

Design Area # 2 HAZARD: ESFR
 Zone: 2 System Type: WET
 Location: WAREHOUSE
 Flowing Outlets: 12
 Head PSI: 52 Remote Area: 1140
 Req. @ Pump Discharge (BOR):
 Flow: 1459 gpm @ 111.1 psi
 Req. @ City Supply
 Flow: 1709 gpm @ 31.2 psi
 Calculation Safety: 16.8 psi
 Includes 250 gpm Hose allowance

Design Area # 3 HAZARD: ESFR
 Zone: 3 System Type: WET
 Location: WAREHOUSE
 Flowing Outlets: 12
 Head PSI: 52 Remote Area: 1117
 Req. @ Pump Discharge (BOR):
 Flow: 1457 gpm @ 116.4 psi
 Req. @ City Supply
 Flow: 1707 gpm @ 38.5 psi
 Calculation Safety: 9.5 psi
 Includes 250 gpm Hose allowance

ESFR PENDENT SPRINKLER
 K=1 G.O., 3/4" NPT, SIK VK503

TYP. ESFR - I7 DETAIL
 MIN DISTANCE BETWEEN HEADS: 6'-0"
 MAX DISTANCE BETWEEN HEADS: 12'-0"
 MAX DISTANCE FROM DECK: 0" - 14"
 MAX COVERAGE AREA: 100 SQ. FT.
 MIN COVERAGE AREA: 64 SQ. FT.
 SYMBOLS:
 ON PLAN

NEW ESFR ZONE #1 38,458 SF.	NEW ESFR ZONE #2 39,805 SF.
NEW ESFR ZONE #4 35,046 SF.	NEW ESFR ZONE #3 36,036 SF.

ZONE MAP
N.T.S.

FP 4 OF 4	FP 3 OF 4	FP 2 OF 4
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SHEET MAP
N.T.S.

SPRINKLER LEGEND

SYD	QTY	POSITION	FINISH	TEMP	K	NPT	SR	MPG	MODEL#
●	1271	PEND	BRASS	160	16.80	3/4"	TY7226	Typo	ESFR-I7
○	4	LRR	BRASS	286	8.00	3/4"	TY4131	Typo	TY-FRB
○	6	PEND	WHITE	200	11.20	3/4"	TY5237	Typo	EC-11
○	4	PEND	WHITE	200	5.60	1/2"	TY323	Typo	TY-FRB

