


PROJECT PHASING PLAN:

- PHASE 1 - INCLUDES BUILDING ADDITION AND SUPPORTING UTILITIES SHOWN ON SUBSEQUENT PLAN SHEETS. THIS PHASE EXCLUDES THE CANOPY OVER THE LOADING DOCK AREA
- PHASE 2 - CANOPY OVER LOADING DOCK AREA







AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151
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FORESTRY · PLANNING · LANDSCAPE ARCHITECTURE

SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:

FAC-1084
BUILDING TUD
CMS ADDITION

OWNER INFORMATION:



LAM RESEARCH
11361 SW LEVETON DR
TUALATIN, OR 97062

NO.	DATE	SUBJECT

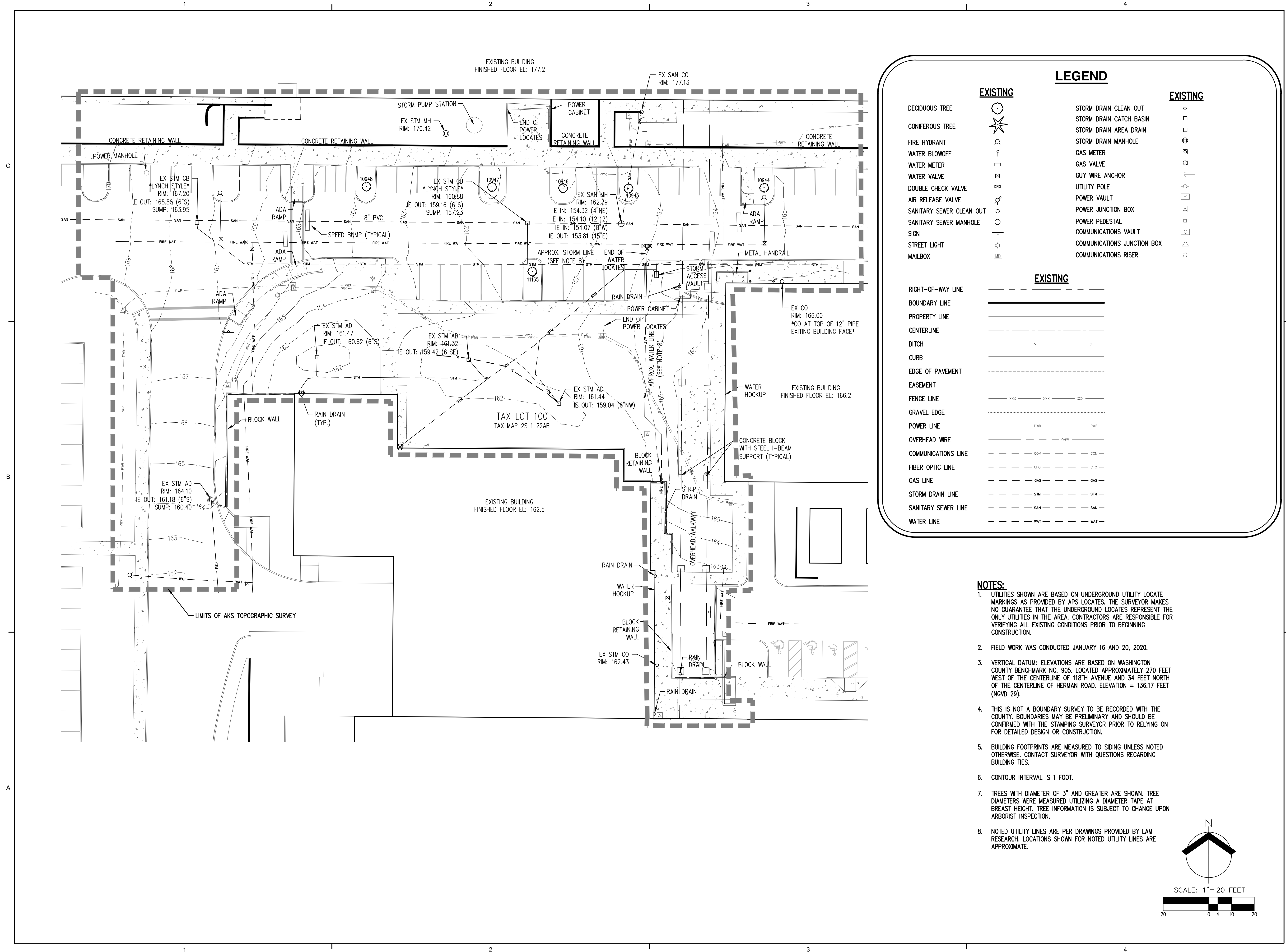
AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151

PROJECT NO: **7860**
PROJECT MANAGER: J. CHRISTIANSEN
DESIGNED: B.LAMBERT
CHECKED: J.SUBLET

DRAWING TITLE:
PROJECT PHASING PLAN

DRAWING NO:
P03

C:\jobs\7800-7899\7860 lam_tualatin - bldg chemical storage\CAD\Planning\7860 tud cms addition - e transmit\7860 P03 PROJECT PHASING PLAN.dwg
DATE: Mar 20, 2020 - 1:38pm USER: street



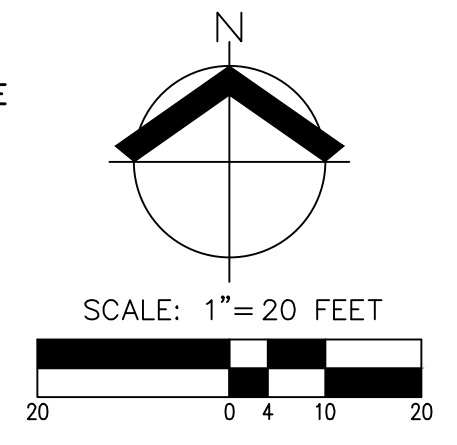
LEGEND

EXISTING	DECIDUOUS TREE		EXISTING	STORM DRAIN CLEAN OUT	
	CONIFEROUS TREE			STORM DRAIN CATCH BASIN	
	FIRE HYDRANT			STORM DRAIN AREA DRAIN	
	WATER BLOWOFF			STORM DRAIN MANHOLE	
	WATER METER			GAS METER	
	WATER VALVE			GAS VALVE	
	DOUBLE CHECK VALVE			GUY WIRE ANCHOR	
	AIR RELEASE VALVE			UTILITY POLE	
	SANITARY SEWER CLEAN OUT			POWER VAULT	
	SANITARY SEWER MANHOLE			POWER JUNCTION BOX	
	SIGN			POWER PEDESTAL	
	STREET LIGHT			COMMUNICATIONS VAULT	
	MAILBOX			COMMUNICATIONS JUNCTION BOX	
				COMMUNICATIONS RISER	

EXISTING

RIGHT-OF-WAY LINE	
BOUNDARY LINE	
PROPERTY LINE	
CENTERLINE	
DITCH	
CURB	
EDGE OF PAVEMENT	
EASEMENT	
FENCE LINE	
GRAVEL EDGE	
POWER LINE	
OVERHEAD WIRE	
COMMUNICATIONS LINE	
FIBER OPTIC LINE	
GAS LINE	
STORM DRAIN LINE	
SANITARY SEWER LINE	
WATER LINE	

- NOTES:**
- UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY APS LOCATES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
 - FIELD WORK WAS CONDUCTED JANUARY 16 AND 20, 2020.
 - VERTICAL DATUM: ELEVATIONS ARE BASED ON WASHINGTON COUNTY BENCHMARK NO. 905. LOCATED APPROXIMATELY 270 FEET WEST OF THE CENTERLINE OF 118TH AVENUE AND 34 FEET NORTH OF THE CENTERLINE OF HERMAN ROAD. ELEVATION = 136.17 FEET (NGVD 29).
 - THIS IS NOT A BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
 - BUILDING FOOTPRINTS ARE MEASURED TO SIDING UNLESS NOTED OTHERWISE. CONTACT SURVEYOR WITH QUESTIONS REGARDING BUILDING TIES.
 - CONTOUR INTERVAL IS 1 FOOT.
 - TREES WITH DIAMETER OF 3" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.
 - NOTED UTILITY LINES ARE PER DRAWINGS PROVIDED BY LAM RESEARCH. LOCATIONS SHOWN FOR NOTED UTILITY LINES ARE APPROXIMATE.



