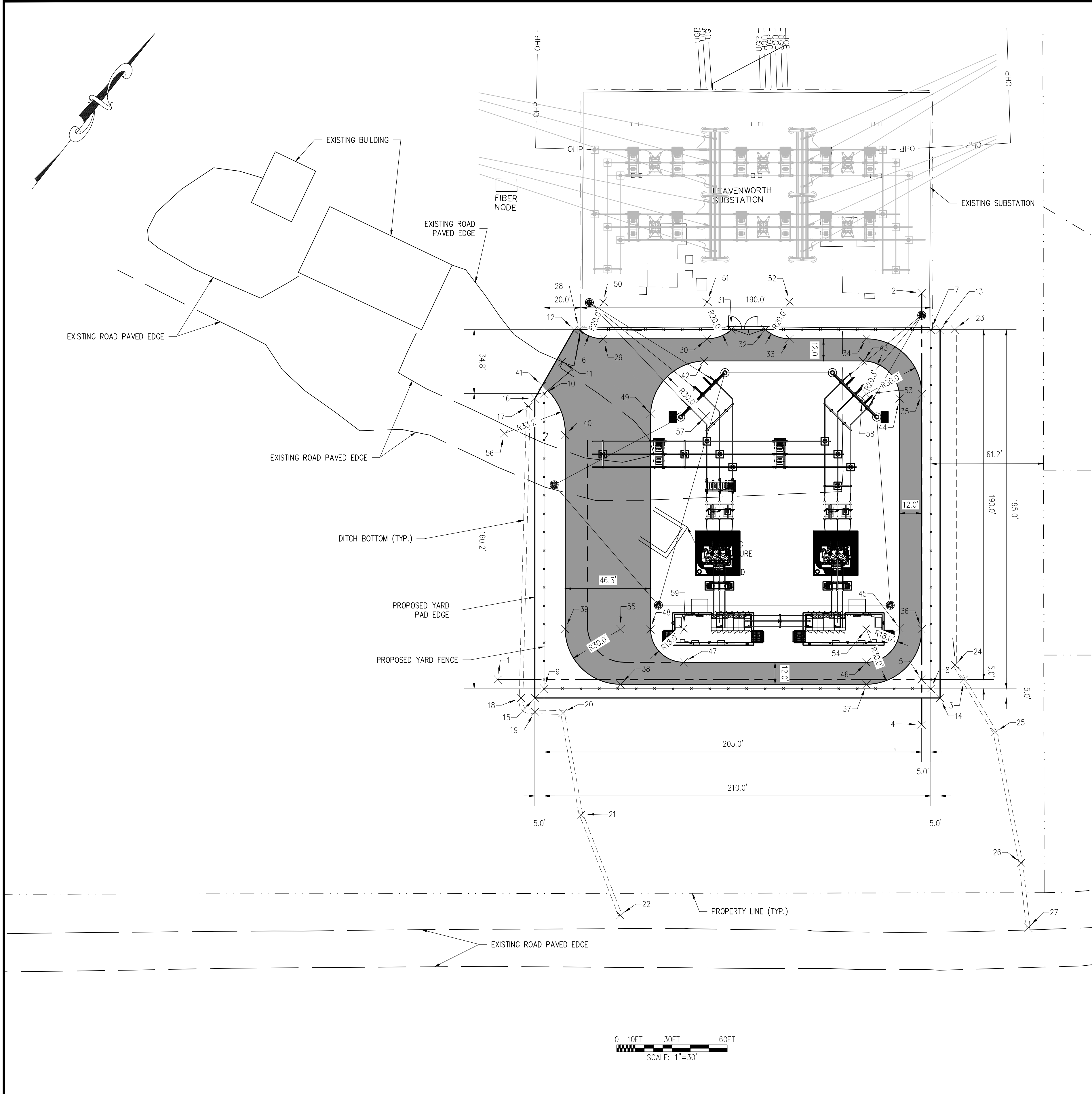
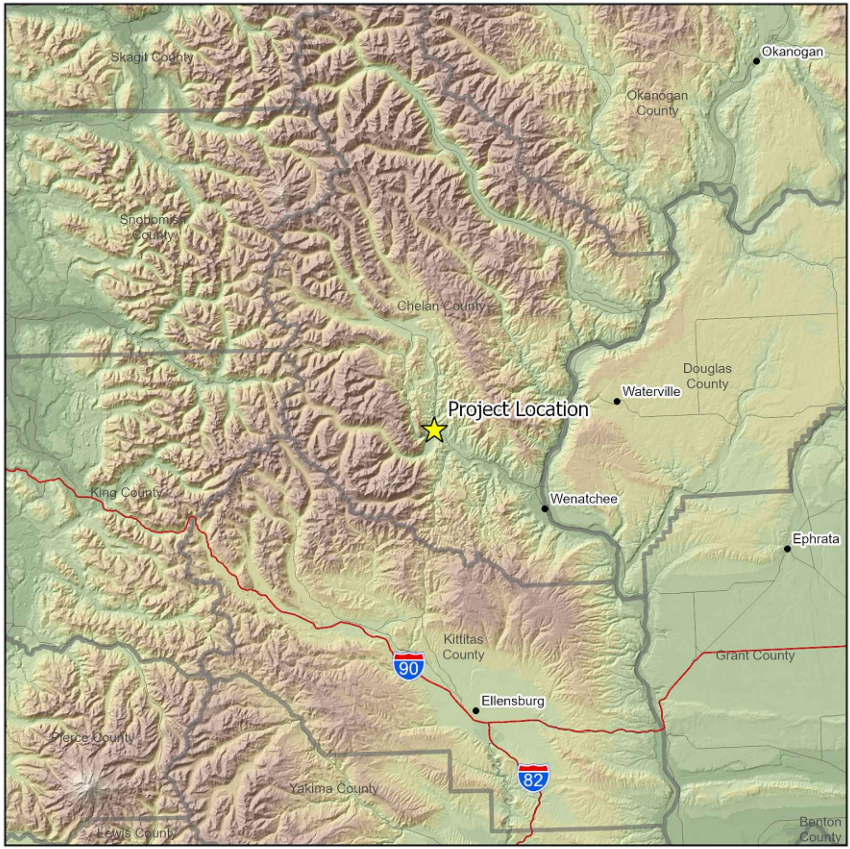




EASTING/NORTHING POINT TABLE			
POINT #	EASTING	NORTHING	DESCRIPTION
1	1685694.78	219134.06	BASELINE END
2	1685745.91	219441.18	BASELINE END
3	1685893.63	219290.52	BASELINE END
4	1685890.78	219257.06	BASELINE END
5	1685875.60	219276.34	BASELINE INTERSECTION
6	1685612.73	219311.26	PROPOSED YARD FENCE CORNER
7	1685762.05	219428.75	PROPOSED YARD FENCE CORNER
8	1685882.63	219275.50	PROPOSED YARD FENCE CORNER
9	1685717.59	219145.65	PROPOSED YARD FENCE CORNER
10	1685618.51	219271.56	PROPOSED YARD FENCE CORNER
11	1685615.53	219291.34	PROPOSED GATE CENTER
12	1685609.78	219308.95	PROPOSED YARD PAD CORNER
13	1685765.97	219431.84	PROPOSED YARD PAD CORNER
14	1685889.65	219274.66	PROPOSED YARD PAD CORNER
15	1685716.75	219138.62	PROPOSED YARD PAD CORNER
16	1685616.21	219266.41	PROPOSED YARD PAD CORNER
17	1685616.08	219260.83	PROPOSED DITCH CENTER
18	1685710.87	219133.97	PROPOSED DITCH CENTER
19	1685721.46	219132.57	PROPOSED DITCH CENTER
20	1685733.66	219141.50	PROPOSED DITCH CENTER
21	1685775.71	219104.28	PROPOSED DITCH CENTER
22	1685826.19	219074.55	PROPOSED DITCH CENTER
23	1685772.23	219436.83	PROPOSED DITCH CENTER
24	1685885.01	219293.65	PROPOSED DITCH CENTER
25	1685924.65	219278.38	PROPOSED DITCH CENTER
26	1685979.52	219231.27	PROPOSED DITCH CENTER
27	1686004.41	219206.21	PROPOSED DITCH CENTER
28	1685611.87	219310.59	INTERNAL ROAD EDGE
29	1685625.36	219314.84	INTERNAL ROAD EDGE
30	1685669.67	219349.70	INTERNAL ROAD EDGE
31	1685676.97	219361.81	INTERNAL ROAD EDGE
32	1685691.37	219373.14	INTERNAL ROAD EDGE
33	1685704.86	219377.39	INTERNAL ROAD EDGE
34	1685737.63	219403.18	INTERNAL ROAD EDGE
35	1685779.76	219398.15	INTERNAL ROAD EDGE
36	1685858.68	219297.84	INTERNAL ROAD EDGE
37	1685853.66	219255.72	INTERNAL ROAD EDGE
38	1685748.74	219173.16	INTERNAL ROAD EDGE
39	1685706.61	219178.19	INTERNAL ROAD EDGE
40	1685641.49	219260.95	INTERNAL ROAD EDGE
41	1685615.01	219274.36	INTERNAL ROAD EDGE
42	1685675.79	219339.23	INTERNAL ROAD EDGE
43	1685743.53	219392.56	INTERNAL ROAD EDGE
44	1685771.79	219388.86	INTERNAL ROAD EDGE
45	1685848.89	219290.88	INTERNAL ROAD EDGE
46	1685846.24	219265.15	INTERNAL ROAD EDGE
47	1685768.30	219203.82	INTERNAL ROAD EDGE
48	1685743.10	219206.70	INTERNAL ROAD EDGE
49	1685670.76	219298.73	INTERNAL ROAD EDGE
50	1685612.99	219330.56	CURVE RADIUS
51	1685657.30	219365.42	CURVE RADIUS
52	1685692.49	219393.11	CURVE RADIUS
53	1685756.18	219379.60	CURVE RADIUS
54	1685835.11	219279.29	CURVE RADIUS
55	1685730.19	219196.74	CURVE RADIUS
56	1685614.85	219241.21	CURVE RADIUS
57	1685695.10	219316.27	CURVE RADIUS
58	1685755.79	219376.38	CURVE RADIUS
59	1685757.16	219218.02	CURVE RADIUS



VICINITY MAP

LEGEND	
	1 NORTHING/EASTING LOCATION POINT (SEE POINT TABLE)
	PROPERTY BOUNDARY
	CHAINLINK FENCE
	PROPOSED SUBSTATION BASELINE
	PROPOSED DITCH BOTTOM
	OHP
	YARD INTERNAL ROAD ASPHALT

NOTES	
1.	FOR GRADING NOTES SEE SHEET 1016-25SK-0002
2.	COORDINATES ARE NAD83 WASHINGTON STATE PLANES, NORTH ZONE, US FOOT (WAB3-NF).

