936',1102.67')	(5545856.1170',3833453.2388',1103.50')	(5545877.3830',3833440.0952')
6	Line	2.52'		S31° 43' 07"W	1+33.40'	1+35.91'				(5545856.1170',3833453.2388',1103.50')	(5545854.7946',3833451.0992',1103.54')	
7	Line	15.00'		N58° 16' 53"W	1+35.91'	1+50.91'				(5545854.7946',3833451.0992',1103.54')	(5545842.0350',3833458.9854',1103.84')	

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



MAIN CAMPGROUND INTERSECTIONS

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

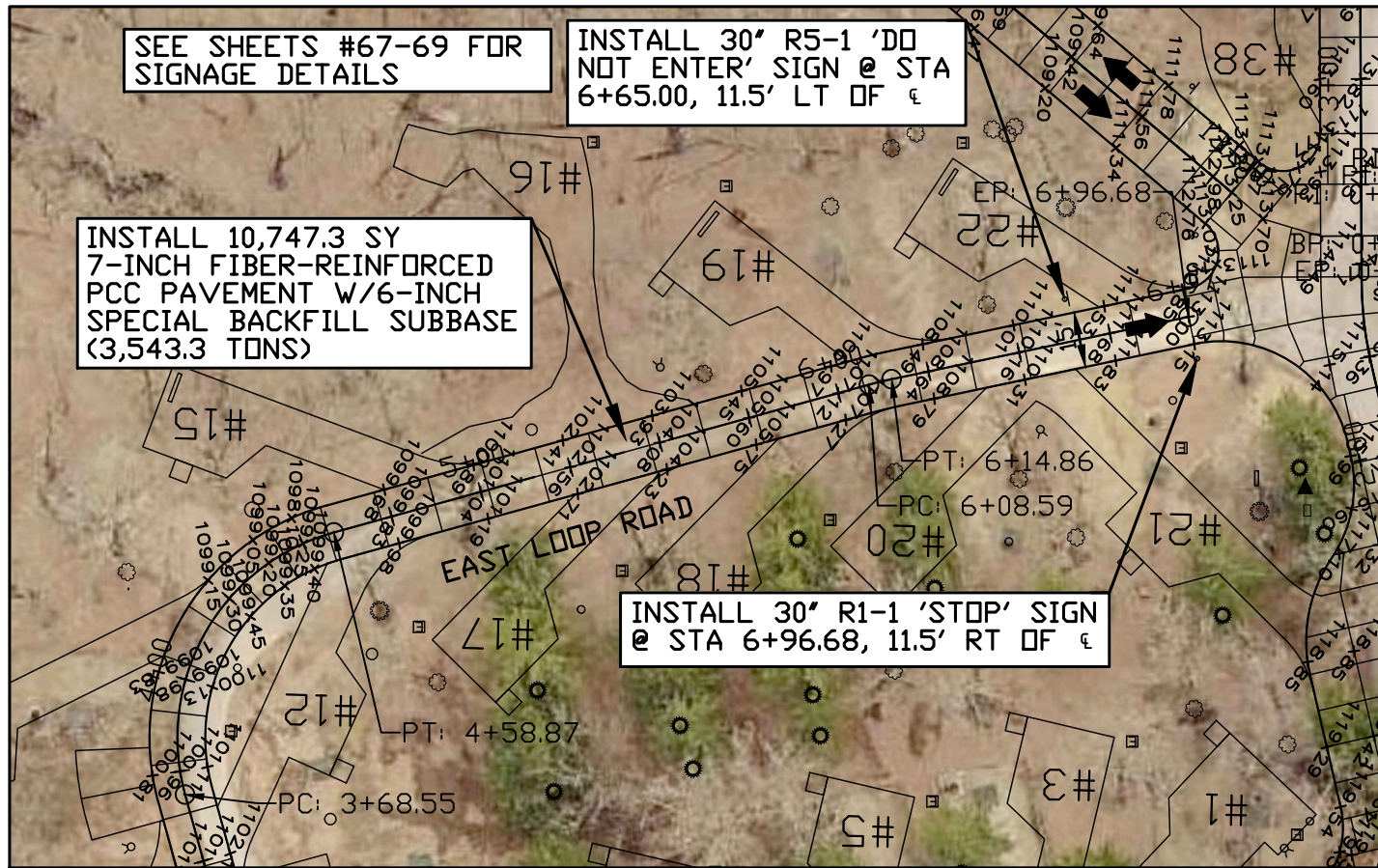
21-03-22-01

CHKD BY: DATE:

5/01/2021

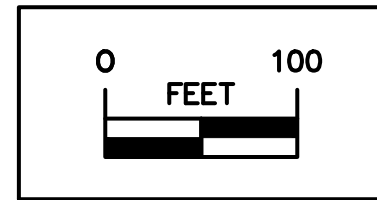
SHEET No:

58

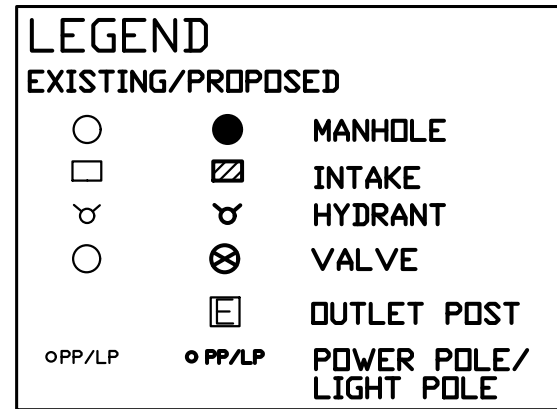


SEE SHEET #60 FOR CONTINUATION

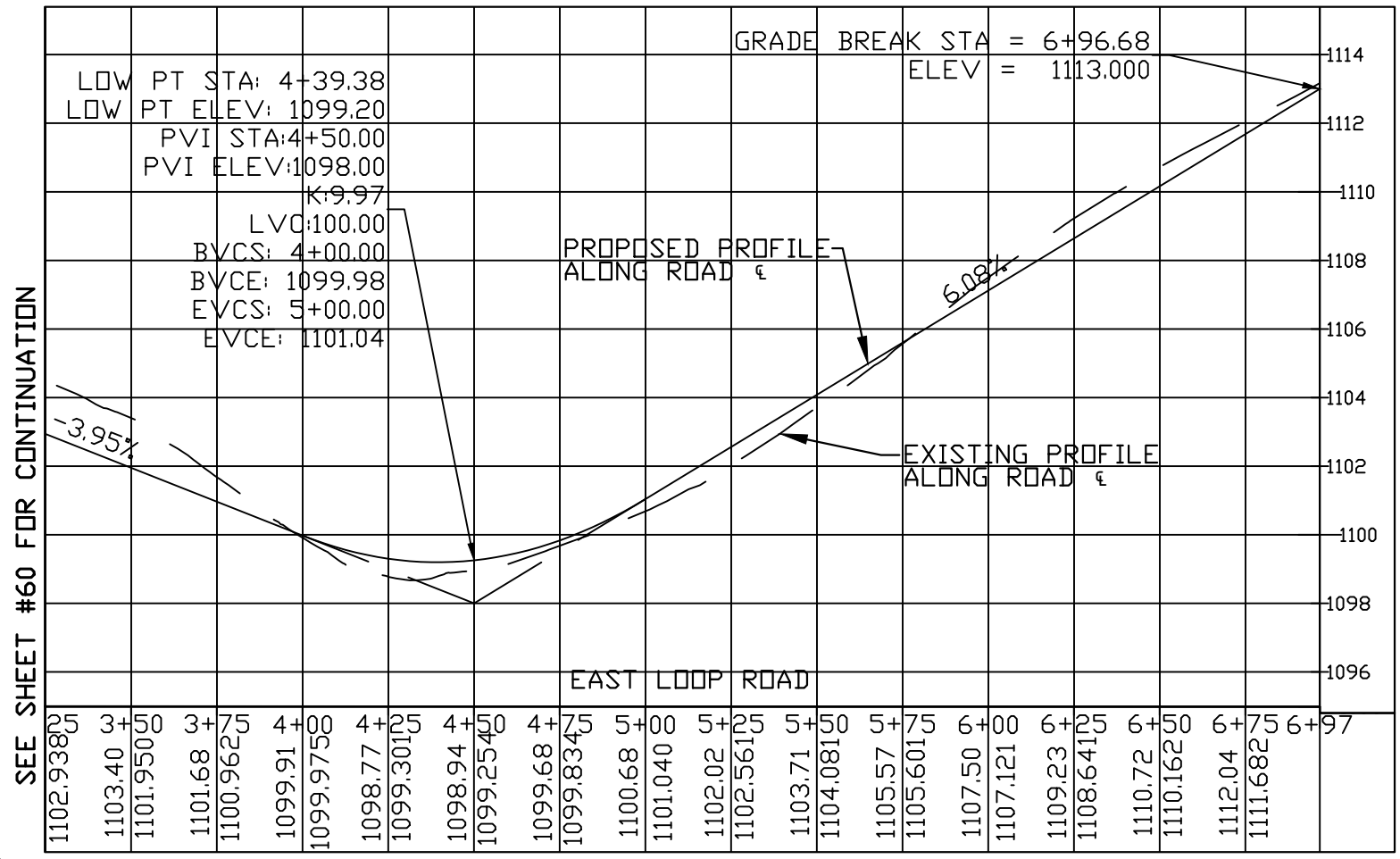
SEE SHEETS #54-59 FOR MAIN CAMPGROUND ROAD AND INTERSECTION INFORMATION



SEE SHEET #64 FOR EAST LOOP ROAD CENTERLINE CONTROL. SEE SHEETS #56 & 57 FOR INTERSECTION DETAILS & PAVEMENT EDGE CONTROL



NOTE: THERE IS NO CENTERLINE JOINT ON THE 15-FOOT WIDE ROADS (EAST LOOP ROAD AND WEST ROAD).

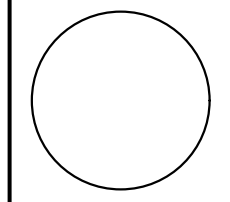


PROPOSED PROFILE GRADE LOOP ROAD

No.	PVI Station	PVI Elev	% In	% Out	% DIFF	TYPE	Length	K Value
1	0+00.00'	1118.30'		-3.40%				
2	0+50.00'	1116.60'	-3.40%	-5.35%	1.95%	Crest	50.00'	25.641
3	2+50.00'	1105.90'	-5.35%	-3.95%	1.40%	Sag	50.00'	35.714
4	4+50.00'	1098.00'	-3.95%	6.08%	10.03%	Sag	100.00'	9.969
5	6+96.68'	1113.00'	6.08%					

SEE SHEET #60 FOR CONTINUATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



PAVING PLAN-EAST LOOP ROAD

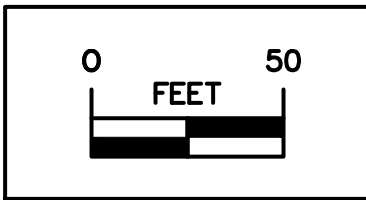
CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

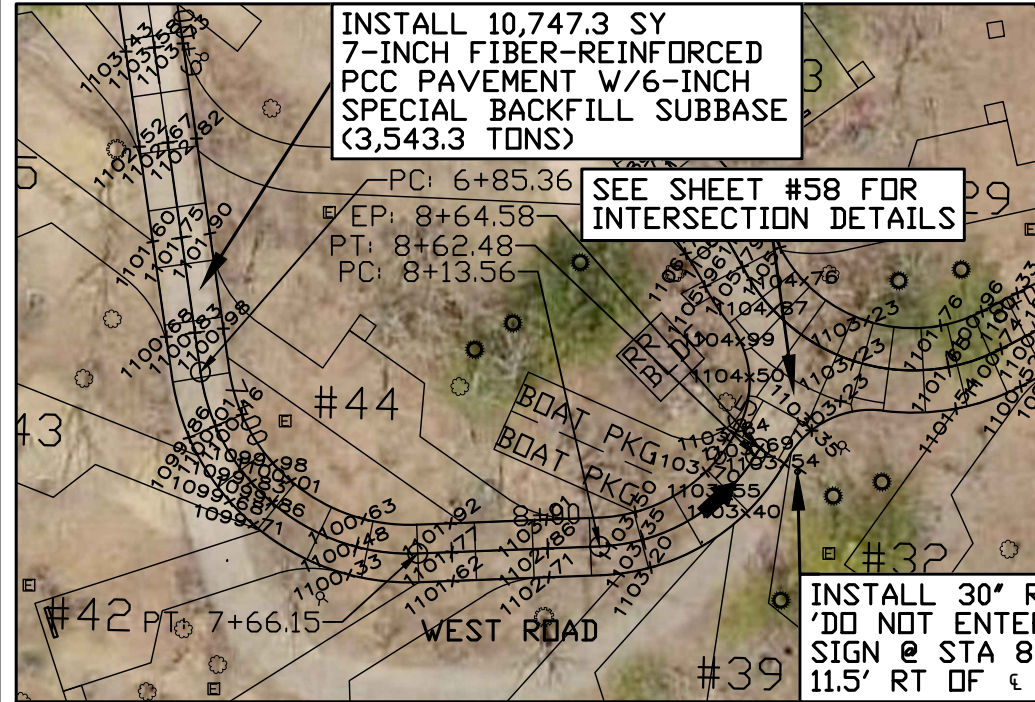
NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01
CHKD BY: DATE: 5/01/2021

NOTE: THERE IS NO CENTERLINE JOINT ON THE 15-FOOT WIDE ROADS (EAST LOOP ROAD AND WEST ROAD).



