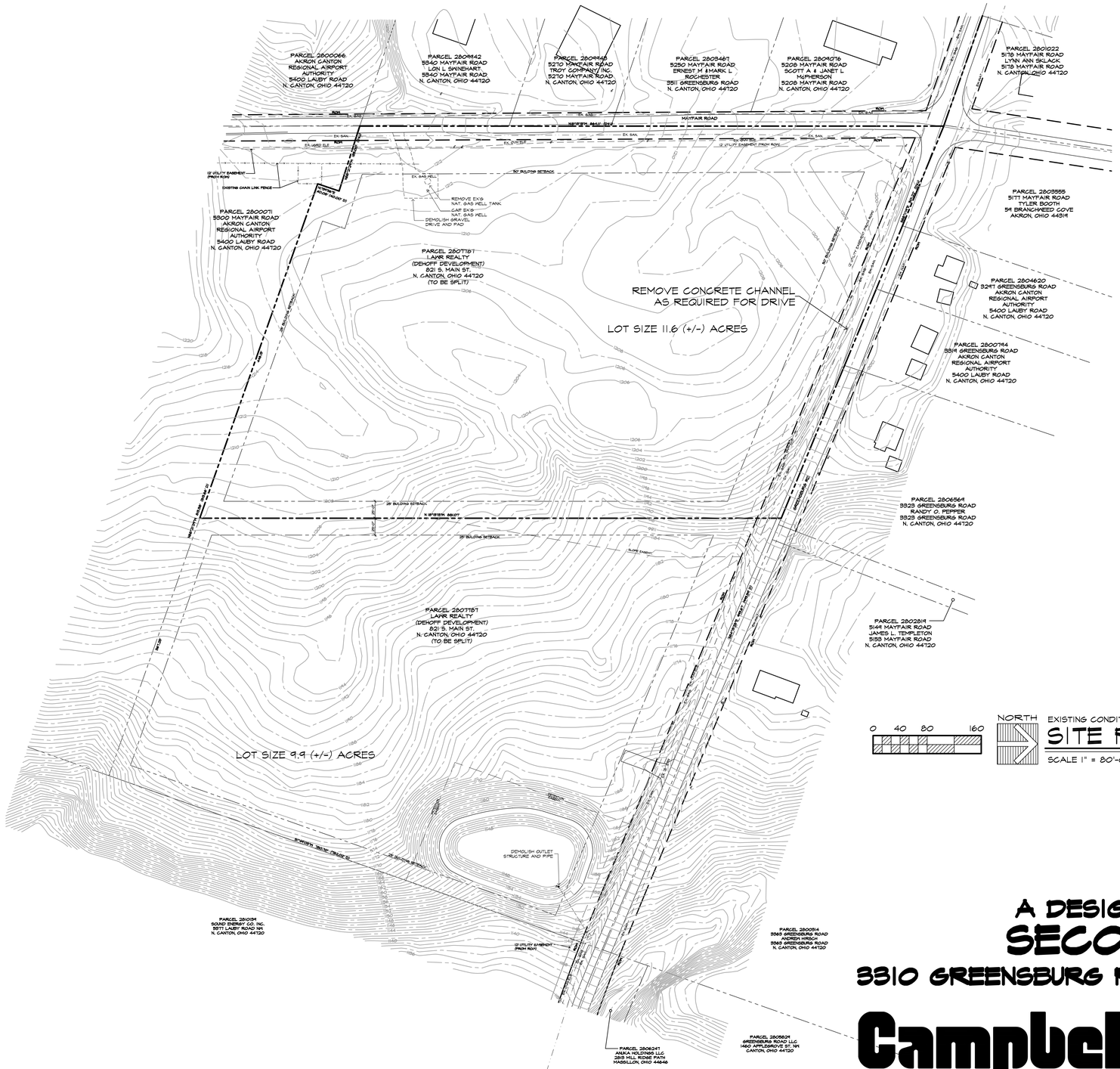

0 40 80 160

NORTH

EXISTING CONDITIONS & DEMOLITION

SITE PLAN

SCALE 1" = 80'-0"

DRAWING INDEX

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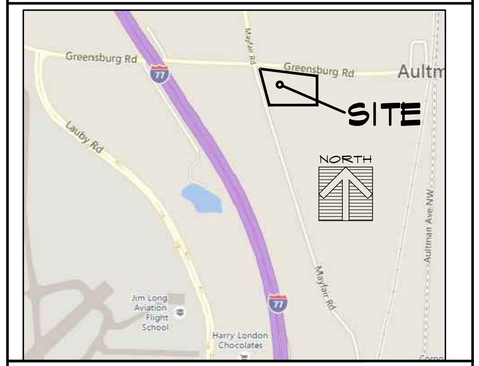
SITE LOCATION MAP



A DESIGN/BUILD PROJECT FOR:
SECO MACHINE, INC.
3310 GREENSBURG ROAD NORTH CANTON OHIO 44720

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NEW FACILITY FOR
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NORTH CANTON, OHIO 44720

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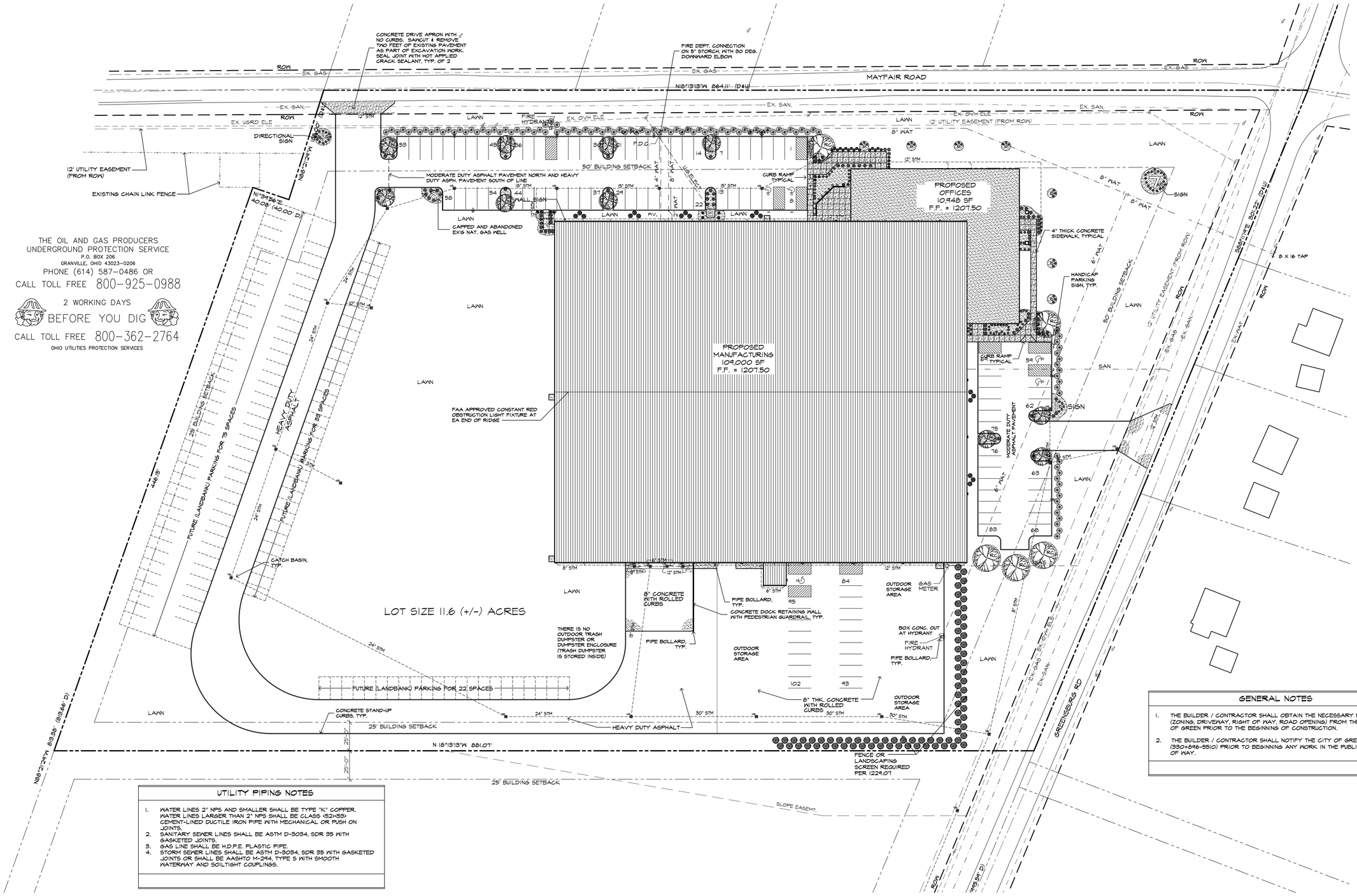

UTILITY PIPING NOTES

1. WATER LINES 2" NPS AND SMALLER SHALL BE TYPE "K" COPPER. WATER LINES LARGER THAN 2" NPS SHALL BE CLASS <52><53> CEMENT-LINED DUCTILE IRON PIPE WITH MECHANICAL OR PUSH ON JOINTS.
2. SANITARY SEWER LINES SHALL BE ASTM D-3034, SDR 35 WITH GASKETED JOINTS.
3. GAS LINE SHALL BE H.D.P.E. PLASTIC PIPE.
4. STORM SEWER LINES SHALL BE ASTM D-3034, SDR 35 WITH GASKETED JOINTS OR SHALL BE AASHTO M-294, TYPE S WITH SMOOTH WATERWAY AND SOILTIGHT COUPLINGS.

GENERAL NOTES

1. THE BUILDER / CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS (ZONING, DRIVEWAY, RIGHT OF WAY, ROAD OPENING) FROM THE CITY OF GREEN PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. THE BUILDER / CONTRACTOR SHALL NOTIFY THE CITY OF GREEN (330=896-5510) PRIOR TO BEGINNING ANY WORK IN THE PUBLIC RIGHT OF WAY.

ZONING INFORMATION

SUMMIT COUNTY, CITY OF GREEN
ZONING: I - GENERAL INDUSTRIAL
CORNER OF GREENSBURG & MAYFAIR ROADS (11.6 AC) 506,229 SF
BUILDINGS:
EXISTING = 0 SF
NEW = 119,948 SF
TOTAL = 119,948 SF

PAVED AREAS: 111,500 SF

BUILDING COVERAGE = 119,948 SF (23.69%)
TOTAL IMPERVIOUS AREA COVERAGE = 231,448 SF (45.72%)

	ALLOWED	ACTUAL
MINIMUM LOT SIZE:	1 AC	11.6 AC
MINIMUM LOT FRONTAGE:	150'	716 (+/-)
MAXIMUM BUILDING LOT COVERAGE:	33 %	23.69 %
MAXIMUM IMPERVIOUS AREA	70 %	45.72 %
LOT COVERAGE		
FRONT YARD SETBACK:	50'-0" (R/W)	VARIES SEE PLAN
SIDE YARD BUILDING SETBACKS:	25'-0" (OR EQUAL TO HEIGHT OF BUILDING)	VARIES SEE PLAN
REAR YARD BUILDING SETBACKS:	N/A (CORNER LOT)	VARIES SEE PLAN
PARKING SETBACKS:	0'-0" FRONT	NA
	0'-0" SIDE	NA
BUILDING HEIGHT:	60'-0"	31'-1 1/2"

USE: METAL FABRICATION

PARKING: 2 SPACES PER 1,000 SF OF MANUFACTURING SPACE
PLUS 1 SPACE PER 1,500 SF OF WAREHOUSE SPACE
PLUS 3 SPACES PER 1,000 SF OF OFFICE SPACE

MANUFACTURING: 42,200 SF/ 1,000 x 2 = 185
WAREHOUSE: 16,800 SF/ 1,500 x 1 = 12
OFFICE: 10,948 SF/ 1000 x 3 = 33
TOTAL SPACES REQUIRED = 230

CURRENT NO. OF SPACES PROVIDED = 102
FUTURE SPACES LANDBANKED = 130
TOTAL NUMBER OF SPACES= 232
* 94 TOTAL EMPLOYEES *
54 ON FIRST SHIFT, 20 ON SECOND SHIFT, 20 ON THIRD SHIFT
COMPANY OWNED VEHICLES:
ONE SEMI-TRUCK (PARKED INSIDE)
ONE STRAIGHT BED TRUCK (PARKED INSIDE)

0 20 40 80

NORTH

PROPOSED
SITE PLAN
SCALE 1" = 40'-0"

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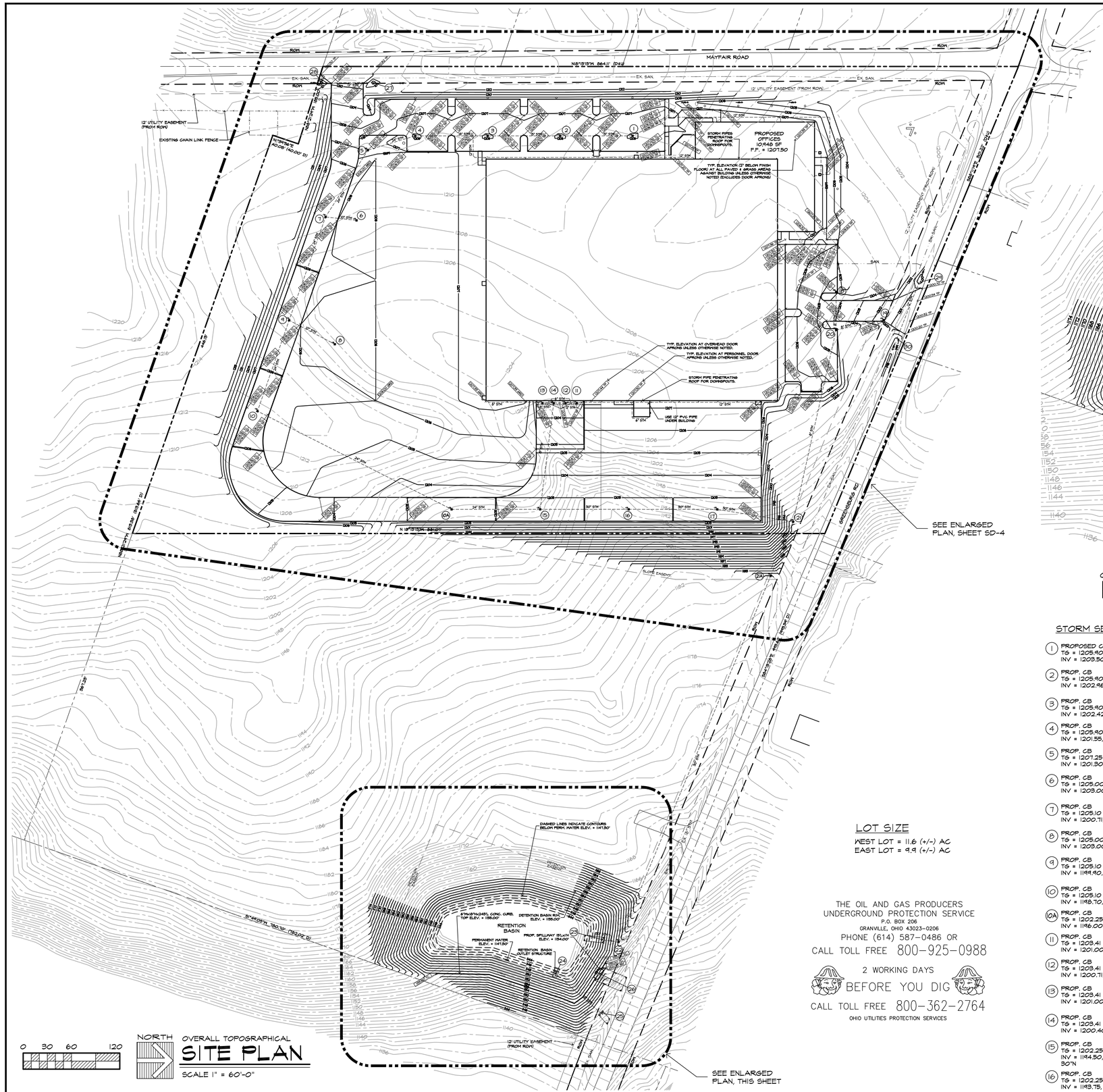

0 20 40 80

NORTH

ENLARGED TOPOGRAPHICAL
SITE PLAN
SCALE 1" = 40'-0"

0 30 60 120

NORTH

OVERALL TOPOGRAPHICAL
SITE PLAN
SCALE 1" = 60'-0"

TOPOGRAPHICAL LEGEND

TC = TOP OF CURB	EXISTING POINT ELEVATION — 1000.00 TC / 999.50 TP
TP = TOP OF PAVEMENT	NEW POINT ELEVATION — 1000.00 TC / 999.50 TP
GRD = GRADE	EXISTING CONTOUR LINE — 100
TG = TOP OF GRATE	NEW CONTOUR LINE — 100
INV = INVERT	