ISSUED FOR 30% REVIEW



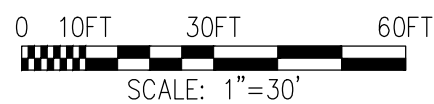
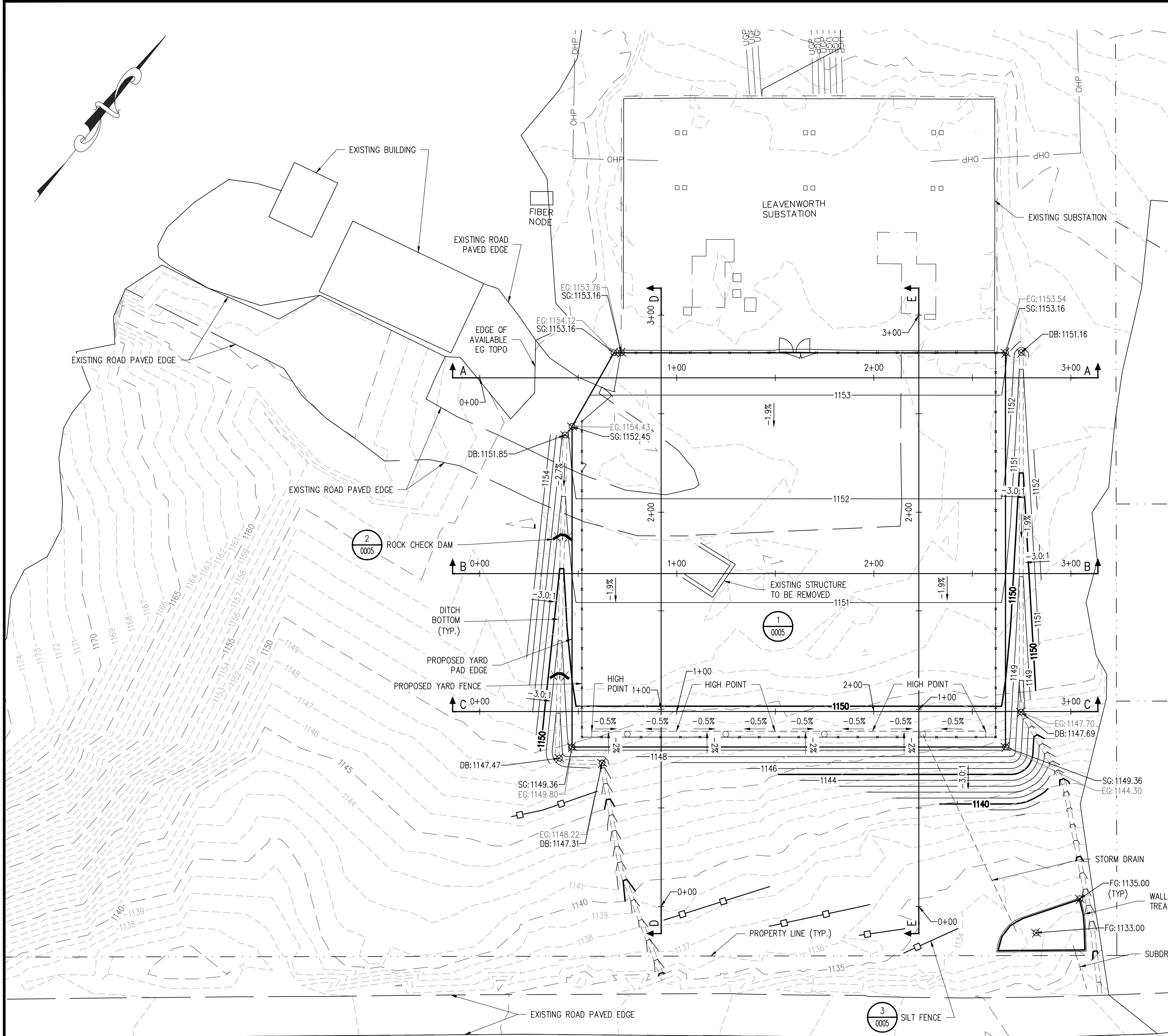
CONSULTANT	PRIM. ENG. CALEB JOBES	CHELAN PUD NO.1	SCALE 1"=30'-0"	BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	VERIFY SCALE IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	SKC REQ. BY	SDJ DRFT
	2ND ENG. STEVEN CAMPOSAN	PRIM. ENG. COLTON POLCZYNSKI					
	DESIGNER SERGIO JORGE	2ND ENG.					
		PROJ. MGR.					
			OB	11/19/2025	ISSUED FOR CONDITIONAL USE		
			REV	DATE	REVISION		

PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY
WENATCHEE, WASHINGTON

1:1

Leavenworth I & II Substation
SITE PLAN

SHEET 1 OF 5
REVISION 08
DATE 11/19/2025
DWG. 1016-25SK-0001



LEGEND	
	EXISTING GRADE MAJOR CONTOUR
	EXISTING GRADE MINOR CONTOUR
	PROPOSED GRADE MAJOR CONTOUR
	PROPOSED GRADE MINOR CONTOUR
	PROPOSED SUBSTATION BASELINE
	CHAINLINK FENCE
	OVERHEAD POWER LINE
	PROPOSED DITCH BOTTOM
	SILT FENCE
	PROPERTY BOUNDARY
	ROCK CHECK DAM
FG:	FINISH GRADE (TOP OF SURFACE ROCK)
SG:	SUBGRADE (TOP OF FLEXIBLE BASE)
RG:	ROUGH GRADE (TOP OF DIRT)
EG:	EXISTING GRADE

- NOTES**
- CUT AND FILL VOLUMES ARE RAW VOLUMES WITH NO ALLOWANCES FOR SHRINKAGE WHERE APPLICABLE.
 - THE CONTRACTOR SHALL STRIP ALL TOPSOIL AND ORGANIC MATERIAL FROM THE WORKING AREA. CUT AND FILL VOLUMES ARE BASED ON THE ASSUMPTION THAT THE DEPTH OF TOPSOIL STRIPPED FROM THE WORKING AREA IS IN ACCORDANCE WITH THE DEPTH SHOWN IN THE EARTHWORK QUANTITIES TABLE. THE ACTUAL DEPTH OF ORGANIC MATERIAL NEEDING REMOVAL MAY VARY. IT IS RECOMMENDED THAT A GEOTECHNICAL ENGINEER IS ON-SITE TO ENSURE THAT ALL ORGANIC MATERIAL HAS BEEN REMOVED. THE STRIPPED TOPSOIL MAY BE USED FOR EMBANKMENTS AND SLOPES OUTSIDE THE IMMEDIATE AREA OF THE PAD.
 - SUITABLE EXCESS FILL INCLUDING WASTE TOP SOILS MAY BE USED FOR EMBANKMENTS AND SLOPES OUTSIDE OF THE IMMEDIATE AREA OF THE PAD.
 - SITE AND ROADWAY TO BE COVERED BY ROAD BASE GRAVEL (FLEXIBLE BASE) AS A WORKING SURFACE.
 - SLOPE ACCESS ROADS FOR DRAINAGE.
 - NEW YARD CONTOURS INDICATE SUBGRADE AND DO NOT INCLUDE CRUSHED ROCK SURFACING; NEW APPROACH CONTOURS INDICATE FINISH GRADE; YARD SUBGRADE TO MATCH APPROACH FINISH GRADE; YARD FINISH ROCK WILL FEATHER OUT ONTO APPROACH.
 - ALL AREAS NOT RECEIVING CRUSHED ROCK SURFACING OR ROAD BASE (FLEXIBLE BASE) SHALL BE FILLED WITH TOPSOIL AND RE-SEEDED.
 - CRUSHED ROCK SURFACING SHALL NOT BE PLACED UNTIL ALL SUBGRADE CONDUIT, GROUNDING AND UTILITIES ARE COMPLETE.
 - SUBGRADE INCLUDES FLEXIBLE BASE MATERIAL.
 - THE EARTHWORK CONTRACTOR SHALL FURNISH AND INSTALL COMPACTED NON-EXPANSIVE BACKFILL.