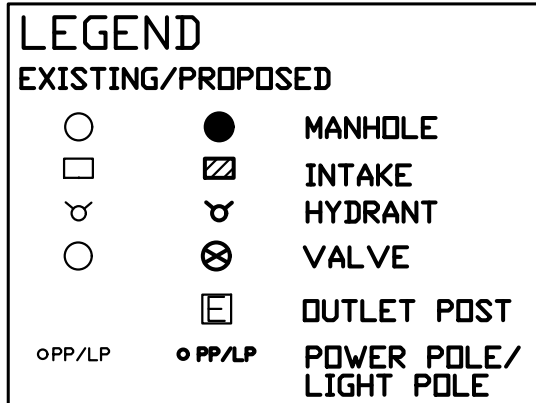
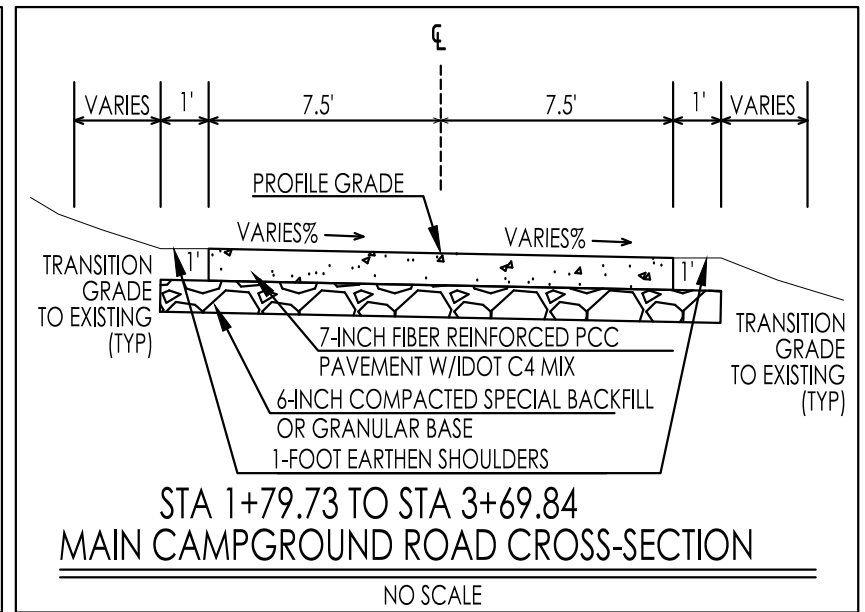
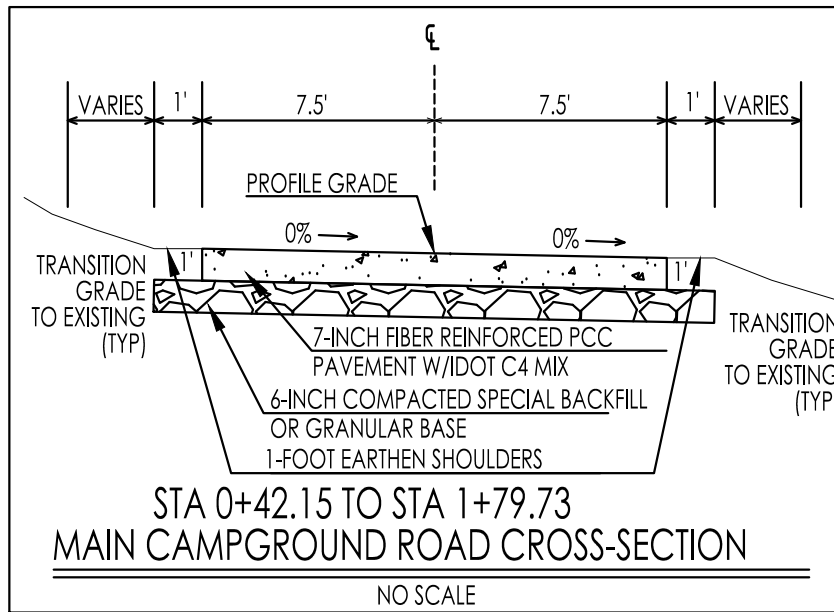
SEE SHEET #62 FOR CONTINUATION



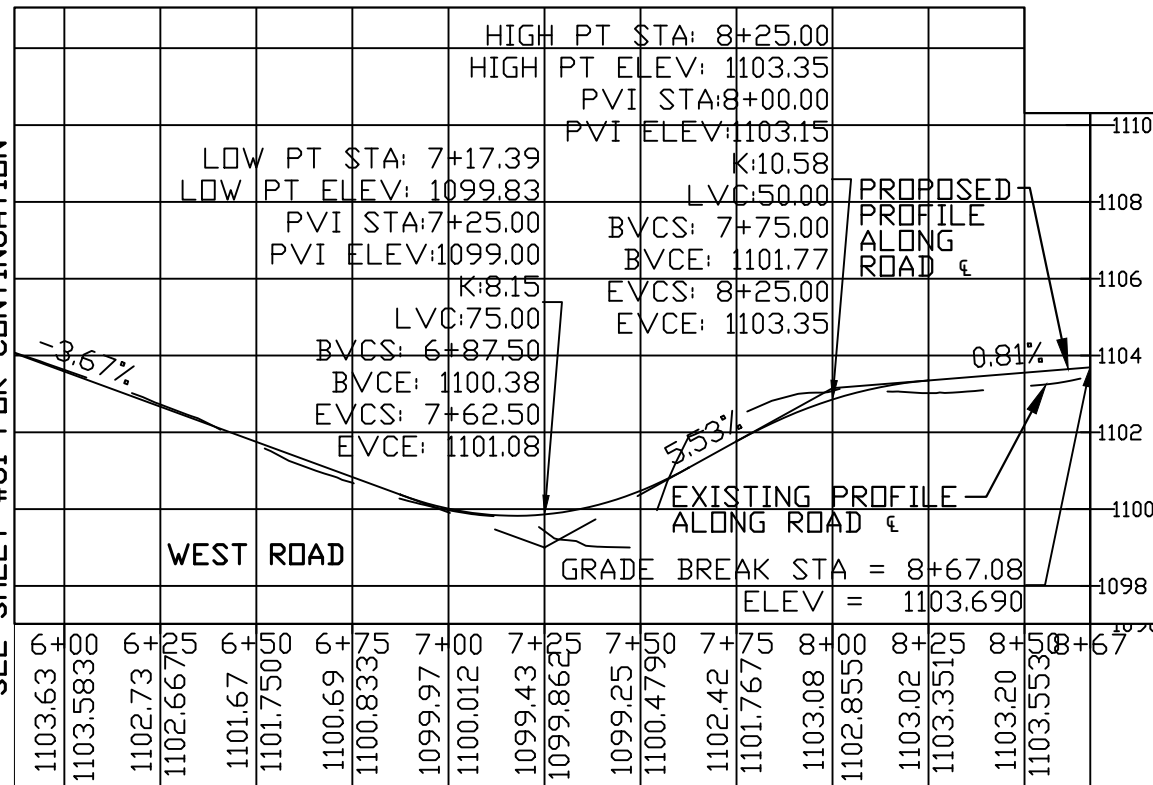
INSTALL 10,747.3 SY 7-INCH FIBER-REINFORCED PCC PAVEMENT W/6-INCH SPECIAL BACKFILL SUBBASE (3,543.3 TONS)

SEE SHEET #58 FOR INTERSECTION DETAILS

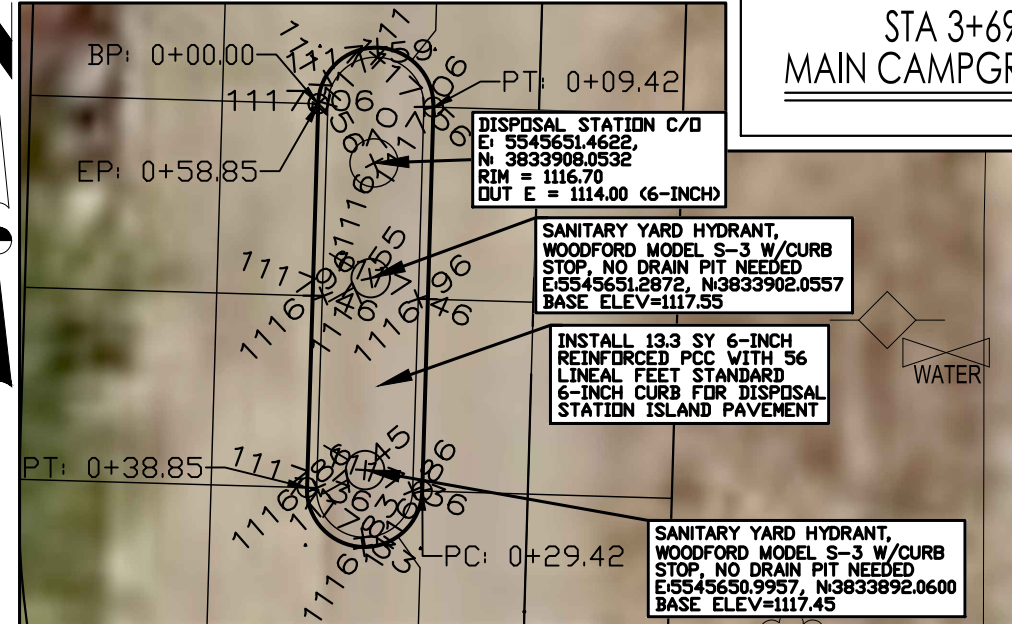
INSTALL 30' R5-1 'DO NOT ENTER' SIGN @ STA 8+64.58, 11.5' RT OF C



SEE SHEET #61 FOR CONTINUATION



DISPOSAL STATION ISLAND DETAILS WEST ROAD LOCATION SCALE: 1"=10'

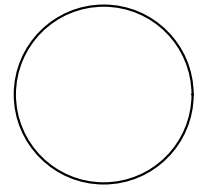


NOTES
1. THE DISPOSAL STATION ISLAND PAVEMENT BID ITEM SHALL INCLUDE BOTH THE 6-INCH PCC QUANTITY AND THE 6-INCH STANDARD CURB QUANTITY IN THE BIT ITEM.
2. SEE SHEET #59 FOR DISPOSAL ISLAND CROSS SECTION.

DISPOSAL STATION ISLAND PAVEMENT EDGE CONTROL WEST ROAD LOCATION

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	9.42'	3.00'		0+00.00'	0+09.42'	180.0000 (d)	6.00'	S88° 19' 45"E	(5545648.5509', 3833911.1394', 1117.06')	(5545654.5484', 3833910.9644', 1117.06')	(5545651.5496', 3833911.0519')
2	Line	20.00'		S1° 40' 15"W	0+09.42'	0+29.42'				(5545654.5484', 3833910.9644', 1117.06')	(5545653.9652', 3833890.9729', 1116.86')	
3	Curve	9.42'	3.00'		0+29.42'	0+38.85'	180.0000 (d)	6.00'	N88° 19' 45"W	(5545653.9652', 3833890.9729', 1116.86')	(5545647.9678', 3833891.1479', 1116.86')	(5545650.9665', 3833891.0604')
4	Line	20.00'		N1° 40' 15"E	0+38.85'	0+58.85'				(5545647.9678', 3833891.1479', 1116.86')	(5545648.5509', 3833911.1394', 1117.06')	

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



PAVING PLAN-WEST ROAD

CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01

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SHEET NO:

WEST ROAD & SERVICE ROAD PAVEMENT EDGE CONTROL

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	43.32'	25.00'		0+00.00'	0+43.32'	99.2768 (d)	38.10'	N48° 05' 43"W	(5545765.7851',3833801.4069',1113.07')	(5545737.4300',3833826.8528',1115.43')	(5545740.7942',3833802.0801')
2	Line	36.37'		S82° 15' 59"W	0+43.32'	0+79.68'				(5545737.4300',3833826.8528',1115.43')	(5545701.3955',3833821.9592',1114.85')	
3	Curve	46.24'	30.00'		0+79.68'	1+25.93'	88.3214 (d)	41.80'	S38° 06' 20"W	(5545701.3955',3833821.9592',1114.85')	(5545675.6000',3833789.0675',1111.83')	(5545705.4326',3833792.2321')
4	Line	15.00'		S83° 56' 41"W	1+25.93'	1+40.93'				(5545675.6000',3833789.0675',1111.83')	(5545660.6837',3833787.4852',1111.53')	
5	Line	51.11'		N6° 03' 19"W	1+40.93'	1+92.04'				(5545660.6837',3833787.4852',1111.53')	(5545655.2923',3833838.3101',1114.90')	
6	Curve	23.23'	35.00'		1+92.04'	2+15.27'	38.0270 (d)	22.81'	N25° 04' 07"W	(5545655.2923',3833838.3101',1114.90')	(5545645.6296',3833858.9672',1115.96')	(5545620.4876',3833834.6181')
7	Curve	35.93'	45.00'		2+15.27'	2+51.20'	45.7529 (d)	34.99'	N21° 12' 20"W	(5545645.6296',3833858.9672',1115.96')	(5545632.9742',3833891.5852',1116.86')	(5545677.9550',3833890.2732')
8	Line	33.55'		N1° 40' 15"E	2+51.20'	2+84.76'				(5545632.9742',3833891.5852',1116.86')	(5545633.9525',3833925.1259',1117.38')	
9	Curve	34.09'	50.00'		2+84.76'	3+18.84'	39.0614 (d)	33.43'	N21° 12' 05"E	(5545633.9525',3833925.1259',1117.38')	(5545646.0428',3833956.2943',1119.08')	(5545683.9312',3833923.6681')
10	Curve	23.86'	35.00'		3+18.84'	3+42.71'	39.0614 (d)	23.40'	N21° 12' 05"E	(5545646.0428',3833956.2943',1119.08')	(5545654.5061',3833978.1122',1120.65')	(5545619.5210',3833979.1327')
11	Line	15.00'		S88° 19' 45"E	3+42.71'	3+57.71'				(5545654.5061',3833978.1122',1120.65')	(5545669.4997',3833977.6749',1120.65')	
12	Line	93.25'		S1° 40' 15"W	3+57.71'	4+50.95'				(5545669.4997',3833977.6749',1120.65')	(5545666.7810',3833884.4672',1116.80')	
13	Curve	18.92'	142.50'		4+50.95'	4+69.87'	7.6061 (d)	18.90'	S2° 07' 56"E	(5545666.7810',3833884.4672',1116.80')	(5545667.4843',3833865.5771',1116.49')	(5545809.2204',3833880.3125')
14	Curve	40.05'	25.00'		4+69.87'	5+09.92'	91.7982 (d)	35.91'	S51° 50' 04"E	(5545667.4843',3833865.5771',1116.49')	(5545695.7145',3833843.3897',1115.37')	(5545692.3503',3833868.1623')
15	Line	50.81'		N82° 15' 59"E	5+09.92'	5+60.74'				(5545695.7145',3833843.3897',1115.37')	(5545746.0648',3833850.2273',1115.13')	
16	Curve	35.62'	25.00'		5+60.74'	5+96.35'	81.6297 (d)	32.68'	N41° 27' 06"E	(5545746.0648',3833850.2273',1115.13')	(5545767.6991',3833874.7221',1113.81')	(5545742.7006',3833874.9999')

SIDEWALK PAVEMENT EDGE CONTROL SHOWER SE WALK

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	4.74'		N7° 44' 01"W	0+00.00'	0+04.74'				(5545729.5150',3833847.9798',1115.81')	(5545728.8769',3833852.6790',1116.00')	
2	Curve	6.16'	10.00'		0+04.74'	0+10.91'	35.3125 (d)	6.07'	N25° 23' 23"W	(5545728.8769',3833852.6790',1116.00')	(5545726.2759',3833858.1592',1117.25')	(5545718.9678',3833851.3333')
3	Curve	11.31'	15.00'		0+10.91'	0+22.22'	43.2127 (d)	11.05'	N21° 26' 23"W	(5545726.2759',3833858.1592',1117.25')	(5545722.2380',3833868.4416',1119.12')	(5545737.2380',3833868.3980')
4	Line	5.00'		N0° 10' 00"E	0+22.22'	0+27.22'				(5545722.2380',3833868.4416',1119.12')	(5545722.2526',3833873.4417',1119.37')	
5	Line	5.00'		S89° 49' 54"E	0+27.22'	0+32.22'				(5545722.2526',3833873.4417',1119.37')	(5545727.2525',3833873.4271',1119.22')	
6	Line	5.00'		S0° 10' 00"W	0+32.22'	0+37.22'				(5545727.2525',3833873.4271',1119.22')	(5545727.2380',3833868.4271',1119.12')	
7	Curve	7.54'	10.00'		0+37.22'	0+44.76'	43.2127 (d)	7.36'	S21° 26' 23"E	(5545727.2380',3833868.4271',1119.12')	(5545729.9299',3833861.5721',1117.35')	(5545737.2380',3833868.3980')
8	Curve	9.24'	15.00'		0+44.76'	0+54.01'	35.3125 (d)	9.10'	S25° 23' 23"E	(5545729.9299',3833861.5721',1117.35')	(5545733.8314',3833853.3518',1116.00')	(5545718.9678',3833851.3333')
9	Line	4.74'		S7° 44' 01"E	0+54.01'	0+58.75'				(5545733.8314',3833853.3518',1116.00')	(5545734.4696',3833848.6527',1115.87')	