LOT SIZE

WEST LOT = 11.6 (+/-) AC
EAST LOT = 9.9 (+/-) AC

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STORM SEWER STRUCTURE SCHEDULE

1. PROPOSED CATCH BASIN (CB)
TG = 1205.90'
INV = 1203.50', 12"N, 15"S

2. PROP. CB
TG = 1205.90'
INV = 1202.96', 15" N&S

3. PROP. CB
TG = 1205.90
INV = 1202.42, 12"E, 15"N, 18"S

4. PROP. CB
TG = 1205.90
INV = 1201.55, 18"N, 24"SE

5. PROP. CB
TG = 1207.25
INV = 1201.30', 24" NW&SE

6. PROP. CB
TG = 1205.00
INV = 1203.00, 10"S

7. PROP. CB
TG = 1205.10
INV = 1200.71, 10"N, 24" NE&SW

8. PROP. CB
TG = 1205.00
INV = 1203.00, 10"SW

9. PROP. CB
TG = 1205.10
INV = 1199.90, 10"NE, 24"NW&SE

10. PROP. CB
TG = 1205.10
INV = 1198.70, 24" NE&NW

10A. PROP. CB
TG = 1202.25
INV = 1196.00, 24" SW&N

11. PROP. CB
TG = 1203.41
INV = 1201.00, 12" N&S

12. PROP. CB
TG = 1203.41
INV = 1200.71, 12" N&S

13. PROP. CB
TG = 1203.41
INV = 1201.00, 8" N&S

14. PROP. CB
TG = 1203.41
INV = 1200.40, 8"S, 12"N, 15"E

15. PROP. CB
TG = 1202.25
INV = 1194.30, 15"W, 24"SW, 30"N

16. PROP. CB
TG = 1202.25
INV = 1193.75, 30" N&S

17. PROP. CB
TG = 1202.25
INV = 1193.00, 30" NE&S

18. PROP. CB
TG = 1204.50
INV = 1202.50, 8"E

19. PROP. CB
TG = 1201.40
INV = 1199.40, 8"S

20. PROP. CB
TG = 1204.35
INV = 1198.20, 8"N,E,&W

21. PROP. CB
TG = 1180.50
INV = 1174.50, 8"W, 30" SW&E

22. PROP. CB
TG = 1157.85
INV = 1151.80, 30" W&S

23. PROP. PIPE OUTLET
INV = 1147.80, 30"N
CONST. HW-1 HEADWALL
CONST. 24"LxTWxTD, CLASS D,
STONE OUTLET PROTECTION

24. PROP. 3'x3' CB
TG = 1150.40
INV = 1144.50, 18"NE
CONST. 12'Lx6'Wx0.33'D, CONC.
SUPPORT PAD, T/CONC. = 1149.75'
CONST. 30"Lx6"H WINDOW OPNGS
ON CB NORTH & SOUTH FACES;
WINDOW INV = 1149.25'
CONST. 3"@12"L GALV.
DIAGONAL PGV PIPE ORIFICE.
HIGH INV = 1147.27'
LOW INV = 1146.77'

25. PROP. PIPE OUTLET
INV = 1149.50
CONST. HW-1 HEADWALL
CONST. 15'LxTWxTD, CLASS D,
STONE OUTLET PROTECTION.

26. PROP. SPILLWAY 15'Lx1'H
INV = 1154.00'
TOP OF CURB = 1155.00'
CONST. 34'Lx18'WxTD, CLASS D,
STONE OUTLET PROTECTION

27. PROP. DRIVE CULVERT INLET
INV = 1208.50, 12"S

28. PROP. DRIVE CULVERT OUTLET
INV = 1208.25, 12"N

29. PROP. DRIVE CULVERT INLET
INV = 1194.00, 12"SE

30. PROP. DRIVE CULVERT OUTLET
INV = 1198.50, 12"NW

STORM SEWER SCHEDULE

FROM	TO	LENGTH	SIZE	SLOPE
1	2	90.0'	15"	0.60%
2	3	90.0'	15"	0.60%
3	4	90.0'	18"	0.97%
4	5	44.0'	24"	0.57%
5	7	98.0'	24"	0.60%
6	7	34.0'	10"	5.87%
7	9	136.0'	24"	0.60%
8	9	64.0'	10"	4.84%
9	10	120.0'	24"	1.00%
10	10A	270.0'	24"	1.00%
10A	15	110.0'	24"	1.36%
11	12	14.0'	12"	2.14%
12	14	15.0'	12"	2.00%
13	14	14.0'	8"	4.29%
14	15	133.0'	15"	4.44%
15	16	110.0'	30"	0.68%
16	17	110.0'	30"	0.68%
17	21	108.0'	30"	17.13%
18	20	47.0'	8"	9.15%
19	20	60.0'	8"	2.00%
20	21	322.0'	8"	7.36%
21	22	486.0'	30"	4.67%
22	23	18.0'	30"	22.22%
24	25	75.0'	18"	1.33%
27	28	77.0'	12"	0.92%
29	30	68.0'	12"	0.74%

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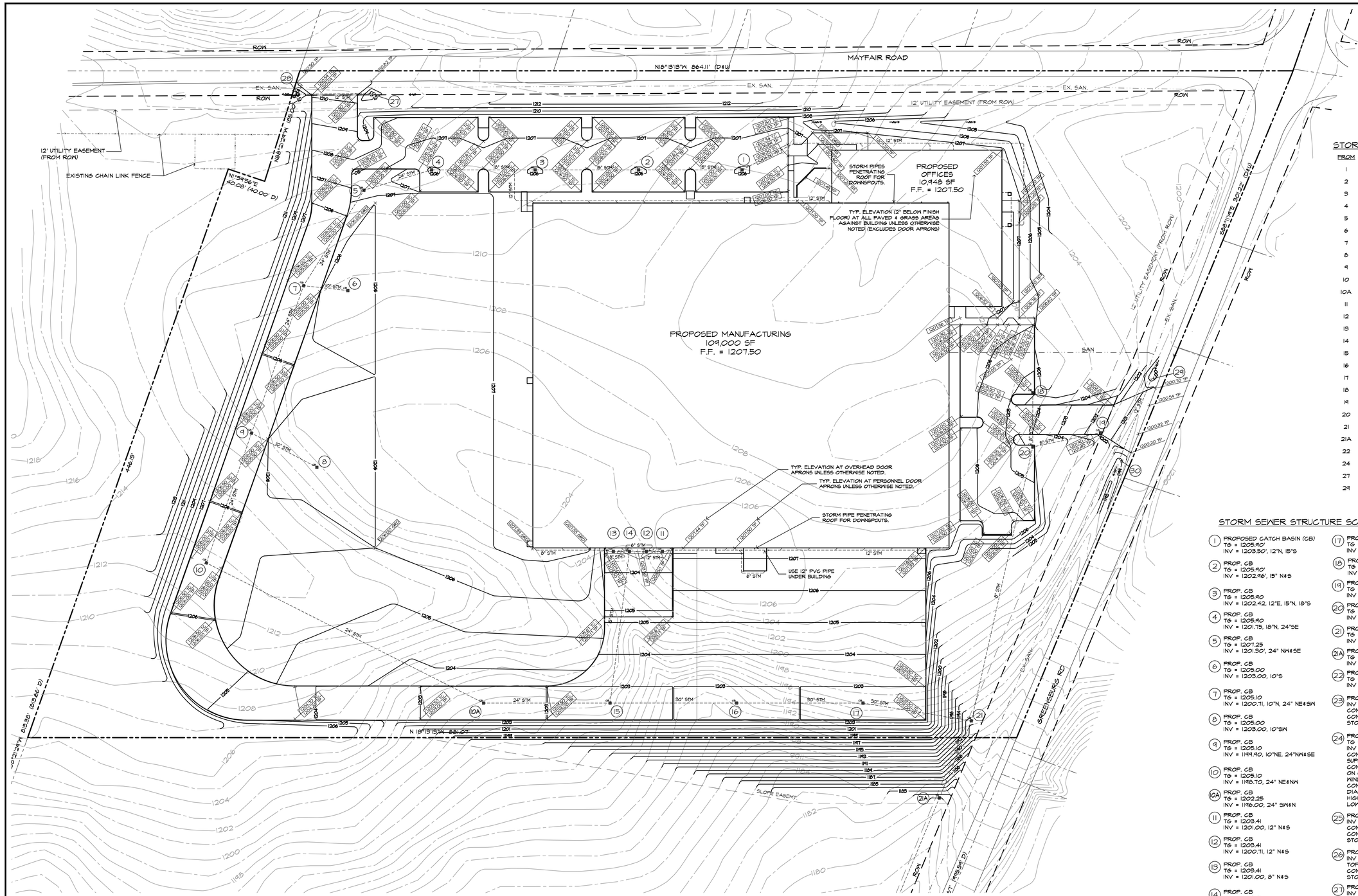

STORM SEWER SCHEDULE

FROM	TO	LENGTH	SIZE	SLOPE
1	2	90.0'	15"	0.60%
2	3	90.0'	15"	0.60%
3	4	90.0'	18"	0.97%
4	5	61.0'	24"	0.41%
5	7	98.0'	24"	0.60%
6	7	34.0'	10"	5.87%
7	9	136.0'	24"	0.60%
8	9	64.0'	10"	4.84%
9	10	120.0'	24"	1.00%
10	10A	270.0'	24"	1.00%
10A	15	110.0'	24"	1.36%
11	12	14.0'	12"	2.14%
12	14	15.0'	12"	2.00%
13	14	14.0'	8"	4.29%
14	15	133.0'	15"	4.44%
15	16	110.0'	30"	0.68%
16	17	110.0'	30"	0.68%
17	21	46.0'	30"	6.77%
18	20	47.0'	8"	9.15%
19	20	60.0'	8"	2.00%
20	21	244.0'	8"	4.80%
21	21A	73.0'	30"	14.33%
21A	22	442.0'	30"	4.92%
22	23	18.0'	30"	22.22%
24	25	75.0'	18"	1.33%
27	28	77.0'	12"	0.32%
29	30	68.0'	12"	0.74%

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   TG = 1205.10
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19. PROP. CB
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    INV = 1199.40, 8"S
20. PROP. CB
    TG = 1204.35
    INV = 1198.20, 8"NE,&W
21. PROP. CB
    TG = 1191.55
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21A. PROP. CB
    TG = 1181.00
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    INV = 1198.25, 12"NW

TOPOGRAPHICAL LEGEND

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NORTH

ENLARGED TOPOGRAPHICAL
SITE PLAN
SCALE 1" = 40'-0"

LOT SIZE

WEST LOT = 11.6 (+/-) AC
EAST LOT = 9.9 (+/-) AC

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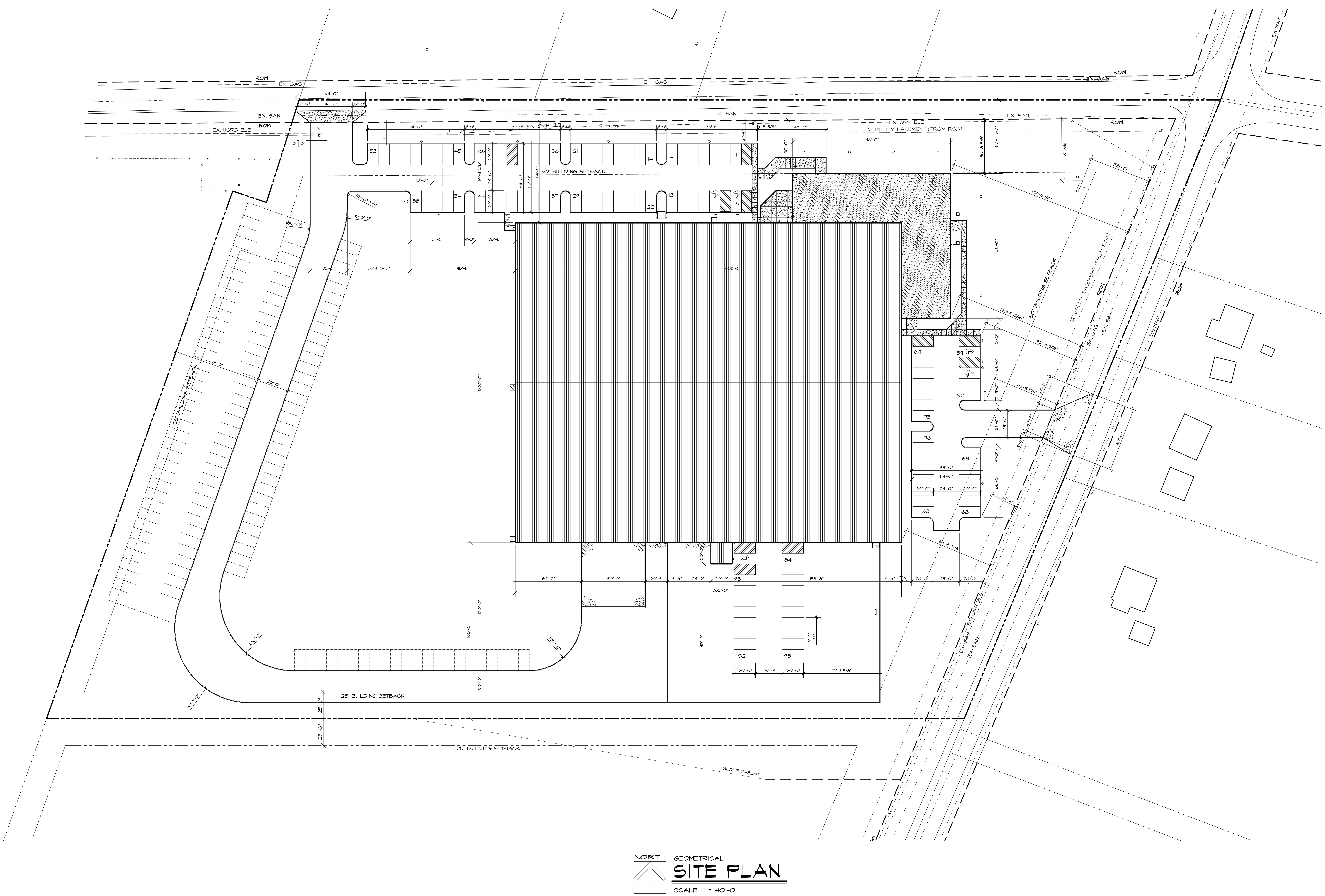

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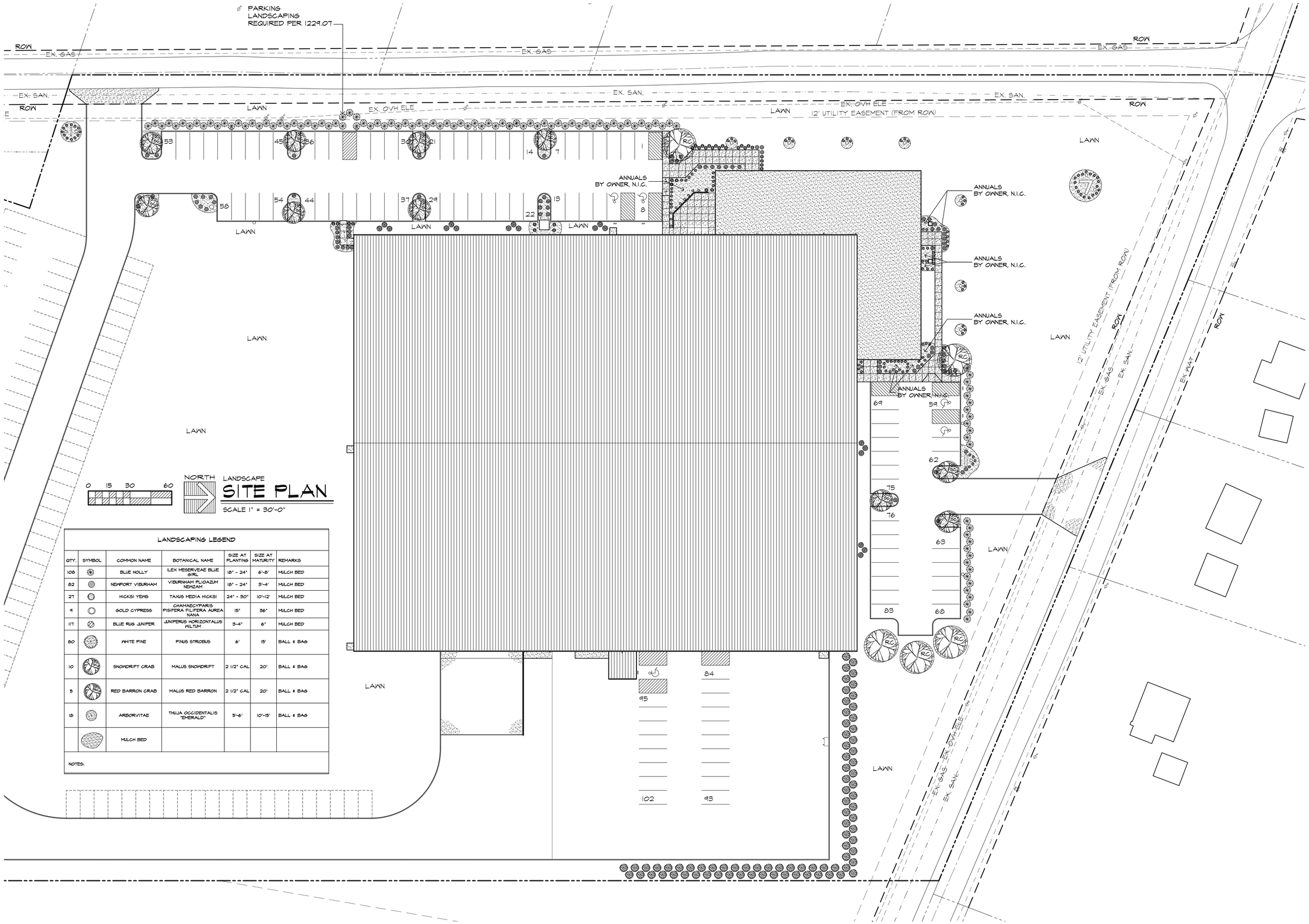