APPROXIMATE EARTHWORK QUANTITIES

TOTAL DISTURBED AREA		1.3	ACRES
TOPSOIL			
REMOVAL	AREA (SF)	DEPTH (IN)	VOL (CY)
YARD	57242	4	707
APPROACH	0	4	0
TOTALS	1.3	ACRES	707 CY
RE-USED ON SITE	0	4	0
EXPORT / STOCKPILED / WASTED			707 CY

CUT/FILL QUANTITIES*		CUT	FILL	NET	
YARD	3254	562	2692	CUT	
APPROACH	0	0	0	FILL	
NET CUT/FILL TO R.G.	3254	562	2692	CUT	
ONSITE MATERIAL IS SUITABLE AS FILL				3254	CY
CUT AVAILABLE FOR FILL				0	CY
STRUCTURAL FILL REQUIRED					

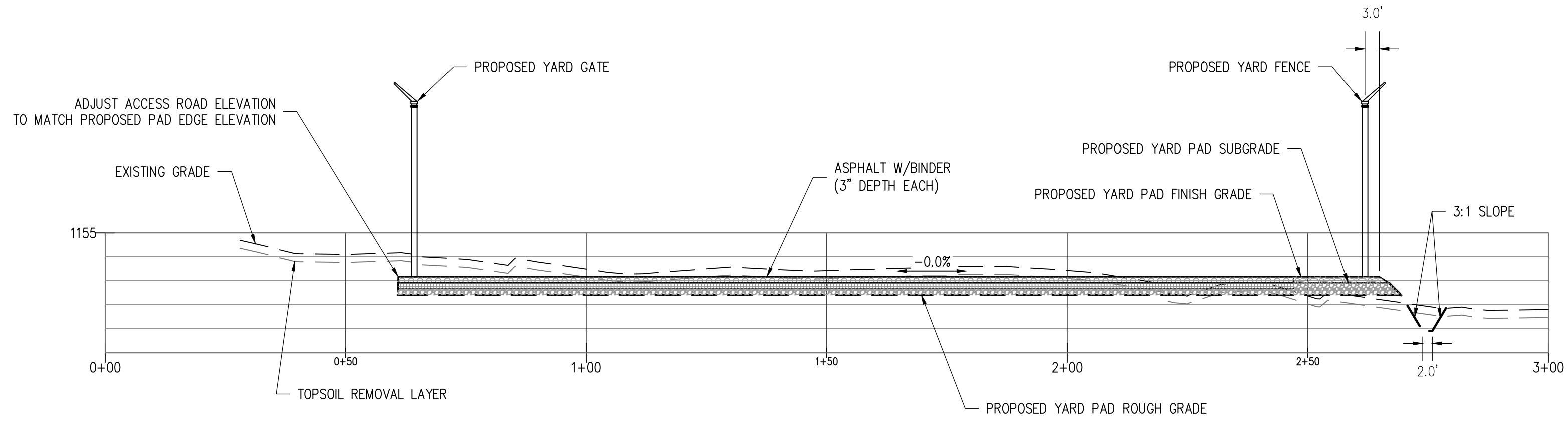
SELECT IMPORT**	AREA (SF)	DEPTH (IN)	VOL (CY)
YARD FLEX BASE	37858	6	701
YARD SURF. TOP COURSE	29163	3	270
YARD ROAD BINDER COURSE	14440	3	134
YARD ROAD ASPHALT	14440	3	134
APPROACH TOP COURSE	0	3	0
RIP RAP (CHECK DAMS)	120	6	2
		TOTAL	1241

SUMMARY			
TOTAL CUT (TOPSOIL + NET CUT)		3961	CY
TOTAL FILL (SELECT IMPORT + NET FILL)		1803	CY
TOTAL EXPORT / STOCKPILED / WASTED		3399	CY
TOTAL IMPORT (SELECT IMPORT + STRUCTURAL FILL)		1241	CY

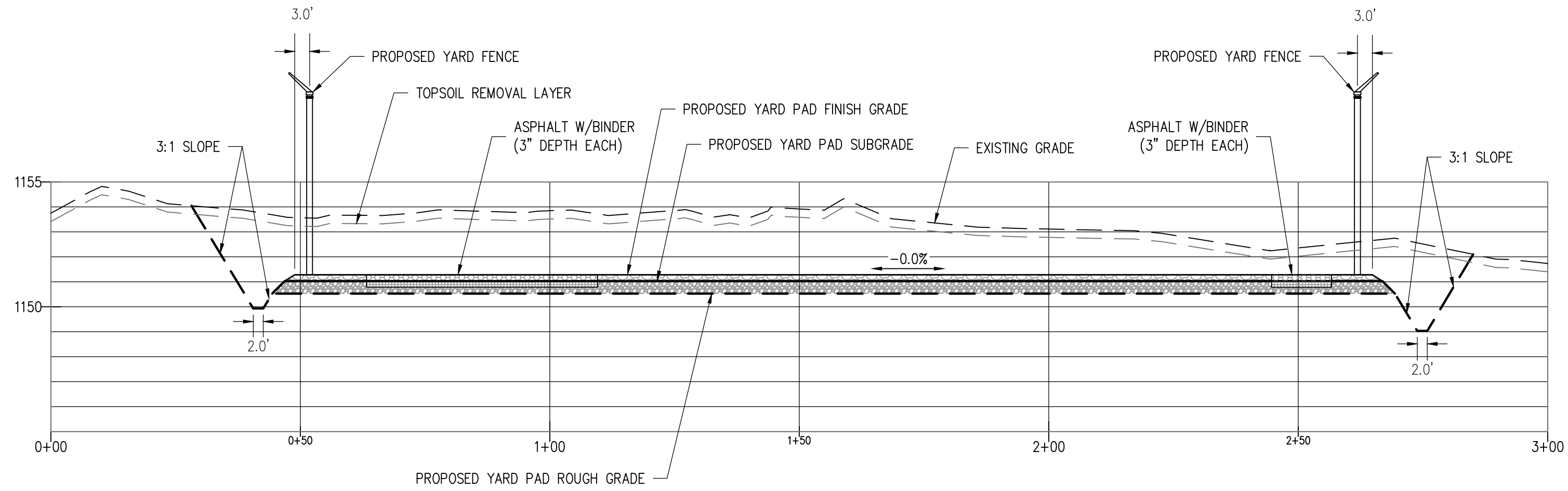
*TOPSOIL STRIPPED SURFACE COMPARED TO ROUGH GRADE