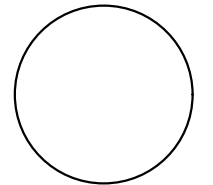
SIDEWALK PAVEMENT EDGE CONTROL SHOWER NW WALK

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	5.00'		S88° 19' 45"E	0+00.00'	0+05.00'				(5545668.6841',3833949.7126',1118.66')	(5545673.6820',3833949.5669',1118.66')	
2	Curve	15.71'	10.00'		0+05.00'	0+20.71'	90.0000 (d)	14.14'	S43° 19' 45"E	(5545673.6820',3833949.5669',1118.66')	(5545683.3862',3833939.2796',1118.90')	(5545673.3904',3833939.5711')
3	Line	8.08'		S1° 40' 15"W	0+20.71'	0+28.79'				(5545683.3862',3833939.2796',1118.90')	(5545683.1505',3833931.2004',1119.15')	
4	Curve	4.07'	5.00'		0+28.79'	0+32.86'	46.6346 (d)	3.96'	S21° 38' 48"E	(5545683.1505',3833931.2004',1119.15')	(5545684.6106',3833927.5213',1119.30')	(5545688.1484',3833931.0546')
5	Line	5.96'		S44° 57' 50"E	0+32.86'	0+38.82'				(5545684.6106',3833927.5213',1119.30')	(5545688.8246',3833923.3020',1119.49')	
6	Line	4.01'		S45° 02' 10"W	0+38.82'	0+42.83'				(5545688.8246',3833923.3020',1119.49')	(5545685.9880',3833920.4690',1119.44')	
7	Line	6.90'		N44° 57' 50"W	0+42.83'	0+49.73'				(5545685.9880',3833920.4690',1119.44')	(5545681.1126',3833925.3506',1119.25')	
8	Curve	8.14'	10.00'		0+49.73'	0+57.87'	46.6346 (d)	7.92'	N21° 38' 48"W	(5545681.1126',3833925.3506',1119.25')	(5545678.1924',3833932.7087',1119.05')	(5545688.1881',3833932.4172')
9	Line	6.72'		N1° 40' 15"E	0+57.87'	0+64.59'				(5545678.1924',3833932.7087',1119.05')	(5545678.3883',3833939.4253',1118.85')	
10	Curve	7.85'	5.00'		0+64.59'	0+72.44'	90.0000 (d)	7.07'	N43° 19' 45"W	(5545678.3883',3833939.4253',1118.85')	(5545673.5362',3833944.5690',1118.59')	(5545673.3904',3833939.5711')
11	Line	5.00'		N88° 19' 45"W	0+72.44'	0+77.44'				(5545673.5362',3833944.5690',1118.59')	(5545668.5383',3833944.7148',1118.34')	

SIDEWALK PAVEMENT EDGE CONTROL SHOWER SW WALK

No.	Type	Length	Direction	Start Station	End Station	Start Point	End Point
1	Line	6.18'	N30° 38' 26"E	0+00.00'	0+06.18'	(5545670.6416',3833855.7633',1116.16')	(5545673.7896',3833861.0776',1116.71')
2	Line	4.02'	S59° 21' 34"E	0+06.18'	0+10.19'	(5545673.7896',3833861.0776',1116.71')	(5545677.2449',3833859.0309',1116.84')
3	Line	8.00'	S30° 53' 00"W	0+10.19'	0+18.19'	(5545677.2449',3833859.0309',1116.84')	(5545673.1385',3833852.1652',1116.00')

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



WEST ROAD PAVEMENT EDGE CTL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
21-03-22-01

CHKD BY: DATE:
5/01/2021

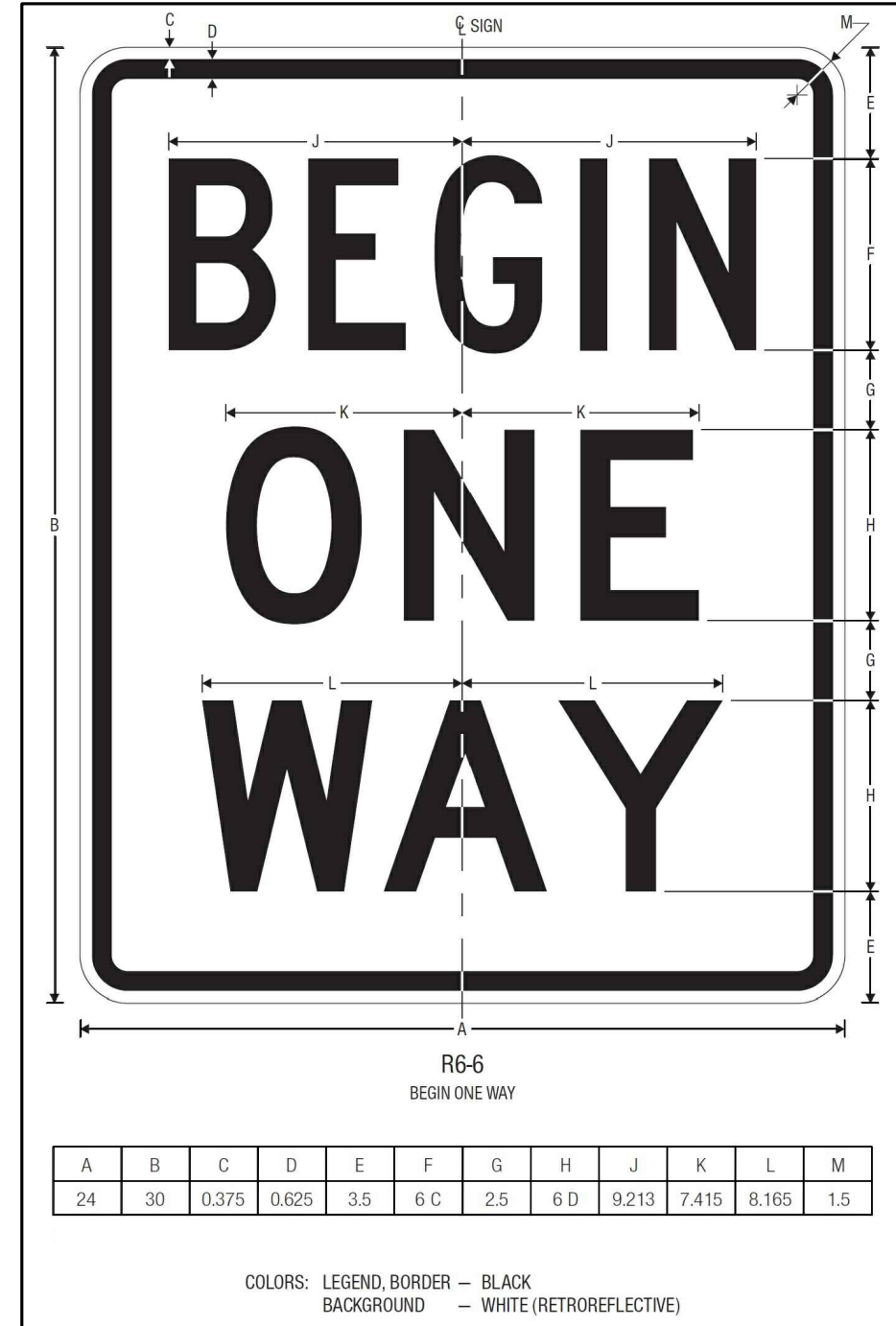
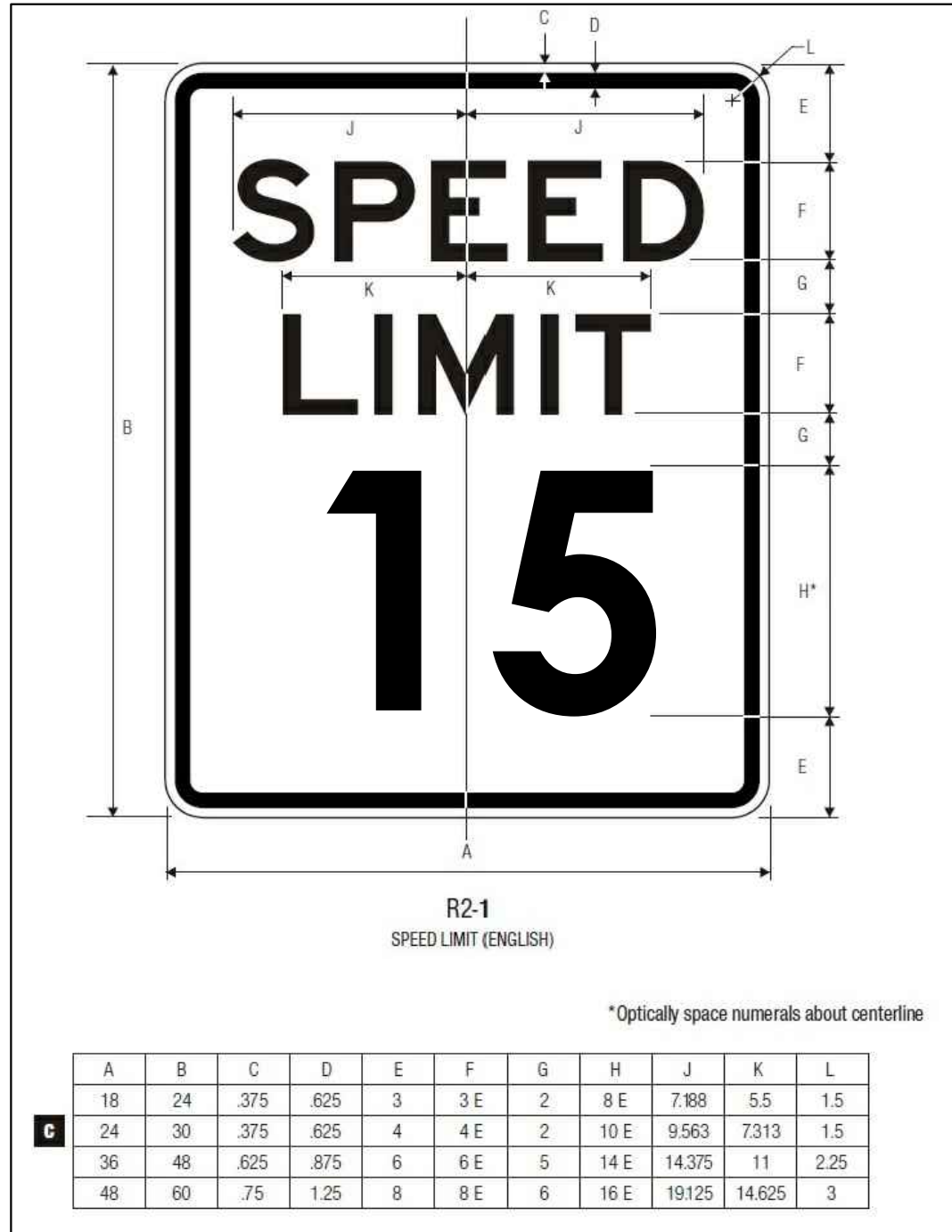
SHEET No:

66

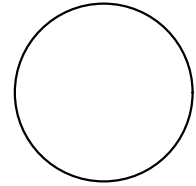
SIGNAGE QUANTITIES

- 2 EA R2-1 24"x30" 'SPEED LIMIT 15' SIGN
- 2 EA R1-1 'STOP' SIGN
- 3 EA R5-1 'DO NOT ENTER' SIGN
- 1 EA R6-1R 'ONE WAY' LEFT SIGN
- 2 EA R6-6 'BEGIN ONE WAY' SIGN
- 1 EA 12"x18" 'SLOW-STEEP GRADE AHEAD' (K-5750)
IN 3M DIAMOND GRADE FLUORESCENT YELLOW

SEE SHEETS #49, 54, 55, 60, 61,
62, 63, & 65 FOR SIGN LOCATIONS.



CONSULTANT:



**IOWA DEPARTMENT OF
NATURAL RESOURCES**

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



SIGNAGE DETAILS

CONSTRUCTION PROJECT FOR:

**PIKES PEAK CAMPGROUND
UPGRADE PROJECT**

CLAYTON COUNTY, IOWA

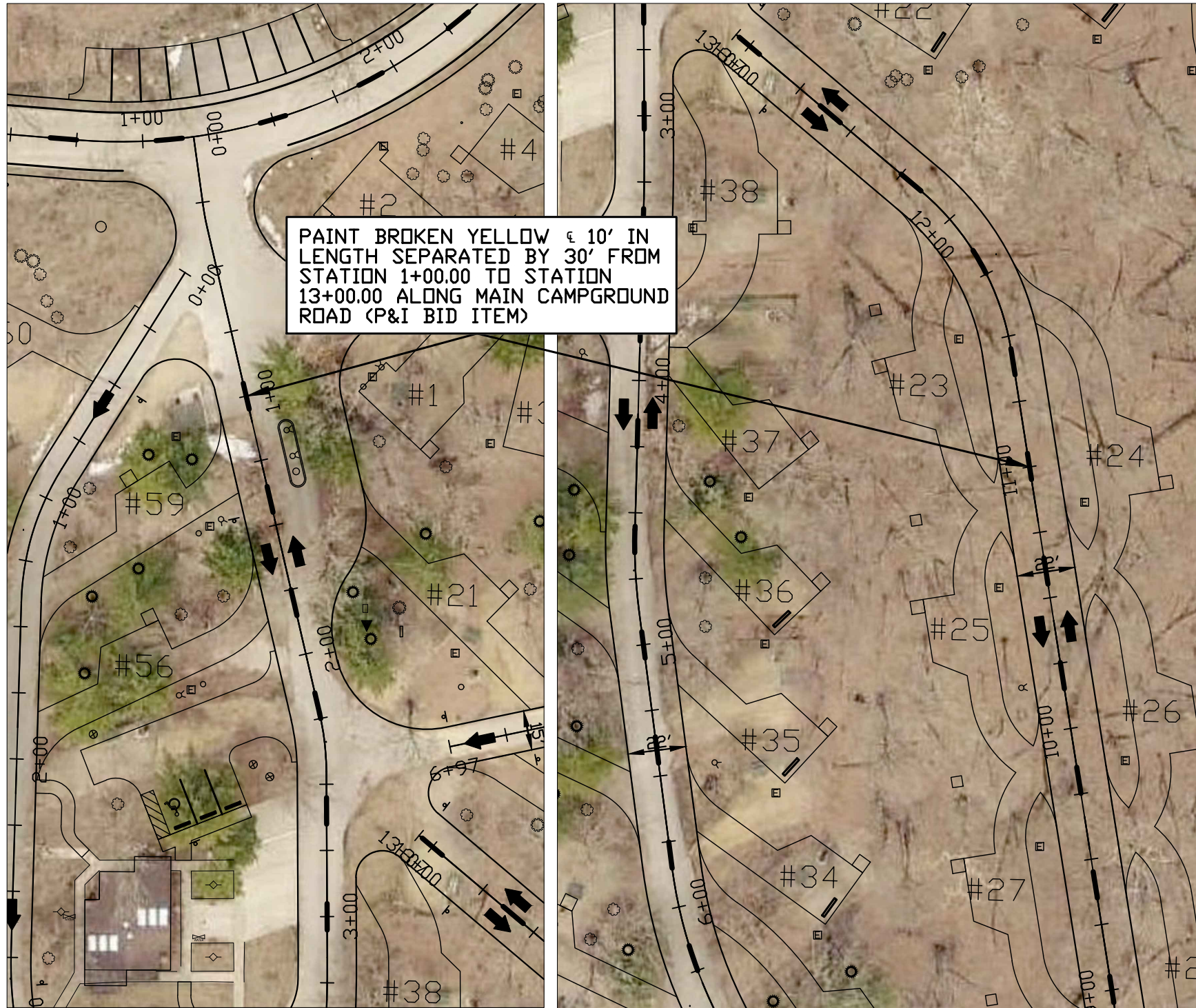
NO. BY DATE REVISION

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SHEET No:

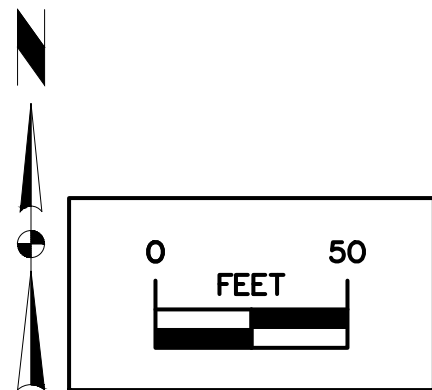
SEE SHEET #70 FOR CONTINUATION SEE ADJACENT FOR CONTINUATION



PAIN'T BROKEN YELLOW € 10' IN LENGTH SEPARATED BY 30' FROM STATION 1+00.00 TO STATION 13+00.00 ALONG MAIN CAMPGROUND ROAD (P&I BID ITEM)

SEE ADJACENT FOR CONTINUATION

NOTE: PAINT STRIPING AND MARKINGS SHALL BE IN ACCORDANCE TO IDOT SECTION 4183 'TRAFFIC PAINTS AND PAVEMENT MARKINGS'.

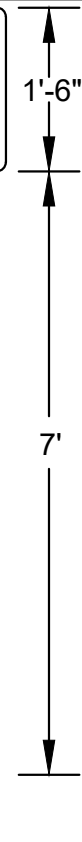


MUTCD R7-8
SOLID GREEN LEGEND AND BORDER
REFLECTIVE WHITE BACKGROUND
WHITE ACCESSIBILITY SYMBOL ON BLUE BACKGROUND



"U"-CHANNEL POST (2 LBS./FT.)

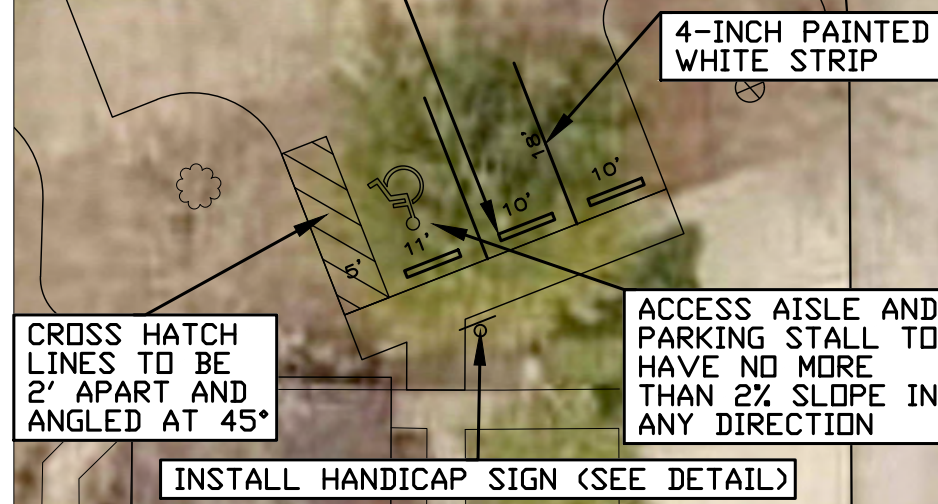
GROUND SURFACE
3.5-FOOT DEPTH



NOTES
1. 12"x18" ACCESSIBILITY SIGN (R7-8) SHALL BE MOUNTED 7' FROM FINISH GRADE TO BOTTOM EDGE OF SIGN FACE.
2. SIGNAGE FOR TO BE LOCATED ON END OF PARKING STALL, 2' BACK FROM EDGE OF PAVEMENT, CENTERED ON STALL IF POSSIBLE. "U" CHANNEL CAN BE DRIVEN INTO GROUND AT SAID LOCATION TO A DEPTH OF 3.5 FEET.
3. ALL SIGNAGE SHALL BE ENGINEER GRADE .080 ALUMINUM REFLECTIVE SIGN MEETING THE REQUIREMENTS OF THE MUTCD AND ADAAG.
4. SURFACE MOUNTING BASE TO BE 15-INCH DIAMETER ALUMINUM BASE (OR EQUIVALENT) THAT IS COMPATIBLE WITH 2 LBS./FT. "U" CHANNEL.

HANDICAP SIGN DETAIL
NOT TO SCALE

INSTALL (3) 6' PRECAST CONCRETE PARKING WHEEL STOPS LOCATED 2' OFF END OF STALL & CENTERED WITHIN STALL (TYP). CONTRACTOR TO ANCHOR WHEEL STOPS INTO PAVEMENT WITH #4 REBAR OR 1/2-INCH DOWELS, 18-INCH LENGTH. SEE DETAIL ON SHEET #70.



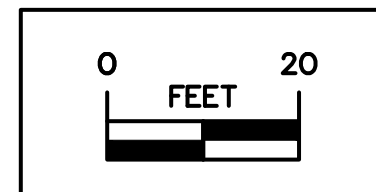
CROSS HATCH LINES TO BE 2' APART AND ANGLED AT 45°

ACCESS AISLE AND PARKING STALL TO HAVE NO MORE THAN 2% SLOPE IN ANY DIRECTION

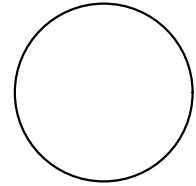
INSTALL HANDICAP SIGN (SEE DETAIL)

SHOWER PARKING AREA PAVEMENT MARKINGS (NON P&I BID ITEM)

NOTE: PARKING SPACE PAVEMENT STRIPING AND HANDICAP PARKING CROSS HATCH MARKINGS TO BE LUMP SUM BID ITEM #75.



CONSULTANT:



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ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



PAVEMENT MARKINGS

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

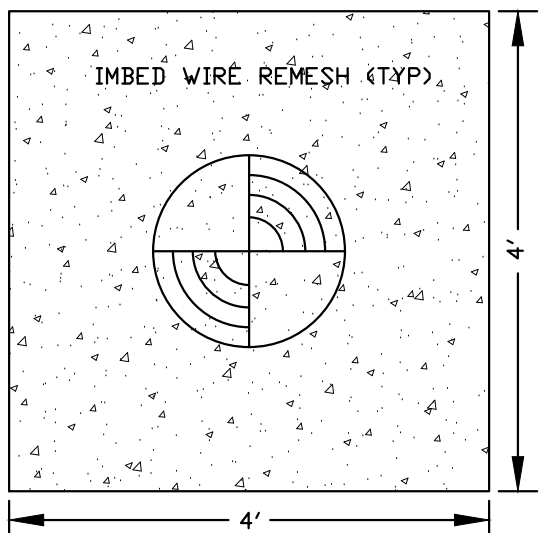
DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHKD BY: DATE:

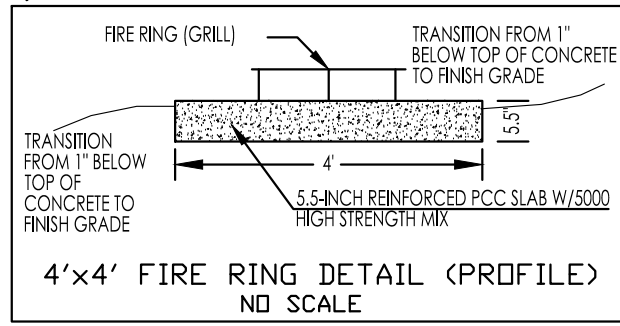
5/01/2021

SHEET No:



4'x4' FIRE RING DETAIL (PLAN)
NO SCALE

- FIRE RING NOTES:**
1. FIRE RINGS SHALL BE 4'x4'x5.5' DEPTH (USE 2'x6' BOARDS FOR FORMS).
 2. THEY SHALL HAVE WIRE REMESH PLACED AT MID-DEPTH (2.75').
 3. CONTRACTOR TO SET THE CAMPFIRE RING ANCHORS INTO THE WET CEMENT TO A 4' DEPTH. COORDINATE CONSTRUCTION TECHNIQUES WITH PARK MANAGER MATT TSCHIRGI (563-873-2341).
 4. CONTRACTOR TO USE 5,000 PSI HIGH STRENGTH CONCRETE THAT SETS IN 10-12 HOURS FOR THE FIRE RINGS (1.8 SY EACH). FIRE RINGS NEED TO CURE FOR 90 DAYS PRIOR TO FIRE USAGE, CONTRACTOR TO POUR THE FIRE RINGS TO ACCOMMODATE THIS SCHEDULE.
 5. TOP OF FIRE RINGS SHALL BE 1-INCH ABOVE FINISH GRADE FOR DRAINAGE.
 6. ALL ITEMS DESCRIBED TO BE INCLUDED IN BID ITEM.
 7. THERE ARE 60 FIRE RINGS IN TOTAL. THE OWNER WILL SUPPLY THE GRILLS TO THE CONTRACTOR. 4 OF THE GRILLS WILL BE ADA APPROVED (18-INCH HEIGHT), THE OTHER 56 GRILLS WILL BE 12-INCH HEIGHTS. THE ADA SITES ARE CAMPPADS #1, 2, 38 AND 55.



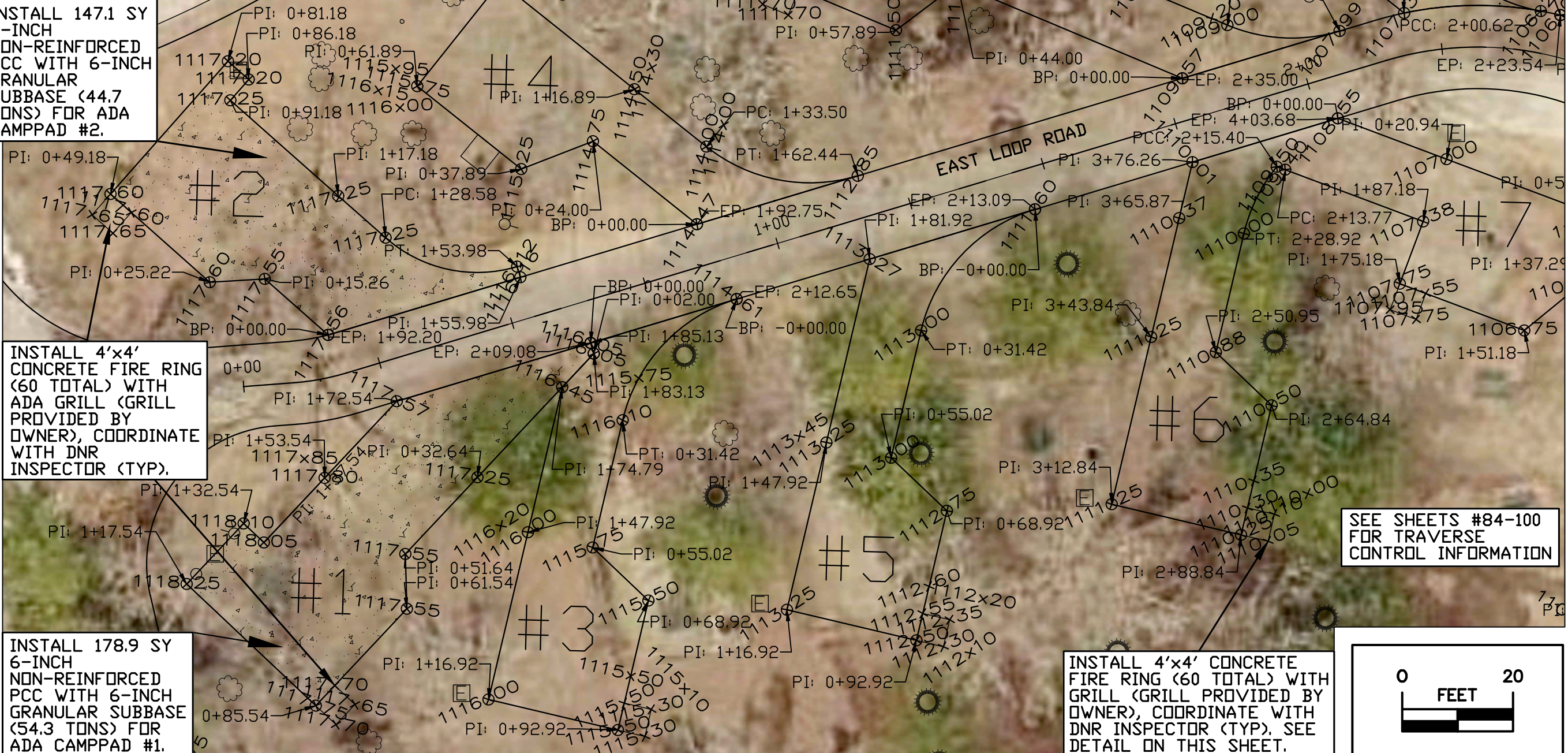
4'x4' FIRE RING DETAIL (PROFILE)
NO SCALE

INSTALL ENGINEERING FABRIC (7,770 SY TOTAL) ON TOP OF COMPACTED SUBGRADE WITH A 4-INCH DEPTH MACADAM STONE (1,515 TONS TOTAL) AND A 2-INCH CAP LAYER OF CLASS 'A' CRUSHED STONE (990 TONS TOTAL, ALLOWS FOR 10% SHRINK) FOR EACH CAMPPAD (TYP).

INSTALL 147.1 SY 6-INCH NON-REINFORCED PCC WITH 6-INCH GRANULAR SUBBASE (44.7 TONS) FOR ADA CAMPPAD #2.