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SEAL ON THIS DOCUMENT AUTHORIZED BY:

REGISTERED PROFESSIONAL LAND SURVEYOR

PRELIMINARY

NOT FOR CONSTRUCTION

OREGON
JANUARY 11, 2005
ROBERT D. RETTIG
60124LS
RENEWS: 12/31/20

PROJECT INFORMATION:

FAC-1084
BUILDING TUD
CMS ADDITION

OWNER INFORMATION:

LAM RESEARCH

11361 SW LEVETON DR
TUALATIN, OR 97062

NO.	DATE	SUBJECT

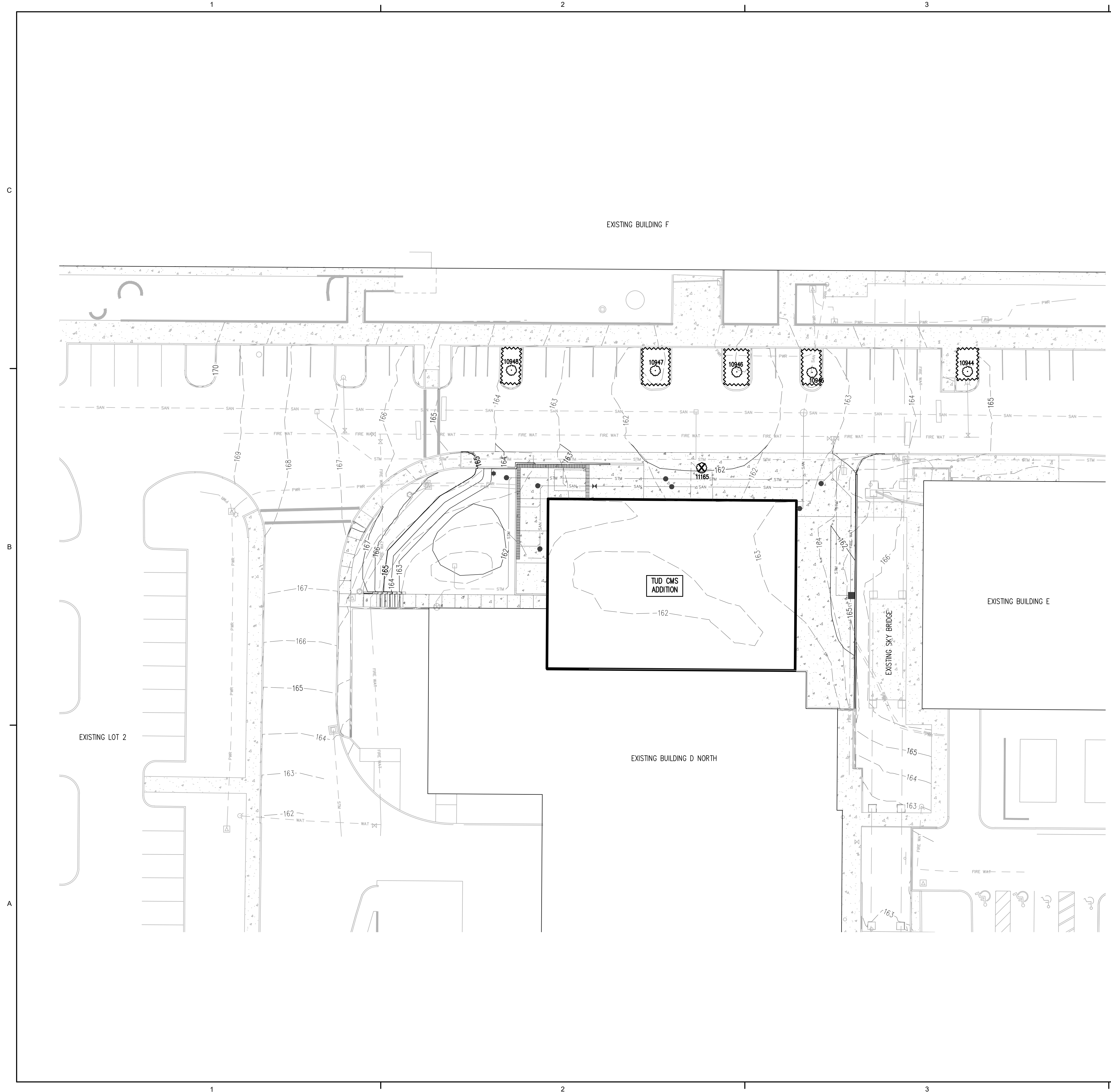
AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151

PROJECT NO: **7860**
PROJECT MANAGER: J. CHRISTIANSEN
DESIGNED: B.LAMBERT
CHECKED: J.SUBLET

DRAWING TITLE:
EXISTING CONDITIONS

DRAWING NO:
P02

C:\jobs\7860-7899\7860 Lam Tualatin - Bldg D Chemical Storage\CAD\Planning\7860 P02 EXCOND.dwg
DATE: Feb 21, 2020 - 8:30am USER: street



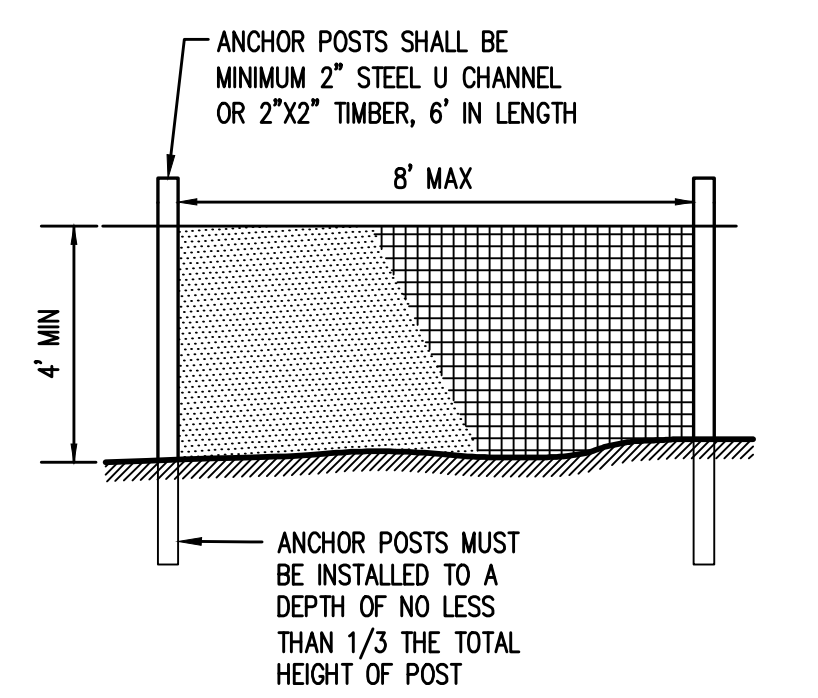
LEGEND

EXISTING GROUND CONTOUR (1 FT)	---
EXISTING GROUND CONTOUR (5 FT)	---350---
FINISHED GRADE CONTOUR (1 FT)	---
FINISHED GRADE CONTOUR (5 FT)	---345---
EXISTING DECIDUOUS TREE	⊙
TREE REMOVAL	⊗
TREE PROTECTION/CONSTRUCTION FENCE	~~~~~

TREE TABLE

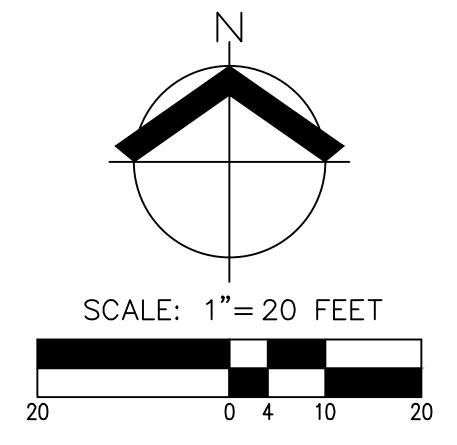
TREE NUMBER	TYPE	DBH (IN.)	PRESERVE/REMOVE
10944	DECIDUOUS	3	PRESERVE
10945	DECIDUOUS	5	PRESERVE
10946	DECIDUOUS	3	PRESERVE
10947	DECIDUOUS	4	PRESERVE
10948	DECIDUOUS	4	PRESERVE
11165	DECIDUOUS	1.5	REMOVE

TREE PROTECTION / CONSTRUCTION FENCE



- NOTES:**
- CHAIN LINK FENCE FOR TREE PROTECTION DEVICE OR APPROVED EQUAL.
 - AVOID DAMAGE TO CRITICAL ROOT ZONE. DO NOT DAMAGE OR SEVER LARGE ROOTS WHEN INSTALLING POSTS.
 - DEVICE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

- GENERAL NOTES:**
- ENCROACHMENTS (GRADING, CONSTRUCTION, ETC.) INTO ASSUMED TREE ROOT ZONES OUTSIDE OF THE TREE PROTECTION AREA OF TREES TO BE PRESERVED AS SHOWN SHOULD NOT HAVE SIGNIFICANT NEGATIVE IMPACTS TO TREE HEALTH.
 - GRADING ACTIVITIES SHALL NOT INCLUDE ALLOWING TREE ROOTS FROM PRESERVED TREES TO REMAIN EXPOSED PER TDC 73.250(2)(F). PER TDC 31.060, A TREE IS DEFINED AS AT LEAST EIGHT (8) INCHES IN DIAMETER AT BREST HEIGHT (DBH). SOME ADDITIONAL TREES UNDER 8 INCHES IN DBH ARE SHOWN.