LANDSCAPING LEGEND

QTY.	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE AT PLANTING	SIZE AT MATURITY	REMARKS
108		BLUE HOLLY	ILEX MESERVEAE BLUE GIRL	18" - 24"	6'-8'	MULCH BED
82		NEWPORT VIBURNAM	VIBURNHAM PLICATUM NEWZAM	18" - 24"	3'-4'	MULCH BED
27		HICKSI YEWS	TAXUS MEDIA HICKSI	24" - 30"	10'-12'	MULCH BED
9		GOLD CYPRESS	CHAMAECYPARIS PISIFERA FILIFERA AUREA NANA	15"	36"	MULCH BED
117		BLUE RUG JUNIPER	JUNIPERUS HORIZONTALUS WILTUM	3-4"	6"	MULCH BED
80		WHITE PINE	PINUS STROBUS	6'	15'	BALL & BAG
10		SNOWDRIFT CRAB	MALUS SNOWDRIFT	2 1/2" CAL	20'	BALL & BAG
5		RED BARRON CRAB	MALUS RED BARRON	2 1/2" CAL	20'	BALL & BAG
18		ARBORVITAE	THUJA OCCIDENTALIS "EMERALD"	5'-6'	10'-15'	BALL & BAG
		MULCH BED				

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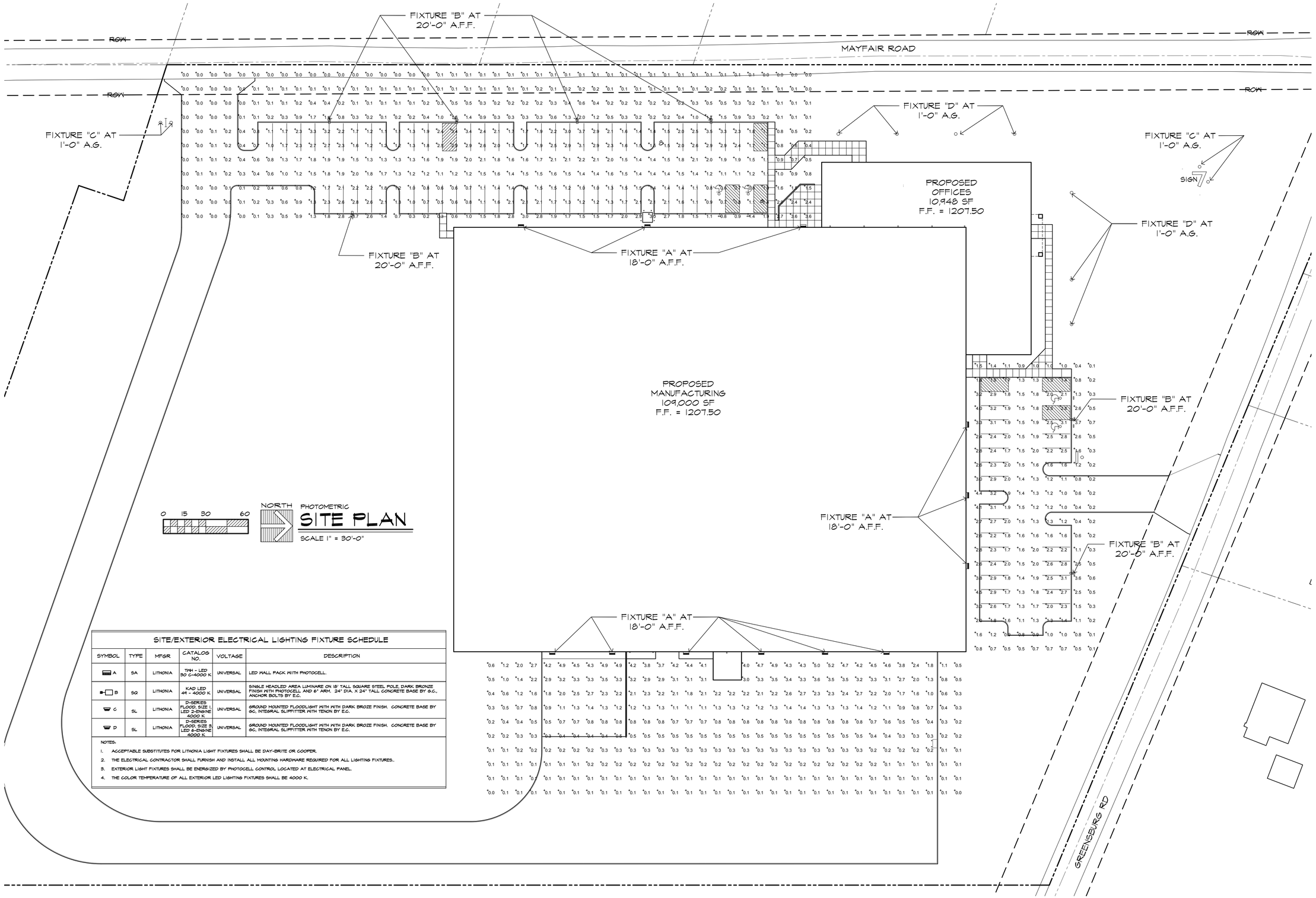

SITE/EXTERIOR ELECTRICAL LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	MFGR	CATALOG NO.	VOLTAGE	DESCRIPTION
A	SA	LITHONIA	TPM - LED 30 C-4000 K	UNIVERSAL	LED WALL PACK WITH PHOTOCELL.
B	SQ	LITHONIA	KAD LED 44 - 4000 K	UNIVERSAL	SINGLE HEADLED AREA LUMINARE ON 18' TALL SQUARE STEEL POLE, DARK BRONZE FINISH WITH PHOTOCELL AND 6" ARM. 24" DIA. X 24" TALL CONCRETE BASE BY G.C., ANCHOR BOLTS BY E.C.
C	SL	LITHONIA	D-SERIES FLOOD, SIZE 1, LED 2-ENGINE 4000 K	UNIVERSAL	GROUND MOUNTED FLOODLIGHT WITH WITH DARK BROZE FINISH. CONCRETE BASE BY GC, INTEGRAL SLIPFITTER WITH TENON BY E.C.
D	SL	LITHONIA	D-SERIES FLOOD, SIZE 3, LED 6-ENGINE 4000 K	UNIVERSAL	GROUND MOUNTED FLOODLIGHT WITH WITH DARK BROZE FINISH. CONCRETE BASE BY GC, INTEGRAL SLIPFITTER WITH TENON BY E.C.

NOTES:

1. ACCEPTABLE SUBSTITUTES FOR LITHONIA LIGHT FIXTURES SHALL BE DAY-BRITE OR COOPER.
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL MOUNTING HARDWARE REQUIRED FOR ALL LIGHTING FIXTURES..
3. EXTERIOR LIGHT FIXTURES SHALL BE ENERGIZED BY PHOTOCELL CONTROL LOCATED AT ELECTRICAL PANEL.
4. THE COLOR TEMPERATURE OF ALL EXTERIOR LED LIGHTING FIXTURES SHALL BE 4000 K.

PRELIMINARY - NOT FOR CONSTRUCTION - ESTIMATE ONLY

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DATE 02-12-2018

DRAWING NO. SD-7

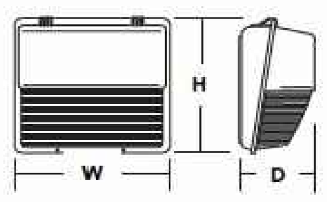
2/12/2018 3:06:27 PM

FIXTURE TYPE "A"

TWH LED
LED Wall Luminaire

Catalog Number	
Notes	
Type	

Specifications
- Width: 16-1/4" (41.3 cm)
- Height: 15-3/4" (40.0 cm)
- Depth: 8" (20.3 cm)
- Weight: 28 lbs (12.7 kg)



A+ 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 interoperability1
- This luminaire is part of an A+ Certified solution for ROAM® 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/aplus.
1. See ordering tree 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: TWH LED 30C 1000 50K T3M MVOLT DDBXD

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control Options	Other Options	Finish (required)
TWH LED	10C 10 LEDs (one engine); 20C 20 LEDs (two engines); 30C 30 LEDs (one engine)	1000 1000 mA (1 A)	40K 4000K; 50K 5000K	T3M Type III Medium	MVOLT [1]; 120 [2]; 208 [2]; 240 [2]; 277 [2]; 347 [2,3]; 480 [2,3,4]	Shipped installed: PER NEMA twist-lock receptacle only (no controls); PE Photoelectric cell, button type [5]	Shipped installed: SF Single fuse (120, 277, 347V) [2]; DF Double fuse (208, 240, 480V) [2]; TP Tamper proof screws; NOM NOM Certified; ELSW Emergency battery backup (standard 0°C), non CEC compliant [5,6]; ELCW Emergency battery backup (cold weather -20°C), non CEC compliant [5,6]; Shipped separately: VG Vandal guard [7]; WG Wire guard [7]	DDBXD Dark bronze; DBLXD Black; DNAXD Natural aluminum; DWHXD White; DDBTXD Textured dark bronze; DBLBXD Textured black; DNATXD Textured natural aluminum; DWHGXD Textured white

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number	CI Codes
TWH LED 10C 1000 40K T3M MVOLT DDBXD	TWH LED 10C 40K	*235G4C
TWH LED 20C 1000 40K T3M MVOLT DDBXD	TWH LED 20C 40K	*235G4M
TWH LED 30C 1000 40K T3M MVOLT DDBXD	TWH LED 30C 40K	*235G4T
TWH LED 10C 1000 50K T3M MVOLT DDBXD	TWH LED 10C 50K	*217PLV
TWH LED 20C 1000 50K T3M MVOLT DDBXD	TWH LED 20C 50K	*217PLW
TWH LED 30C 1000 50K T3M MVOLT DDBXD	TWH LED 30C 50K	*217PLX

Accessories
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [8]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [8]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [8]
DSHORT SBK U	Shorting cap [8]
TWHVG U	Vandal guard accessory [9]
TWHWG U	Wire guard accessory [9]

For more control options, visit DTL and ROAM online.

NOTES
1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
3. Not available with 10C option.
4. Not available with PE option.
5. Not available with 30C, 347, 480, PER, or SPD.
6. Cannot be used in California. Not qualified under CEC T20 requirements.
7. VG and WG options cannot be installed together. Also available as a separate accessory; see Accessories information at left.
8. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.
9. Included when ordering PER.
10. Requires field modification (only when ordered as a separate accessory).

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FIXTURE TYPE "A"

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	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K Lumens	B	U	G	LPW	50K Lumens	B	U	G	LPW
10C (10 LEDs)	1000	10C 1000 - 4	39W	T3M	3,377	0	3	3	87	3,398	0	3	3	87
20C (20 LEDs)	1000	20C 1000 - 4	72W	T3M	6,983	1	3	4	97	7,027	1	3	4	97
30C (30 LEDs)	1000	30C 1000 - 4	104W	T3M	8,375	1	3	5	81	8,427	1	3	5	81

Lumen Ambient Temperature (LAT) Multipliers
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the **TWH LED 30C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.97	0.93	0.87

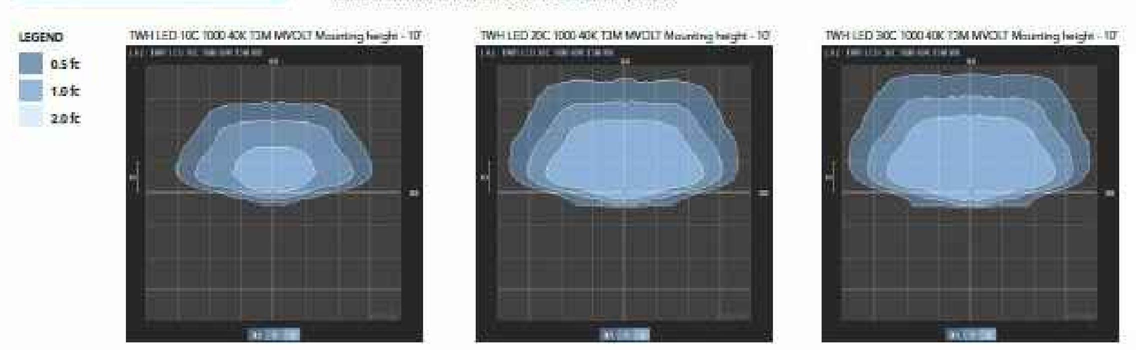
Electrical Load

LEDs	Drive Current (mA)	System Watts	120	208	240	277	347	480
10C	1000	39 W	0.36	0.21	0.18	0.16	-	-
20C	1000	72 W	0.67	0.38	0.33	0.29	0.23	0.17
30C	1000	104 W	0.96	0.56	0.48	0.42	0.33	0.24

Options and Accessories

VG - Vandal guard   WG - Wire guard

Photometric Diagrams
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's TWP LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards



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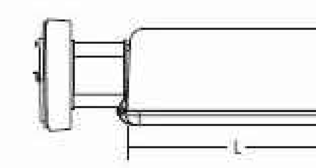
FIXTURE TYPE "B"

KAD LED
LED Area Luminaire

Catalog Number	
Notes	
Type	

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)



A+ 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 interoperability1
- 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 background1

To learn more about A+, visit www.acuitybrands.com/aplus.
1. See ordering tree 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 SPD04 DDBXD

Series	LEDs	Drive current	CCT	Distribution	Voltage	Mounting
KAD LED	20C [1] 20 LEDs; 30C [1] 30 LEDs; 40C 40 LEDs; 60C 60 LEDs	530 530 mA; 700 700 mA; 1000 1000 mA	30K 3000K; 40K 4000K; 50K 5000K	R2 Type II; R3 Type III; R4 Type IV; R5 Type V	MVOLT; 120; 208; 240; 277; 347; 480	Shipped included: SPUMBA__ Square pole universal mounting adaptor; RPUMBA__ Round pole universal mounting adaptor; SPD__ Square pole; RPD__ Round pole; WBD__ Wall bracket; WWD__ Wood pole or wall; 04 4" arm; 06 6" arm; 09 9" arm; 12 12" arm. Shipped separately: DAD12P Degree arm (pole); DAD12WB Degree arm (Wall); KMA Mast arm external fitter

Options	Finish (required)
Shipped installed: PER5 NEMA twist-lock five-wire receptacle only (no controls); PER7 Seven-wire receptacle only (no controls); SF Single fuse (120, 277, 347V); DF Double fuse (208, 240, 480V); PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc; PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc; PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc; PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc; BL30 Bi-level switched dimming, 30%; BL50 Bi-level switched dimming, 50%; PNMTDD3 Part night, dim till dawn; PNMT5D3 Part night, dim 5 hrs; PNMT6D3 Part night, dim 6 hrs; PNMT7D3 Part night, dim 7 hrs; HS Houseside shield. Shipped separately: WG Wire guard	DDBXD Dark bronze; DBLXD Black; DNAXD Natural aluminum; DWHXD White; DDBTXD Textured dark bronze; DBLBXD Textured black; DNATXD Textured natural aluminum; DWHGXD Textured white

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FIXTURE TYPE "B"

Performance Data

Lumen Ambient Temperature (LAT) Multipliers
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the **KAD LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
	KAD LED 60C 1000			
Lumen Maintenance Factor	1.0	0.91	0.86	0.78
	KAD LED 40C 1000			
	1.0	0.91	0.88	0.79
	KAD LED 60C 700			
	1.0	0.98	0.97	0.94

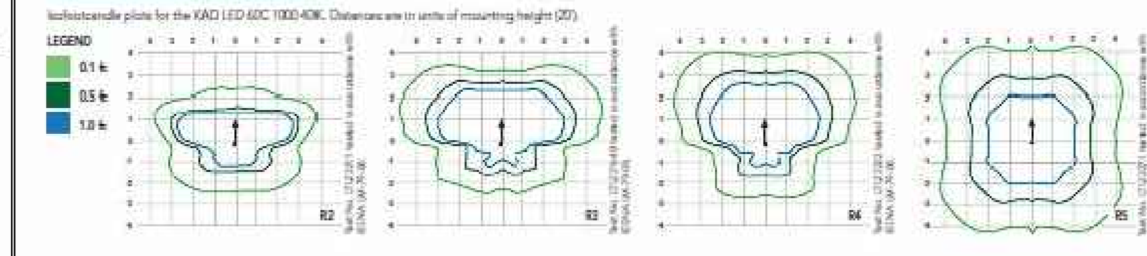
Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	120	208	240	277	347	480
20	530	35	0.30	0.18	0.16	0.15	-	-
	700	45	0.39	0.23	0.20	0.18	0.15	0.12
	1000	71	0.61	0.35	0.31	0.27	0.22	0.17
30	530	53	0.44	0.26	0.23	0.20	-	-
	700	68	0.58	0.34	0.29	0.26	0.21	0.16
	1000	108	0.90	0.52	0.46	0.40	0.32	0.24
40	530	71	0.60	0.35	0.32	0.29	0.21	0.16
	700	94	0.79	0.46	0.41	0.36	0.27	0.20
	1000	141	1.18	0.68	0.59	0.52	0.42	0.30
60	530	101	0.87	0.53	0.44	0.39	0.31	0.23
	700	137	1.15	0.66	0.58	0.57	0.40	0.29
	1000	216	1.81	1.08	0.92	0.81	0.63	0.47

NOTE: All ratings in this table are for a nominal system operated at 25°C ambient temperature. Current and power specifications in this table do not include branch circuit derating specified in the National Electrical Code. Please observe all applicable electrical codes and ratings.