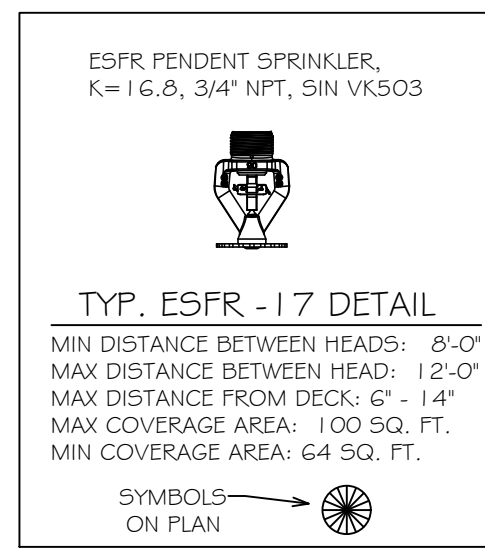
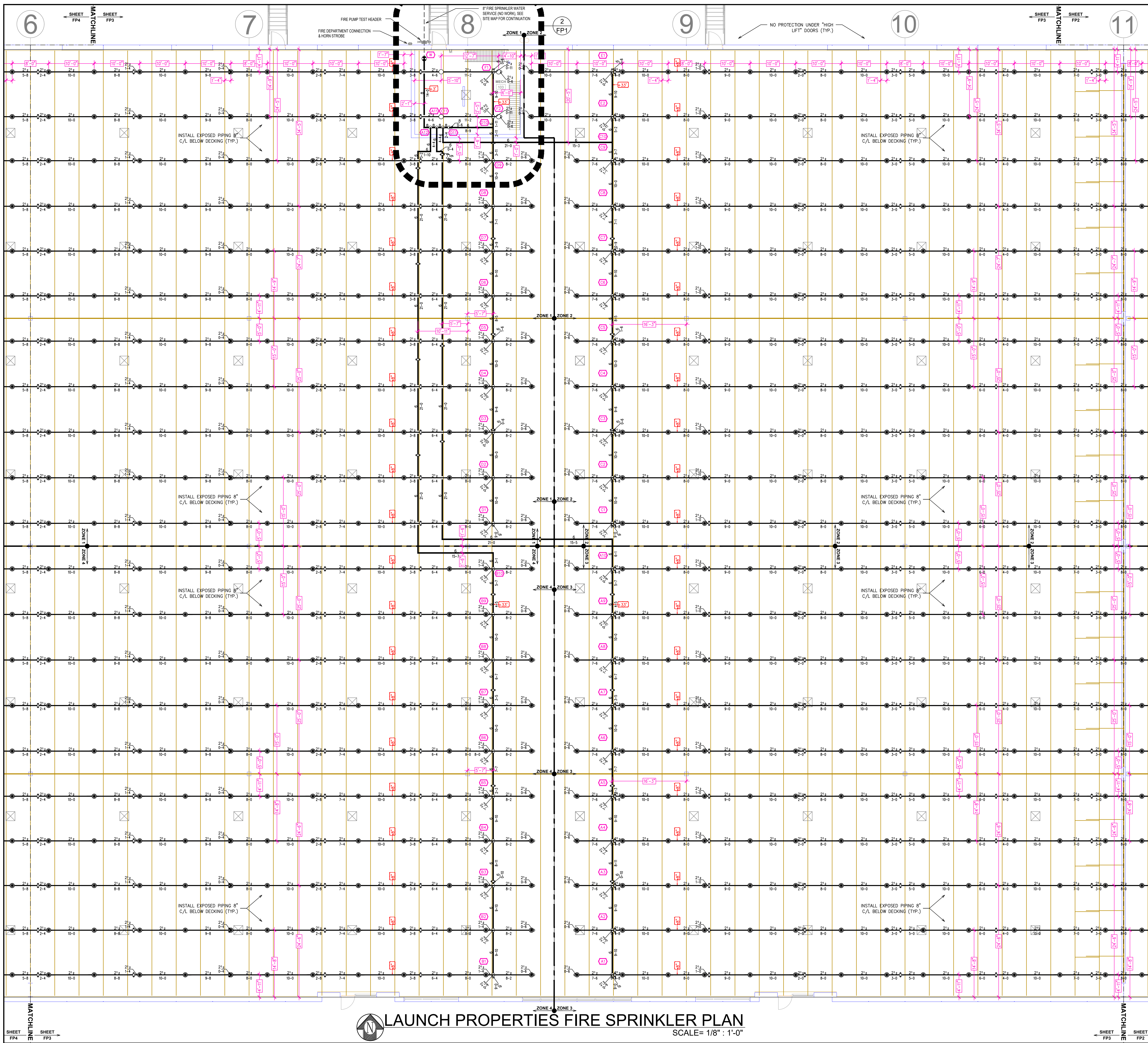
1585 TOTAL HEADS



910 N. SYCAMORE AVENUE; STOUX FALLS, SD 57110 PHONE: (605)-444-9290

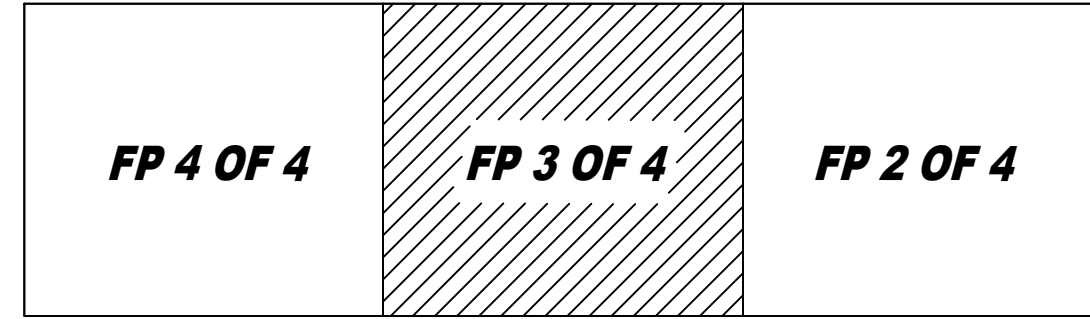
PROJECT
 LAUNCH PROPERTIES 150K WAREHOUSE
 222nd Street
 Lakeville, MN 55044

REVISIONS:	
NO:	
DATE:	
DATE:	5-20-2020
DRAWN BY:	JARED V.G.
DESIGNED BY:	JARED V.G.
SCALE:	1/8"=1'-0"
JOB NUMBER:	
SHEET	
2 OF 4	



NEW ESFR ZONE #1 38,458 SF.	NEW ESFR ZONE #2 38,805 SF.
NEW ESFR ZONE #4 38,046 SF.	NEW ESFR ZONE #3 36,036 SF.