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BUILDING TUD
CMS ADDITION**

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TUALATIN, OR 97062

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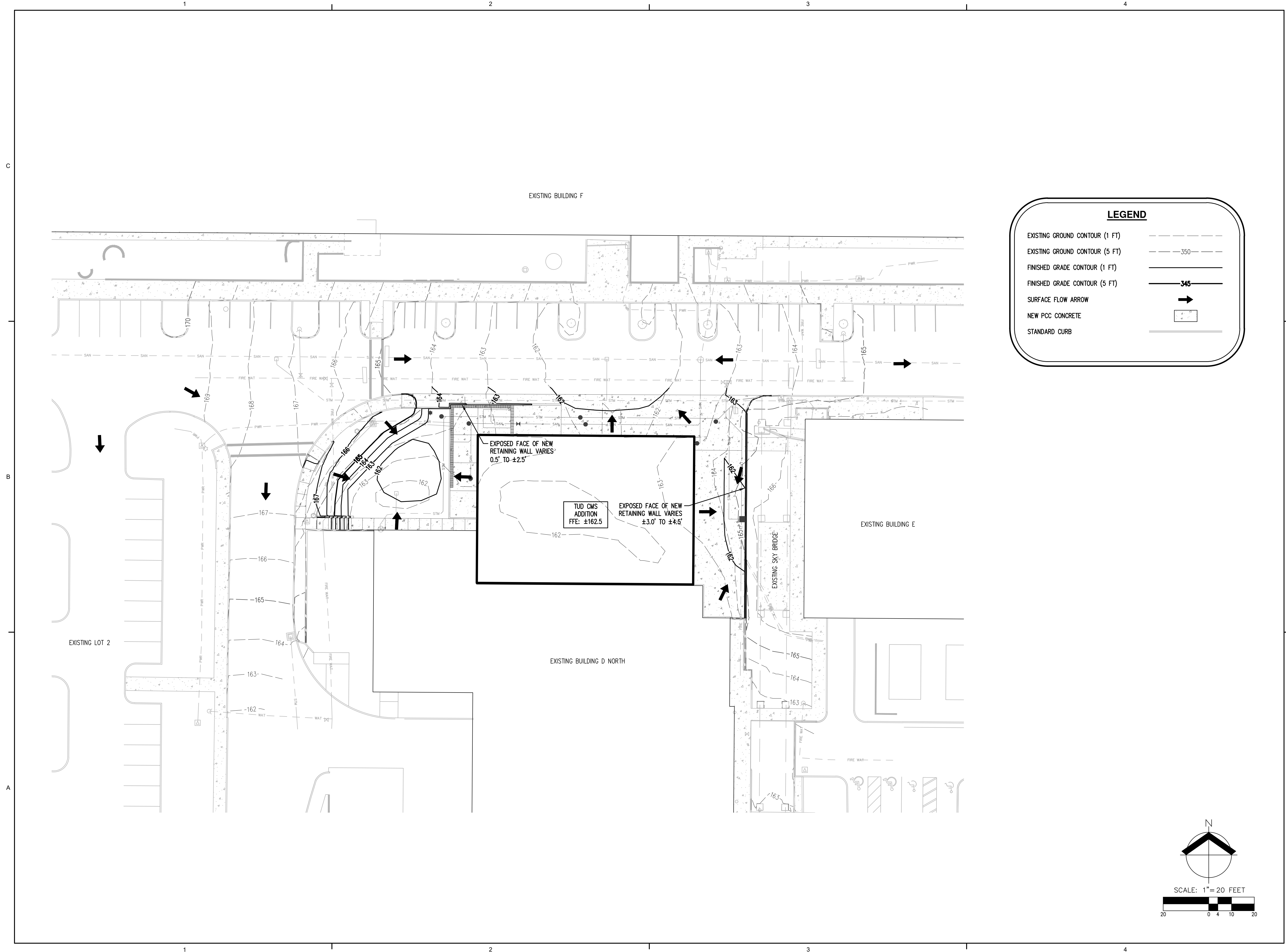
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503.563.6151

PROJECT NO: **7860**
PROJECT MANAGER: J. CHRISTIANSEN
DESIGNED: B.LAMBERT
CHECKED: J.SUBLET

DRAWING TITLE:
**PRELIMINARY TREE
PRESERVATION AND
REMOVAL PLAN**

DRAWING NO:
P04

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SEAL ON THIS DOCUMENT AUTHORIZED BY:

RENEWAL DATE: 12/31/21

PROJECT INFORMATION:

FAC-1084
BUILDING TUD
CMS ADDITION

OWNER INFORMATION:

LAM RESEARCH
 11361 SW LEVETON DR
 TUALATIN, OR 97062

NO.	DATE	SUBJECT

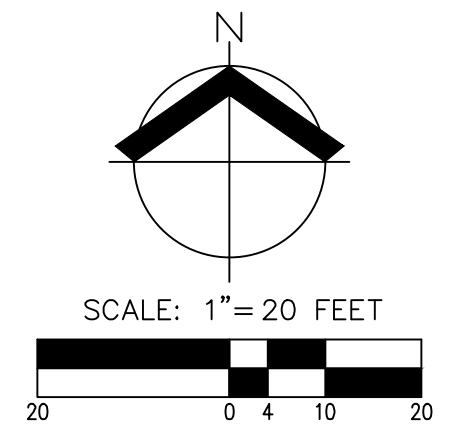
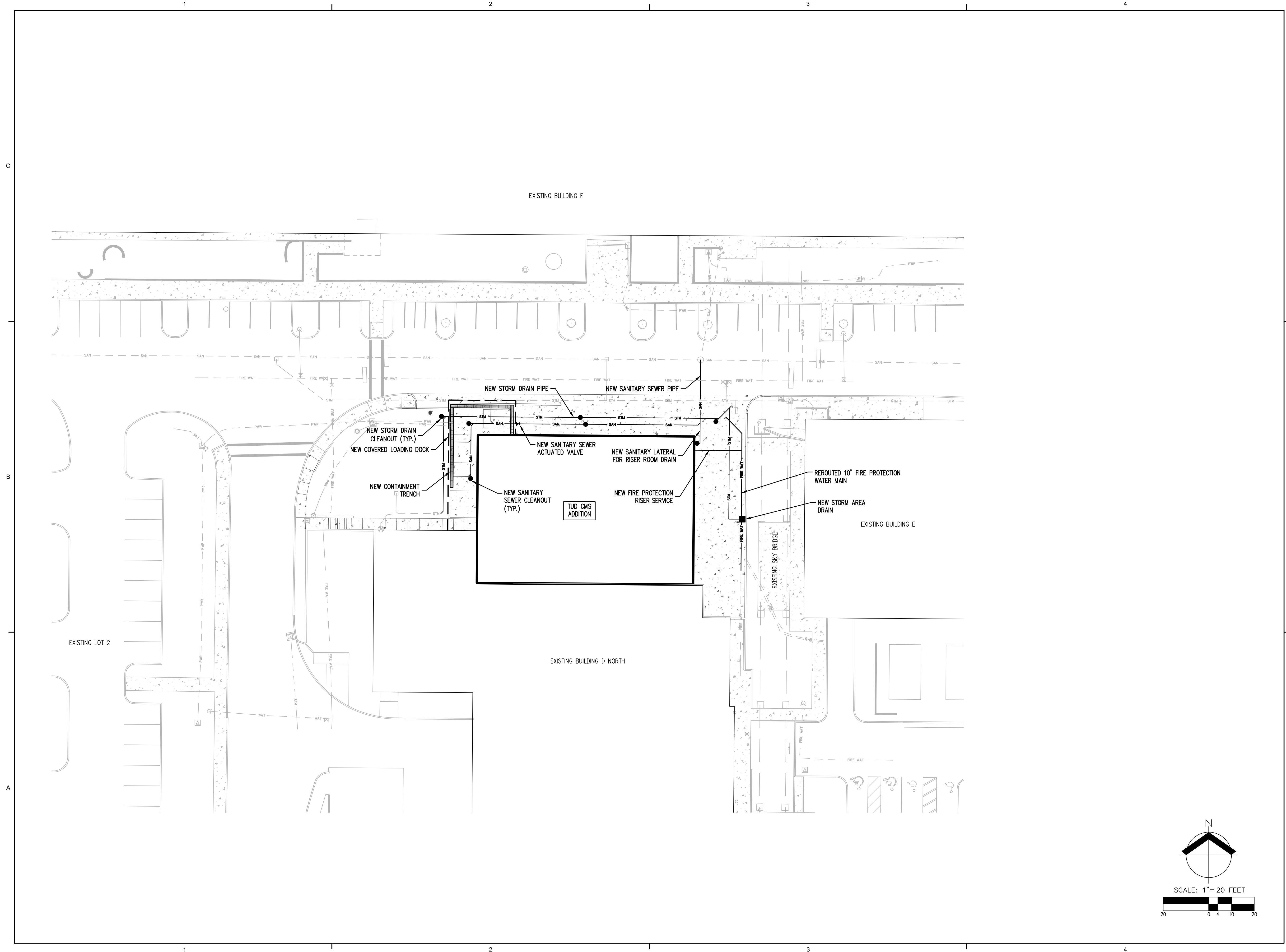
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PROJECT NO: **7860**
 PROJECT MANAGER: J. CHRISTIANSEN
 DESIGNED: B.LAMBERT
 CHECKED: J.SUBLET