**ABOVE ROUGH GRADE

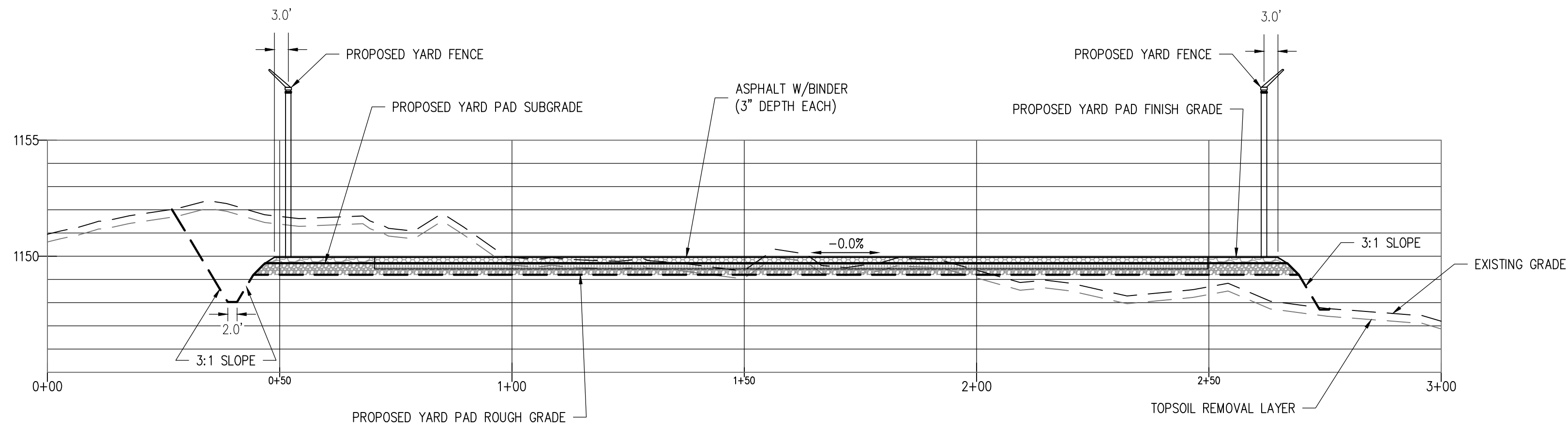
ISSUED FOR 30% REVIEW



SECTION A
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



SECTION B
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

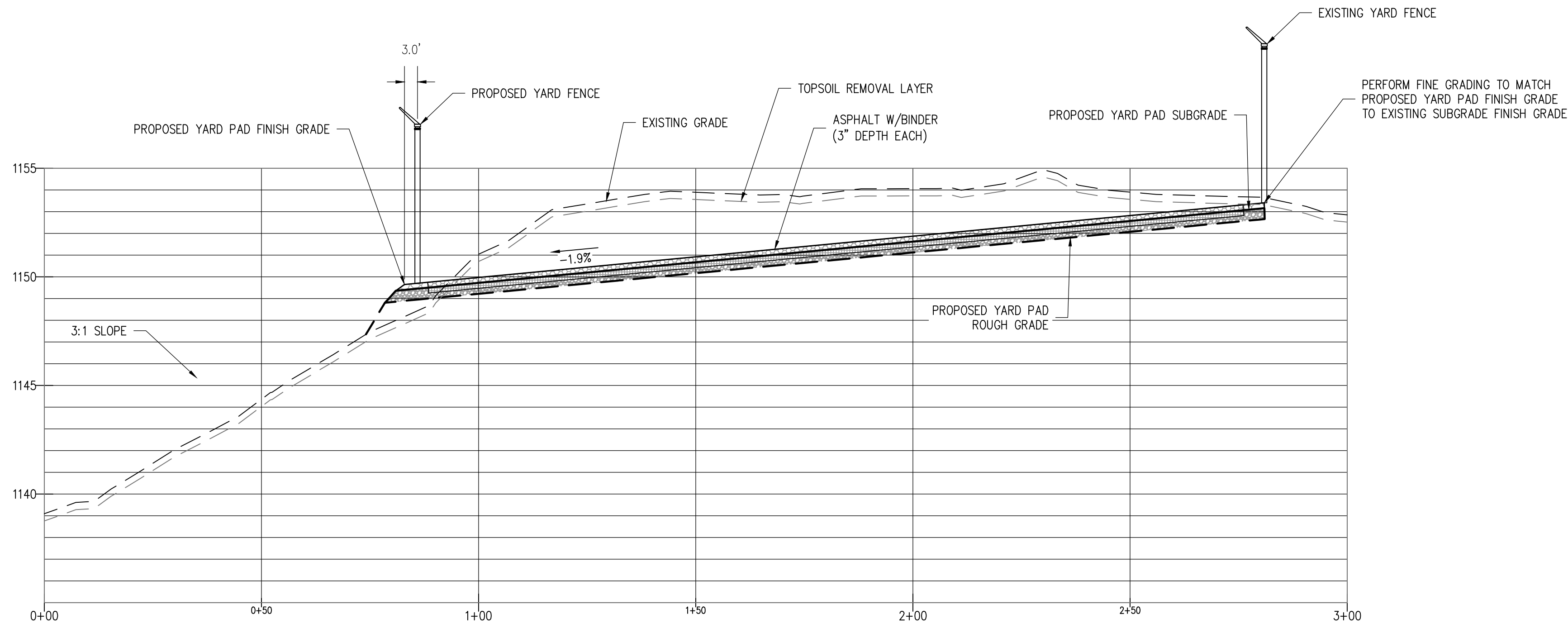


SECTION C
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

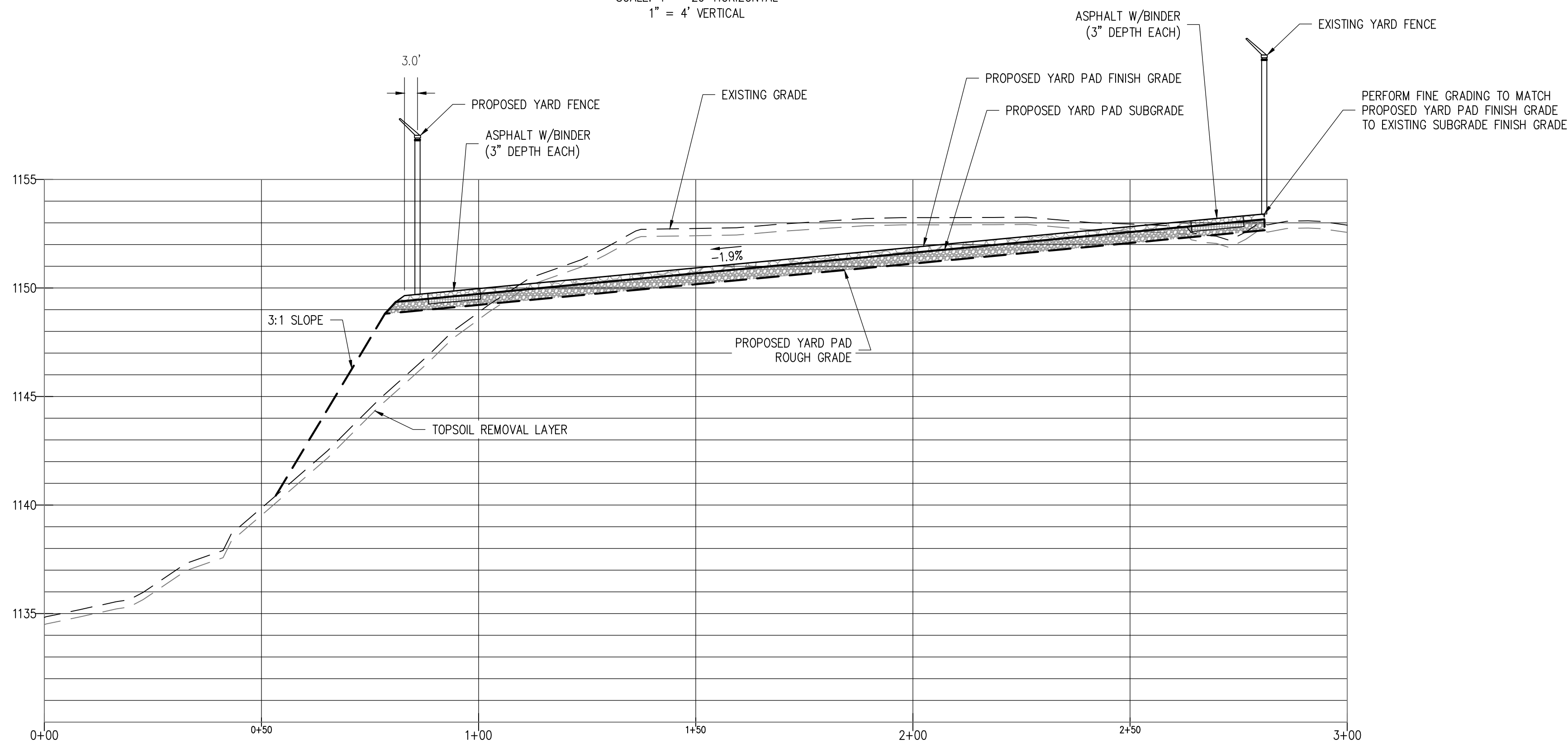
LEGEND	
	EXISTING GRADE
	TOPSOIL REMOVAL - GRADED AREA
	PROPOSED FINISH GRADE (TOP OF SURFACE ROCK)
	PROPOSED SUBGRADE (TOP OF FLEXIBLE BASE)
	PROPOSED ROUGH GRADE (TOP OF DIRT)

NOTES
1. FOR GRADING NOTES SEE SHEET 1016-25SK-0002

ISSUED FOR 30% REVIEW



SECTION D
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

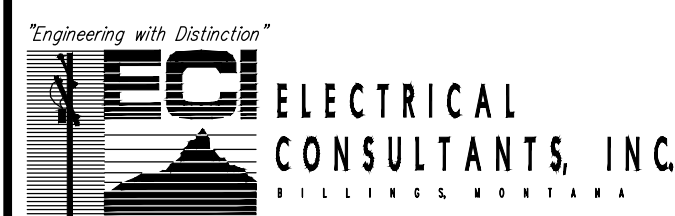


SECTION E
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

LEGEND	
	EXISTING GRADE
	TOPSOIL REMOVAL - GRADED AREA
	PROPOSED FINISH GRADE (TOP OF SURFACE ROCK)
	PROPOSED SUBGRADE (TOP OF FLEXIBLE BASE)
	PROPOSED ROUGH GRADE (TOP OF DIRT)

NOTES	
1.	FOR GRADING NOTES SEE SHEET 1016-25SK-0002

ISSUED FOR 30% REVIEW



CONSULTANT	PRIM. ENG. CALEB JOBES	CHELAN PUD NO.1
	2ND ENG. STEVEN CAMPOSAN	PRIM. ENG. COLTON POLCZYNSKI
	DESIGNER SERGIO JORGE	2ND ENG.
		PROJ. MGR.

SCALE AS NOTED		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	
OB	11/19/2025	ISSUED FOR CONDITIONAL USE		SKC	SDJ
REV	DATE	REVISION		REQ. BY	DRFT

**PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY**
WENATCHEE, WASHINGTON



Leavenworth I & II Substation
GRADING PROFILES AND SECTIONS - SHEET 2

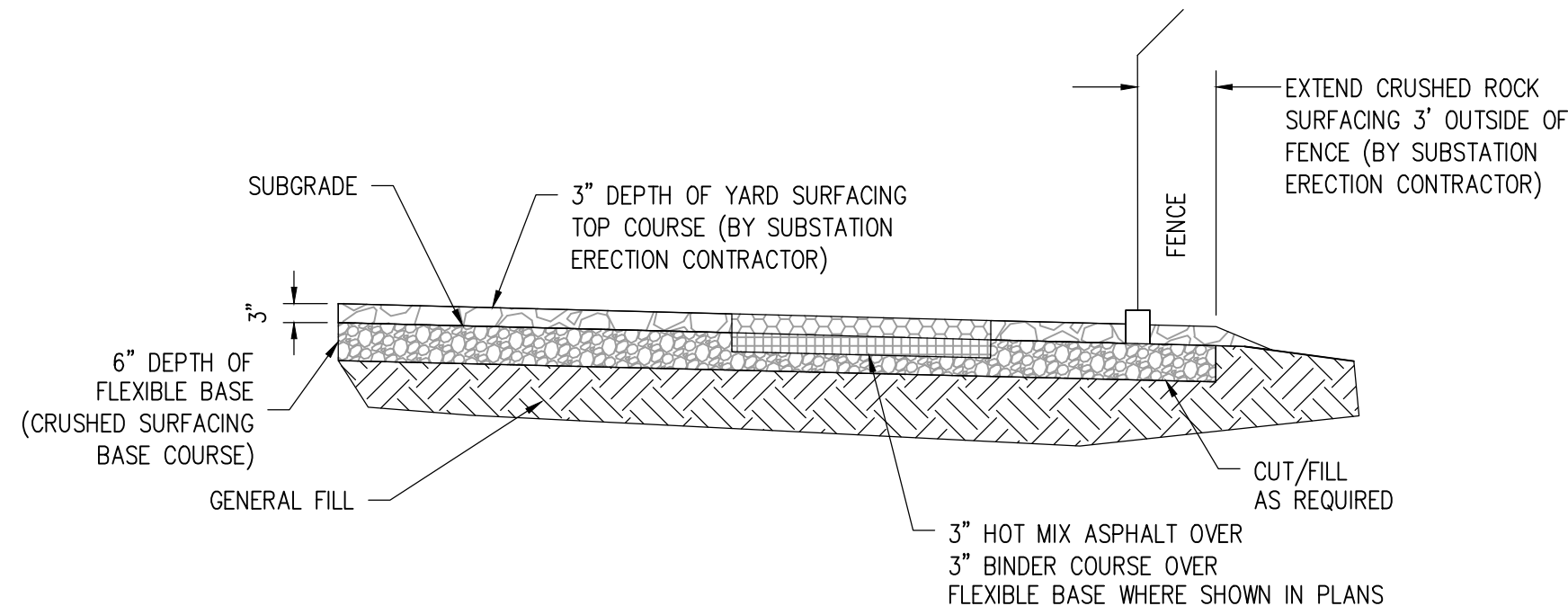
SHEET 4 OF 5
REVISION 08
DATE 11/19/2025
DWG. 1016-25SK-0004

DOCUMENT CLASS:

ID:

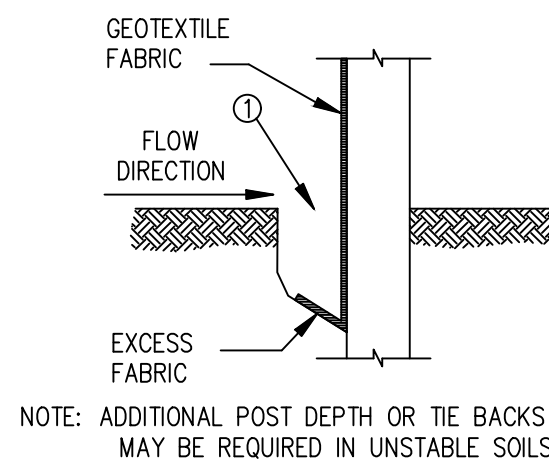
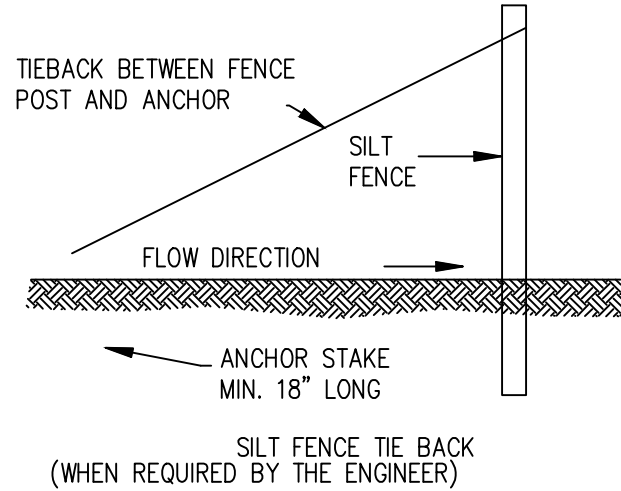
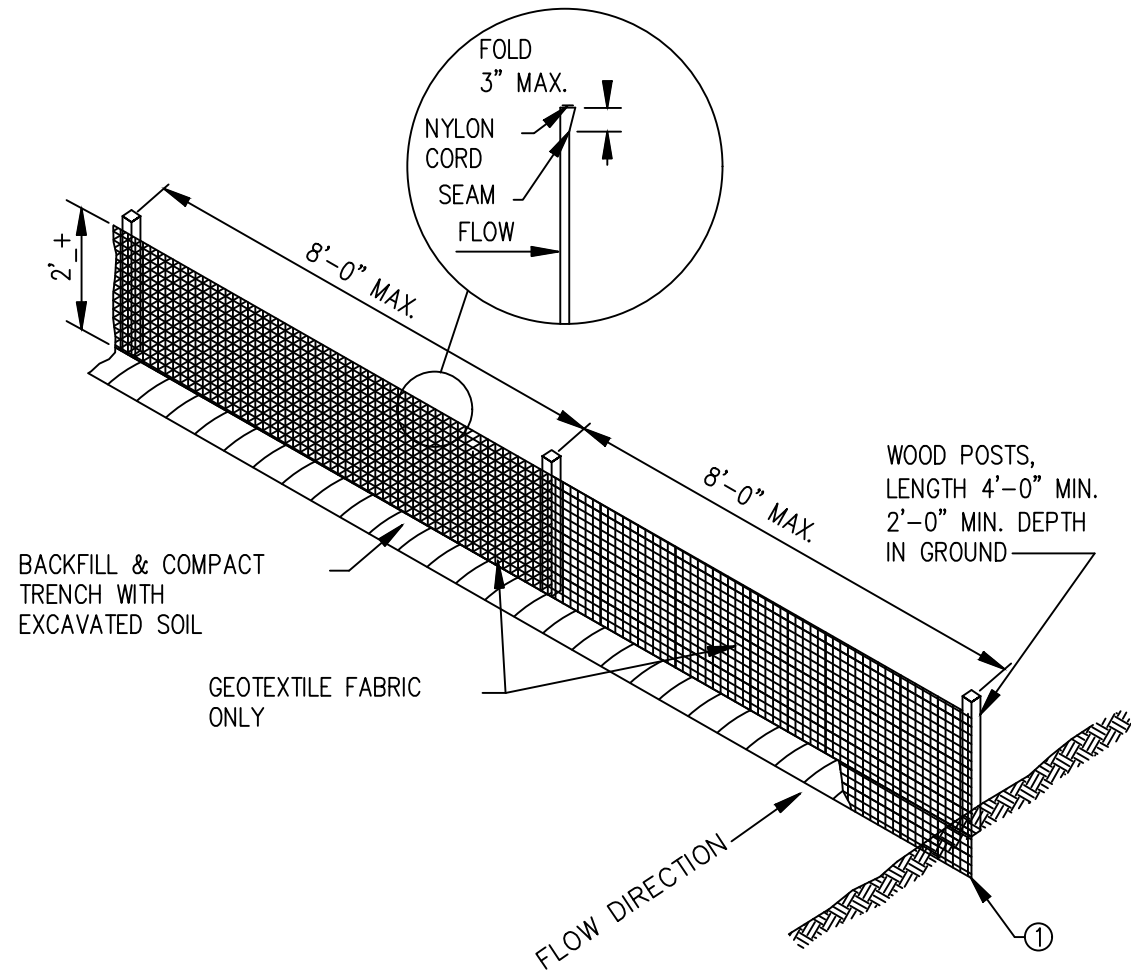
ORIGINAL DWG. #: -

ORIG. DATE 11/18/2025
ORIG. DRAWN SDJ



GENERAL YARD SURFACING DETAIL
SCALE: NONE

1
SH 2

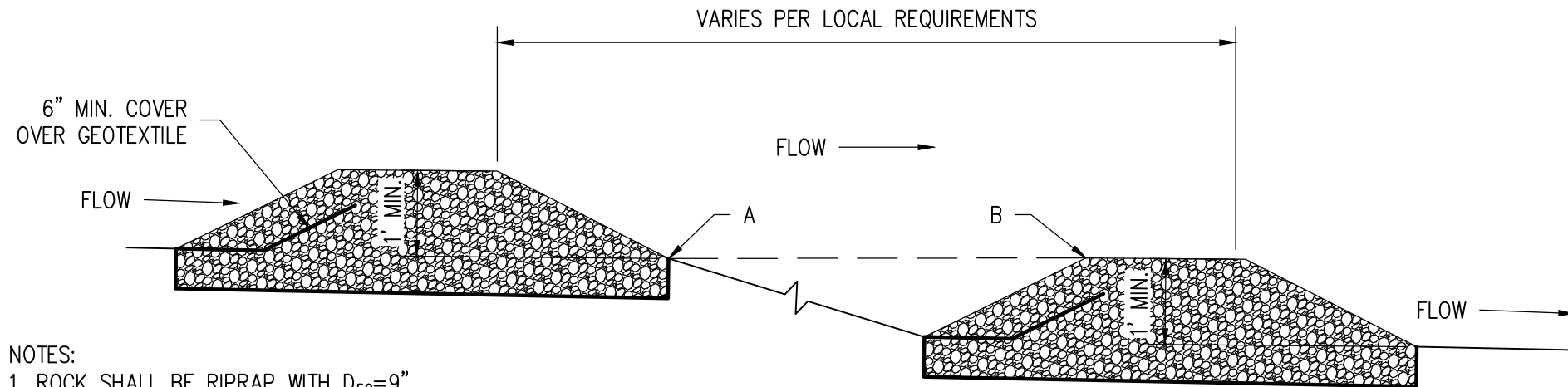


TRENCH DETAIL

- SILT FENCE NOTES:
- DETAIL OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
- ① TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
- ② WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" x 1 1/8" OF OAK OR HICKORY.