Photometric Diagrams
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's KAD LED homepage.

Isofootcandle plots for the KAD LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE
The energy savings and long life of the KAD LED area luminaire make it a reliable choice for illuminating streets, walkways, parking lots, and surrounding areas.

CONSTRUCTION
Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one piece tubular silicone.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS
Precision-molded refractive acrylic lenses are available in four distributions. Light engines are available in standard 4000K, 3000K or 5000K (70 CRI) configurations.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION
Included universal mounting block and extruded aluminum arm facilitate quick and easy installation using nearly any existing drilling pattern. Stainless steel bolts fasten the luminaire to the mounting block securing it to poles or walls. The KAD LED can withstand up to a 1.5 G vibration load rating per ANSI C136.31. The KAD LED also utilizes the standard K-Series (Template #8) for pole drilling.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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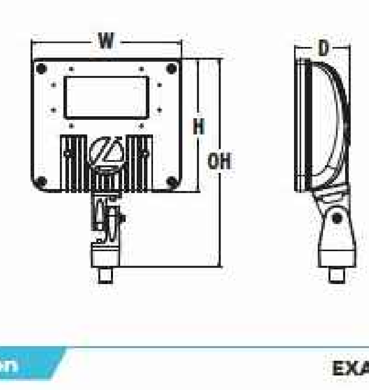
FIXTURE TYPE "C"

D-Series Size 1
LED Flood Luminaire

Catalog Number	
Notes	
Type	

Specifications
- EPA: 0.6 ft² (0.05 m²)
- Depth: 3-1/8" (8.0 cm)
- Width: 8-7/8" (22.4 cm)
- Height: 7-3/4" (19.8 cm)
- Overall Height: 12" (30.5 cm)
- Weight: 7.2 lbs (3.3 kg)



Introduction
The D-Series Size 1 Flood features precision optics to beautifully illuminate a variety of applications while its sleek, compact styling blends seamlessly with the environment.

The D-Series Flood reflector systems and cutting-edge chip-on-board LED technology produce excellent uniformity combined with precision beam patterns for minimal spill light and incredible photometric performance. It's the ideal long-life replacement for 70 - 150W metal halide floods, with typical energy savings of 72% and expected service life of over 100,000 hours.

Ordering Information
EXAMPLE: DSXF1 LED P1 40K MSP MVOLT THK DDBXD

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish (required)
DSXF1 LED	P1; P2	30K 3000K; 40K 4000K; 50K 5000K	NSP Narrow spot; MSP Medium spot; MFL Medium flood; FL Flood; WFL Wide flood; WFR Wide flood, rectangular; HMF Horizontal flood	MVOLT [1]; 120 [1]; 208 [1]; 240 [1]; 277 [1]; 347	Shipped included: THK Knuckle with 1/2" NPS threaded pipe; IS Integral slipfitter (fits 2-3/8" O.D. tenon); YKC62 Yoke with 16-3 SO cord. Shipped separately [2]: DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required); FTS G56 Tenon Slipfitter (fits 2-3/8" to 2-7/8" O.D. tenon, YKC62 required)	Shipped installed: PE Photocontrol, button style [3,4]; PEX Photocontrol external threaded adjustable [4]; SF Single fuse (120, 277, 347V) [4,5]; DF Double fuse (208, 240) [6]; DMG 0-10V dimming driver (no controls). Shipped separately [2]: UBV Upper/bottom visor (universal); FV Full visor; VG Vandal guard	DDBXD Dark bronze; DBLXD Black; DNAXD Natural aluminum; DWHXD White

Accessories
Ordered and shipped separately.

DSXF1/2TS DDBXD U	Slipfitter for 1-1/4" to 2-3/8" OD tenon, mates with 1/2" threaded knuckle (specify finish)
FWBD DDBXD U	Sturdy wall bracket, 2-1/8" OD tenon (specify finish)
FSPB DDBXD U	Small square pole bracket, 2-3/8" OD tenon (specify finish)
DSXF1UBV DDBXD U	Upper/bottom visor accessory (specify finish)
DSXF1FV DDBXD U	Full visor accessory (specify finish)
DSXF1VG U	Vandal guard accessory

For more mounting options, visit our Floodlighting Accessories pages.

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
DSXF1 LED P1 50K WFL MVOLT THK DDBXD	DSXF1 LED P1 50K
DSXF1 LED P1 40K WFL MVOLT THK DDBXD	DSXF1 LED P1 40K
DSXF1 LED P2 50K WFL MVOLT THK DDBXD	DSXF1 LED P2 50K
DSXF1 LED P2 40K WFL MVOLT THK DDBXD	DSXF1 LED P2 40K

NOTES
1. MVOLT driver operates on line voltage from 120-277V. Specify voltage when ordering with fusing (SF, DF) or photo control (PE, PEX).
2. Also available as accessories; see Accessories information at left.
3. Rated 25C maximum ambient for performance package P2. Specify PEX for higher ambient temperatures.
4. Photocontrol (PE, PEX) requires 120, 208, 240, 277 or 347 voltage option.
5. Must specify 120, 277 or 347 voltage option.
6. Must specify 208 or 240 voltage option.

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FIXTURE TYPE "C"

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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	Field Angle °H	Field Angle °V	Beam Angle °H	Beam Angle °V	30K Max Cd	30K Lumens	30K LPW	40K Max Cd	40K Lumens	40K LPW	50K Max Cd	50K Lumens	50K LPW
P1	21W	NSP	37	38	18	19	16,316	2,601	124	18,039	2,876	137	18,039	2,876	137
		MSP	51	51	27	28	9,908	2,578	123	10,954	2,850	136	10,954	2,850	136
		MFL	60	60	46	45	4,027	2,435	116	4,452	2,692	128	4,452	2,690	128
		FL	84	91	59	72	2,255	2,682	128	2,494	2,965	141	2,494	2,965	141
		WFL	109	101	86	85	1,494	2,766	132	1,652	3,058	146	1,652	3,058	146
		WFR	103	93	80	71	1,809	2,794	133	2,000	3,089	147	2,000	3,089	147
		HMF	124	63	100	48	2,001	2,339	111	2,212	2,575	123	2,212	2,575	123
P2	42W	NSP	37	38	18	19	29,740	4,741	113	32,881	5,242	125	32,881	5,242	125
		MSP	51	51	27	28	18,060	4,699	112	19,967	5,195	124	19,967	5,195	124
		MFL	60	59	46	45	7,340	4,439	106	8,115	4,908	117	8,115	4,908	117
		FL	84	91	59	72	4,111	4,889	116	4,545	5,406	129	4,545	5,406	129
		WFL	109	101	86	85	2,568	4,753	113	3,011	5,573	133	3,011	5,570	133
		WFR	103	92	80	71	3,297	5,094	121	3,645	5,631	134	3,645	5,632	134
		HMF	124	63	100	48	3,647	4,245	101	4,032	4,693	112	4,032	4,693	112

Lumen Ambient Temperature (LAT) Multipliers
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	[illegible]
10°C	50°F	[illegible]
20°C	68°F	[illegible]
25°C	77°F	[illegible]
30°C	86°F	[illegible]
40°C	104°F	[illegible]

Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the **DSXF1 LED P2** platform noted in a 25C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

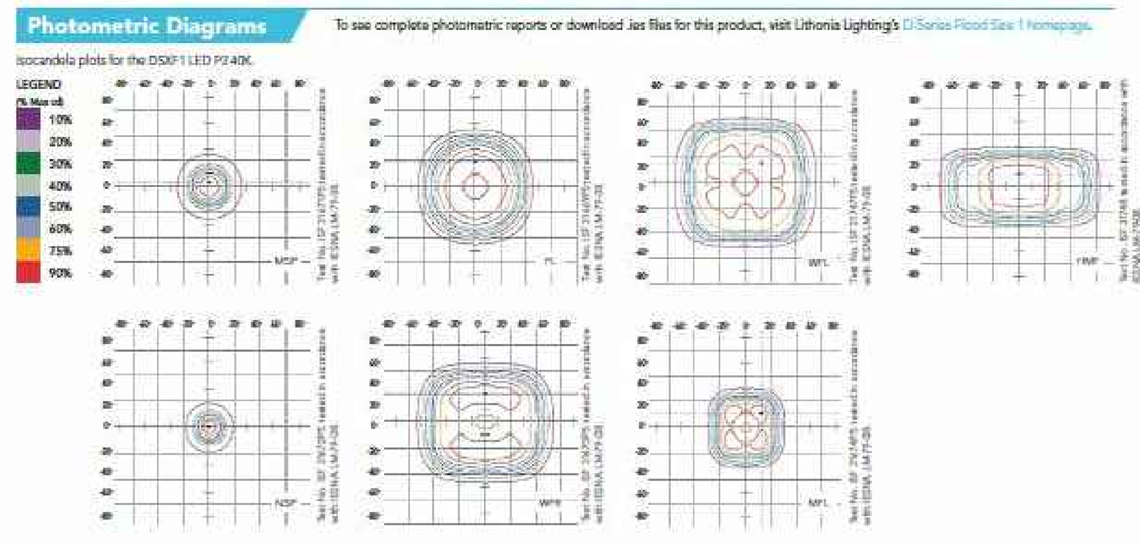
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.97	0.96	0.95

Electrical Load

Light Engines	System Watts	120	208	240	277	347	480
P1	21W	0.18	0.1	0.09	0.08	0.07	-
P2	42W	0.35	0.20	0.18	0.15	0.12	-

Photometric Diagrams
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Flood Size 1 homepage.

Isocandela plots for the DSXF1 LED P2 40K.



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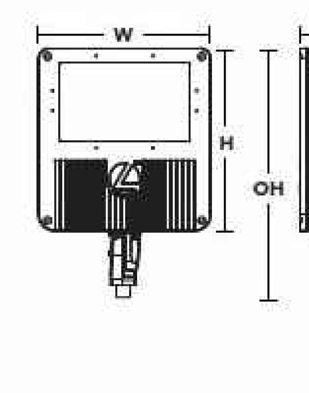
FIXTURE TYPE "D"

D-Series Size 3
LED Flood Luminaire

Catalog Number	
Notes	
Type	

Specifications
- EPA: 1.4 ft² (0.13 m²)
- Depth: 5" (12.7 cm)
- Width: 13" (33.0 cm)
- Height: 13-5/8" (34.6 cm)
- Overall Height: 17-1/2" (44.5 cm)
- Weight: 21 lbs (9.5 kg)



A+ 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 interoperability1
- 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 background1

To learn more about A+, visit www.acuitybrands.com/aplus.
1. See ordering tree 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: DSXF3 LED 6 P2 40K FL MVOLT THK DDBXD

Series	Light Engines	Performance Package	Color Temperature	Distribution	Voltage	Mounting
DSXF3 LED	6 Six COB engines	P1; P2	30K 3000K; 40K 4000K; 50K 5000K	NSP Narrow spot; MSP Medium spot; MFL Medium flood; FL Flood; WFL Wide flood; WFR Wide flood, rectangular; HMF Horizontal medium flood	MVOLT [1]; 120 [1]; 208 [1]; 240 [1]; 277 [1]; 347; 480	Shipped included: THK Knuckle with 3/4" NPT threaded pipe; YKC62 Yoke with 16-3 SO cord; IS Integral slipfitter (fits 2-3/8" O.D. tenon). Shipped separately: FTS G56 Tenon slipfitter (fits 2-3/8" to 2-7/8" O.D. tenon, YKC62 required)

Options	Finish (required)
Shipped installed: PER NEMA twist-lock receptacle only (no controls); PER5 Five-wire receptacle only (no controls); DMG 0-10V dimming driver (no controls); SF Single fuse (120, 277, 347V); DF Double fuse (208, 240, 480V); WTB Utility terminal block; PNMTDD3 Part night, dim till dawn; PNMT5D3 Part night, dim 5 hrs; PNMT6D3 Part night, dim 6 hrs; PNMT7D3 Part night, dim 7 hrs; BL30 Bi-level switched dimming, 30%; BL50 Bi-level switched dimming, 50%. Shipped separately: UBV Upper/bottom visor (universal); FV Full visor; VG Vandal guard; WG Wire guard	DDBXD Dark bronze; DBLXD Black; DNAXD Natural aluminum; DWHXD White

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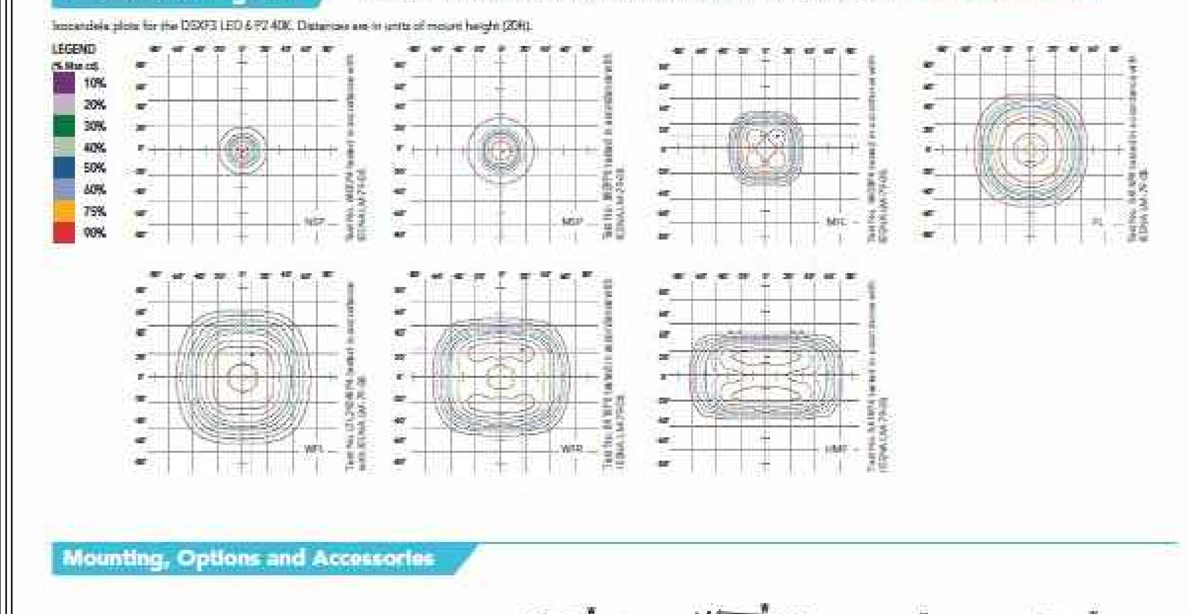
FIXTURE TYPE "D"

Photometric Diagrams
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Flood Size 3 homepage.

Isocandela plots for the DSXF3 LED 6 P2 40K. Distances are in units of mount height (20ft).



Mounting, Options and Accessories

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 3 Flood reflects the embedded high performance LED technology. It is ideal for wallwash, security and general area lighting in many commercial and institutional applications.

CONSTRUCTION
Die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP66). Low EPA (1.4 ft²) for optimized wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS
A variety of precision-molded vacuum-metallized specular reflectors are engineered for superior field-to-beam ratios, uniformity and spacing. Light engines are available in 3000 K (70 CRI min.), 4000 K (70 CRI min.) or 5000 K (70 CRI min.) configurations. Optional visors offer additional versatility.