DRAWING TITLE:
PRELIMINARY GRADING PLAN

DRAWING NO:
P05

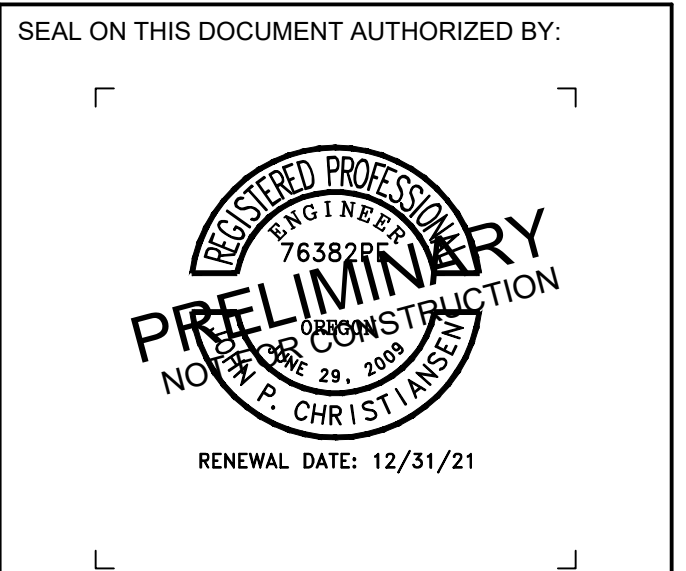
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PROJECT INFORMATION:

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BUILDING TUD
CMS ADDITION

OWNER INFORMATION:

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 TUALATIN, OR 97062

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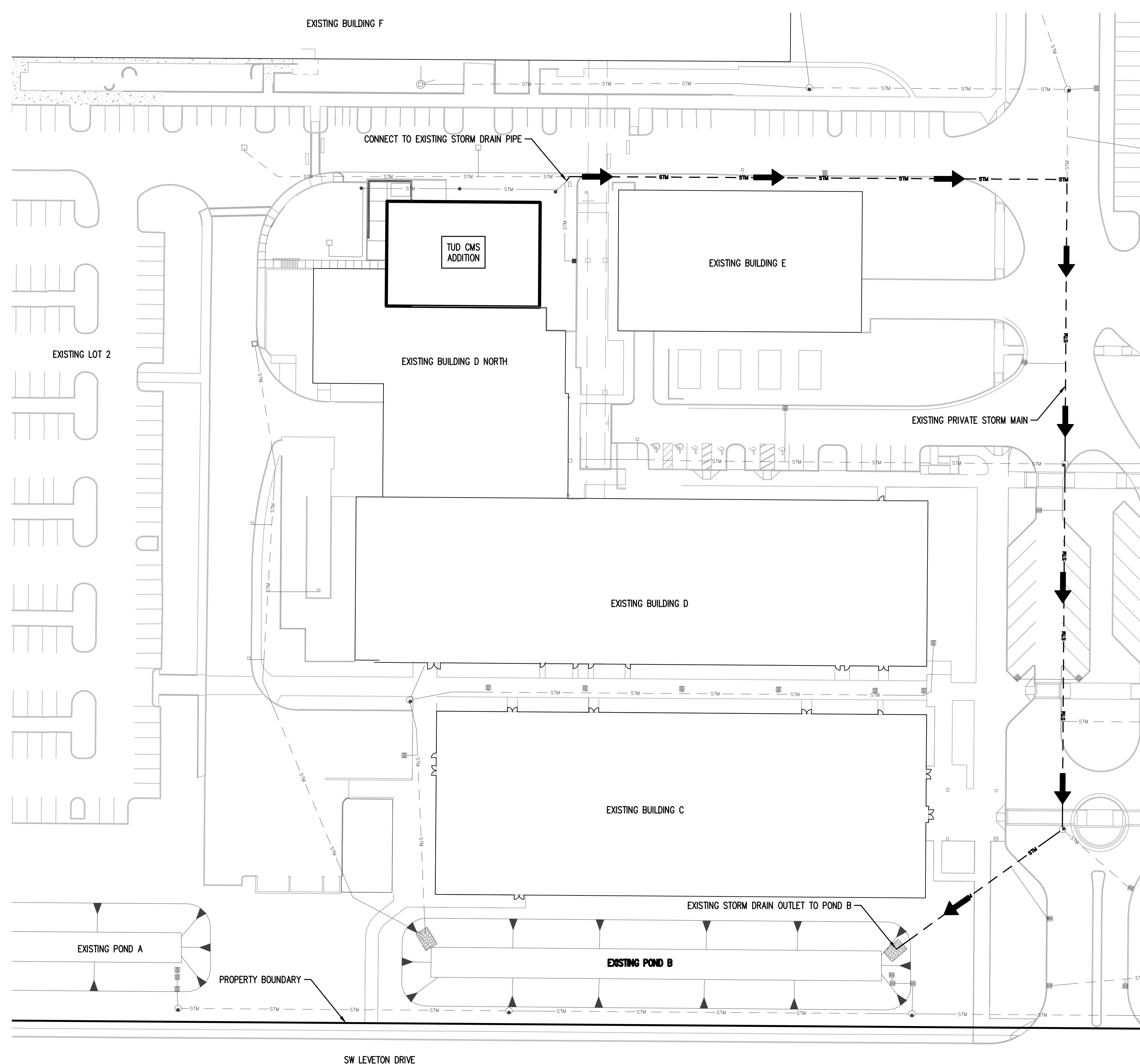
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PROJECT NO: **7860**
 PROJECT MANAGER: J. CHRISTIANSEN
 DESIGNED: B.LAMBERT
 CHECKED: J.SUBLET

DRAWING TITLE:
PRELIMINARY
COMPOSITE UTILITY
PLAN

DRAWING NO:
P06

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GENERAL NOTE:
 1. SITE STORM RUNOFF WILL DRAIN TO EXISTING STORM POND B. THERE ARE NO UPDATES OR UPSIZING REQUIRED.



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RENEWAL DATE: 12/31/21

PROJECT INFORMATION:

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BUILDING TUD
CMS ADDITION

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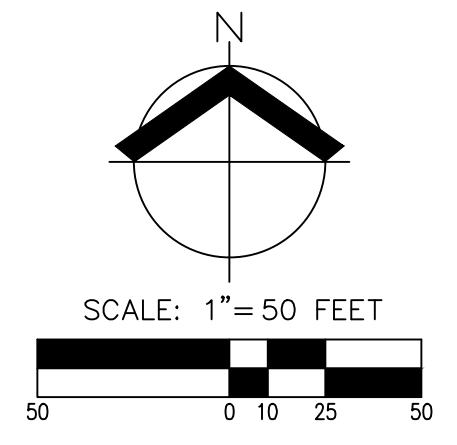
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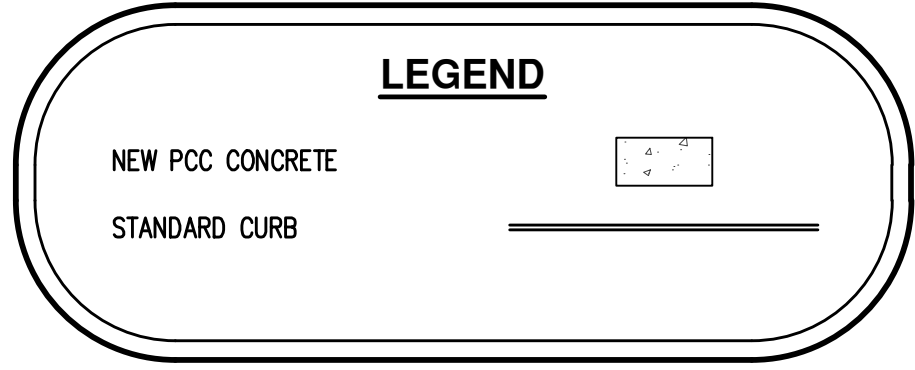
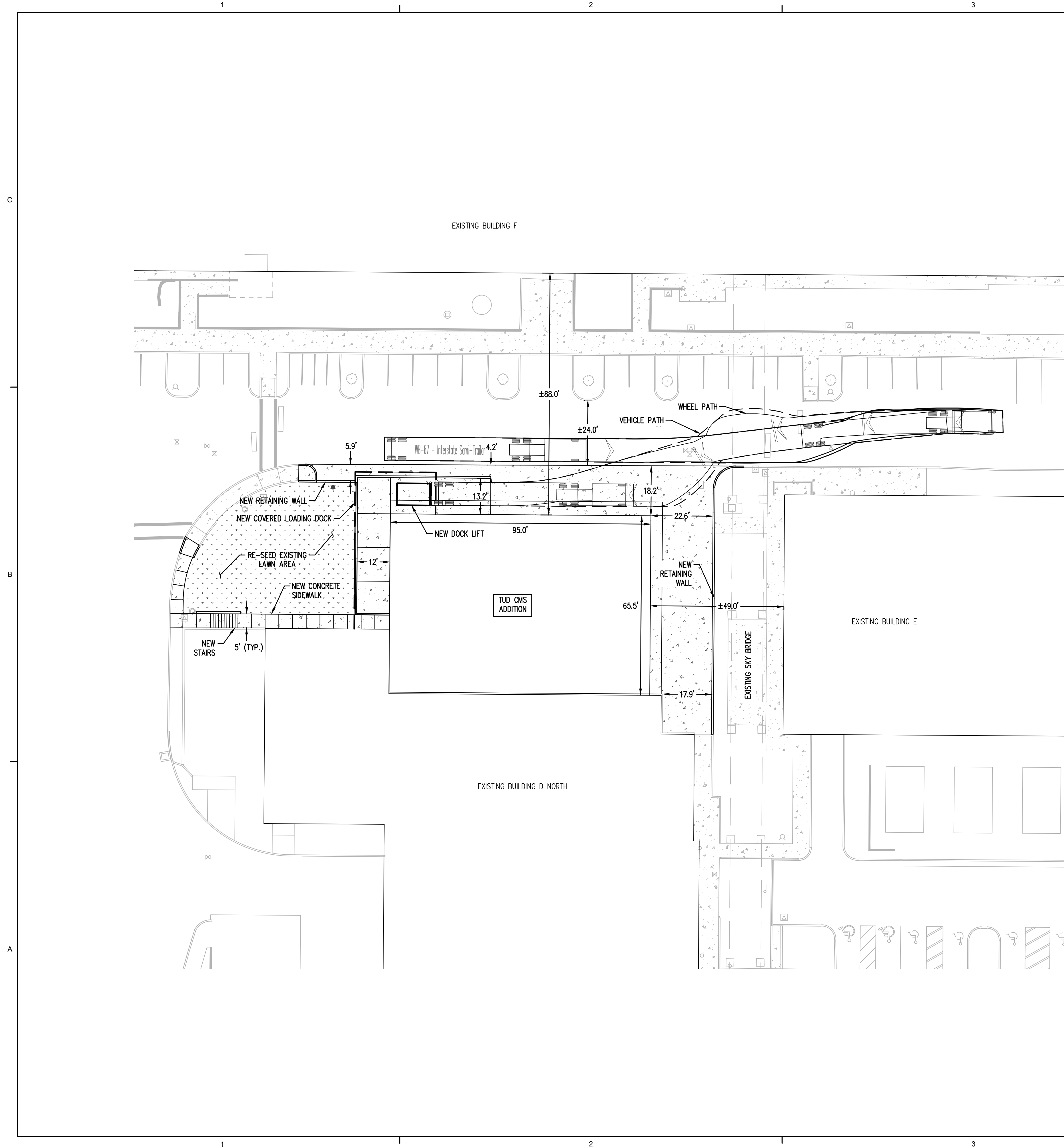
PROJECT NO: **7860**
 PROJECT MANAGER: J. CHRISTIANSEN
 DESIGNED: B.LAMBERT
 CHECKED: J.SUBLET

DRAWING TITLE:
PRELIMINARY PUBLIC
FACILITIES PLAN

DRAWING NO:
P07



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 DATE: Feb 21, 2020 - 8:31am USER: street



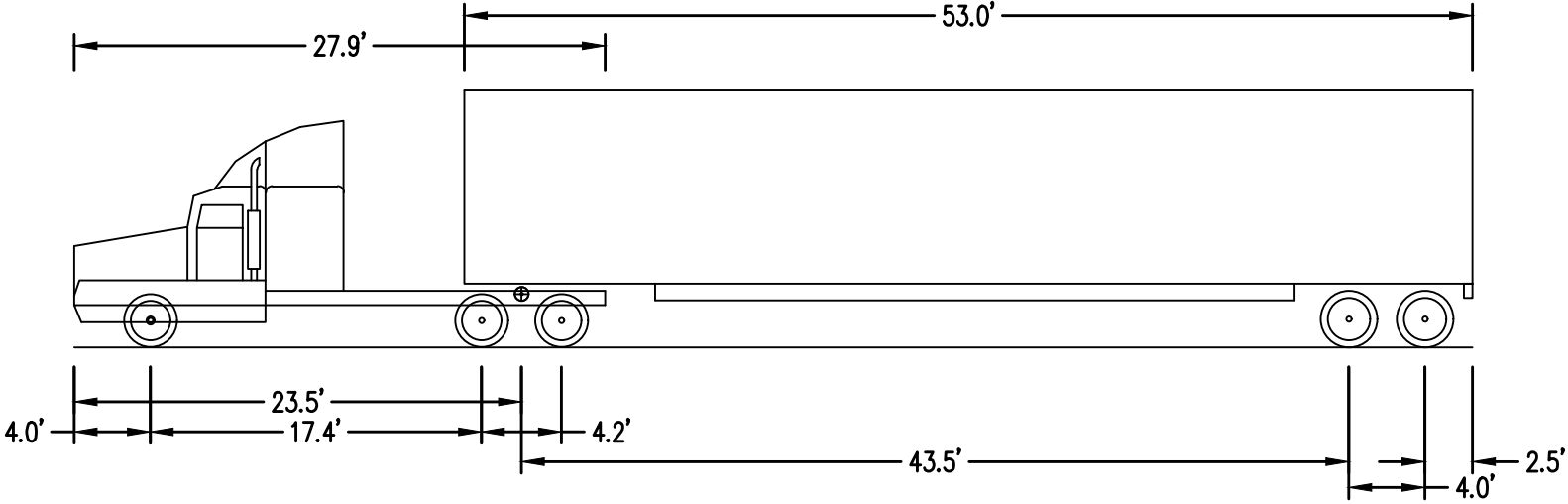
LANDSCAPE CALCULATIONS
REFER TO DEVELOPMENT CODE NARRATIVE.

SITE DATA
TOTAL SITE AREA = ±58 AC
PROJECT LIMITS AREA = ±14,145 SF
NEW BUILDING AREA = ±6,900 SF
SITE PAVING AND WALKWAY AREA = ±5,097 SF

TRUCK TURNING NOTES

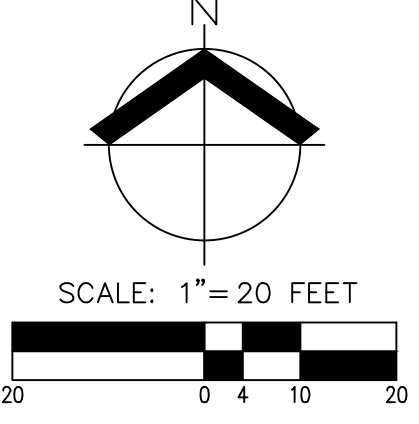
- AUTODESK VEHICLE TRACKING 2018.2 WAS UTILIZED TO SIMULATE TRUCK TURNING MOVEMENTS.
- DESIGN VEHICLE: WB-67 - INTERSTATE SEMI-TRAILER

OVERALL LENGTH	73.501FT
OVERALL WIDTH	8.500FT
OVERALL BODY HEIGHT	13.500FT
MIN BODY GROUND CLEARANCE	1.334FT
MAX TRACK WIDTH	8.500FT
LOCK-TO-LOCK TIME	6.00S
MAX STEERING ANGLE (VIRTUAL)	28.40°



PLANT SCHEDULE

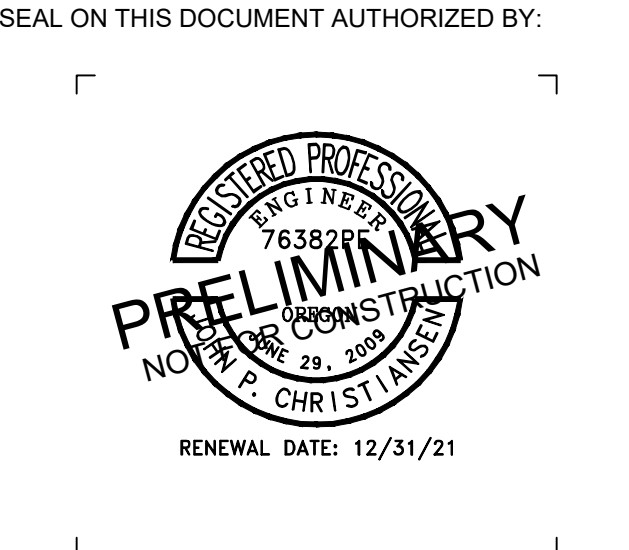
GROUND COVERS	QTY	BOTANICAL NAME
	APPROX. 2,614 SF	LAWN - NORTHWEST SUPREME LAWN SEED MIX (OR APPROVED EQUAL) SUNMARK SEEDS <ul style="list-style-type: none"> • LOLIUM PERENNE VAR DASHER 3 (DASHER 3 PERENNIAL RYEGRASS) 35% • LOLIUM PERENNE VAR CUTTER II (CUTTER II PERENNIAL RYEGRASS) 35% • FESTUCA RUBRA VAR GARNET (GARNET CREEPING RED FESCUE) 15% • FESTUCA RUBRA SPP FALLAX VAR WINDWARD (WINDWARD CHEWINGS FESCUE) 15%
APPLY AT A RATE OF 8 LBS. PER 1,000 SF OR AS RECOMMENDED BY SUPPLIER.		