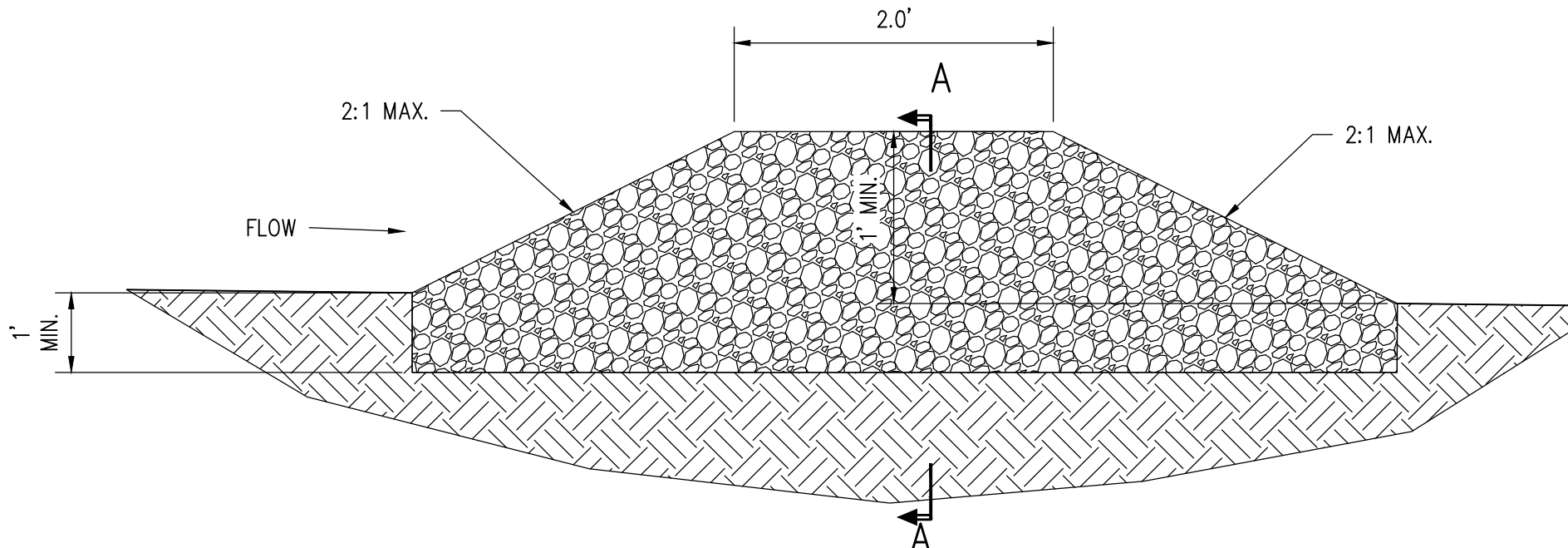
SILT FENCE DETAIL
SCALE: NONE

3
SH 2



- NOTES:
1. ROCK SHALL BE RIPRAP WITH D₉₀=9".
2. GEOTEXTILE SHALL BE MIRAFI 140 N OR APPROVED EQUAL.

SPACE CHECK DAMS SO THAT ELEVATIONS A AND B ARE EQUAL

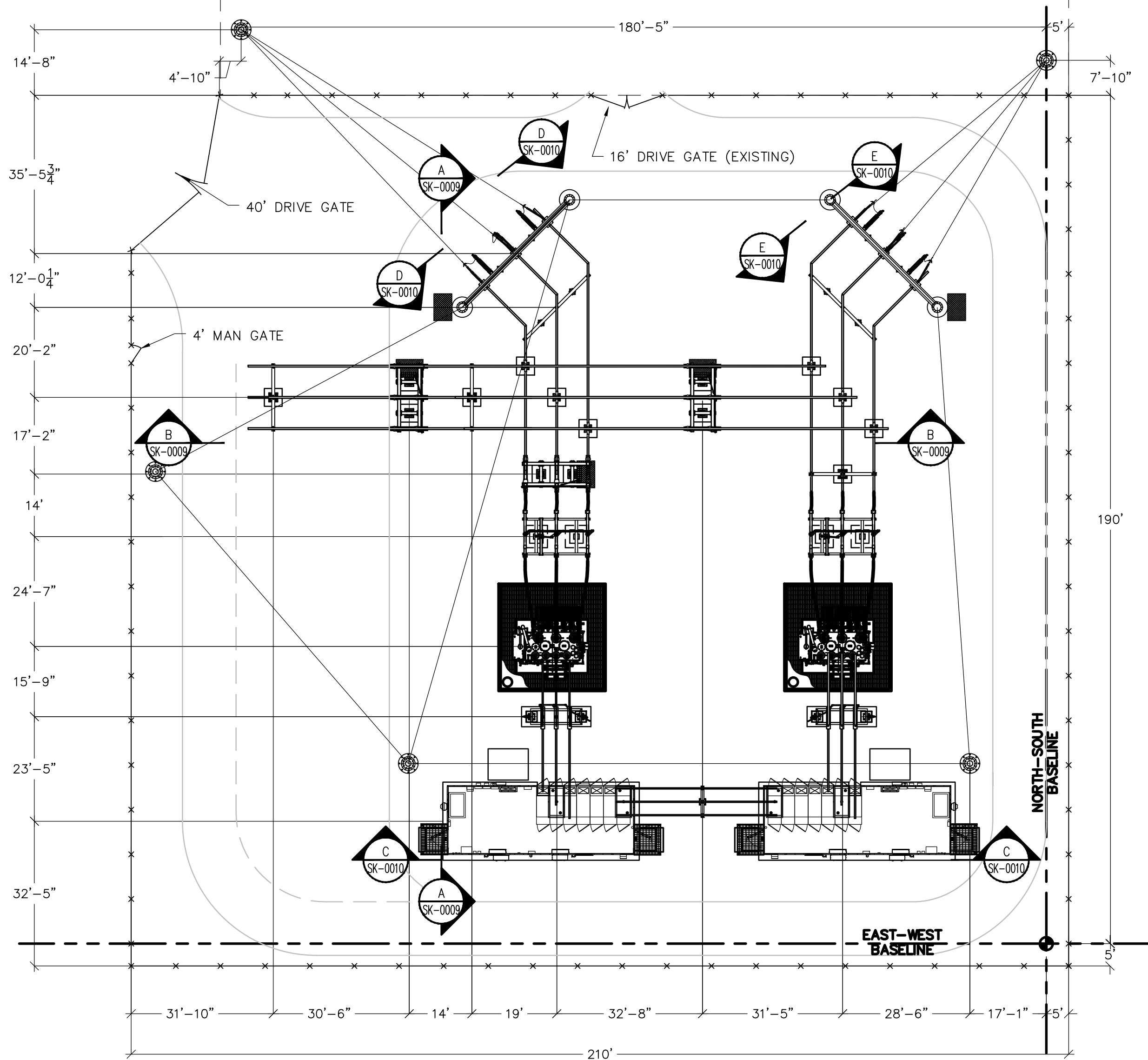
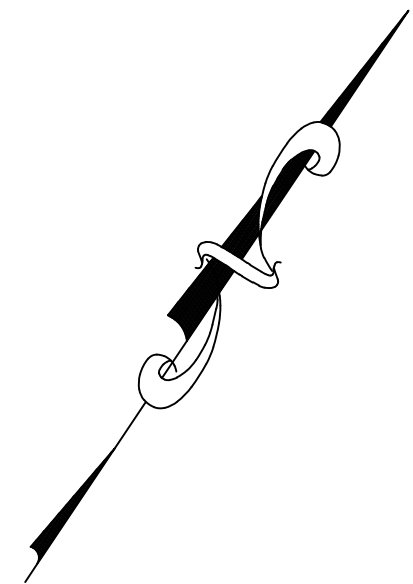


SECTION A-A
SCALE: N.T.S.