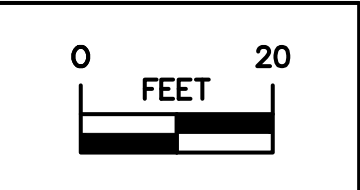
INSTALL 4'x4' CONCRETE FIRE RING (60 TOTAL) WITH ADA GRILL (GRILL PROVIDED BY OWNER), COORDINATE WITH DNR INSPECTOR (TYP).

INSTALL 178.9 SY 6-INCH NON-REINFORCED PCC WITH 6-INCH GRANULAR SUBBASE (54.3 TONS) FOR ADA CAMPPAD #1.



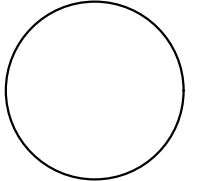
SEE SHEETS #84-100 FOR TRAVERSE CONTROL INFORMATION

INSTALL 4'x4' CONCRETE FIRE RING (60 TOTAL) WITH GRILL (GRILL PROVIDED BY OWNER), COORDINATE WITH DNR INSPECTOR (TYP). SEE DETAIL ON THIS SHEET.



SEE SHEET #74 FOR CONTINUATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01
CHKD BY: DATE: 5/01/2021
SHEET NO: 73

SEE SHEET #76 FOR CONTINUATION

SEE ADJACENT FOR CONTINUATION

SEE SHEETS #84-100 FOR TRAVERSE CONTROL INFORMATION



INSTALL ENGINEERING FABRIC (7,770 SY TOTAL) ON TOP OF COMPACTED SUBGRADE WITH A 4-INCH DEPTH MACADAM STONE (1,515 TONS TOTAL) AND A 2-INCH CAP LAYER OF CLASS 'A' CRUSHED STONE (990 TONS TOTAL, ALLOWS FOR 10% SHRINK) FOR EACH CAMPPAD (TYP).

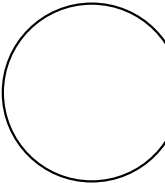
INSTALL 4'x4' CONCRETE FIRE RING (60 TOTAL) WITH GRILL (TYP).

SEE SHEET #73 FOR FIRE RING DETAIL

SEE ADJACENT FOR CONTINUATION

SEE SHEET #78 FOR CONTINUATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

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21-03-22-01

CHKD BY: DATE:

5/01/2021

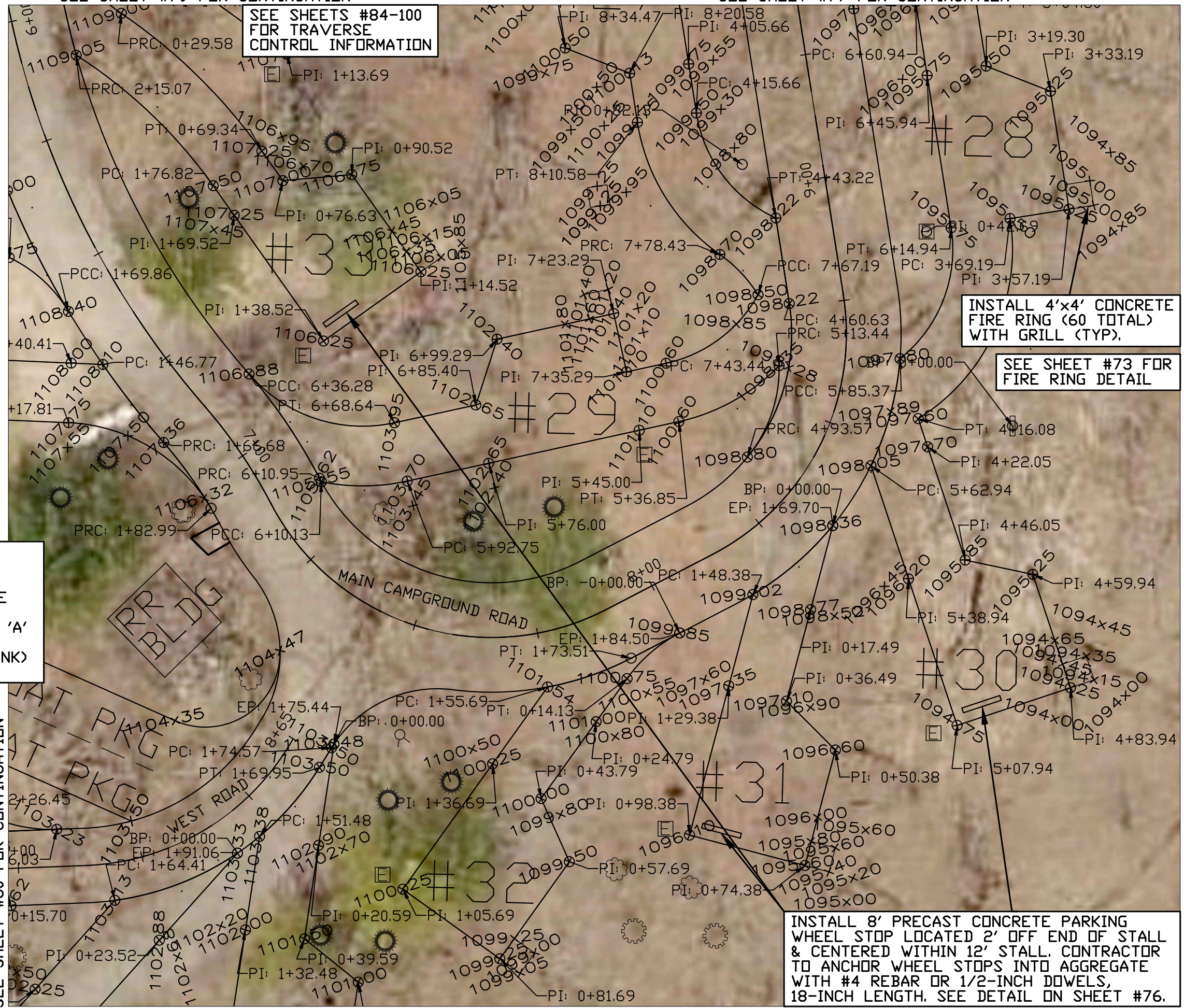
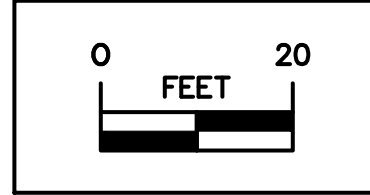
SHEET No:

77

SEE SHEET #79 FOR CONTINUATION

SEE SHEET #77 FOR CONTINUATION

SEE SHEETS #84-100 FOR TRAVERSE CONTROL INFORMATION



INSTALL ENGINEERING FABRIC (7,770 SY TOTAL) ON TOP OF COMPACTED SUBGRADE WITH A 4-INCH DEPTH MACADAM STONE (1,515 TONS TOTAL) AND A 2-INCH CAP LAYER OF CLASS 'A' CRUSHED STONE (990 TONS TOTAL, ALLOWS FOR 10% SHRINK) FOR EACH CAMPPAD (TYP).

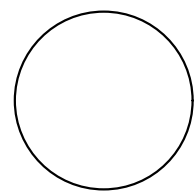
INSTALL 4'x4' CONCRETE FIRE RING (60 TOTAL) WITH GRILL (TYP).

SEE SHEET #73 FOR FIRE RING DETAIL

INSTALL 8' PRECAST CONCRETE PARKING WHEEL STOP LOCATED 2' OFF END OF STALL & CENTERED WITHIN 12' STALL. CONTRACTOR TO ANCHOR WHEEL STOPS INTO AGGREGATE WITH #4 REBAR OR 1/2-INCH DOWELS, 18-INCH LENGTH. SEE DETAIL ON SHEET #76.

SEE SHEET #80 FOR CONTINUATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

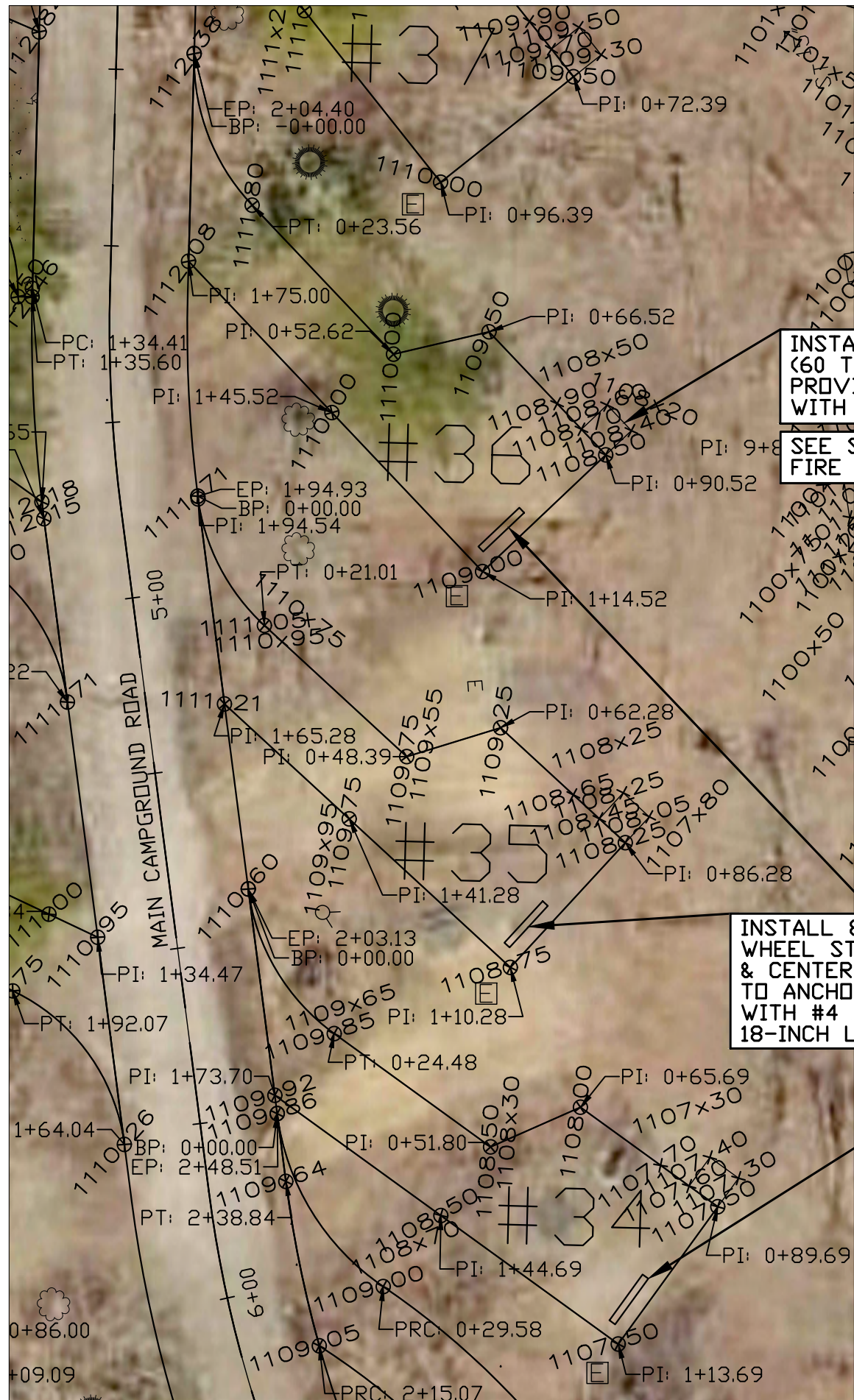
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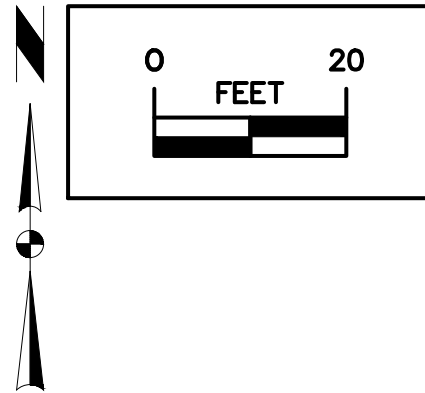
CHKD BY: DATE: 5/01/2021

SHEET No:

SEE ADJACENT FOR CONTINUATION



SEE SHEET #78 FOR CONTINUATION



INSTALL 4'x4' CONCRETE FIRE RING (60 TOTAL) WITH GRILL (GRILL PROVIDED BY OWNER), COORDINATE WITH DNR INSPECTOR (TYP).

SEE SHEET #73 FOR FIRE RING DETAIL

INSTALL 4'x4' CONCRETE FIRE RING (60 TOTAL) WITH ADA GRILL (GRILL PROVIDED BY OWNER), COORDINATE WITH DNR INSPECTOR (TYP).

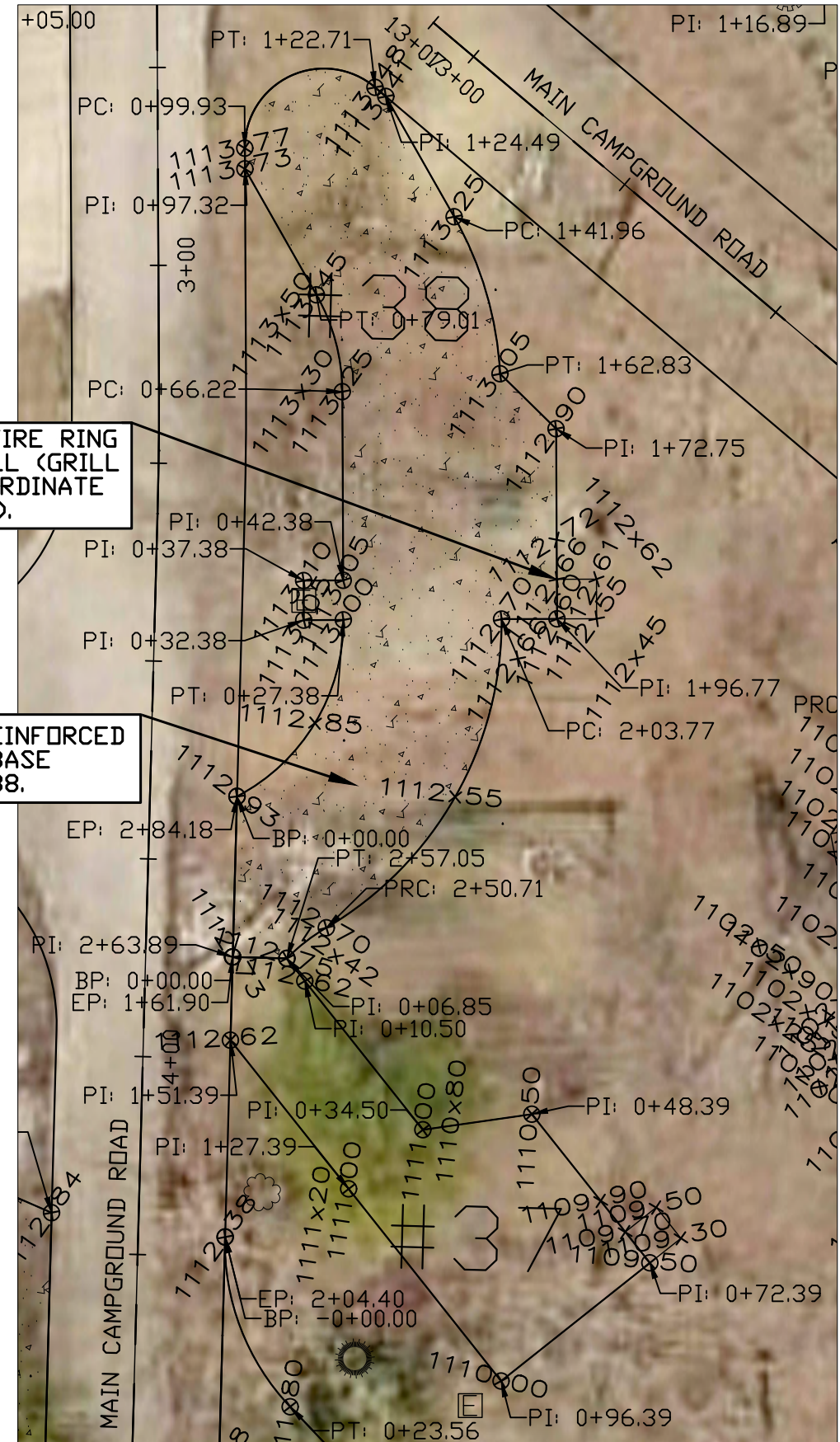
SEE SHEETS #84-100 FOR TRAVERSE CONTROL INFORMATION

INSTALL 277.7 SY 6-INCH NON-REINFORCED PCC WITH 6-INCH GRANULAR SUBBASE (87.5 TONS) FOR ADA CAMPPAD #38.