ZONE MAP
N.T.S.



SPRINKLER LEGEND

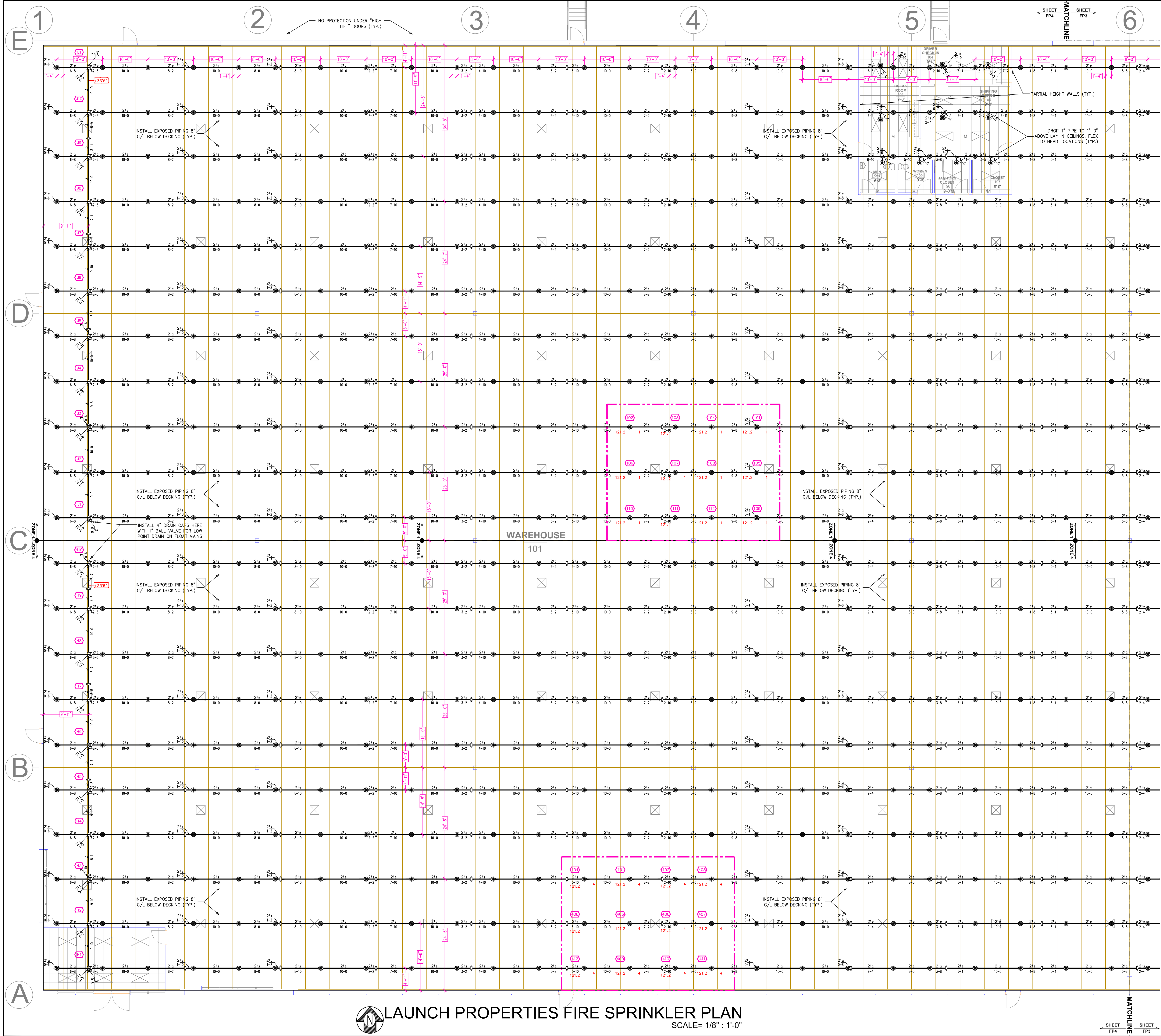
SYU	CONT	POSITION	FINISH	TEMP	K	NPT	SIN	MEGL	MODEL#
●	1571	PEND	BRASS	165	16.80	3/4"	TY2226	Typo	ESFR-17
○	4	UPR	BRASS	286	8.00	3/4"	TY4131	Typo	TY-FRB
○	6	PEND	WHITE	200	11.20	3/4"	TY9237	Typo	EC-11
○	4	PEND	WHITE	200	5.60	1/2"	TY323	Typo	TY-FRB

1585 TOTAL HEADS



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SCALE:	1/8"=1'-0"
JOB NUMBER:	
SHEET	
3 OF 4	



DESIGN AREA #1 HAZARD ESFR
 Zone: 1 System Type: WET
 Location: WAREHOUSE
 Flowing Outlets:
 Head PSI: 52 Remote Area: 1140
 Req. @ Pump Discharge (BOR):
 Flow: 1465 gpm @ 107.8psi
 Req. @ City Supply
 Flow: 1715 gpm @ 28.0 psi
 Calculation Safety: 19.9psi
 Includes 250 gpm Hose allowance

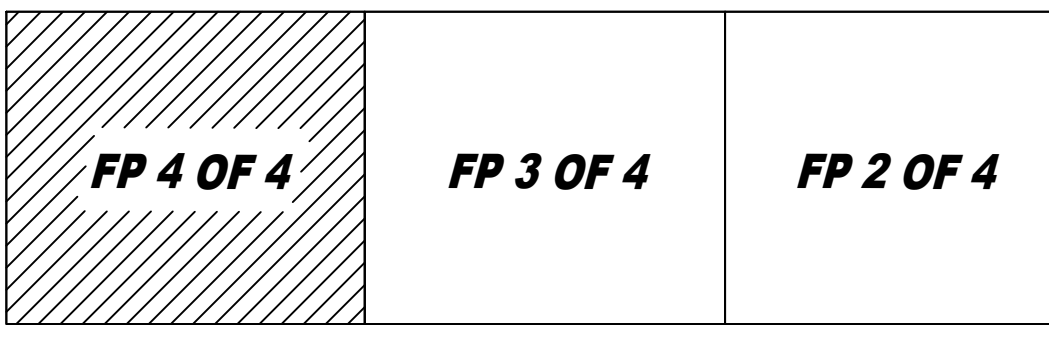
DESIGN AREA #4 HAZARD ESFR
 Zone: 4 System Type: WET
 Location: WAREHOUSE
 Flowing Outlets:
 Head PSI: 52 Remote Area: 1117
 Req. @ Pump Discharge (BOR):
 Flow: 1457 gpm @ 116.4psi
 Req. @ City Supply
 Flow: 1707 gpm @ 36.5 psi
 Calculation Safety: 11.5psi
 Includes 250 gpm Hose allowance

ESFR PENDENT SPRINKLER,
 K=1.6, 3/4" NPT, 5.1N V.503

TYP. ESFR - I 7 DETAIL
 MIN DISTANCE BETWEEN HEADS: 8'-0"
 MAX DISTANCE BETWEEN HEADS: 12'-0"
 MAX DISTANCE FROM DECK: 6" - 14"
 MAX COVERAGE AREA: 100 SQ. FT.
 MIN COVERAGE AREA: 61 SQ. FT.
 SYMBOLS ON PLAN

NEW ESFR ZONE #1 38,458 SF.	NEW ESFR ZONE #2 39,805 SF.
NEW ESFR ZONE #4 35,036 SF.	NEW ESFR ZONE #3 36,036 SF.

ZONE MAP
N.T.S



SHEET MAP
N.T.S

SPRINKLER LEGEND

SYMT	QTY	POSITION	FINISH	TEMP	K	NPT	SN	IMG	MODEL#
●	1271	PEND	BRASS	165	16.80	3/4"	TY7226	Typo	ESFR-17
○	4	LPR	BRASS	286	8.00	3/4"	TY4131	Typo	TY-FRB
○	6	PEND	WHITE	200	11.20	3/4"	TY5237	Typo	EC-11
○	4	PEND	WHITE	200	5.00	1/2"	TY23	Typo	TY-FRB

1585 TOTAL HEADS

LAUNCH PROPERTIES FIRE SPRINKLER PLAN
 SCALE = 1/8" = 1'-0"



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REVISIONS:	
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DESIGNED BY:	JARED V.G.
SCALE:	1/8"=1'-0"
JOB NUMBER:	
SHEET	
4 OF 4	