DITCH CHECK DETAIL
SCALE: NONE

2
SH 2

ISSUED FOR 30% REVIEW



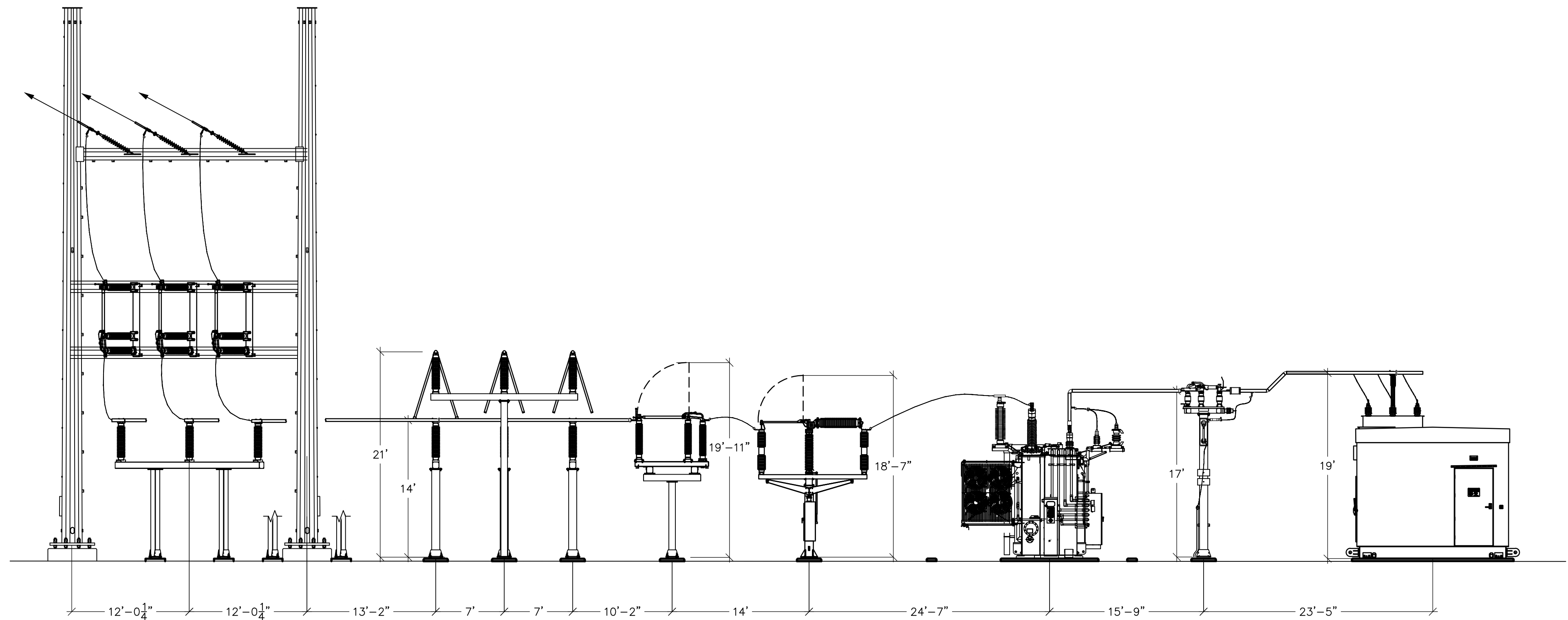
STRUCTURE DESIGN CRITERIA

115 kV CLEARANCE (550 kV BIL):
LIVE PARTS: MIN ϕ -G=42"
MIN ϕ - ϕ =53"
TO GRADE: 12'-0" (BUS)
25'-0" (DRIVEWAY)
12.5 kV CLEARANCE (110 kV BIL):
LIVE PARTS: MIN ϕ -G=7"
MIN ϕ - ϕ =12"
TO GRADE: 9'-0" (BUS)
21'-0" (DRIVEWAY)

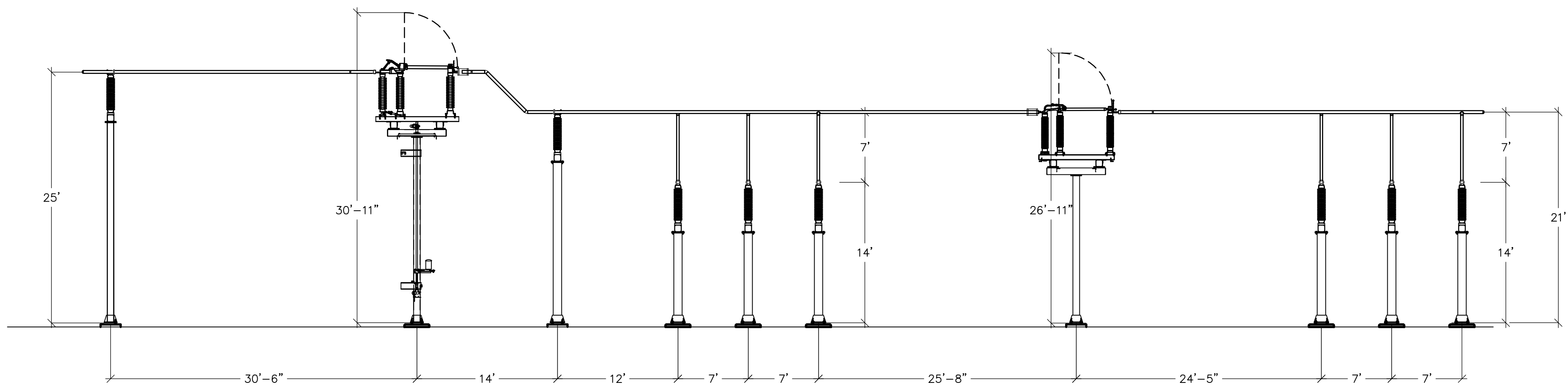
LEGEND

- BASELINE MARKER
- BASELINE
- SUBSTATION FENCE
- MOD SWITCH OPERATOR
- MANUAL SWITCH OPERATOR
- STRUCTURE MOUNTED YARD LIGHTING
- GATE HOLD BACK
- 6'x4' SWITCH OPERATOR PLATFORM
- INDICATES ELEVATION NUMBER
INDICATES DRAWING ON WHICH ELEVATION APPEARS (1016-25SK-0009)

ISSUED FOR
PERMITTING



ELEVATION
SCALE: 1/8" = 1'-0"



ELEVATION
SCALE: 1/8" = 1'-0"



NOTES

- INSTALL 336.4 KCIL ACSR CONDUCTORS IN ALL HORIZONTAL TUBULAR BUS RUNS OVER 12' IN LEGNTH.
- CONSTRUCTION OF THE 115 kV TRANSMISSION LINE CONNECTION TO BE COORDINATED BY CONTRACTOR.
- LEVELING NUTS SHALL BE USED ON ALL STEEL STRUCTURES. EQUIPMENT SHALL BE MOUNTED DIRECTLY ON PADS.
- TUBULAR BUS SHALL BE EXTRUDED, SEAMLESS BUS PIPE MADE OF 6063-T6 ALLOY, SCHEDULE 40.
- CONTRACTOR TO PLACE A 2" PRESTRESS BEND IN THE MOBILE TRANSFORMER BAY BUS TO ENSURE DEFLECTION MEETS CHELAN PUD STANDARDS.
- DISTRICT CREWS TO SET SCREWS FOR FINAL ADJUSTMENTS ON SWITCHES.
- ALL BOLTING PER EXHIBIT S- SPECIFICATION SECTION 337200. DISTRICT STANDARD 915/1100.005.

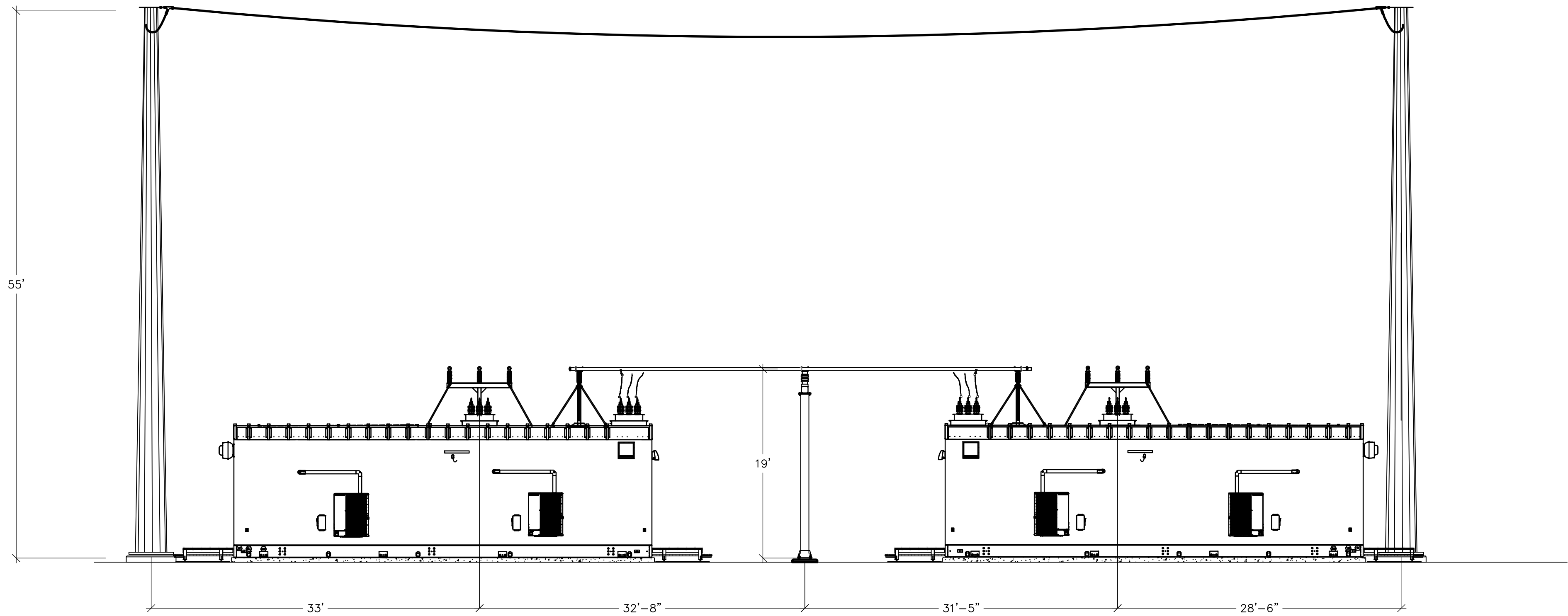
LEGEND

- [F] [S] [EXP] BUS SUPPORT FITTINGS: FIXED, SLIP, EXPANSION
- (A1) MATERIAL ITEM OR SUB-ITEM NUMBER ON MATERIAL LIST DRAWING "1016-25WS-0002"
- (A7) INDICATES DETAIL A7
SK-0009 INDICATES DRAWING ON WHICH DETAIL APPEARS "1016-25SK-0009"