INSTALL 8' PRECAST CONCRETE PARKING WHEEL STOP LOCATED 2' OFF END OF STALL & CENTERED WITHIN 12' STALL. CONTRACTOR TO ANCHOR WHEEL STOPS INTO AGGREGATE WITH #4 REBAR OR 1/2-INCH DOWELS, 18-INCH LENGTH. SEE DETAIL ON SHEET #76.

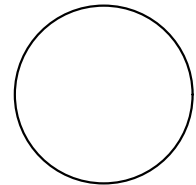
INSTALL ENGINEERING FABRIC (7,770 SY TOTAL) ON TOP OF COMPACTED SUBGRADE WITH A 4-INCH DEPTH MACADAM STONE (1,515 TONS TOTAL) AND A 2-INCH CAP LAYER OF CLASS 'A' CRUSHED STONE (990 TONS TOTAL, ALLOWS FOR 10% SHRINK) FOR EACH CAMPPAD (TYP).

SEE SHEET #76 FOR CONTINUATION



SEE ADJACENT FOR CONTINUATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHKD BY: DATE:

5/01/2021

SHEET NO:

79

CAMPPAD TRAVERSE ALIGNMENT CONTROL (CONT.)

CAMPPAD #9

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	26.67'		N51° 44' 26"W	0+00.00'	0+26.67'				(5546010.3879', 3834199.4519', 1107.37')	(5545989.4434', 3834215.9689', 1106.75')	
2	Line	17.33'		N51° 44' 26"W	0+26.67'	0+44.00'				(5545989.4434', 3834215.9689', 1106.75')	(5545975.8387', 3834226.6976', 1107.00')	
3	Line	13.89'		S68° 30' 57"W	0+44.00'	0+57.89'				(5545975.8387', 3834226.6976', 1107.00')	(5545962.9116', 3834221.6095', 1107.50')	
4	Line	24.00'		N51° 44' 26"W	0+57.89'	0+81.89'				(5545962.9116', 3834221.6095', 1107.50')	(5545944.0664', 3834236.4709', 1108.00')	
5	Line	24.00'		N38° 15' 34"E	0+81.89'	1+05.89'				(5545944.0664', 3834236.4709', 1108.00')	(5545958.9278', 3834255.3161', 1107.00')	
6	Line	31.00'		S51° 44' 26"E	1+05.89'	1+36.89'				(5545958.9278', 3834255.3161', 1107.00')	(5545983.2694', 3834236.1201', 1106.75')	
7	Line	17.33'		S51° 44' 26"E	1+36.89'	1+54.22'				(5545983.2694', 3834236.1201', 1106.75')	(5545996.8741', 3834225.3915', 1106.50')	
8	Line	31.66'		S51° 44' 26"E	1+54.22'	1+85.88'				(5545996.8741', 3834225.3915', 1106.50')	(5546021.7323', 3834205.7881', 1106.90')	
9	Curve	14.74'	30.00'		1+85.88'	2+00.62'	28.1558 (d)	14.59'	S65° 49' 06"E	(5546021.7323', 3834205.7881', 1106.90')	(5546035.0461', 3834199.8098', 1106.24')	(5546040.3090', 3834229.3446')
10	Curve	24.81'	65.00'		2+00.62'	2+25.43'	21.8704 (d)	24.66'	S89° 10' 07"W	(5546035.0461', 3834199.8098', 1106.24')	(5546010.3879', 3834199.4519', 1107.37')	(5546023.6432', 3834135.8178')

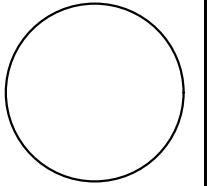
CAMPPAD #10

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	44.00'		N20° 43' 42"W	0+00.00'	0+44.00'				(5546038.5709', 3834199.0805', 1106.08')	(5546022.9976', 3834240.2323', 1102.50')	
2	Line	13.89'		N80° 28' 19"W	0+44.00'	0+57.89'				(5546022.9976', 3834240.2323', 1102.50')	(5546009.2968', 3834242.5319', 1102.50')	
3	Line	24.00'		N20° 43' 42"W	0+57.89'	0+81.89'				(5546009.2968', 3834242.5319', 1102.50')	(5546000.8023', 3834264.9784', 1102.00')	
4	Line	24.00'		N69° 16' 18"E	0+81.89'	1+05.89'				(5546000.8023', 3834264.9784', 1102.00')	(5546023.2487', 3834273.4729', 1101.00')	
5	Line	31.00'		S20° 43' 42"E	1+05.89'	1+36.89'				(5546023.2487', 3834273.4729', 1101.00')	(5546034.2208', 3834244.4796', 1102.25')	
6	Line	44.16'		S20° 43' 42"E	1+36.89'	1+81.06'				(5546034.2208', 3834244.4796', 1102.25')	(5546049.8521', 3834203.1747', 1105.75')	
7	Curve	18.03'	30.00'		1+81.06'	1+99.09'	34.4355 (d)	17.76'	S37° 56' 46"E	(5546049.8521', 3834203.1747', 1105.75')	(5546060.7732', 3834189.1692', 1105.11')	(5546077.9101', 3834213.7928')
8	Curve	24.46'	65.00'		1+99.09'	2+23.54'	21.5592 (d)	24.31'	N65° 56' 37"W	(5546060.7732', 3834189.1692', 1105.11')	(5546038.5709', 3834199.0805', 1106.08')	(5546023.6432', 3834135.8178')

CAMPPAD #11

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	29.00'		N6° 08' 15"E	0+00.00'	0+29.00'				(5546085.1945', 3834156.7089', 1103.66')	(5546088.2951', 3834185.5427', 1102.00')	
2	Line	13.89'		N53° 36' 22"W	0+29.00'	0+42.89'				(5546088.2951', 3834185.5427', 1102.00')	(5546077.1123', 3834193.7855', 1102.00')	
3	Line	24.00'		N6° 08' 15"E	0+42.89'	0+66.89'				(5546077.1123', 3834193.7855', 1102.00')	(5546079.6782', 3834217.6480', 1101.00')	
4	Line	24.00'		S83° 51' 45"E	0+66.89'	0+90.89'				(5546079.6782', 3834217.6480', 1101.00')	(5546103.5407', 3834215.0820', 1100.50')	
5	Line	31.00'		S6° 08' 15"W	0+90.89'	1+21.89'				(5546103.5407', 3834215.0820', 1100.50')	(5546100.2263', 3834184.2597', 1101.75')	
6	Line	29.00'		S6° 08' 15"W	1+21.89'	1+50.89'				(5546100.2263', 3834184.2597', 1101.75')	(5546097.1257', 3834155.4259', 1103.40')	
7	Line	24.34'		S6° 08' 15"W	1+50.89'	1+75.23'				(5546097.1257', 3834155.4259', 1103.40')	(5546094.5237', 3834131.2287', 1102.57')	
8	Curve	11.30'	30.00'		1+75.23'	1+86.53'	21.5747 (d)	11.23'	S4° 38' 59"E	(5546094.5237', 3834131.2287', 1102.57')	(5546095.4341', 3834120.0358', 1102.17')	(5546124.3518', 3834128.0212')
9	Line	34.32'		N15° 26' 14"W	1+86.53'	2+20.85'				(5546095.4341', 3834120.0358', 1102.17')	(5546086.2982', 3834153.1197', 1103.53')	
10	Curve	3.76'	65.00'		2+20.85'	2+24.60'	3.3105 (d)	3.76'	N17° 05' 33"W	(5546086.2982', 3834153.1197', 1103.53')	(5546085.1945', 3834156.7089', 1103.66')	(5546023.6432', 3834135.8178')

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHKD BY: DATE:

5/01/2021

SHEET No:

CAMPPAD TRAVERSE ALIGNMENT CONTROL (CONT.)

CAMPPAD #16

EXISTING CAMPPAD

CAMPPAD #17

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	15.71'	30.00'		0+00.00'	0+15.71'	30.0000 (d)	15.53'	N59° 33' 46"E	(5545959.5353',3834001.6406',1104.62')	(5545972.9243',3834009.5076',1103.60')	(5545951.5498',3834030.5583')
2	Line	12.75'		N44° 33' 46"E	0+15.71'	0+28.45'				(5545972.9243',3834009.5076',1103.60')	(5545981.8681',3834018.5890',1103.15')	
3	Line	24.00'		N44° 33' 46"E	0+28.45'	0+52.45'				(5545981.8681',3834018.5890',1103.15')	(5545998.7087',3834035.6885',1104.00')	
4	Line	13.89'		N15° 10' 51"W	0+52.45'	0+66.35'				(5545998.7087',3834035.6885',1104.00')	(5545995.0707',3834049.0962',1104.50')	
5	Line	24.00'		N44° 33' 46"E	0+66.35'	0+90.35'				(5545995.0707',3834049.0962',1104.50')	(5546011.9113',3834066.1957',1105.00')	
6	Line	24.00'		S45° 26' 14"E	0+90.35'	1+14.35'				(5546011.9113',3834066.1957',1105.00')	(5546029.0109',3834049.3552',1104.00')	
7	Line	31.00'		S44° 33' 46"W	1+14.35'	1+45.35'				(5546029.0109',3834049.3552',1104.00')	(5546007.2585',3834027.2682',1103.60')	
8	Line	24.00'		S44° 33' 46"W	1+45.35'	1+69.35'				(5546007.2585',3834027.2682',1103.60')	(5545990.4179',3834010.1687',1102.67')	
9	Line	32.04'		S74° 33' 46"W	1+69.35'	2+01.38'				(5545990.4179',3834010.1687',1102.67')	(5545959.5353',3834001.6406',1104.62')	

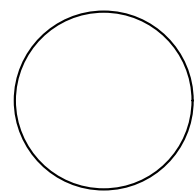
CAMPPAD #18

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	17.59'	30.00'		0+00.00'	0+17.59'	33.5920 (d)	17.34'	N61° 21' 28"E	(5545903.1403',3833986.2850',1108.20')	(5545918.3565',3833994.5957',1107.00')	(5545896.9818',3834015.6461')
2	Line	12.44'		N44° 33' 46"E	0+17.59'	0+30.03'				(5545918.3565',3833994.5957',1107.00')	(5545927.0884',3834003.4619',1106.60')	
3	Line	24.00'		N44° 33' 46"E	0+30.03'	0+54.03'				(5545927.0884',3834003.4619',1106.60')	(5545943.9290',3834020.5614',1106.75')	
4	Line	13.89'		N15° 10' 51"W	0+54.03'	0+67.93'				(5545943.9290',3834020.5614',1106.75')	(5545940.2911',3834033.9691',1107.25')	
5	Line	24.00'		N44° 33' 46"E	0+67.93'	0+91.93'				(5545940.2911',3834033.9691',1107.25')	(5545957.1316',3834051.0687',1107.50')	
6	Line	24.00'		S45° 26' 14"E	0+91.93'	1+15.93'				(5545957.1316',3834051.0687',1107.50')	(5545974.2312',3834034.2281',1106.50')	
7	Line	31.00'		S44° 33' 46"W	1+15.93'	1+46.93'				(5545974.2312',3834034.2281',1106.50')	(5545952.4788',3834012.1411',1106.50')	
8	Line	24.00'		S44° 33' 46"W	1+46.93'	1+70.93'				(5545952.4788',3834012.1411',1106.50')	(5545935.6382',3833995.0416',1106.13')	
9	Line	27.42'		S74° 33' 46"W	1+70.93'	1+98.34'				(5545935.6382',3833995.0416',1106.13')	(5545909.2117',3833987.7441',1107.79')	
10	Curve	5.80'	92.50'		1+98.34'	2+04.14'	3.5911 (d)	5.80'	S76° 21' 30"W	(5545909.2117',3833987.7441',1107.79')	(5545903.5787',3833986.3769',1108.17')	(5545884.5899',3834076.9069')
11	Line	0.45'		S78° 09' 14"W	2+04.14'	2+04.59'				(5545903.5787',3833986.3769',1108.17')	(5545903.1403',3833986.2850',1108.20')	

CAMPPAD #19

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	24.00'		S51° 50' 46"E	0+00.00'	0+24.00'				(5545916.9653',3833974.3237',1107.26')	(5545935.8378',3833959.4971',1105.45')	
2	Line	13.89'		N68° 24' 37"E	0+24.00'	0+37.89'				(5545935.8378',3833959.4971',1105.45')	(5545948.7556',3833964.6089',1105.45')	
3	Line	24.00'		S51° 50' 46"E	0+37.89'	0+61.89'				(5545948.7556',3833964.6089',1105.45')	(5545967.6281',3833949.7823',1104.70')	
4	Line	24.00'		S38° 09' 14"W	0+61.89'	0+85.89'				(5545967.6281',3833949.7823',1104.70')	(5545952.8015',3833930.9098',1104.20')	
5	Line	31.00'		N51° 50' 46"W	0+85.89'	1+16.89'				(5545952.8015',3833930.9098',1104.20')	(5545928.4245',3833950.0608',1105.45')	
6	Line	19.49'		N51° 50' 46"W	1+16.89'	1+36.38'				(5545928.4245',3833950.0608',1105.45')	(5545913.1020',3833962.0985',1107.00')	
7	Curve	26.18'	30.00'		1+36.38'	1+62.56'	50.0003 (d)	25.36'	N76° 50' 47"W	(5545913.1020',3833962.0985',1107.00')	(5545888.4101',3833967.8689',1109.01')	(5545894.5688',3833938.5079')
8	Line	18.64'		N78° 09' 14"E	1+62.56'	1+81.20'				(5545888.4101',3833967.8689',1109.01')	(5545906.6579',3833971.6964',1107.87')	
9	Curve	6.74'	107.50'		1+81.20'	1+87.94'	3.5911 (d)	6.74'	N76° 21' 30"E	(5545906.6579',3833971.6964',1107.87')	(5545913.2044',3833973.2852',1107.49')	(5545884.5899',3834076.9069')
10	Line	3.90'		N74° 33' 46"E	1+87.94'	1+91.84'				(5545913.2044',3833973.2852',1107.49')	(5545916.9653',3833974.3237',1107.26')	

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
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CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND UPGRADE PROJECT
 CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER: **21-03-22-01**
 CHKD BY: DATE: **5/01/2021**

CAMPPAD TRAVERSE ALIGNMENT CONTROL (CONT.)