ELECTRICAL
Light engines consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs, L80). Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Integral adjustable knuckle with 3/4-14 NPT threaded pipe, or yoke mounting, facilitates quick and easy installation to a variety of mounting accessories. The secure connection enables the D-Series Size 3 to withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. Rated for -40°C minimum ambient.
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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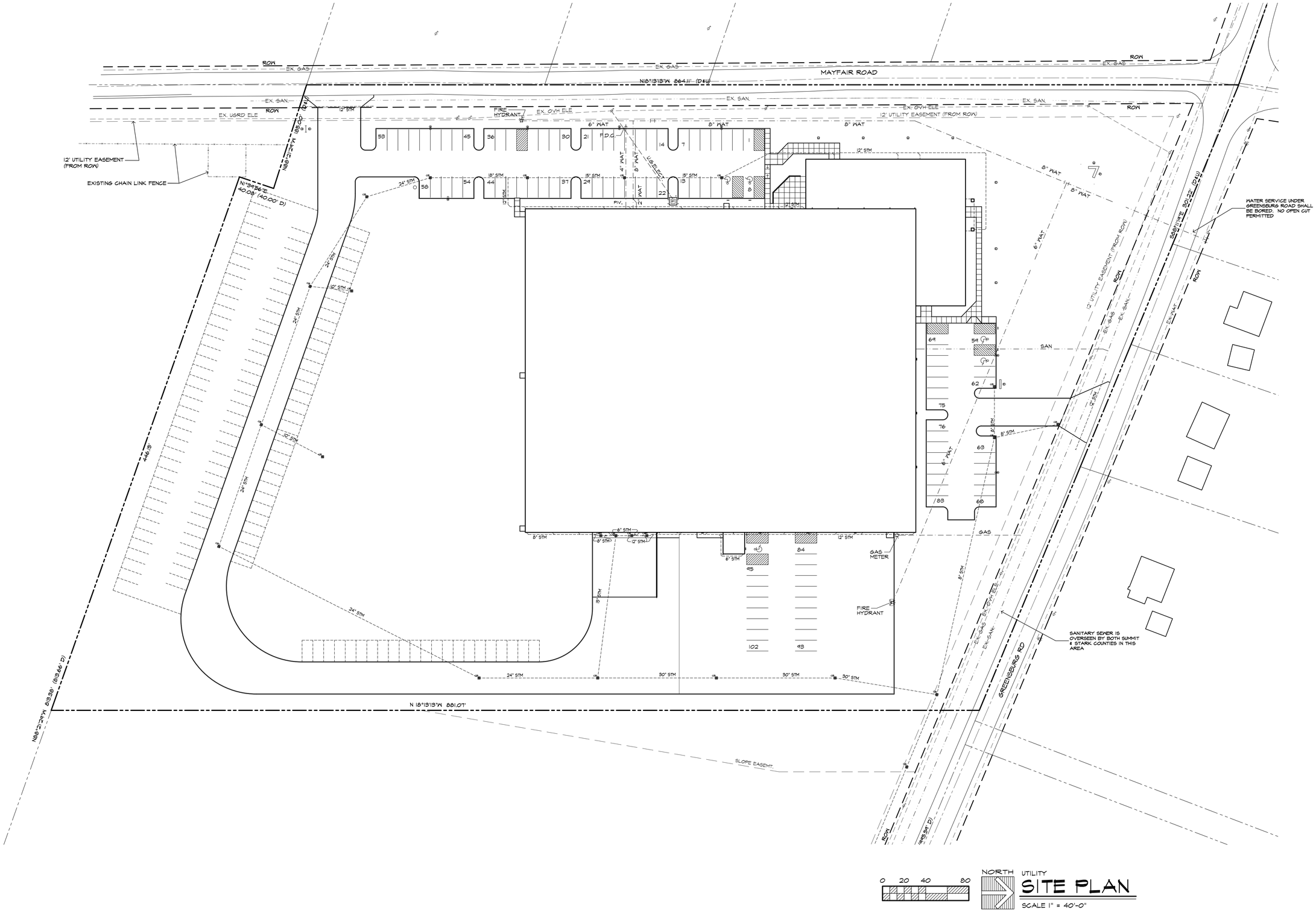

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NORTH

UTILITY

SITE PLAN

SCALE 1" = 40'-0"

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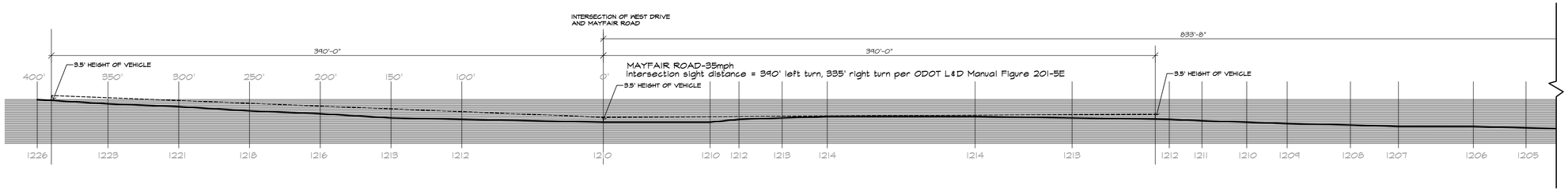

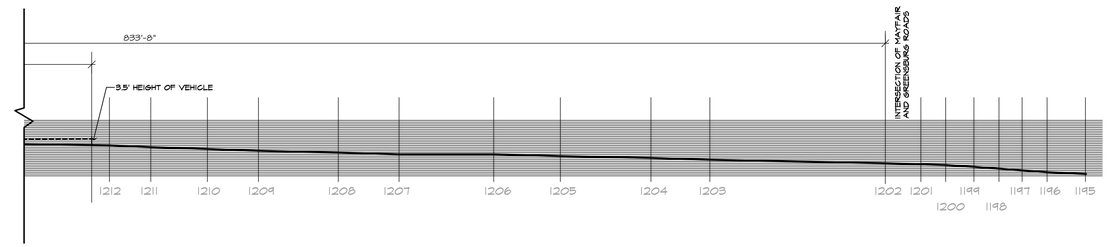

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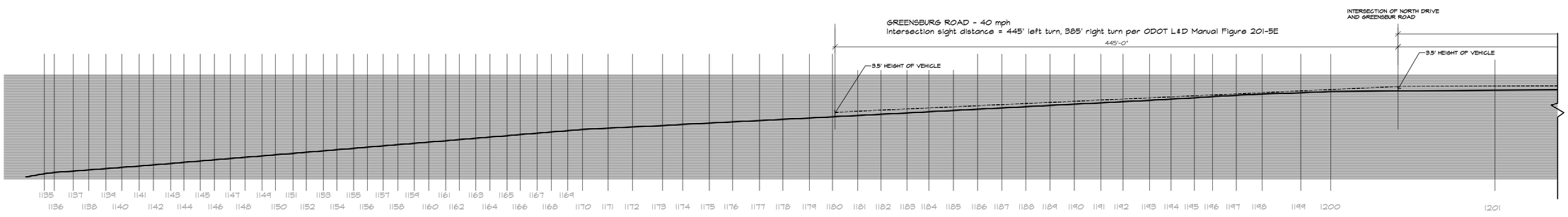
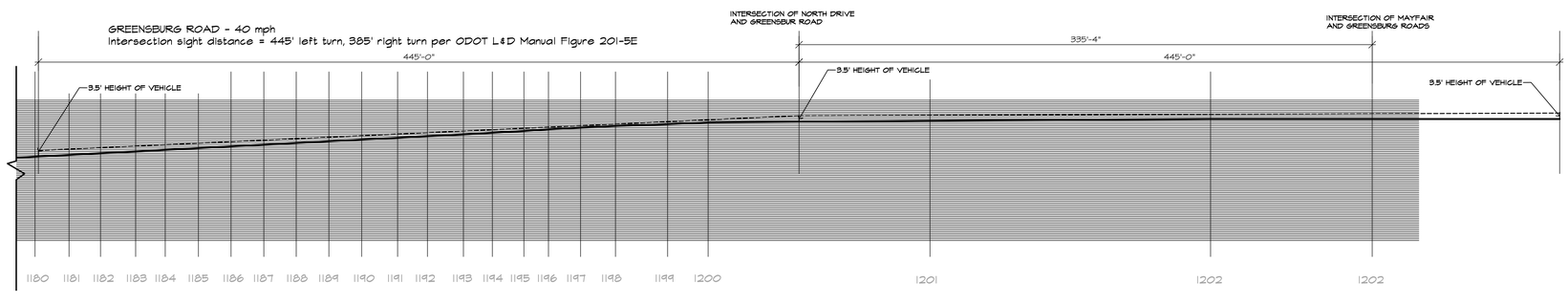
MAYFAIR ROAD SIGHT-DISTANCE STUDY

DIAGRAM

SCALE 1" = 40'-0"





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GREENSBURG ROAD SIGHT-DISTANCE STUDY

DIAGRAM

SCALE 1" = 40'-0"

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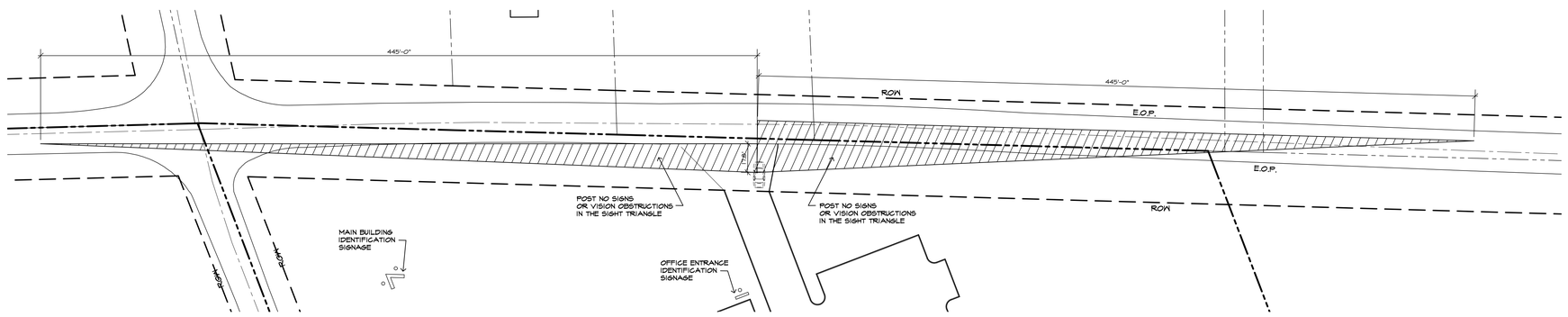

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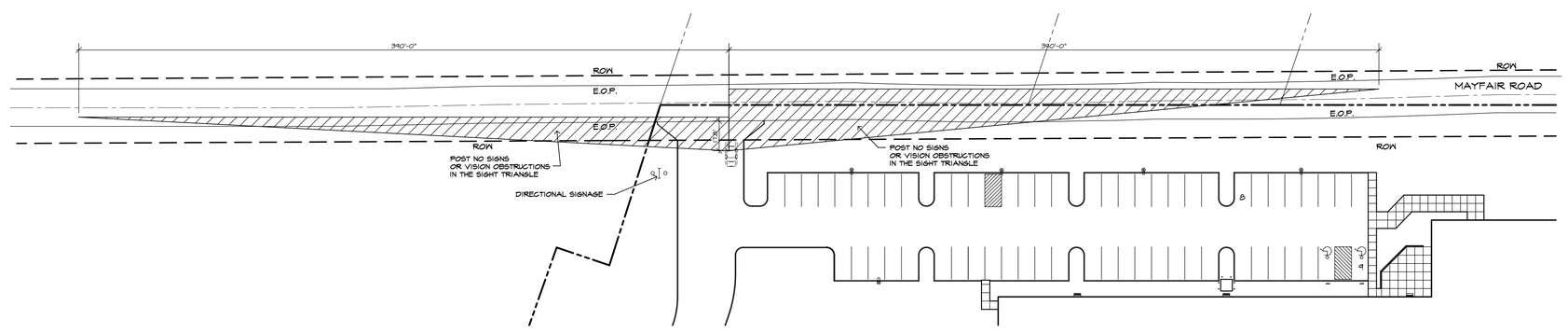
GREENSBURG ROAD INTERSECTION SIGHT TRIANGLE

DIAGRAM

SCALE 1" = 40'-0"



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MAYFAIR ROAD INTERSECTION SIGHT TRIANGLE

DIAGRAM

SCALE 1" = 40'-0"

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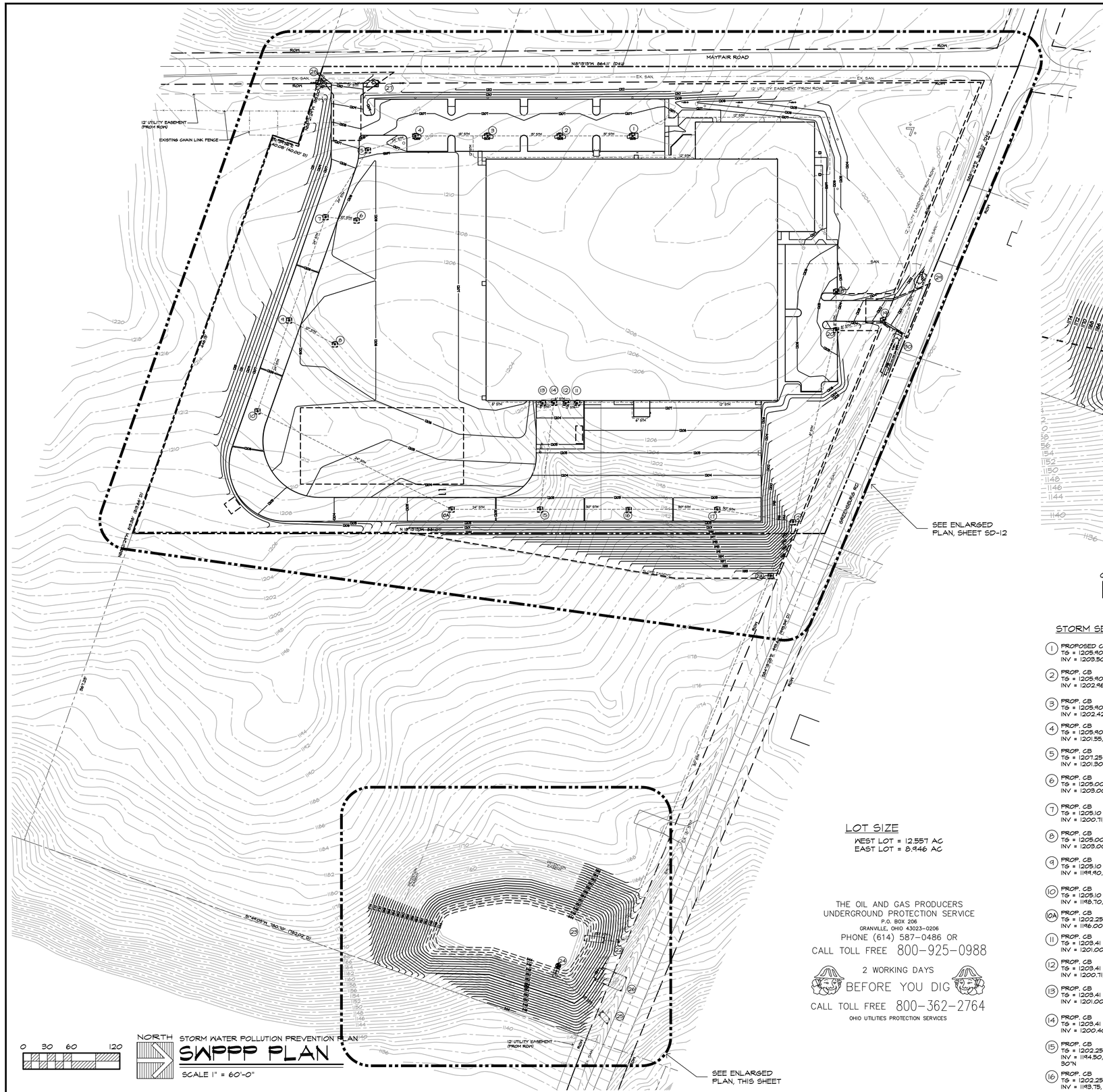
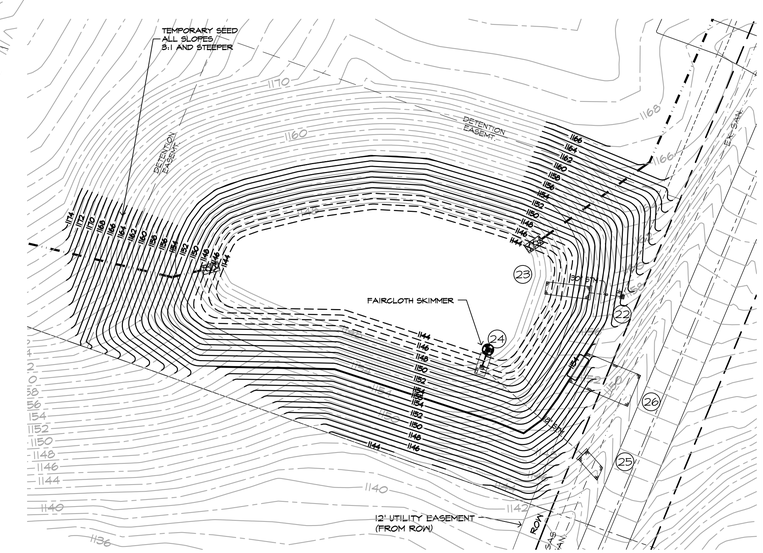