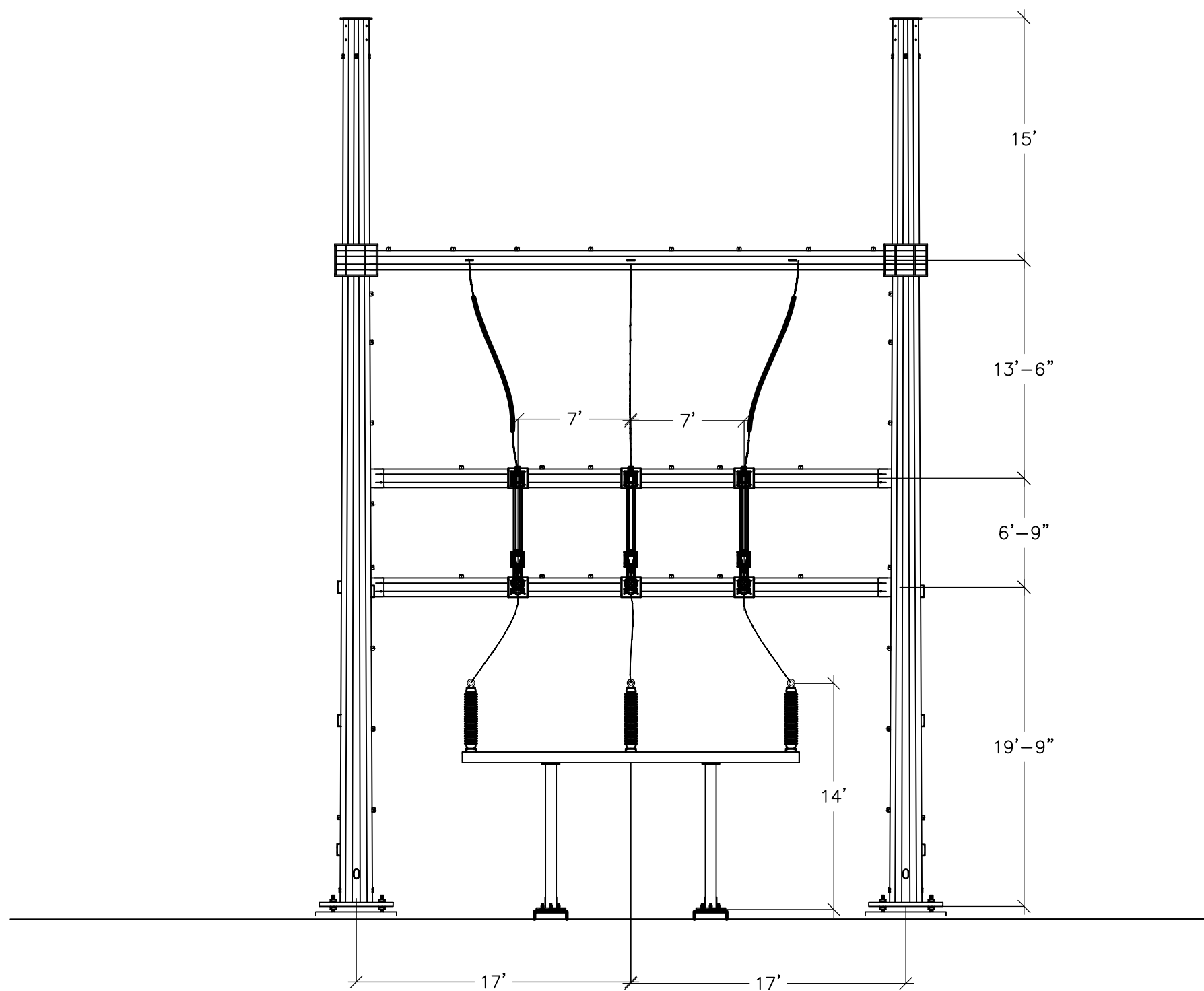
STRUCTURE DESIGN CRITERIA

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MIN ϕ - ϕ =53"
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- 12.5 kV CLEARANCE (110 kV BIL):
LIVE PARTS: MIN ϕ -G=7"
MIN ϕ - ϕ =12"
TO GRADE: 9'-0" (BUS)
21'-0" (DRIVEWAY)

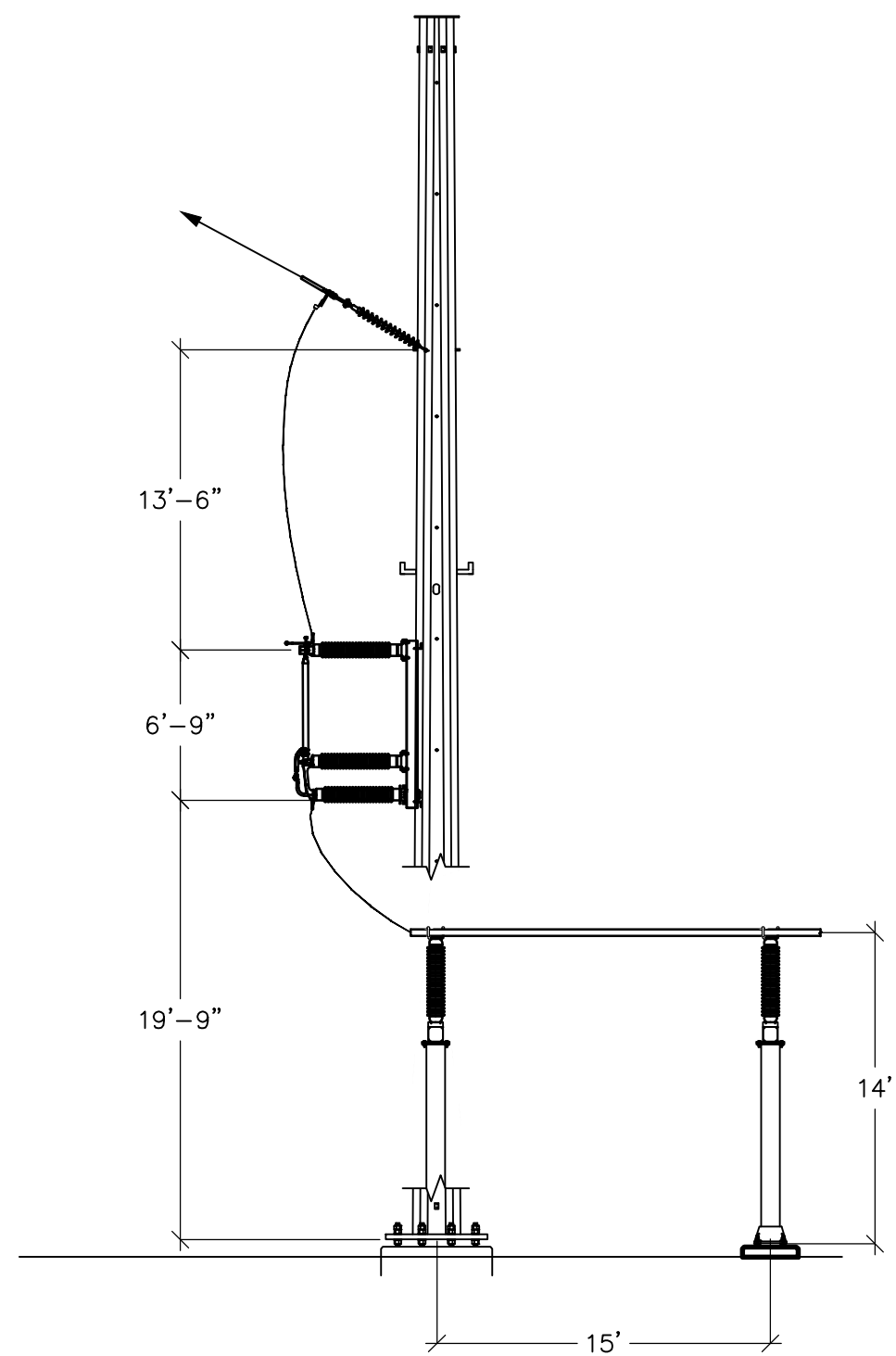
ISSUED FOR
PERMITTING



ELEVATION
SCALE: 1/8" = 1'-0" C
SK-0009



ELEVATION
SCALE: 1/8" = 1'-0" D
SK-0009



ELEVATION
SCALE: 1/8" = 1'-0" E
SK-0009

NOTES

- INSTALL 336.4 KCMIL ACSR CONDUCTORS IN ALL HORIZONTAL TUBULAR BUS RUNS OVER 12' IN LEGNTH.
- CONSTRUCTION OF THE 115 kV TRANSMISSION LINE CONNECTION TO BE COORDINATED BY CONTRACTOR.
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- ALL BOLTING PER EXHIBIT S- SPECIFICATION SECTION 337200. DISTRICT STANDARD 915/1100.005.

LEGEND

- F S EXP BUS SUPPORT FITTINGS: FIXED, SLIP, EXPANSION
- A1 MATERIAL ITEM OR SUB-ITEM NUMBER ON MATERIAL LIST DRAWING "1016-25WS-0002"
- A7 INDICATES DETAIL A7
SK-0009 INDICATES DRAWING ON WHICH DETAIL APPEARS "1016-25SK-0009"

STRUCTURE DESIGN CRITERIA

- 115 kV CLEARANCE: (550 kV BIL):
LIVE PARTS: MIN $\phi-G=42"$
MIN $\phi-\phi=53"$
TO GRADE: 12'-0" (BUS)
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- 12.5 kV CLEARANCE (110 kV BIL):
LIVE PARTS: MIN $\phi-G=7"$
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TO GRADE: 9'-0" (BUS)
21'-0" (DRIVEWAY)

ISSUED FOR
PERMITTING