CAMPPAD #20 & 21

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	35.27'		N45° 15' 46"W	0+00.00'	0+35.27'				(5545855.5952', 3833976.3124', 1111.16')	(5545830.5407', 3834001.1381', 1115.00')	
2	Line	31.00'		N45° 15' 46"W	0+35.27'	0+66.27'				(5545830.5407', 3834001.1381', 1115.00')	(5545808.5202', 3834022.9577', 1116.20')	
3	Line	11.94'		N45° 15' 46"W	0+66.27'	0+78.21'				(5545808.5202', 3834022.9577', 1116.20')	(5545800.0417', 3834031.3588', 1117.00')	
4	Curve	10.68'	38.00'		0+78.21'	0+88.89'	16.1033 (d)	10.64'	N53° 18' 52"W	(5545800.0417', 3834031.3588', 1117.00')	(5545791.5052', 3834037.7184', 1117.75')	(5545773.2951', 3834004.3658')
5	Curve	21.28'	40.00'		0+88.89'	1+10.17'	30.4883 (d)	21.03'	N2° 12' 42"E	(5545791.5052', 3834037.7184', 1117.75')	(5545792.3170', 3834058.7373', 1118.95')	(5545753.3473', 3834049.7172')
6	Line	4.90'		N13° 01' 57"W	1+10.17'	1+15.07'				(5545792.3170', 3834058.7373', 1118.95')	(5545791.2128', 3834063.5081', 1119.05')	
7	Curve	16.88'	30.00'		1+15.07'	1+31.94'	32.2303 (d)	16.65'	S29° 08' 51"E	(5545791.2128', 3834063.5081', 1119.05')	(5545799.3243', 3834048.9629', 1118.00')	(5545820.4400', 3834070.2732')
8	Line	12.90'		S45° 15' 46"E	1+31.94'	1+44.84'				(5545799.3243', 3834048.9629', 1118.00')	(5545808.4880', 3834039.8829', 1117.00')	
9	Line	11.94'		S45° 15' 46"E	1+44.84'	1+56.78'				(5545808.4880', 3834039.8829', 1117.00')	(5545816.9665', 3834031.4818', 1116.20')	
10	Line	13.89'		N74° 59' 38"E	1+56.78'	1+70.67'				(5545816.9665', 3834031.4818', 1116.20')	(5545830.3851', 3834035.0789', 1116.00')	
11	Line	24.00'		S45° 15' 46"E	1+70.67'	1+94.67'				(5545830.3851', 3834035.0789', 1116.00')	(5545847.4333', 3834018.1863', 1115.00')	
12	Line	12.00'		S44° 44' 14"W	1+94.67'	2+06.67'				(5545847.4333', 3834018.1863', 1115.00')	(5545838.9870', 3834009.6622', 1115.00')	
13	Line	27.04'		S45° 15' 46"E	2+06.67'	2+33.71'				(5545838.9870', 3834009.6622', 1115.00')	(5545858.1952', 3833990.6294', 1111.80')	
14	Curve	9.87'	30.00'		2+33.71'	2+43.58'	18.8526 (d)	9.83'	S54° 41' 20"E	(5545858.1952', 3833990.6294', 1111.80')	(5545866.2141', 3833984.9494', 1110.60')	(5545879.3110', 3834011.9396')
15	Line	6.74'		N44° 33' 46"E	2+43.58'	2+50.33'				(5545866.2141', 3833984.9494', 1110.60')	(5545870.9462', 3833989.7543', 1110.15')	
16	Line	28.99'		N44° 33' 46"E	2+50.33'	2+79.31'				(5545870.9462', 3833989.7543', 1110.15')	(5545891.2848', 3834010.4056', 1110.00')	
17	Line	13.89'		N15° 10' 51"W	2+79.31'	2+93.21'				(5545891.2848', 3834010.4056', 1110.00')	(5545887.6468', 3834023.8133', 1110.50')	
18	Line	24.00'		N44° 33' 46"E	2+93.21'	3+17.21'				(5545887.6468', 3834023.8133', 1110.50')	(5545904.4874', 3834040.9129', 1111.00')	
19	Line	24.00'		S45° 26' 14"E	3+17.21'	3+41.21'				(5545904.4874', 3834040.9129', 1111.00')	(5545921.5870', 3834024.0723', 1110.00')	
20	Line	31.00'		S44° 33' 46"W	3+41.21'	3+72.21'				(5545921.5870', 3834024.0723', 1110.00')	(5545899.8346', 3834001.9854', 1109.50')	
21	Line	29.00'		S44° 33' 46"W	3+72.21'	4+01.21'				(5545899.8346', 3834001.9854', 1109.50')	(5545879.4855', 3833981.3234', 1109.67')	
22	Line	24.41'		S78° 09' 14"W	4+01.21'	4+25.62'				(5545879.4855', 3833981.3234', 1109.67')	(5545855.5952', 3833976.3124', 1111.16')	

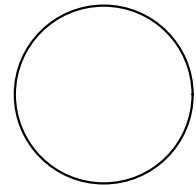
CAMPPAD #22

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	24.00'		S56° 50' 46"E	0+00.00'	0+24.00'				(5545849.1378', 3833959.6315', 1111.45')	(5545869.2307', 3833946.5061', 1110.00')	
2	Line	13.89'		N63° 24' 37"E	0+24.00'	0+37.89'				(5545869.2307', 3833946.5061', 1110.00')	(5545881.6539', 3833952.7243', 1109.50')	
3	Line	24.00'		S56° 50' 46"E	0+37.89'	0+61.89'				(5545881.6539', 3833952.7243', 1109.50')	(5545901.7468', 3833939.5990', 1109.00')	
4	Line	24.00'		S33° 09' 14"W	0+61.89'	0+85.89'				(5545901.7468', 3833939.5990', 1109.00')	(5545888.6214', 3833919.5061', 1108.50')	
5	Line	31.00'		N56° 50' 46"W	0+85.89'	1+16.89'				(5545888.6214', 3833919.5061', 1108.50')	(5545862.6681', 3833936.4596', 1109.75')	
6	Line	23.57'		N56° 50' 46"W	1+16.89'	1+40.47'				(5545862.6681', 3833936.4596', 1109.75')	(5545842.9321', 3833949.3518', 1111.50')	
7	Curve	20.62'	30.00'		1+40.47'	1+61.08'	39.3737 (d)	20.21'	N76° 31' 59"W	(5545842.9321', 3833949.3518', 1111.50')	(5545823.2751', 3833954.0591', 1112.95')	(5545826.5254', 3833924.2357')
8	Curve	1.70'	10.00'		1+61.08'	1+62.78'	9.7528 (d)	1.70'	N73° 16' 39"E	(5545823.2751', 3833954.0591', 1112.95')	(5545824.9033', 3833954.5483', 1112.91')	(5545826.9562', 3833944.7613')
9	Line	24.76'		N78° 09' 14"E	1+62.78'	1+87.55'				(5545824.9033', 3833954.5483', 1112.91')	(5545849.1378', 3833959.6315', 1111.45')	

CAMPPAD #23, 25, 27 & 29

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Line	3.11'		S49° 46' 54"E	0+00.00'	0+03.11'				(5545873.6829', 3833863.3411', 1106.02)	(5545876.0555', 3833861.3347', 1105.64')	
2	Curve	30.27'	89.00'		0+03.11'	0+33.37'	19.4851 (d)	30.12'	S40° 02' 21"E	(5545876.0555', 3833861.3347', 1105.64')	(5545895.4329', 3833838.2736', 1101.77')	(5545818.5880', 3833793.3753')
3	Curve	9.79'	40.00'		0+33.37'	0+43.16'	14.0233 (d)	9.77'	S12° 18' 01"W	(5545895.4329', 3833838.2736', 1101.77')	(5545893.3525', 3833828.7321', 1101.75')	(5545855.6032', 3833841.9606')
4	Curve	16.50'	28.00'		0+43.16'	0+59.67'	33.7736 (d)	16.27'	S2° 25' 31"W	(5545893.3525', 3833828.7321', 1101.75')	(5545892.6641', 3833812.4797', 1101.40')	(5545919.7769', 3833819.4721')
5	Line	31.00'		S14° 27' 42"E	0+59.67'	0+90.67'				(5545892.6641', 3833812.4797', 1101.40')	(5545900.4057', 3833782.4619', 1100.15')	
6	Line	10.00'		S14° 27' 42"E	0+90.67'	1+00.67'				(5545900.4057', 3833782.4619', 1100.15')	(5545902.9030', 3833772.7787', 1099.60')	
7	Curve	15.76'	28.00'		1+00.67'	1+16.43'	32.2432 (d)	15.55'	S30° 34' 59"E	(5545902.9030', 3833772.7787', 1099.60')	(5545910.8146', 3833759.3919', 1098.45')	(5545930.0159', 3833779.7712')
8	Curve	13.46'	28.00'		1+16.43'	1+29.88'	27.5354 (d)	13.33'	N4° 49' 53"E	(5545910.8146', 3833759.3919', 1098.45')	(5545911.9371', 3833772.6718', 1098.24')	(5545884.2770', 3833768.3224')
9	Line	44.97'		S8° 56' 11"E	1+29.88'	1+74.86'				(5545911.9371', 3833772.6718', 1098.24')	(5545918.9232', 3833728.2437', 1098.22')	
10	Curve	13.94'	28.00'		1+74.86'	1+88.79'	28.5196 (d)	13.79'	N23° 11' 46"W	(5545918.9232', 3833728.2437', 1098.22')	(5545913.4901', 3833740.9225', 1098.45')	(5545891.2631', 3833723.8943')
11	Curve	23.24'	28.00'		1+88.79'	2+12.03'	47.5523 (d)	22.58'	S14° 50' 23"W	(5545913.4901', 3833740.9225', 1098.45')	(5545907.7077', 3833719.0984', 1100.00')	(5545935.3678', 3833723.4478')

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

21-03-22-01

CHKD BY: DATE:

5/01/2021

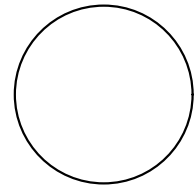
SHEET No:

CAMPPAD TRAVERSE ALIGNMENT CONTROL (CONT.)