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PROJECT INFORMATION:

FAC-1084
BUILDING TUD
CMS ADDITION

OWNER INFORMATION:

LAM RESEARCH
11361 SW LEVETON DR
TUALATIN, OR 97062

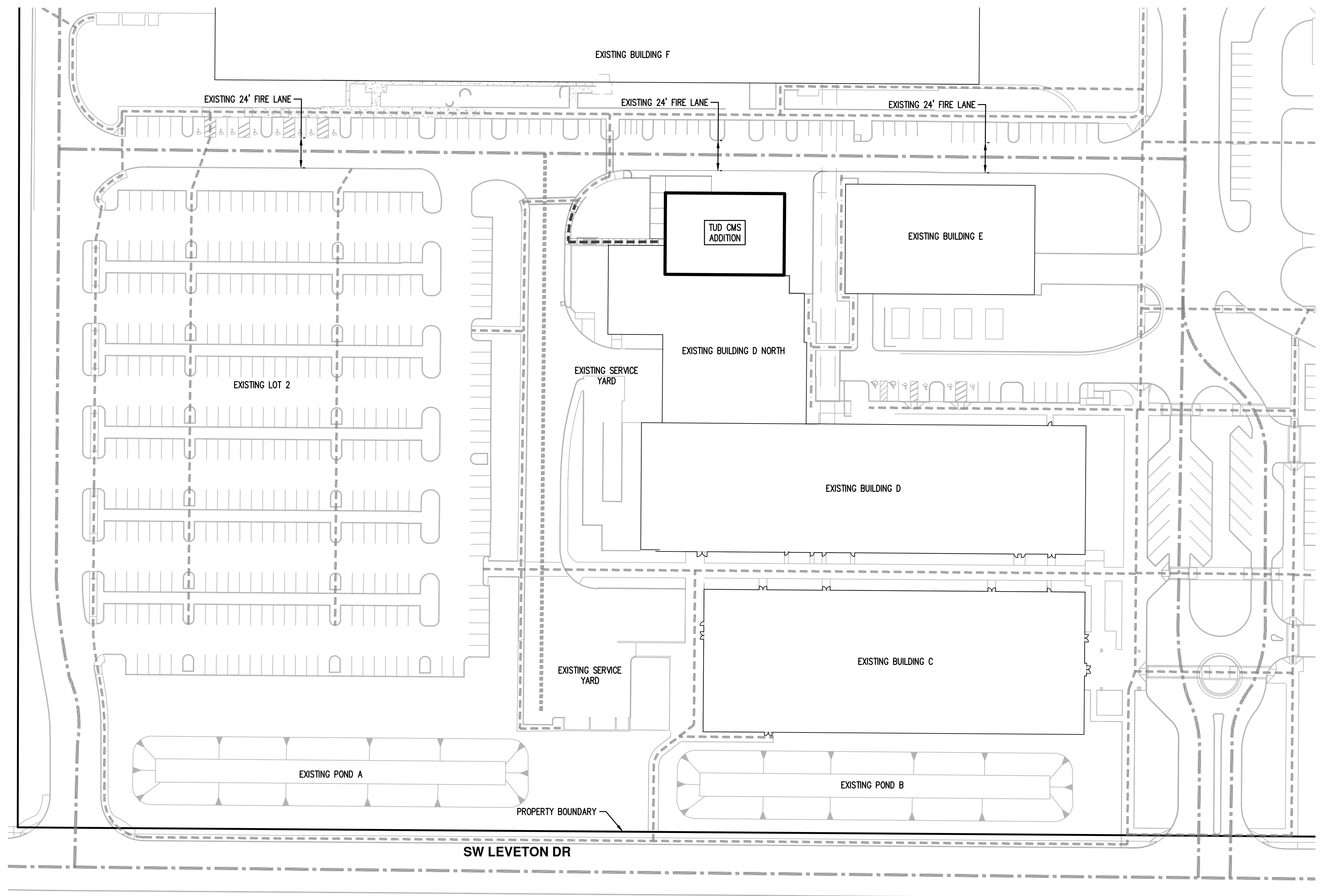
NO.	DATE	SUBJECT

AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151

PROJECT NO: **7860**
PROJECT MANAGER: J. CHRISTIANSEN
DESIGNED: B.LAMBERT
CHECKED: J.SUBLET

DRAWING TITLE:
**PRELIMINARY SITE AND
LANDSCAPE PLAN**

DRAWING NO:
P08



LEGEND

- NEW PEDESTRIAN CIRCULATION
- EXISTING PEDESTRIAN CIRCULATION
- EXISTING SERVICE VEHICLE ACCESS
- EXISTING VEHICLE CIRCULATION
- EXISTING MAINTENANCE ACCESS

GENERAL NOTES:

1. THIS IS A CONCEPTUAL PLAN INTENDED TO SHOW POTENTIAL FUTURE ACCESS CONNECTIONS FOR ILLUSTRATIVE PURPOSES ONLY. IT SHALL NOT BE BINDING ON THE CITY OR PROPERTY OWNERS, EXCEPT AS MAY BE REQUIRED THROUGH CONDITIONS OF LAND USE APPROVAL.
2. EXISTING PEDESTRIAN AND VEHICLE CIRCULATION CONTINUES OFF PAGE TO EXISTING BUILDINGS AND PARKING FACILITIES.
3. TRAFFIC IMPACT STUDY IS NOT REQUIRED.

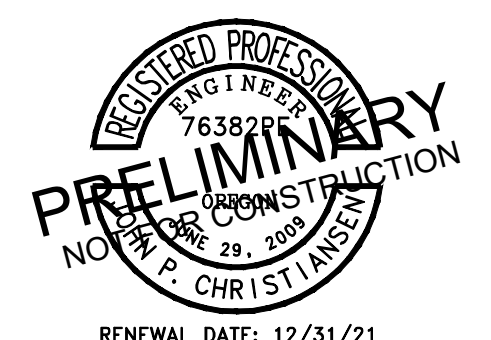


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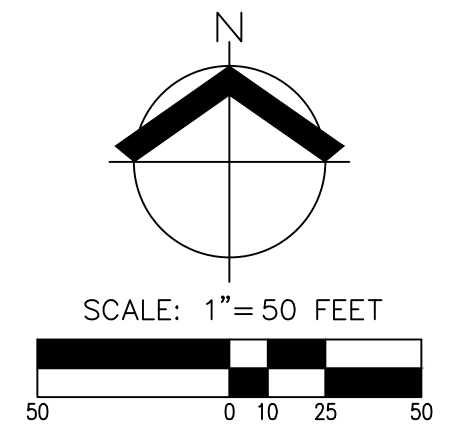
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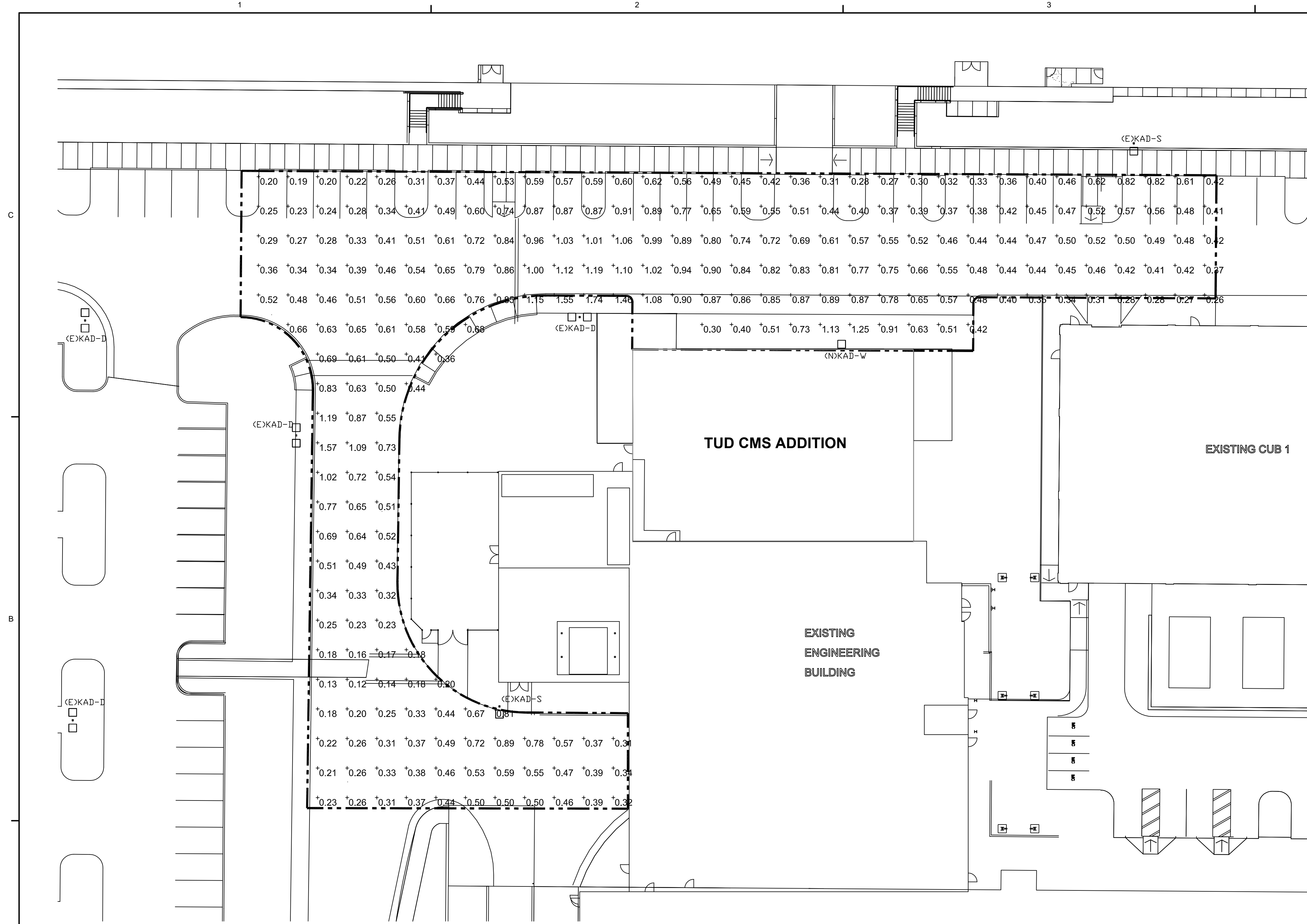
PROJECT NO: **7860**
 PROJECT MANAGER: J. CHRISTIANSEN
 DESIGNED: B.LAMBERT
 CHECKED: J.SUBLET

DRAWING TITLE:
PRELIMINARY
CIRCULATION PLAN

DRAWING NO:
P09



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 DATE: Feb 21, 2020 - 8:31am USER: streetc



GENERAL NOTES

- A. LIGHTING CALCULATIONS AND LEVELS ARE SHOWN AS A GUIDELINE FOR FINAL DESIGN OF THE PROPOSED BUILDING ADDITION.
- B. FINAL DESIGN SHALL INCLUDE ALL LIGHTING DETAILS NECESSARY, INCLUDING LUMINAIRE TYPES, BRANCH CIRCUIT WIRING AND CONTROL.
- C. PHOTOMETRICS PARAMETERS:
 * LIGHTING VALUES ARE IN FOOT-CANDLES (FC), TO CONVERT FROM FOOT-CANDLES TO LUMENS PER METER (LM/M²); 1 FC = 10.76 LM/M²
 * CALCULATION GRID IS 10'-0" x 10'-0".
 * CALCULATION ELEVATION IS 0'-6" ABOVE FINISHED GRADE.
- D. LUMINAIRE NOTED (E) ARE EXISTING AND ARE BASED ON OWNER FURNISHED RECORD DRAWINGS.
- E. ALL PROPOSED NEW LUMINAIRE (N) ARE A MINIMUM OF 200'-0" FROM PROPERTY LINES.

STATISTICS					
DESCRIPTION	AVG.	MAX.	MIN.	MAX./MIN.	AVG./MIN
City of Tualatin Standard (not to exceed)	0.5fc	-	0.13fc	20.0:1	4.0:1
AREA #1	0.56fc	1.74fc	0.13fc	14.5:1	4.3:1

PHOTOMETRICS BASED ON RECORD DOCUMENTS AND REPRESENT BEST AVAILABLE INFORMATION. EXISTING LUMINAIRE TYPES AND SPECIFICATIONS ARE UNKNOWN. ACTUAL LIGHTING LEVELS MAY VARY.

LUMINAIRE SCHEDULE							
TYPE	MANUFACTURER	CATALOG	CONFIGURATION	DISTRIBUTION	Watts	LUMENS	MOUNTING HEIGHT
KAD-D	LITHONIA	KAD LED 20C 530 30K R4 MVOLT	DOUBLE	R4 (TYPE IV)	70	3000K	25'-0" AFG
KAD-S	LITHONIA	KAD LED 20C 530 30K R4 MVOLT	SINGLE	R4 (TYPE IV)	35	3000K	25'-0" AFG
KAD-W	LITHONIA	KAD LED 20C 530 30K R4 MVOLT	WALL	R4 (TYPE IV)	35	3000K	25'-0" AFG



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PROJECT INFORMATION:
FAC-1084
BUILDING TUD
CMS ADDITION



LAM Research
 11361 SW LEVETON DR
 TUALATIN, OR 97062

CLIENT PROJECT NO:

NO.	DATE	SUBJECT

REVISION OR ISSUE

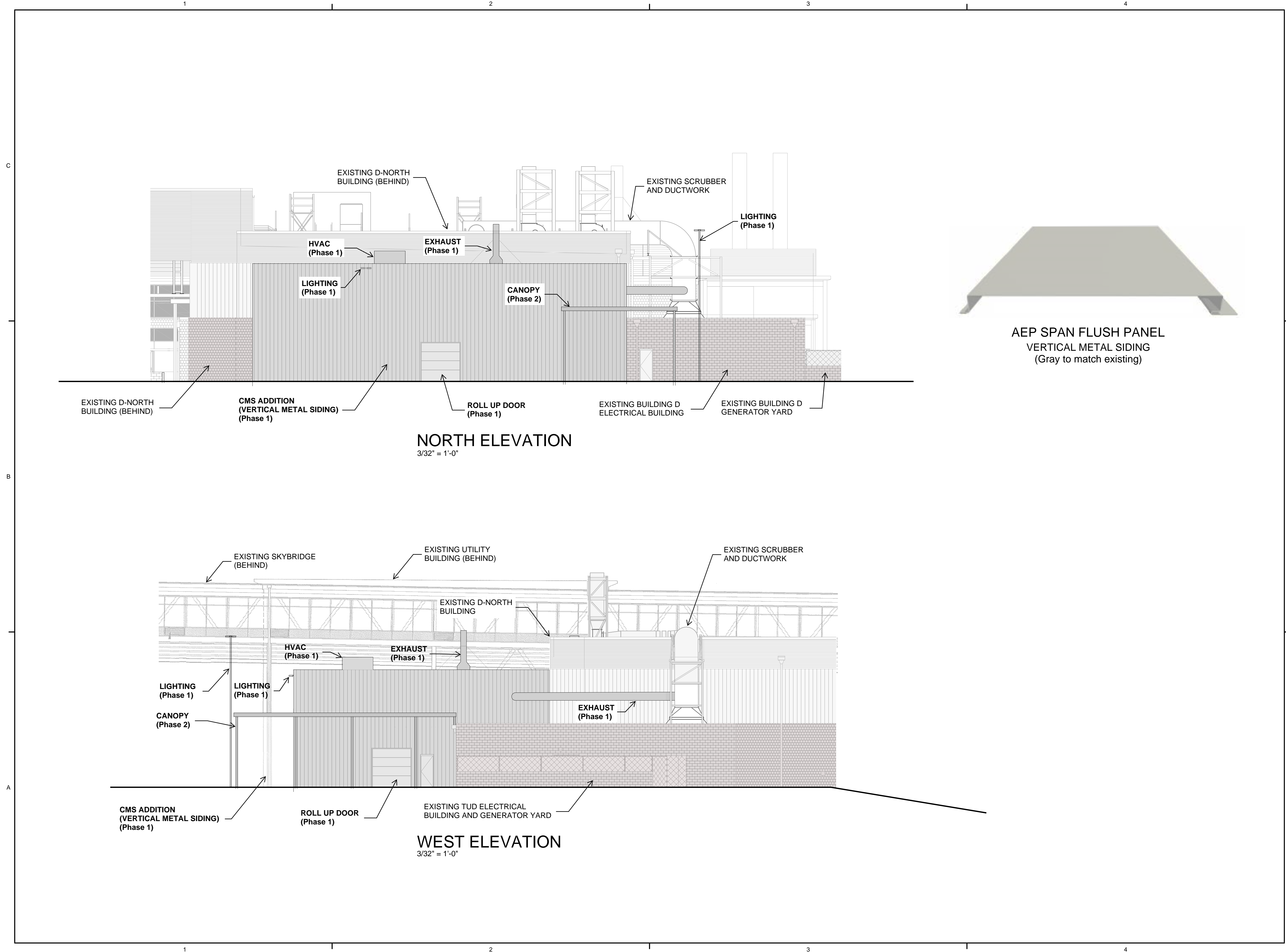
SSOE, Inc.

PROJECT NO: **019-00362-00**
 PROJECT MANAGER: JOEY KRAGT
 DESIGNED: GREG DIETER
 CHECKED: CHRIS HANSON

DRAWING TITLE:
PRELIMINARY
PHOTOMETRIC ANALYSIS

DRAWING NO:
P11

USER: DATE:



SSOE

JEDUNN
CONSTRUCTION

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PROJECT INFORMATION:
FAC-1084
BUILDING TUD
CMS ADDITION

CLIENT INFORMATION:
Lam
RESEARCH

LAM Research
11361 SW LEVETON DR
TUALATIN, OR 97062

CLIENT PROJECT NO:

NO.	DATE	SUBJECT

REVISION OR ISSUE
SSOE, Inc.

PROJECT NO: **019-00362-00**
PROJECT MANAGER: JOEY KRAGT
DESIGNED: CHRIS HANSON
CHECKED: XIAOYING ZHANG

DRAWING TITLE:
PRELIMINARY
ELEVATIONS
AND MATERIALS

DRAWING NO:
P10

DATE: USER:

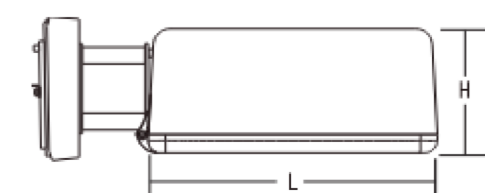


KAD LED LED Area Luminaire



Specifications

EPA: 1.2 ft² (0.11 m²)
Length: 17.1/2" (44.5 cm)
Width: 17.1/2" (44.5 cm)
Height: 7.1/8" (18.1 cm)
Weight (max): 36 lbs. (16.4 kg)



Category	
Notes	
Type	

Capable Luminaire
 This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability!
- This luminaire is part of an A+ Certified solution for ROAM™2 or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background!

To learn more about A+, visit www.acuitybrands.com/a+.
 1. See ordering tier for details.
 2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately. [Link to Roam](#); [Link to DTL DLL](#)

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT 1 277V

Series	LEDs	Drive current	CCT	Distribution	Voltage	Mounting*	Shipped included	Shipped separately
KAD LED	20C ¹ 20 LEDs	530 530 mA	30K 3000K	R2 type I	MVOLT 1	277V	SPIMBAK ¹ Square pole universal mounting adapter ¹	DAD12P Degree arm (pole)
	30C ¹ 30 LEDs	700 700 mA	40K 4000K	R3 type II	120V	347V	SPIMBAK ¹ Round pole universal mounting adapter ¹	06 6" arm
	40C 40 LEDs	1000 1000 mA	50K 5000K	R4 type IV	208V	480V	SPD ¹ Square pole	DAD12WS Degree arm (wall)
	60C 60 LEDs		R5 type V ¹	240V			RFD ¹ Round pole	12 12" arm ¹
							WRD ¹ Wall bracket ²	KMA Max arm external fitter
							WWD ¹ Wood pole or wall	

Options	Shipped installed	Shipped separately ¹	Finish ²
PER ¹	HEMA ¹ hex face five-wire receptacle only (no controls) ^{1,2}	PRM1003 Part right, dim all down ^{1,2,3}	DOBXD Dark bronze
PER ¹	Seven-wire receptacle only (no controls) ^{1,2}	PRM1503 Part right, dim 5 hrs ^{1,2,3}	DBLXD Textured black
SF	Single-fuse (120, 277, 347V) ⁴	PRM1603 Part right, dim 7 hrs ^{1,2,3}	DNALXD Natural aluminum
DF	Double-fuse (120, 277, 347V) ⁴	PRM1703 Part right, dim 7 hrs ^{1,2,3}	DNATXD Textured natural aluminum
PR	Bi-level, motion/ambient sensor, 8-17' mounting height, ambient sensor enabled at 5% ^{1,2,3,4}	PRM1803 Part right, dim 7 hrs ^{1,2,3}	DWHGXD Textured white
PRH	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5% ^{1,2,3,4}	PRM1903 Part right, dim 7 hrs ^{1,2,3}	
		BL30 Bi-level on track dimming, 30% ^{1,2,3}	
		BL50 Bi-level switched dimming, 50% ^{1,2,3}	
		HS Hours/Dr shield ¹	

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Base Current (mA)	Drive Current (mA)	10K (1000 K, 70°/85°)			40K (4000 K, 70°/85°)			50K (5000 K, 70°/85°)		
			10K	40K	50K	10K	40K	50K	10K	40K	50K
530 mA	35W	R2	4,186	11,011	11,011	4,446	11,011	11,011	4,473	11,011	11,011
		R3	4,182	11,011	11,011	4,402	11,011	11,011	4,453	11,011	11,011
		R4	4,138	11,011	11,011	4,403	11,011	11,011	4,460	11,011	11,011
		R5	4,381	11,011	11,011	4,294	11,011	11,011	4,234	11,011	11,011
		R2	4,291	11,011	11,011	4,640	11,011	11,011	4,586	11,011	11,011
700 mA	45W	R2	4,259	11,011	11,011	4,637	11,011	11,011	4,573	11,011	11,011
		R4	4,256	11,011	11,011	4,644	11,011	11,011	4,579	11,011	11,011
		R5	4,578	11,011	11,011	4,590	11,011	11,011	4,602	11,011	11,011
		R2	4,344	11,011	11,011	4,286	11,011	11,011	4,293	11,011	11,011
		R3	4,248	11,011	11,011	4,254	11,011	11,011	4,260	11,011	11,011
1000 mA	75W	R4	4,242	11,011	11,011	4,282	11,011	11,011	4,292	11,011	11,011
		R5	4,271	11,011	11,011	4,245	11,011	11,011	4,247	11,011	11,011
		R2	4,366	11,011	11,011	4,621	11,011	11,011	4,643	11,011	11,011
		R3	4,147	11,011	11,011	4,194	11,011	11,011	4,135	11,011	11,011
		R4	4,140	11,011	11,011	4,162	11,011	11,011	4,143	11,011	11,011
530 mA	57W	R5	4,525	11,011	11,011	4,321	11,011	11,011	4,260	11,011	11,011
		R2	4,217	11,011	11,011	4,195	11,011	11,011	4,122	11,011	11,011
		R3	4,285	11,011	11,011	4,148	11,011	11,011	4,142	11,011	11,011
		R4	4,294	11,011	11,011	4,179	11,011	11,011	4,122	11,011	11,011
		R5	4,252	11,011	11,011	4,162	11,011	11,011	4,129	11,011	11,011
700 mA	67W	R2	4,125	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,127	11,011	11,011	4,195	11,011	11,011	4,122	11,011	11,011
		R4	4,294	11,011	11,011	4,179	11,011	11,011	4,122	11,011	11,011
		R5	4,252	11,011	11,011	4,162	11,011	11,011	4,129	11,011	11,011
		R2	4,125	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
1000 mA	80W	R3	4,121	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R4	4,124	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R5	4,121	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R2	4,121	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,121	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
530 mA	77W	R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R2	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
700 mA	94W	R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R2	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
1000 mA	117W	R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R2	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
530 mA	80W	R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R2	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
700 mA	117W	R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R2	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
1000 mA	210W	R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R4	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R5	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R2	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011
		R3	4,112	11,011	11,011	4,129	11,011	11,011	4,123	11,011	11,011

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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 54°F (12.2°C).

Ambient	Lumen Multiplier
54°F	1.00
59°F	1.01
64°F	1.00
77°F	1.00
80°F	1.00
104°F	0.99

Electrical Load

Number of Luminaires	Current (A)
125	204
240	371
347	481
480	819
530	918
615	1035
675	1140
720	1224
765	1296
810	1368
855	1440
900	1512
945	1584
990	1656
1035	1728
1080	1800
1125	1872
1170	1944
1215	2016
1260	2088
1305	2160
1350	2232
1395	2304
1440	2376
1485	2448
1530	2520
1575	2592
1620	2664
1665	2736
1710	2808
1755	2880
1800	2952
1845	3024
1890	3096
1935	3168
1980	3240
2025	3312
2070	3384
2115	3456
2160	3528
2205	3600
2250	3672
2295	3744
2340	3816
2385	3888
2430	3960
2475	4032
2520	