TOPOGRAPHICAL LEGEND

TC = TOP OF CURB	EXISTING POINT ELEVATION — 1000.00 TC / 999.50 TP
TP = TOP OF PAVEMENT	NEW POINT ELEVATION — 1000.00 TC / 999.50 TP
GRD = GRADE	EXISTING CONTOUR LINE — 100
TG = TOP OF GRATE	NEW CONTOUR LINE — 100
INV = INVERT	



LOT SIZE

WEST LOT = 12.557 AC
EAST LOT = 8.946 AC

THE OIL AND GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
P.O. BOX 206
GRANVILLE, OHIO 43023-0206
PHONE (614) 587-0486 OR
CALL TOLL FREE 800-925-0988

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICES

STORM SEWER STRUCTURE SCHEDULE

1. PROPOSED CATCH BASIN (CB)
TG = 1205.90'
INV = 1203.50', 12"N, 15"S

2. PROP. CB
TG = 1205.90'
INV = 1202.96', 15" N&S

3. PROP. CB
TG = 1205.90
INV = 1202.42, 12"E, 15"N, 18"S

4. PROP. CB
TG = 1205.90
INV = 1201.55, 18"N, 24"SE

5. PROP. CB
TG = 1207.25
INV = 1201.30', 24" NW&SE

6. PROP. CB
TG = 1205.00
INV = 1203.00, 10"S

7. PROP. CB
TG = 1205.10
INV = 1200.71, 10"N, 24" NE&SW

8. PROP. CB
TG = 1205.00
INV = 1203.00, 10"SW

9. PROP. CB
TG = 1205.10
INV = 1199.90, 10"NE, 24"NW&SE

10. PROP. CB
TG = 1205.10
INV = 1198.70, 24" NE&NW

10A. PROP. CB
TG = 1202.25
INV = 1196.00, 24" SW&N

11. PROP. CB
TG = 1203.41
INV = 1201.00, 12" N&S

12. PROP. CB
TG = 1203.41
INV = 1200.71, 12" N&S

13. PROP. CB
TG = 1203.41
INV = 1201.00, 8" N&S

14. PROP. CB
TG = 1203.41
INV = 1200.40, 8"S, 12"N, 15"E

15. PROP. CB
TG = 1202.25
INV = 1194.30, 15"W, 24"SW, 30"N

16. PROP. CB
TG = 1202.25
INV = 1193.75, 30" N&S

17. PROP. CB
TG = 1202.25
INV = 1193.00, 30" NE&S

18. PROP. CB
TG = 1204.50
INV = 1202.50, 8"E

19. PROP. CB
TG = 1201.40
INV = 1199.40, 8"S

20. PROP. CB
TG = 1204.35
INV = 1198.20, 8"N,E,&W

21. PROP. CB
TG = 1180.50
INV = 1174.50, 8"W, 30" SW&E

22. PROP. CB
TG = 1157.85
INV = 1151.80, 30" W&S

23. PROP. PIPE OUTLET
INV = 1147.80, 30"N
CONST. HW-1 HEADWALL
CONST. 24"LX17'WX17'D, CLASS D,
STONE OUTLET PROTECTION

24. PROP. 3'X3' CB
TG = 1150.40
INV = 1144.50, 18"NE
CONST. 12'LX6'WX0.33'D, CONC.
SUPPORT PAD, T/CONC. = 1149.75'
CONST. 30"LX6'H WINDOW OPNGS
ON CB NORTH & SOUTH FACES;
WINDOW INV = 1149.25'
CONST. 3'X12'L GALV.
DIAGONAL PGV PIPE ORIFICE.
HIGH INV = 1147.27'
LOW INV = 1146.77'

25. PROP. PIPE OUTLET
INV = 1149.50
CONST. HW-1 HEADWALL
CONST. 15'LX7'WX1'D, CLASS D,
STONE OUTLET PROTECTION.

26. PROP. SPILLWAY 15'LX1'H
INV = 1154.00'
TOP OF CURB = 1155.00'
CONST. 34'LX19'WX1'D, CLASS D,
STONE OUTLET PROTECTION

27. PROP. DRIVE CULVERT INLET
INV = 1208.50, 12"S

28. PROP. DRIVE CULVERT OUTLET
INV = 1208.25, 12"N

29. PROP. DRIVE CULVERT INLET
INV = 1199.00, 12"SE

30. PROP. DRIVE CULVERT OUTLET
INV = 1198.50, 12"NW

STORM SEWER SCHEDULE

FROM	TO	LENGTH	SIZE	SLOPE
1	2	90.0'	15"	0.60%
2	3	90.0'	15"	0.60%
3	4	90.0'	18"	0.97%
4	5	44.0'	24"	0.57%
5	7	98.0'	24"	0.60%
6	7	39.0'	10"	5.87%
7	9	136.0'	24"	0.60%
8	9	64.0'	10"	4.84%
9	10	120.0'	24"	1.00%
10	10A	270.0'	24"	1.00%
10A	15	110.0'	24"	1.36%
11	12	14.0'	12"	2.14%
12	14	15.0'	12"	2.00%
13	14	14.0'	8"	4.29%
14	15	133.0'	15"	4.44%
15	16	110.0'	30"	0.68%
16	17	110.0'	30"	0.68%
17	21	108.0'	30"	17.13%
18	20	47.0'	8"	9.15%
19	20	60.0'	8"	2.00%
20	21	322.0'	8"	7.36%
21	22	486.0'	30"	4.67%
22	23	18.0'	30"	22.22%
24	25	75.0'	18"	1.33%
27	28	77.0'	12"	0.92%
29	30	68.0'	12"	0.74%

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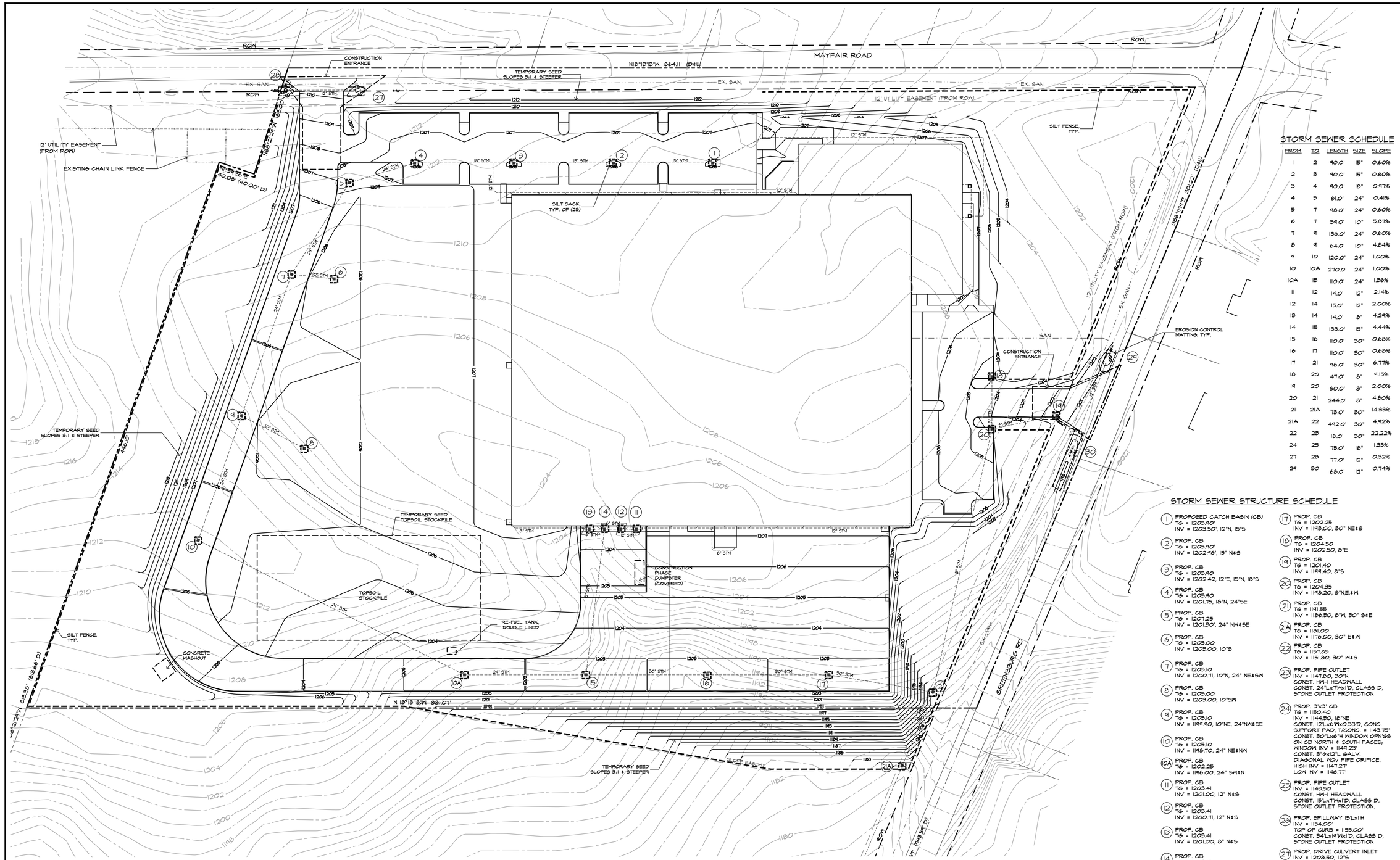

STORM SEWER SCHEDULE

FROM	TO	LENGTH	SIZE	SLOPE
1	2	90.0'	15"	0.60%
2	3	90.0'	15"	0.60%
3	4	90.0'	18"	0.97%
4	5	61.0'	24"	0.41%
5	7	98.0'	24"	0.60%
6	7	94.0'	10"	5.87%
7	9	136.0'	24"	0.60%
8	9	64.0'	10"	4.84%
9	10	120.0'	24"	1.00%
10	10A	270.0'	24"	1.00%
10A	15	110.0'	24"	1.36%
11	12	14.0'	12"	2.14%
12	14	15.0'	12"	2.00%
13	14	14.0'	8"	4.29%
14	15	193.0'	15"	4.44%
15	16	110.0'	30"	0.68%
16	17	110.0'	30"	0.68%
17	21	96.0'	30"	6.77%
18	20	47.0'	8"	9.15%
19	20	60.0'	8"	2.00%
20	21	244.0'	8"	4.80%
21	21A	73.0'	30"	14.93%
21A	22	442.0'	30"	4.92%
22	23	18.0'	30"	22.22%
24	25	75.0'	18"	1.33%
27	28	77.0'	12"	0.32%
29	30	68.0'	12"	0.74%

STORM SEWER STRUCTURE SCHEDULE

1. PROPOSED CATCH BASIN (CB)
   TG = 1205.90'
   INV = 1203.50', 12"N, 15"S
2. PROP. CB
   TG = 1205.40'
   INV = 1202.96', 15" N&S
3. PROP. CB
   TG = 1205.40
   INV = 1202.42, 12"E, 15"N, 18"S
4. PROP. CB
   TG = 1205.40
   INV = 1201.75, 18"N, 24"SE
5. PROP. CB
   TG = 1201.25
   INV = 1201.30', 24" NW&SE
6. PROP. CB
   TG = 1205.00
   INV = 1203.00, 10"S
7. PROP. CB
   TG = 1205.10
   INV = 1200.71, 10"N, 24" NE&SW
8. PROP. CB
   TG = 1205.00
   INV = 1203.00, 10"SW
9. PROP. CB
   TG = 1205.10
   INV = 1199.90, 10"NE, 24"NW&SE
10. PROP. CB
    TG = 1205.10
    INV = 1198.70, 24" NE&NW
10A. PROP. CB
    TG = 1202.25
    INV = 1196.00, 24" SW&N
11. PROP. CB
    TG = 1203.41
    INV = 1201.00, 12" N&S
12. PROP. CB
    TG = 1203.41
    INV = 1200.71, 12" N&S
13. PROP. CB
    TG = 1203.41
    INV = 1201.00, 8" N&S
14. PROP. CB
    TG = 1203.41
    INV = 1200.40, 8"S, 12"N, 15"E
15. PROP. CB
    TG = 1202.25
    INV = 1194.50, 15"W, 24"SW, 30"N
16. PROP. CB
    TG = 1202.25
    INV = 1193.75, 30" N&S
17. PROP. CB
    TG = 1202.25
    INV = 1193.00, 30" NE&S
18. PROP. CB
    TG = 1204.50
    INV = 1202.50, 8"E
19. PROP. CB
    TG = 1201.40
    INV = 1199.40, 8"S
20. PROP. CB
    TG = 1204.35
    INV = 1198.20, 8"NE,&W
21. PROP. CB
    TG = 1191.55
    INV = 1186.50, 8"W, 30" S&E
21A. PROP. CB
    TG = 1181.00
    INV = 1176.00, 30" E&W
22. PROP. CB
    TG = 1157.85
    INV = 1151.80, 30" W&S
23. PROP. PIPE OUTLET
    INV = 1147.80, 30"N
    CONST. HW-1 HEADWALL
    CONST. 24"LX17'WX1'D, CLASS D, STONE OUTLET PROTECTION
24. PROP. 3'x3' CB
    TG = 1150.40
    INV = 1144.50, 18"NE
    CONST. 12'Lx6'Wx0.33'D, CONC. SUPPORT PAD, T/CONC. = 1143.75'
    CONST. 30"Lx6'H WINDOW OPN'GS ON CB NORTH & SOUTH FACES; WINDOW INV = 1148.25'
    CONST. 3"ØX12'L GALV. DIAGONAL WQV PIPE ORIFICE. HIGH INV = 1147.27'
    LOW INV = 1146.77'
25. PROP. PIPE OUTLET
    INV = 1143.50
    CONST. HW-1 HEADWALL
    CONST. 15'LX17'WX1'D, CLASS D, STONE OUTLET PROTECTION.
26. PROP. SPILLWAY 15'LX1'H
    INV = 1154.00'
    TOP OF CURB = 1155.00'
    CONST. 34'LX19'WX1'D, CLASS D, STONE OUTLET PROTECTION
27. PROP. DRIVE CULVERT INLET
    INV = 1208.50, 12"S
28. PROP. DRIVE CULVERT OUTLET
    INV = 1208.25, 12"N
29. PROP. DRIVE CULVERT INLET
    INV = 1199.00, 12"SE
30. PROP. DRIVE CULVERT OUTLET
    INV = 1198.50, 12"NW

TOPOGRAPHICAL LEGEND

TC = TOP OF CURB	EXISTING POINT ELEVATION	1000.00 TC / 999.50 TP
TP = TOP OF PAVEMENT	NEW POINT ELEVATION	1000.00 TC / 999.50 TP
GRD = GRADE	EXISTING CONTOUR LINE	100
TG = TOP OF GRATE	NEW CONTOUR LINE	100
INV = INVERT		

THE OIL AND GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
P.O. BOX 206
GRANVILLE, OHIO 43023-0206
PHONE (614) 587-0486 OR
CALL TOLL FREE 800-925-0988

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICES

0 20 40 80

NORTH

STORM WATER POLLUTION PREVENTION PLAN

SWPPP PLAN

SCALE 1" = 40'-0"

LOT SIZE
WEST LOT = 12.557 AC
EAST LOT = 8.946 AC

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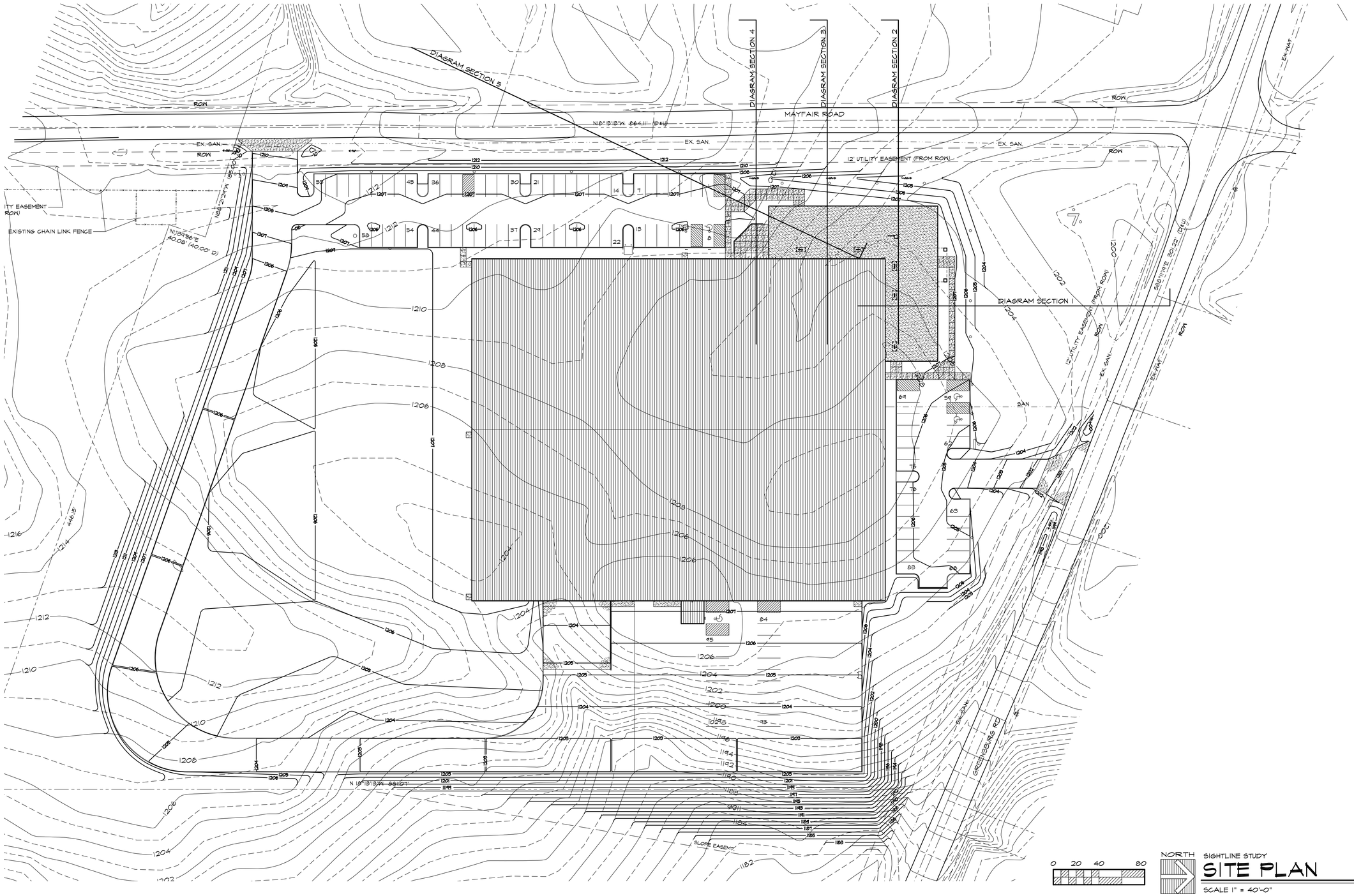

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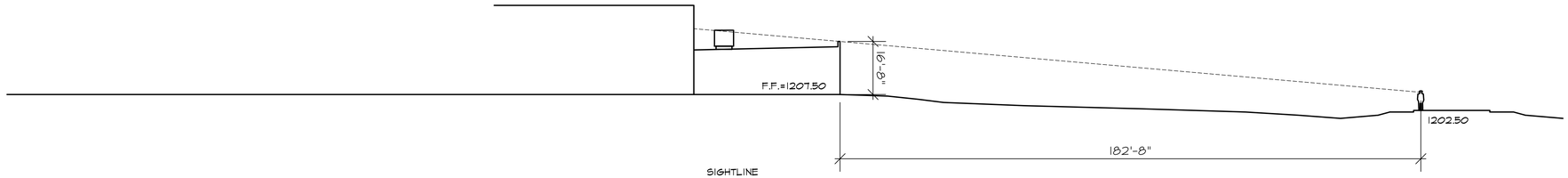
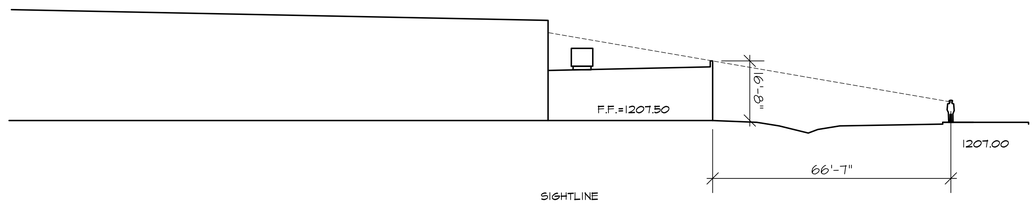
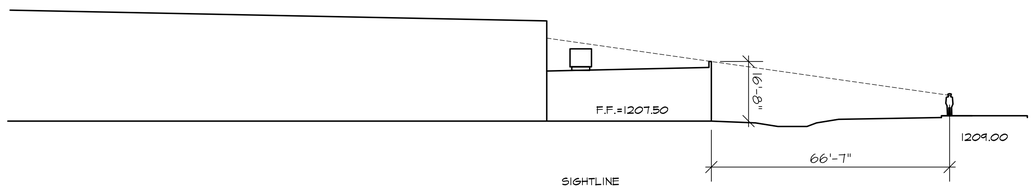


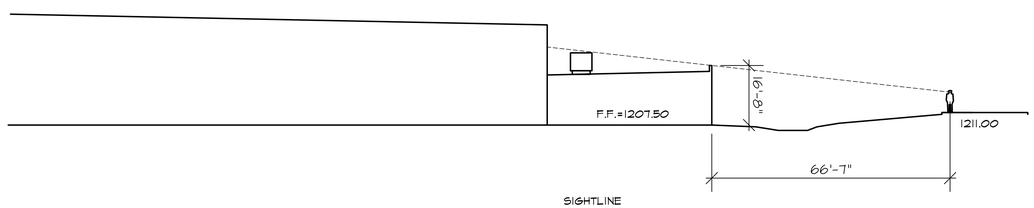
SIGHTLINE
DIAGRAM 1
SCALE 1" = 20'-0"



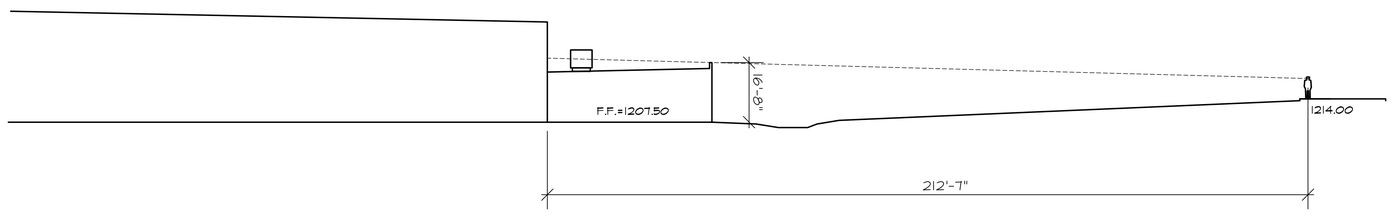
SIGHTLINE
DIAGRAM 2
SCALE 1" = 20'-0"



SIGHTLINE
DIAGRAM 3
SCALE 1" = 20'-0"



SIGHTLINE
DIAGRAM 4
SCALE 1" = 20'-0"



SIGHTLINE
DIAGRAM 5
SCALE 1" = 20'-0"

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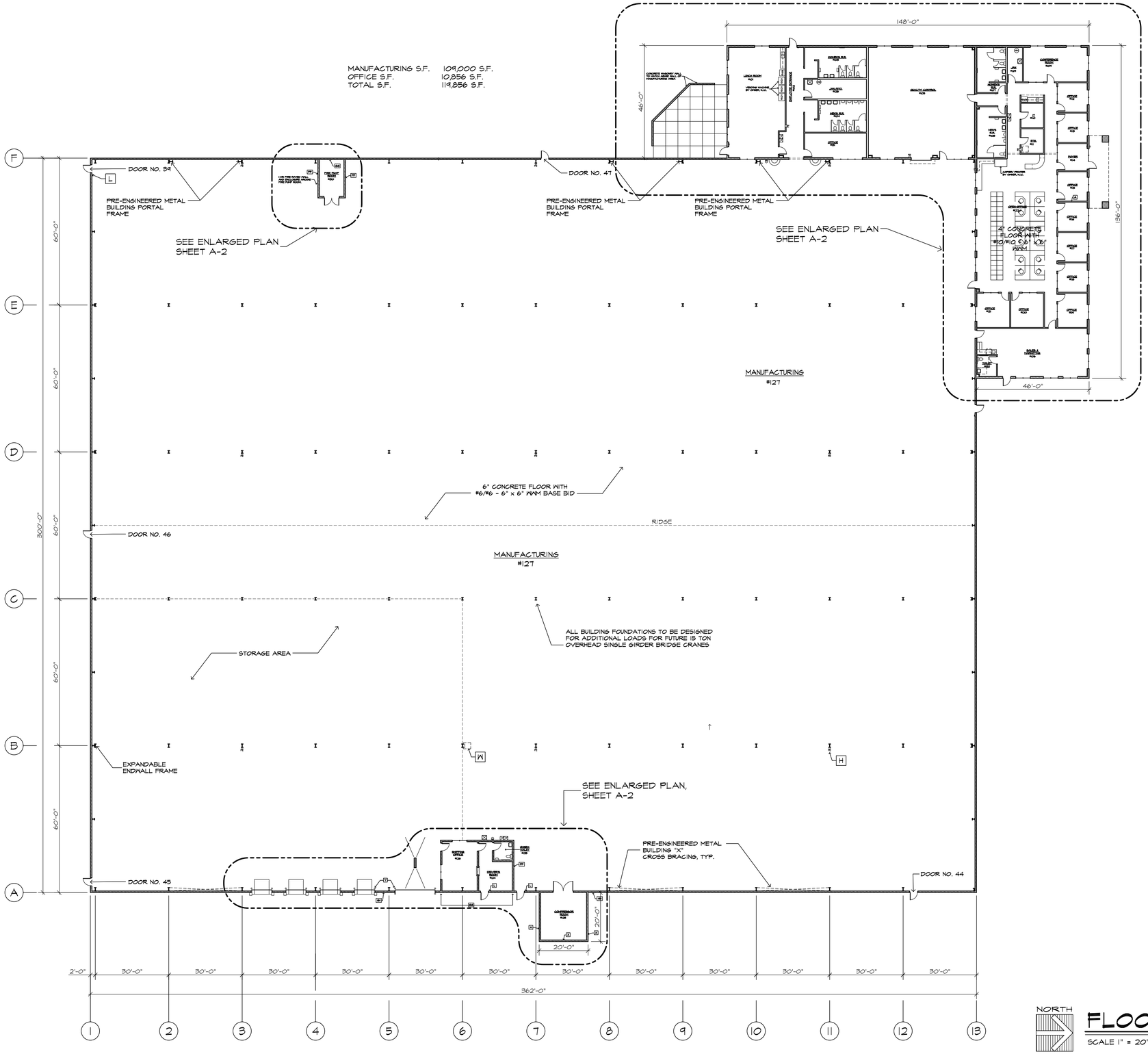

KEYNOTES

- A — NEW 3-5/8"x25 ga METAL STUD WALL FULL HEIGHT TO STRUCTURE ABOVE, WITH STUDS AT 24" O.C. WITH ONE LAYER OF 5/8" GYP. BD. EA. SIDE. FILL WALLS WITH SOUND BATT INSULATION.
- B — NEW 6"x25 ga METAL STUD WALL FULL HEIGHT TO STRUCTURE ABOVE, WITH STUDS AT 24" O.C. WITH (1) LAYER OF 5/8" GYP. BD. EACH SIDE. FILL WALLS W/ SOUND BATT INSULATION.
- C — NEW 3-5/8"x25ga METAL STUD WALL TO 6" ABOVE CEILING, WITH STUDS AT 24" O.C.
- D — NEW 6"x25 ga METAL STUD WALL FULL HEIGHT TO STRUCTURE ABOVE, WITH STUDS AT 24" O.C. FILL WALLS WITH MINERAL WOOL SOUND BATT INSULATION & 7/8" x 20ga RESILIENT FURRING CHANNEL AT 24" O.C. & 5/8" GYPSUM BOARD ON EACH SIDE OF WALL.
- E — NEW 2"x25ga. METAL FURRING CHANNELS WITH 2" (R=10) EXTRUDED POLYSTYRENE RIGID INSULATION WITH 5/8" GYPSUM BOARD ON INTERIOR FACE OF CMU.
- F — NEW 1-1/2"x25ga. METAL FURRING CHANNELS WITH WITH 5/8" GYPSUM BOARD ON INTERIOR FACE OF CMU.
- G — FIRE EXTINGUISHER IN SEMI-RECESSED CABINET, FIRE EXTINGUISHER TO BE 10 lb UL 4A:80 B:C DRY CHEMICAL.
- H — FIRE EXTINGUISHER ON WALL MOUNT BRACKET, FIRE EXTINGUISHER TO BE 20 lb UL 20A:120 B:C DRY CHEMICAL.
- J — PLASTIC LAMINATE COUNTERTOP AT 34" A.F.F. AND BASE CABINETS WITH WALL CABINETS ABOVE.
- K — PLASTIC LAMINATE COUNTERTOP AT 30" A.F.F. WITH BASE CABINETS AND KNEE SPACES AS SHOWN ON THE PLAN.
- L — OBC REQUIRED WALL MOUNT TACTILE ADA COMPLIANT EXIT SIGNAGE.
- M — OBC REQUIRED POSTING OF BUILDING PLAQUE OR OCCUPANCY PERMIT.
- N — WALL MOUNT ADA COMPLIANT "MENS" TOILET ROOM SIGN.
- P — WALL MOUNT ADA COMPLIANT "WOMENS" TOILET ROOM SIGN.
- Q — PAINTED METAL TOILET PARTITION.
- R — PAINTED METAL URINAL SCREEN.
- S — PAPER TOWEL DISPENSER BY OWNER.
- T — 18"x36" MIRROR.
- U — 24" X 60" MIRROR.
- V — REFRIGERATOR BY OWNER, N.I.C.
- W — PAINTED STEEL ROOF ACCESS LADDER, OSHA COMPLIANT SAFETY CAGE, AND ROOF HATCH.
- X — CONCRETE MASONRY WALLS FULL HEIGHT TO ROOF STRUCTURE ABOVE, WITH METAL WALL PANELS SCREWED TO MASONRY ABOVE ABUSE WALL HEIGHT OF 7'-4". ROOF STRUCTURE TO BE PEMB "Z" ROOF PURLINS.
- Y — PAINTED 6"Ø SCHEDULE 40 STEEL PIPE BOLLARD FILLED WITH CONCRETE.
- Z — not used
- AA — not used
- BB — not used
- CC — KNOX BOX AS PER LOCAL FIRE DEPARTMENT REQUIREMENTS.
- DD — CORIAN WINDOW SILL, TYP.
- EE — PLUMBING CHASE WITH 2-1/2" x 25 ga METAL STUDS AND 5/8" GYPSUM BOARD ON ROOM SIDE TO ABOVE SUSPENDED CEILING.
- FF — CONCRETE AND BAR JOIST MEZZANINE ABOVE WITH 2-PIPE INDUSTRIAL STYLE GUARDRAIL WITH TOE KICK AND ONE (1) REMOVABLE GUARD RAIL SECTION.
- GG — EXTEND CONCRETE BLOCK UP TO MEZZANINE BAR JOIST BEARING HEIGHT AND ATTACH METAL WALL SIDING TO FACE OF CONCRETE BLOCK.
- HH — CONCRETE MASONRY ABUSE WALL TO 7'-4" WITH PEMB WALL GIRTS AND WALL SIDING ABOVE. SEE WALL SECTIONS FOR INFORMATION.
- JJ — EXTEND CONCRETE BLOCK UP PAST ROOF JOIST BEARING ELEVATION TO 15'-4" A.F.F. SEE WALL SECTION FOR ADDITIONAL INFORMATION.
- KK — PAINTED STEEL ROOF ACCESS LADDER AND ROOF HATCH.
- LL — FRP PANELS FULL HEIGHT ON THIS WALL.
- MM — STOP FRP PANELS AT THIS LOCATION.
- NN — PROVIDE 4"x4" PULL / JUNCTION BOX AT 40" A.F.F. ON OFFICE SIDE OF WALL AND 2" CONDUIT THRU MASONRY WALL INTO MANUFACTURING AREA WITH ANOTHER 4"x4" PULL / JUNCTION BOX AT 40" A.F.F. ON MANUFACTURING SIDE OF WALL AND 2" CONDUIT UP TO 4"x4" PULL/JUNCTION BOX AT 26'-0" A.F.F.

NORTH

FLOOR PLAN

SCALE 1" = 20'-0"

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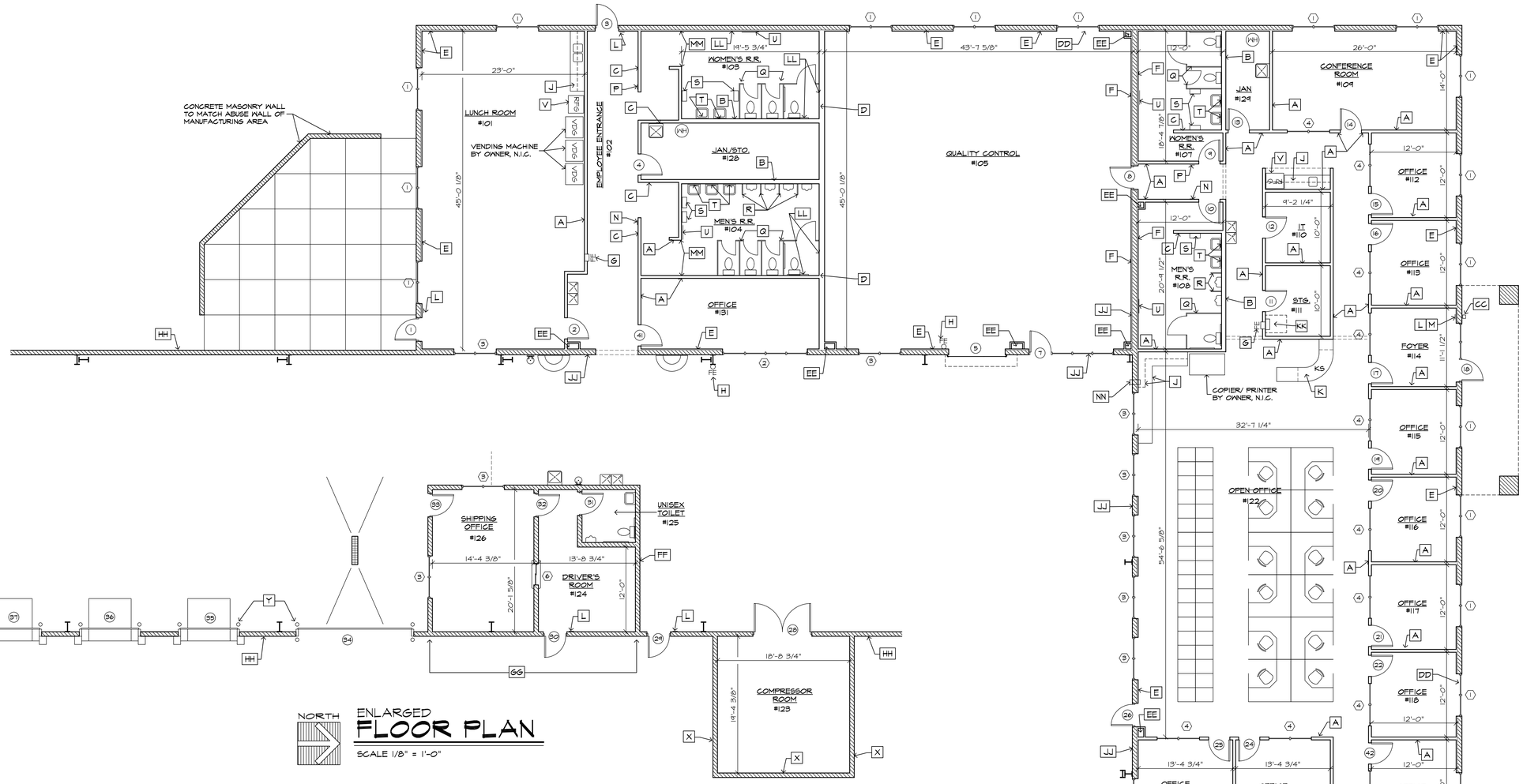
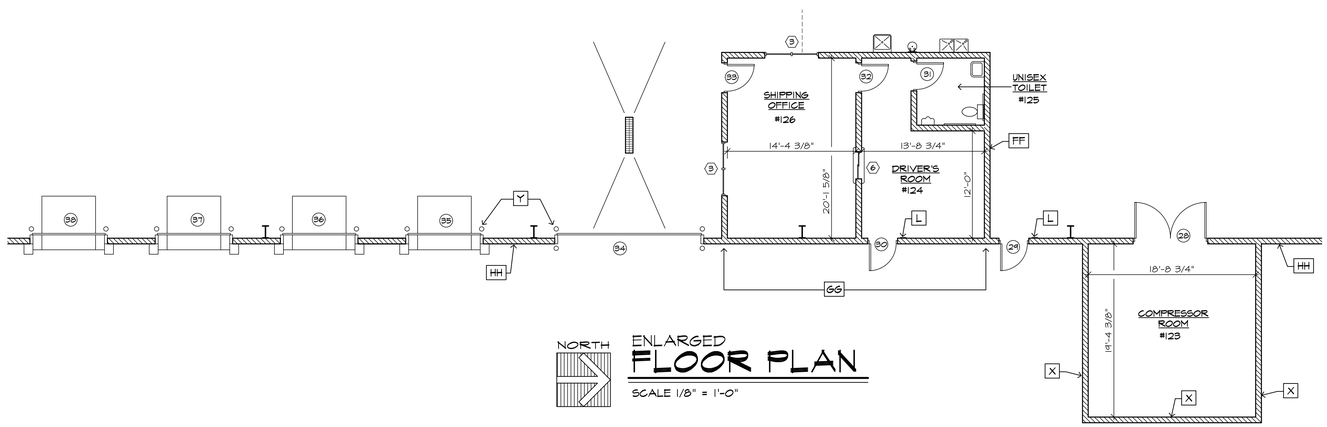


NORTH

ENLARGED FLOOR PLAN

SCALE 1/8" = 1'-0"



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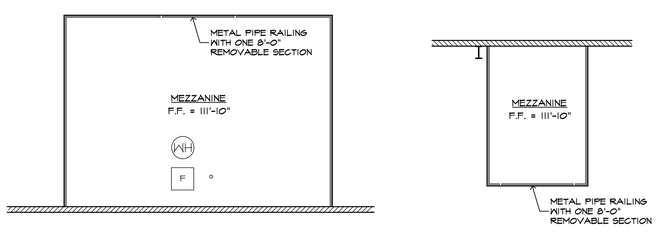
ENLARGED FLOOR PLAN

SCALE 1/8" = 1'-0"



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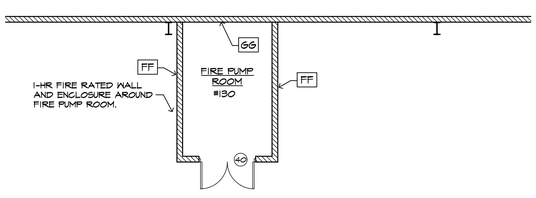
MEZZANINE PLAN

SCALE 1/8" = 1'-0"



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ENLARGED FLOOR PLAN

SCALE 1/8" = 1'-0"

NORTH

ENLARGED FLOOR PLAN

SCALE 1/8" = 1'-0"

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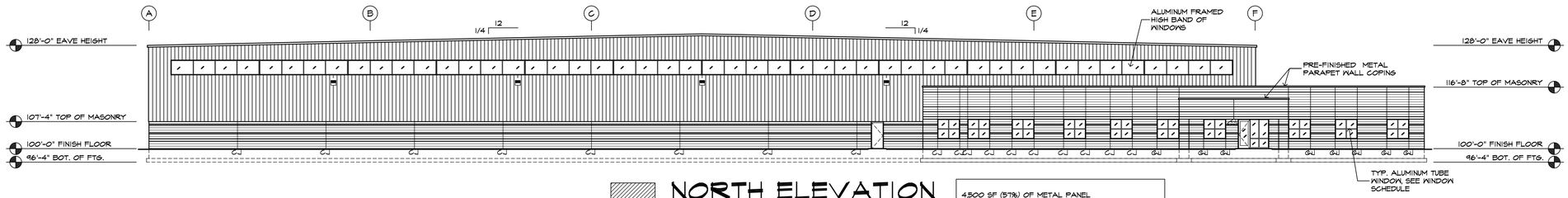
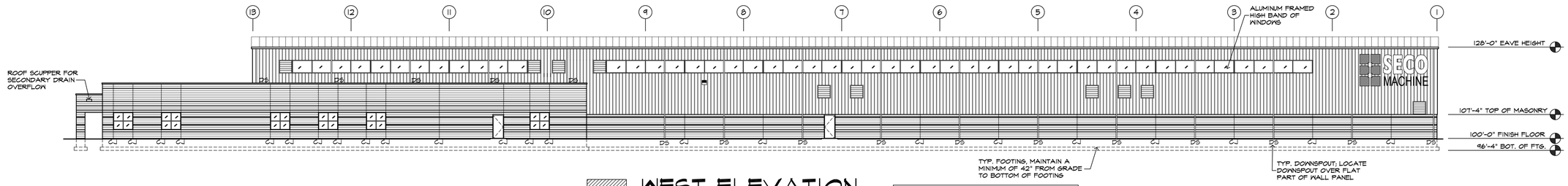


NORTH ELEVATION

SCALE 1/16" = 1'-0"

4,500 SF (57%) OF METAL PANEL
3,395 SF (43%) OF ARCHITECTURAL MASONRY

7,895 SF (100%) TOTAL OF EXTERIOR MATERIALS

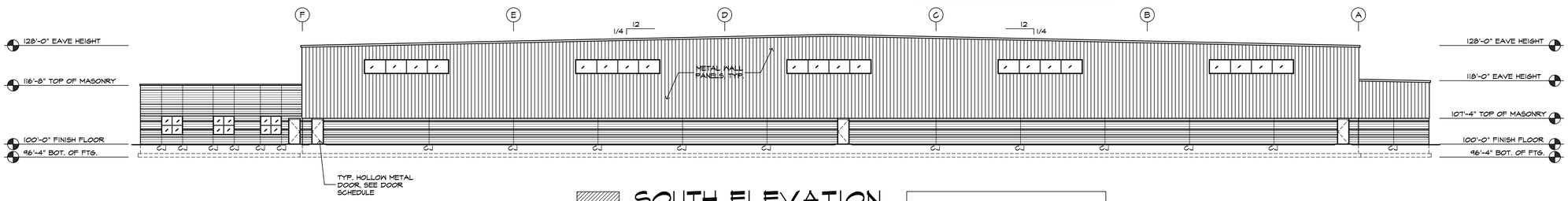


WEST ELEVATION

SCALE 1/16" = 1'-0"

5,166 SF (55%) OF METAL PANEL
4,157 SF (45%) OF ARCHITECTURAL MASONRY

9,323 SF (100%) TOTAL OF EXTERIOR MATERIALS

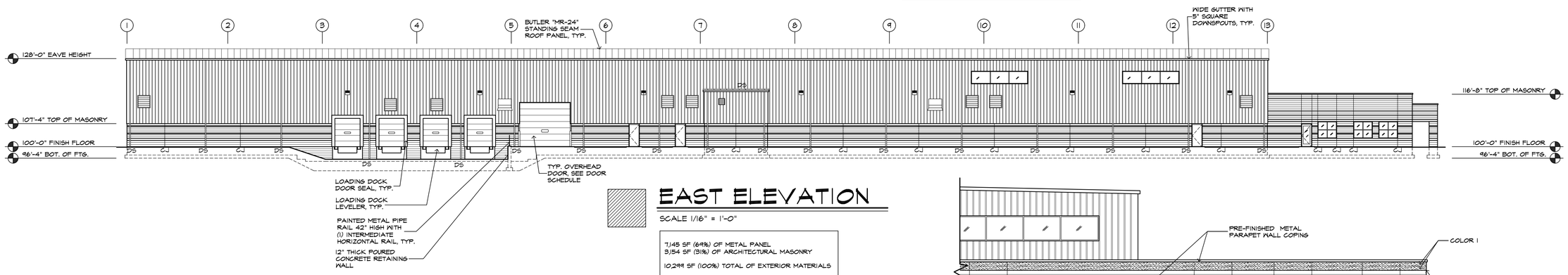


SOUTH ELEVATION

SCALE 1/16" = 1'-0"

6,731 SF (69%) OF METAL PANEL
2,968 SF (31%) OF ARCHITECTURAL MASONRY

9,699 SF (100%) TOTAL OF EXTERIOR MATERIALS

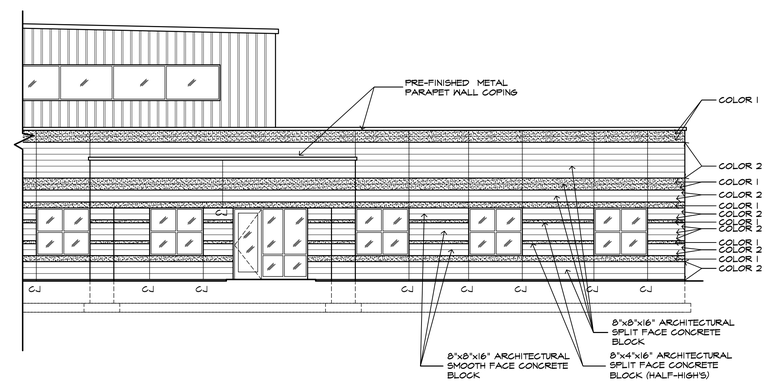


EAST ELEVATION

SCALE 1/16" = 1'-0"

7,145 SF (69%) OF METAL PANEL
3,154 SF (31%) OF ARCHITECTURAL MASONRY

10,299 SF (100%) TOTAL OF EXTERIOR MATERIALS



ENLARGED

NORTH ELEVATION

SCALE 1/8" = 1'-0"

EXTERIOR COLORS:		
CONCRETE MASONRY COLOR NO. 1	CEMENT PRODUCTS, INC.	DESERT BUFF #219
CONCRETE MASONRY COLOR NO. 2	CEMENT PRODUCTS, INC.	BRANDYWINE #310
METAL WALL PANEL	BUTLER MANUFACTURING, INC	BUTLER COOL HARVEST
METAL RAKE TRIM, GUTTERS, DOWNSPOUTS	BUTLER MANUFACTURING, INC	BUTLER COOL HARVEST
METAL PARAPET WALL COPING	W.P. HICKMAN COMPANY	A-05 MEDIUM BRONZE
ALUMINUM WINDOW FRAMING	TUBELITE, INC.	BRONZE ANODIZED
ALUMINUM WINDOW GLAZING	PPG / WOOSTER GLASS	TINTED BRONZE
OVERHEAD INSULATED STEEL DOOR	WAYNE DALTON DOOR, INC.	BROWN
EXTERIOR STEEL MAN DOOR PAINT	SHERWIN-WILLIAMS, INC.	BROWN

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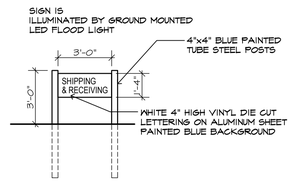
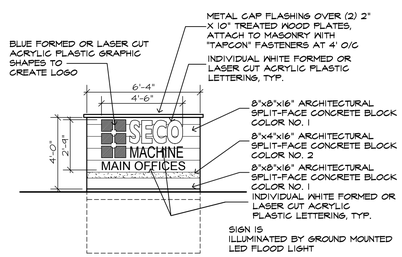


DIRECTIONAL SIGN = 4 SF FACE

BUILDING SIGN NO. 3
SIGN ELEVATION

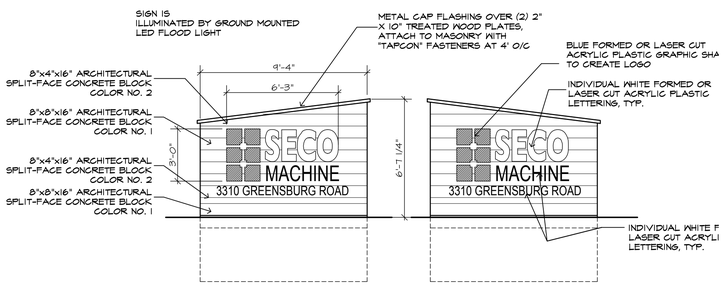
SCALE = 1/4" = 1'-0"



FREESTANDING SIGN = 12.375 SF FACE

BUILDING SIGN NO. 2
SIGN ELEVATION

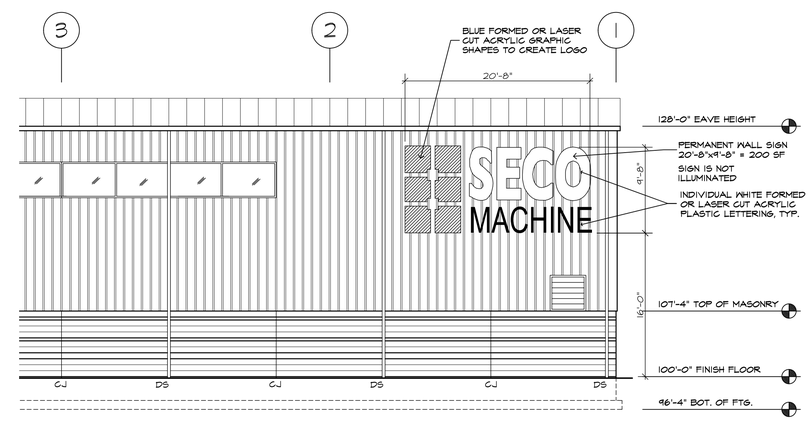
SCALE = 1/4" = 1'-0"



FREESTANDING "V" SHAPED SIGN = 18.75 SF EACH FACE FOR 37.5 SF TOTAL

BUILDING SIGN NO. 1
SIGN ELEVATION

SCALE = 1/4" = 1'-0"



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WEST ELEVATION

SCALE 1/8" = 1'-0"

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