CAMPPAD #24, 26, 28 & 30

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	19.23'	28.00'		0+00.00'	0+19.23'	39.3522 (d)	18.86'	S46° 33' 42"E	(5545917.5901',3833843.5706',1100.87')	(5545931.2813',3833830.6062',1098.95')	(5545942.5636',3833856.2325')
2	Curve	40.00'	40.00'		0+19.23'	0+59.23'	57.3013 (d)	38.36'	S37° 35' 14"E	(5545931.2813',3833830.6062',1098.95')	(5545954.6780',3833800.2107',1096.50')	(5545915.1636',3833793.9972')
3	Line	15.00'		S8° 56' 11"E	0+59.23'	0+74.23'				(5545954.6780',3833800.2107',1096.50')	(5545957.0081',3833785.3928',1095.75')	
4	Line	13.89'		S68° 40' 48"E	0+74.23'	0+88.13'				(5545957.0081',3833785.3928',1095.75')	(5545969.9498',3833780.3418',1095.25')	
5	Line	24.00'		S8° 56' 11"E	0+88.13'	1+12.13'				(5545969.9498',3833780.3418',1095.25')	(5545973.6779',3833756.6332',1095.25')	
6	Line	12.00'		S81° 03' 49"W	1+12.13'	1+24.13'				(5545973.6779',3833756.6332',1095.25')	(5545961.8235',3833754.7691',1095.50')	
7	Curve	28.82'	40.00'		1+24.13'	1+52.95'	41.2799 (d)	28.20'	S11° 42' 13"W	(5545961.8235',3833754.7691',1095.50')	(5545956.1033',3833727.1558',1097.00')	(5545922.3091',3833748.5556')
8	Curve	28.82'	40.00'		1+52.95'	1+81.77'	41.2799 (d)	28.20'	S29° 34' 35"E	(5545956.1033',3833727.1558',1097.00')	(5545970.0221',3833702.6307',1096.10')	(5545930.5076',3833696.4172')
9	Line	15.00'		S8° 56' 11"E	1+81.77'	1+96.77'				(5545970.0221',3833702.6307',1096.10')	(5545972.3521',3833687.8128',1095.50')	
10	Line	13.89'		S68° 40' 48"E	1+96.77'	2+10.66'				(5545972.3521',3833687.8128',1095.50')	(5545985.2938',3833682.7618',1095.25')	
11	Line	24.00'		S8° 56' 11"E	2+10.66'	2+34.66'				(5545985.2938',3833682.7618',1095.25')	(5545989.0219',3833659.0531',1095.25')	
12	Line	12.00'		S81° 03' 49"W	2+34.66'	2+46.66'				(5545989.0219',3833659.0531',1095.25')	(5545977.1676',3833657.1891',1095.50')	
13	Curve	28.82'	40.00'		2+46.66'	2+75.48'	41.2799 (d)	28.20'	S11° 42' 13"W	(5545977.1676',3833657.1891',1095.50')	(5545971.4473',3833629.5758',1097.00')	(5545937.6531',3833650.9756')
14	Curve	28.82'	40.00'		2+75.48'	3+04.30'	41.2800 (d)	28.20'	S29° 34' 35"E	(5545971.4473',3833629.5758',1097.00')	(5545985.3662',3833605.0506',1096.10')	(5545945.8517',3833598.8371')
15	Line	15.00'		S8° 56' 11"E	3+04.30'	3+19.30'				(5545985.3662',3833605.0506',1096.10')	(5545987.6962',3833590.2327',1095.50')	
16	Line	13.89'		S68° 40' 48"E	3+19.30'	3+33.19'				(5545987.6962',3833590.2327',1095.50')	(5546000.6379',3833585.1817',1095.25')	
17	Line	24.00'		S8° 56' 11"E	3+33.19'	3+57.19'				(5546000.6379',3833585.1817',1095.25')	(5546004.3660',3833561.4730',1095.25')	
18	Line	12.00'		S81° 03' 49"W	3+57.19'	3+69.19'				(5546004.3660',3833561.4730',1095.25')	(5545992.5116',3833559.6090',1095.50')	
19	Curve	46.90'	40.00'		3+69.19'	4+16.08'	67.1743 (d)	44.26'	S24° 39' 03"W	(5545992.5116',3833559.6090',1095.50')	(5545974.0529',3833519.3858',1097.60')	(5545952.9972',3833553.3955')
20	Line	5.97'		S18° 21' 51"E	4+16.08'	4+22.05'				(5545974.0529',3833519.3858',1097.60')	(5545975.9323',3833513.7243',1097.70')	
21	Line	24.00'		S18° 21' 51"E	4+22.05'	4+46.05'				(5545975.9323',3833513.7243',1097.70')	(5545983.4936',3833490.9465',1095.85')	
22	Line	13.89'		S78° 06' 28"E	4+46.05'	4+59.94'				(5545983.4936',3833490.9465',1095.85')	(5545997.0879',3833488.0837',1095.25')	
23	Line	24.00'		S18° 21' 51"E	4+59.94'	4+83.94'				(5545997.0879',3833488.0837',1095.25')	(5546004.6492',3833465.3059',1094.25')	
24	Line	24.00'		S71° 38' 09"W	4+83.94'	5+07.94'				(5546004.6492',3833465.3059',1094.25')	(5545981.8714',3833457.7446',1094.75')	
25	Line	31.00'		N18° 21' 51"W	5+07.94'	5+38.94'				(5545981.8714',3833457.7446',1094.75')	(5545972.1047',3833487.1659',1096.20')	
26	Line	24.00'		N18° 21' 51"W	5+38.94'	5+62.94'				(5545972.1047',3833487.1659',1096.20')	(5545964.5434',3833509.9437',1098.05')	
27	Curve	22.42'	61.00'		5+62.94'	5+85.37'	21.0624 (d)	22.30'	N15° 13' 24"E	(5545964.5434',3833509.9437',1098.05')	(5545970.3984',3833531.4593',1097.80')	(5545909.6029',3833536.4491')
28	Curve	29.57'	28.00'		5+85.37'	6+14.94'	60.5124 (d)	28.22'	N21° 19' 12"E	(5545970.3984',3833531.4593',1097.80')	(5545980.6573',3833557.7449',1095.75')	(5545952.9972',3833553.3955')
29	Line	31.00'		N8° 56' 11"W	6+14.94'	6+45.94'				(5545980.6573',3833557.7449',1095.75')	(5545975.8419',3833588.3686',1095.75')	
30	Line	15.00'		N8° 56' 11"W	6+45.94'	6+60.94'				(5545975.8419',3833588.3686',1095.75')	(5545973.5118',3833603.1865',1096.35')	
31	Curve	19.40'	28.00'		6+60.94'	6+80.34'	39.7036 (d)	19.02'	N28° 47' 17"W	(5545973.5118',3833603.1865',1096.35')	(5545964.3538',3833619.8531',1097.25')	(5545945.8517',3833598.8371')
32	Curve	18.74'	28.00'		6+80.34'	6+99.08'	38.3523 (d)	18.39'	S10° 14' 23"W	(5545964.3538',3833619.8531',1097.25')	(5545961.0838',3833601.7515',1097.78')	(5545988.7439',3833606.1010')
33	Line	51.75'		N8° 56' 11"W	6+99.08'	7+50.84'				(5545961.0838',3833601.7515',1097.78')	(5545953.0447',3833652.8765',1097.78')	
34	Curve	18.74'	28.00'		7+50.84'	7+69.58'	38.3521 (d)	18.39'	S28° 06' 45"E	(5545953.0447',3833652.8765',1097.78')	(5545961.7122',3833636.6522',1097.25')	(5545980.7048',3833657.2259')
35	Curve	19.40'	28.00'		7+69.58'	7+88.98'	39.7034 (d)	19.02'	N10° 54' 55"E	(5545961.7122',3833636.6522',1097.25')	(5545965.3132',3833655.3250',1095.75')	(5545937.6531',3833650.9755')
36	Line	31.00'		N8° 56' 11"W	7+88.98'	8+19.98'				(5545965.3132',3833655.3250',1095.75')	(5545960.4978',3833685.9487',1095.75')	
37	Line	15.00'		N8° 56' 11"W	8+19.98'	8+34.98'				(5545960.4978',3833685.9487',1095.75')	(5545958.1677',3833700.7666',1096.35')	
38	Curve	19.40'	28.00'		8+34.98'	8+54.38'	39.7034 (d)	19.02'	N28° 47' 17"W	(5545958.1677',3833700.7666',1096.35')	(5545949.0098',3833717.4331',1097.25')	(5545930.5076',3833696.4172')
39	Curve	18.74'	28.00'		8+54.38'	8+73.13'	38.3523 (d)	18.39'	S10° 14' 23"W	(5545949.0098',3833717.4331',1097.25')	(5545945.7398',3833699.3316',1097.78')	(5545973.3999',3833703.6810')
40	Line	51.75'		N8° 56' 11"W	8+73.13'	9+24.88'				(5545945.7398',3833699.3316',1097.78')	(5545937.7006',3833750.4566',1097.78')	
41	Curve	18.74'	28.00'		9+24.88'	9+43.62'	38.3523 (d)	18.39'	S28° 06' 45"E	(5545937.7006',3833750.4566',1097.78')	(5545946.3682',3833734.2322',1097.25')	(5545965.3607',3833754.8060')
42	Curve	19.40'	28.00'		9+43.62'	9+63.03'	39.7034 (d)	19.02'	N10° 54' 55"E	(5545946.3682',3833734.2322',1097.25')	(5545949.9692',3833752.9050',1095.75')	(5545922.3091',3833748.5556')
43	Line	31.00'		N8° 56' 11"W	9+63.03'	9+94.03'				(5545949.9692',3833752.9050',1095.75')	(5545945.1538',3833783.5287',1096.00')	
44	Line	15.00'		N8° 56' 11"W	9+94.03'	10+09.03'				(5545945.1538',3833783.5287',1096.00')	(5545942.8237',3833798.3466',1096.75')	
45	Curve	28.01'	28.00'		10+09.03'	10+37.04'	57.3167 (d)	26.86'	N37° 35' 41"W	(5545942.8237',3833798.3466',1096.75')	(5545926.4391',3833819.6265',1099.21')	(5545915.1636',3833793.9972')
46	Curve	25.58'	111.00'		10+37.04'	10+62.62'	13.2057 (d)	25.53'	N20° 16' 58"W	(5545926.4391',3833819.6265',1099.21')	(5545917.5901',3833843.5706',1100.87')	(5545818.5880',3833793.3753')

CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL

CONSTRUCTION PROJECT FOR:

PIKES PEAK CAMPGROUND
UPGRADE PROJECT

CLAYTON COUNTY, IOWA

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:
21-03-22-01

CHKD BY: DATE:
5/01/2021

SHEET No:

CAMPPAD TRAVERSE ALIGNMENT CONTROL (CONT.)

CAMPPAD #52

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	17.45'	30.00'		0+00.00'	0+17.45'	33.3213 (d)	17.20'	N23° 20' 22"W	(5545663.9719',3833706.9212',1107.83')	(5545657.1568',3833722.7158',1108.30')	(5545634.1755',3833703.4322')
2	Line	5.69'		N40° 00' 00"W	0+17.45'	0+23.14'				(5545657.1568',3833722.7158',1108.30')	(5545653.5001',3833727.0737',1108.50')	
3	Line	19.00'		N40° 00' 00"W	0+23.14'	0+42.14'				(5545653.5001',3833727.0737',1108.50')	(5545641.2871',3833741.6286',1108.50')	
4	Line	13.89'		S80° 15' 23"W	0+42.14'	0+56.03'				(5545641.2871',3833741.6286',1108.50')	(5545627.5951',3833739.2774',1108.00')	
5	Line	24.00'		N40° 00' 00"W	0+56.03'	0+80.03'				(5545627.5951',3833739.2774',1108.00')	(5545612.1682',3833757.6625',1107.80')	
6	Line	24.00'		N50° 00' 00"E	0+80.03'	1+04.03'				(5545612.1682',3833757.6625',1107.80')	(5545630.5532',3833773.0894',1109.00')	
7	Line	31.00'		S40° 00' 00"E	1+04.03'	1+35.03'				(5545630.5532',3833773.0894',1109.00')	(5545650.4797',3833749.3420',1108.75')	
8	Line	19.00'		S40° 00' 00"E	1+35.03'	1+54.03'				(5545650.4797',3833749.3420',1108.75')	(5545662.6926',3833734.7872',1108.91')	
9	Line	17.36'		S1° 34' 34"E	1+54.03'	1+71.39'				(5545662.6926',3833734.7872',1108.91')	(5545663.1702',3833717.4304',1108.16')	
10	Curve	9.57'	107.50'		1+71.39'	1+80.97'	5.1025 (d)	9.57'	S4° 07' 39"E	(5545663.1702',3833717.4304',1108.16')	(5545663.8591',3833707.8848',1107.86')	(5545770.6296',3833720.3874')
11	Line	0.97'		S6° 40' 44"E	1+80.97'	1+81.94'				(5545663.8591',3833707.8848',1107.86')	(5545663.9719',3833706.9212',1107.83')	

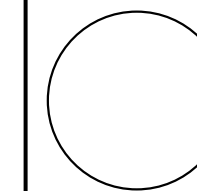
CAMPPAD #53

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	23.66'	28.00'		0+00.00'	0+23.66'	48.4194 (d)	22.96'	S30° 15' 54"E	(5545675.7608',3833787.5514',1111.75')	(5545687.3348',3833767.7169',1111.00')	(5545703.6046',3833790.5050')
2	Line	22.31'		S54° 28' 29"E	0+23.66'	0+45.97'				(5545687.3348',3833767.7169',1111.00')	(5545705.4886',3833754.7558',1111.88')	
3	Line	12.00'		N35° 31' 31"E	0+45.97'	0+57.97'				(5545705.4886',3833754.7558',1111.88')	(5545712.4614',3833764.5221',1112.25')	
4	Line	24.00'		S54° 28' 29"E	0+57.97'	0+81.97'				(5545712.4614',3833764.5221',1112.25')	(5545731.9940',3833750.5765',1113.25')	
5	Line	13.89'		S5° 16' 08"W	0+81.97'	0+95.86'				(5545731.9940',3833750.5765',1113.25')	(5545730.7182',3833736.7428',1113.00')	
6	Line	20.84'		S54° 28' 29"E	0+95.86'	1+16.70'				(5545730.7182',3833736.7428',1113.00')	(5545747.6792',3833724.6333',1112.90')	
7	Line	21.94'		S54° 28' 29"E	1+16.70'	1+38.65'				(5545747.6792',3833724.6333',1112.90')	(5545765.5391',3833711.8820',1112.18')	
8	Curve	2.41'	211.00'		1+38.65'	1+41.05'	0.6540 (d)	2.41'	S6° 59' 56"E	(5545765.5391',3833711.8820',1112.18')	(5545765.8326',3833709.4914',1112.15')	(5545975.1103',3833736.3964')
9	Line	26.17'		S7° 19' 33"E	1+41.05'	1+67.22'				(5545765.8326',3833709.4914',1112.15')	(5545769.1690',3833683.5399',1111.71')	
10	Curve	23.04'	28.00'		1+67.22'	1+90.26'	47.1488 (d)	22.40'	N30° 54' 01"W	(5545769.1690',3833683.5399',1111.71')	(5545757.6673',3833702.7576',1112.30')	(5545741.3975',3833679.9696')
11	Line	20.84'		N54° 28' 29"W	1+90.26'	2+11.10'				(5545757.6673',3833702.7576',1112.30')	(5545740.7064',3833714.8670',1112.65')	
12	Line	20.84'		N54° 28' 29"W	2+11.10'	2+31.94'				(5545740.7064',3833714.8670',1112.65')	(5545723.7455',3833726.9765',1112.75')	
13	Line	31.00'		N54° 28' 29"W	2+31.94'	2+62.94'				(5545723.7455',3833726.9765',1112.75')	(5545698.5159',3833744.9895',1111.50')	
14	Line	26.44'		N54° 28' 29"W	2+62.94'	2+89.38'				(5545698.5159',3833744.9895',1111.50')	(5545676.9947',3833760.3548',1110.45')	
15	Line	16.82'		N1° 34' 34"W	2+89.38'	3+06.20'				(5545676.9947',3833760.3548',1110.45')	(5545676.5321',3833777.1684',1111.27')	
16	Curve	8.40'	107.50'		3+06.20'	3+14.61'	4.4789 (d)	8.40'	N3° 48' 57"W	(5545676.5321',3833777.1684',1111.27')	(5545675.9730',3833785.5511',1111.65')	(5545569.0728',3833774.2114')
17	Line	2.01'		N6° 03' 19"W	3+14.61'	3+16.62'				(5545675.9730',3833785.5511',1111.65')	(5545675.7608',3833787.5514',1111.75')	

CAMPPAD #54

No.	Type	Length	Radius	Direction	Start Station	End Station	Delta angle	Chord length	Chord Direction	Start Point	End Point	Center Point
1	Curve	18.02'	30.00'		0+00.00'	0+18.02'	34.4244 (d)	17.75'	N22° 47' 16"W	(5545661.1351',3833783.1987',1111.31')	(5545654.2584',3833799.5675',1112.10')	(5545631.2771',3833780.2839')
2	Line	8.67'		N40° 00' 00"W	0+18.02'	0+26.69'				(5545654.2584',3833799.5675',1112.10')	(5545648.6869',3833806.2073',1112.25')	
3	Line	19.00'		N40° 00' 00"W	0+26.69'	0+45.69'				(5545648.6869',3833806.2073',1112.25')	(5545636.4740',3833820.7622',1112.50')	
4	Line	13.89'		S80° 15' 23"W	0+45.69'	0+59.58'				(5545636.4740',3833820.7622',1112.50')	(5545622.7819',3833818.4110',1112.25')	
5	Line	24.00'		N40° 00' 00"W	0+59.58'	0+83.58'				(5545622.7819',3833818.4110',1112.25')	(5545607.3550',3833836.7961',1111.50')	
6	Line	24.00'		N50° 00' 00"E	0+83.58'	1+07.58'				(5545607.3550',3833836.7961',1111.50')	(5545625.7401',3833852.2230',1112.50')	
7	Line	31.00'		S40° 00' 00"E	1+07.58'	1+38.58'				(5545625.7401',3833852.2230',1112.50')	(5545645.6665',3833828.4756',1112.75')	
8	Line	19.00'		S40° 00' 00"E	1+38.58'	1+57.58'				(5545645.6665',3833828.4756',1112.75')	(5545657.8794',3833813.9208',1112.98')	
9	Line	30.12'		S6° 03' 19"E	1+57.58'	1+87.70'				(5545657.8794',3833813.9208',1112.98')	(5545661.0567',3833783.9688',1111.35')	
10	Line	0.77'		S5° 48' 55"E	1+87.70'	1+88.48'				(5545661.0567',3833783.9688',1111.35')	(5545661.1351',3833783.1987',1111.31')	

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



CAMPPAD TRAVERSE CONTROL
 CONSTRUCTION PROJECT FOR:
PIKES PEAK CAMPGROUND UPGRADE PROJECT
 CLAYTON COUNTY, IOWA

NO.	DATE	REVISION

DRAWN BY: PROJECT NUMBER: 21-03-22-01
 CHK'D BY: DATE: 5/01/2021
 SHEET No:

