





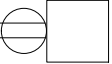
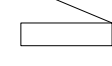












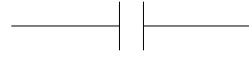

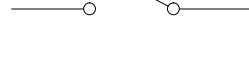



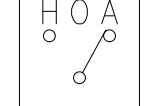


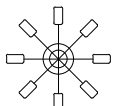
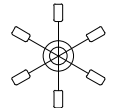
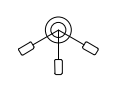
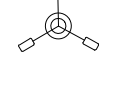

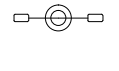
**ELECTRICAL PLAN**

-  ABOVE GROUND CONDUIT AND WIRES. SIZES AS INDICATED.
-  CONDUIT AND WIRES UNDERGROUND
-  DUPLEX RECEPTACLE
-  WEATHERPROOF DUPLEX RECEPTACLE
-  GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
-  JUNCTION BOX
-  MINI POWER CENTER WITH 120V WP RECEPTACLE
-  PANEL
-  TRANSFORMER
-  METER
-  REMOVE EXISTING ITEM
-  LIGHTING POLE WITH LIGHT FIXTURES
-  HANDHOLE (233LA UNLESS NOTED)
-  MANHOLE (SIZE AS NOTED)
-  GROUND ROD
-  GROUND WELL

**ELECTRICAL DIAGRAM**

-  TRANSFORMER
-  LIGHT FIXTURE
-  RED INDICATING LIGHT
-  CIRCUIT BREAKER
-  CONTACT
-  CONTACTOR COIL
-  SWITCH
-  FUSE
-  PHOTOCONTROL
-  TIMECLOCK
-  HAND-OFF-AUTO SWITCH

**LIGHTING SYMBOLS**

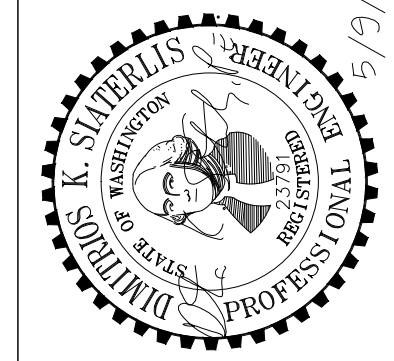
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- LIGHT POLE IDENTIFIERS  
REFER TO SHEET E1.23  
FOR DETAILS

**ABBREVIATIONS**

- A AMPS
- AIC AMPERE INTERRUPTING CAPACITY
- AWG AMERICAN WIRE GAUGE
- BKR BREAKER
- C CONDUIT
- CKT CIRCUIT
- CO CONDUIT ONLY
- CT CURRENT TRANSFORMER
- CU COPPER
- DIG DIGITAL
- G, GND GROUND
- GFI GROUND FAULT INTERRUPTER
- GFP GROUND FAULT PROTECTOR
- H HANDHOLE
- HM LIGHT POLE DESIGNATOR, HIGH MAST
- KVA KILOVOLT AMPS
- LCP LIGHTING CONTROL PANEL
- LP LIGHTING POLE WITH LIGHT FIXTURES
- MCB MAIN CIRCUIT BREAKER
- M, MH MANHOLE
- MP, MPZ MINI POWER CENTER, MINI POWER ZONE
- MTR METER
- N NEUTRAL
- NEC NATIONAL ELECTRIC CODE
- P LIGHT POLE DESIGNATOR, 40'
- PH PHASE
- PNL PANEL
- POT PORT OF TACOMA
- SPR SPARE
- SPD SURGE PROTECTION DEVICE
- TPU TACOMA POWER UTILITY
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- V VOLTS
- W WATTS, WIRE
- WAC WASHINGTON ADMINISTRATIVE CODE
- WP WEATHERPROOF
- XFMR TRANSFORMER

**SHEET INDEX**

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142	E1.23	ELECTRICAL CONDUIT/CABLE, AND FIXTURE SCHEDULES
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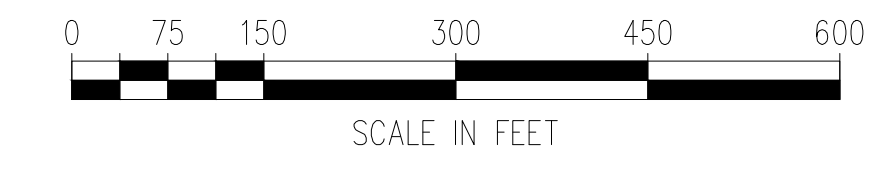
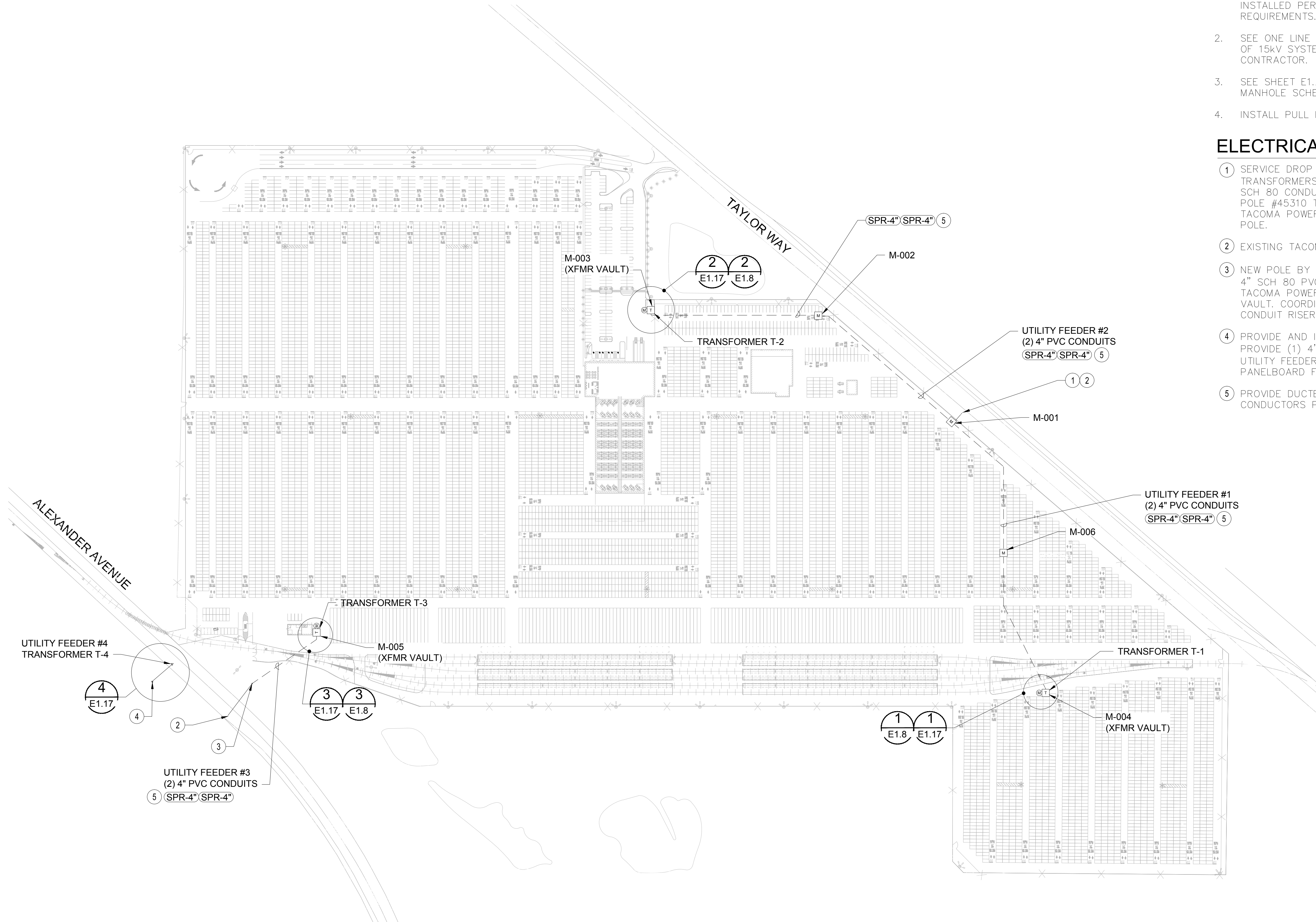
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<b>E1.0</b>	<b>PARCEL 77 AUTO IMPORT TERMINAL</b>		
	<b>ELECTRICAL</b>		
CONT/CONS: 070770	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36
M. ID: 201020-01	DATE-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	
PHASE: PRELIMINARY	PARCEL: MULTIPLE	DRAWING SCALE: AS SHOWN	

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**kpf**  
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### GENERAL NOTES

1. ALL 15kV DUCTBANK AND VAULT WORK SHALL BE INSTALLED PER TACOMA POWER STANDARD REQUIREMENTS.
2. SEE ONE LINE DIAGRAM FOR SEPARATION OF WORK OF 15kV SYSTEM BETWEEN TACOMA POWER AND CONTRACTOR.
3. SEE SHEET E1.23 FOR CONDUIT SCHEDULE AND MANHOLE SCHEDULE.
4. INSTALL PULL ROPE IN ALL CONDUITS.

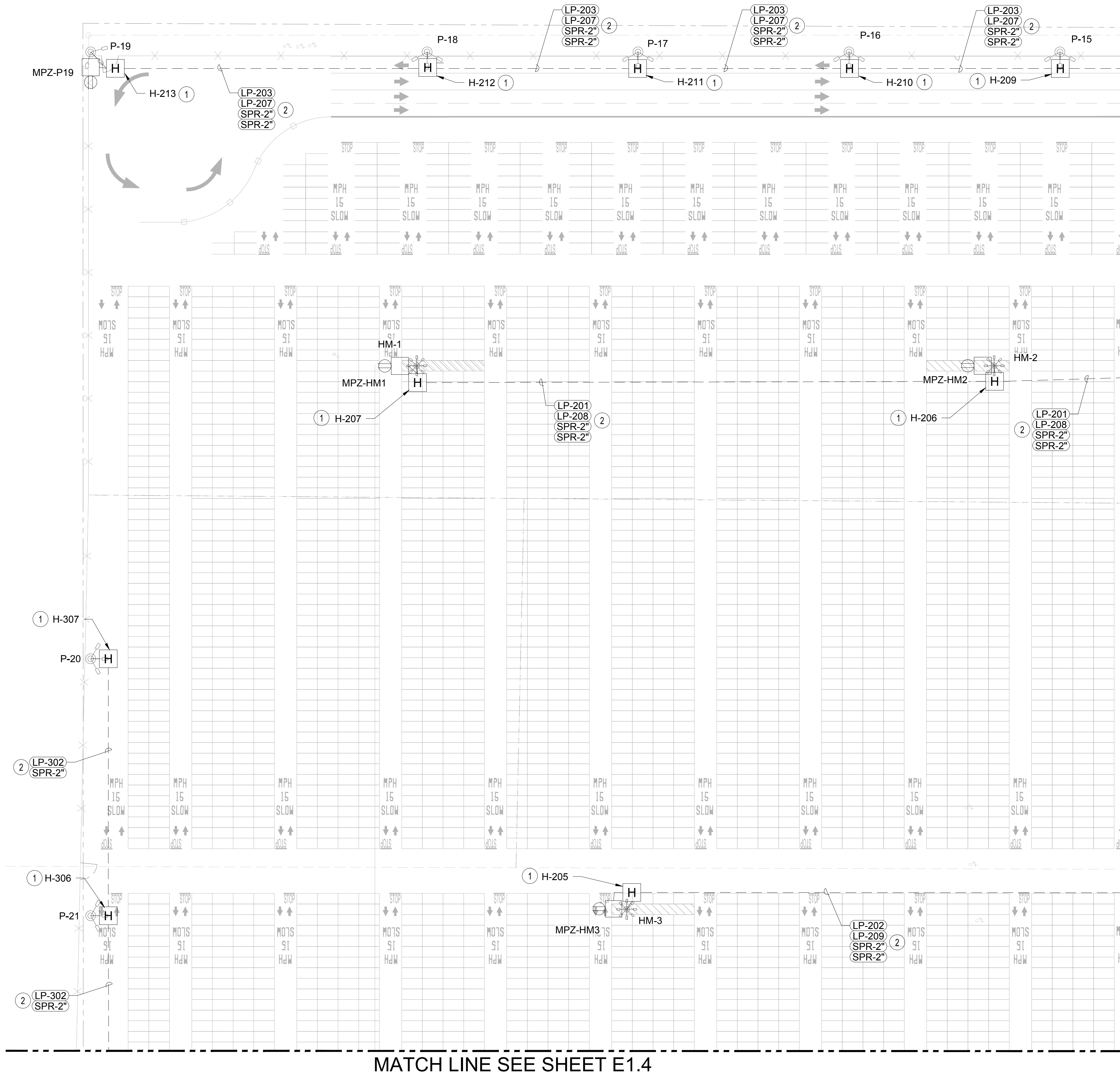
### ELECTRICAL NOTES

- 1 SERVICE DROP FOR TACOMA POWER FEED TO TRANSFORMERS T-1 AND T-2. PROVIDE ONE 4" SCH 80 CONDUIT FROM EXISTING TACOMA POWER POLE #45310 TO VAULT M-001. COORDINATE WITH TACOMA POWER FOR CONDUIT RISER UP EXISTING POLE.
- 2 EXISTING TACOMA POWER POLE.
- 3 NEW POLE BY TACOMA POWER. PROVIDE (2) NEW 4" SCH 80 PVC CONDUITS WITH PULL ROPES FROM TACOMA POWER POLE TO NEW TRANSFORMER VAULT. COORDINATE WITH TACOMA POWER FOR CONDUIT RISERS UP THE POLE.
- 4 PROVIDE AND INSTALL NEW POLE BY CONTRACTOR. PROVIDE (1) 4" SCH 80 PVC CONDUIT RISER FOR UTILITY FEEDER #4. PROVIDE 200A, 480/277V PANELBOARD FOR LIFT STATION POWER.
- 5 PROVIDE DUCTBANK PER E1.10, DETAIL 1. CONDUCTORS PROVIDED BY TACOMA POWER.

 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1837 TACOMA, WA 98401-1837	 K. SHERRILL PROFESSIONAL ENGINEER LICENSE NO. 59118	DATE: _____ APPR: _____ BY: _____ REVISION: _____
	DCR: 5/7/18 CHECKED BY: DKS DATE: 5/9/18 PROJECT ENGR: DKS DATE: 5/9/18 PRINTED BY: Jeff May 09, 2018 PORT ADDRESS: ONE SITCUM PLAZA TACOMA WA, 98401-1837	<b>E1.1</b> 120 OF 163 CONT./CONS: 070770 M. ID: 201020.01 PHASE: PRELIMINARY

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MATCH LINE SEE SHEET E1.4

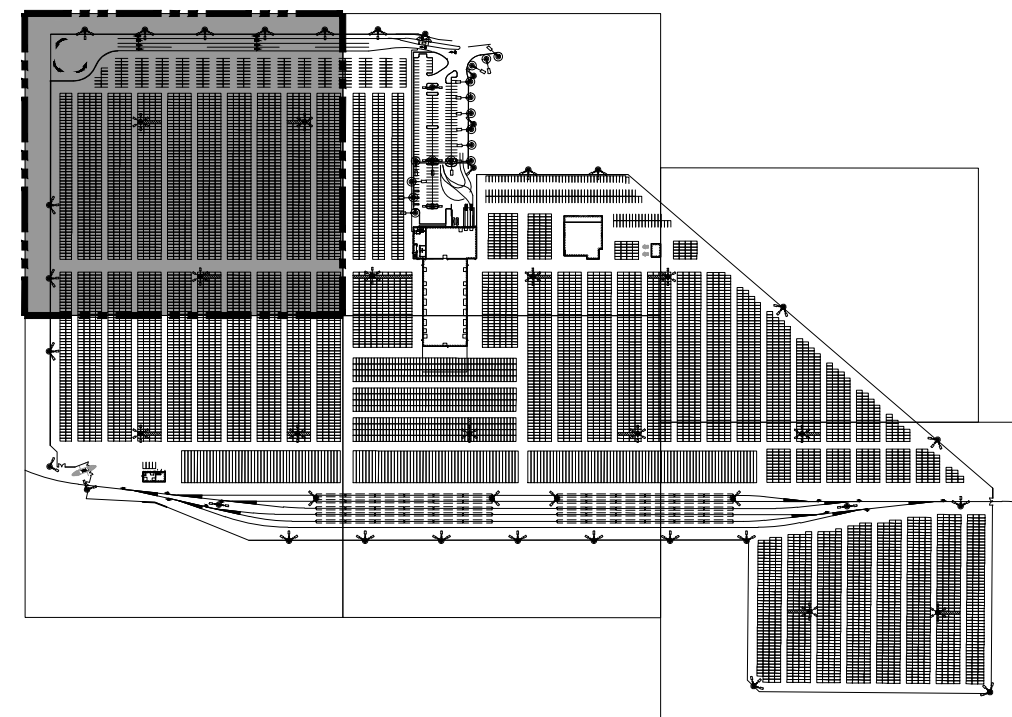
MATCH LINE SEE SHEET E1.3

GENERAL NOTES

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2. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
3. REFER TO SHEET E1.23 FOR CONDUIT AND CABLE SCHEDULE.
4. REFER TO CIVIL SHEETS U1.18-U1.24 FOR ALL VAULT, MANHOLE, AND POLE LOCATIONS.

ELECTRICAL NOTES

- 1 PROVIDE HANDHOLE AND POLE CONNECTION PER SHEET E1.18 DETAIL.
- 2 PROVIDE CONDUIT/DUCTBANK PER DUCTBANK DETAIL 2, SHEET E1.19.



KEY PLAN  
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**E1.2**  
-121- OF 163

CONTR/CONS: 070770  
M. ID: 201020.01  
PHASE: PRELIMINARY

TOWNSHIP: 21N RANGE: 3E SECTION: 36  
DATE-HRZ: W83-SF VERT: PORT OF TACOMA BM#  
PARCEL: MULTIPLE DRAWING SCALE: AS SHOWN

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PARCEL 77 AUTO IMPORT TERMINAL  
ELECTRICAL LOW VOLTAGE POWER DISTRIBUTION PLAN  
AREA 1

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kpff  
K. SHIFFRIN  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
No. 17571  
5/9/18

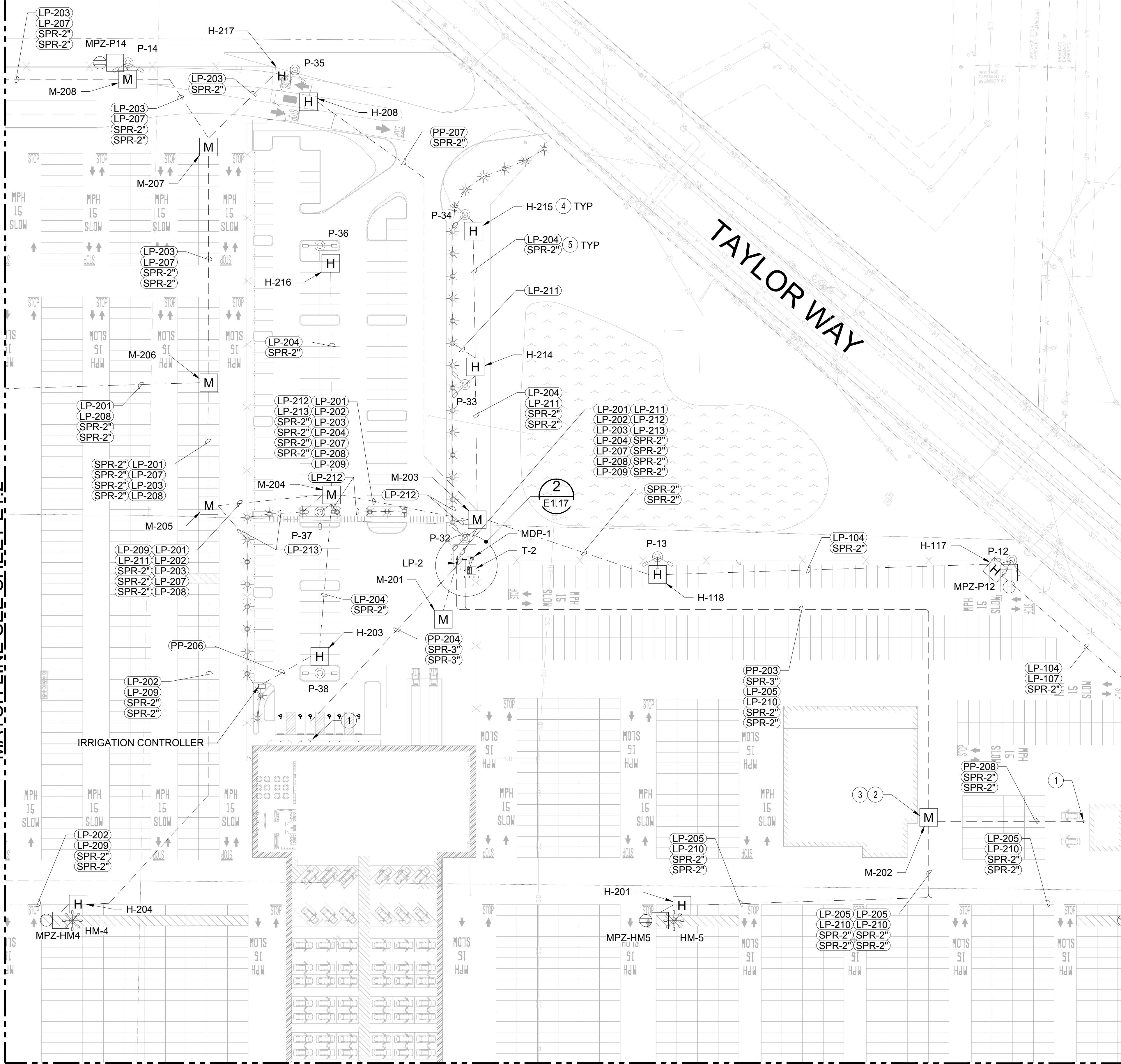
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MATCH LINE SEE SHEET E1.2

MATCH LINE SEE SHEET E1.6

MATCH LINE SEE SHEET E1.5

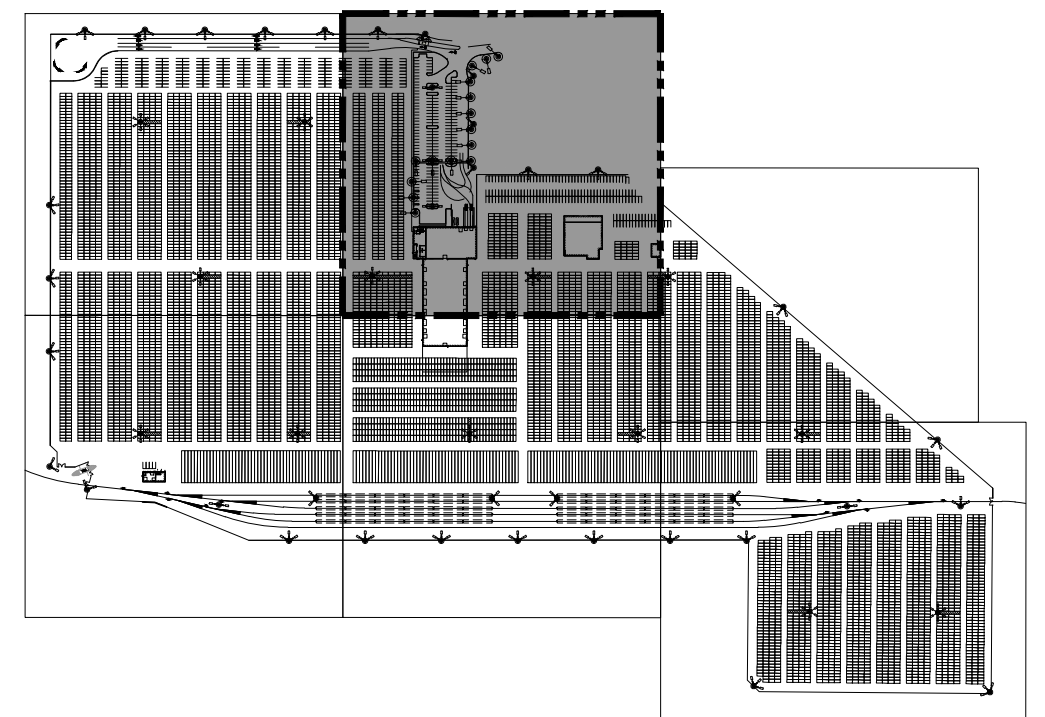


### GENERAL NOTES

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2. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
3. REFER TO SHEET E1.23 FOR CONDUIT AND CABLE SCHEDULE.
4. REFER TO CIVIL SHEETS U1.18-U1.24 FOR ALL VAULT, MANHOLE, AND POLE LOCATIONS.


### ELECTRICAL NOTES

- ① CAP CONDUIT 5' FROM BUILDING FOUNDATION.
- ② INSTALL MANHOLE WITH WALL FACING BUILDING 5' FROM BUILDING FOUNDATION.
- ③ SPLICE HIGH MAST LIGHT CIRCUITS IN MANHOLE.
- ④ PROVIDE HANDHOLE AND POLE CONNECTION PER SHEET E1.18 DETAIL. TYPICAL ALL HANDHOLES THIS SHEET.
- ⑤ PROVIDE CONDUIT/DUCTBANK PER DUCTBANK DETAIL 2, SHEET E1.19. TYPICAL ALL DUCTBANKS THIS SHEET.



KEY PLAN  
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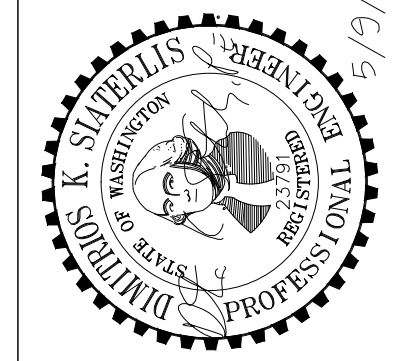
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	TACOMA WA, 98401-1837			

**E1.3**

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CONT/CONS: 070770

M. ID: 201020.01

PHASE: PRELIMINARY

**PARCEL 77 AUTO IMPORT TERMINAL**

**ELECTRICAL LOW VOLTAGE POWER DISTRIBUTION PLAN**

AREA 2

TOWNSHIP: 21N RANGE: 3E SECTION: 36

DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#

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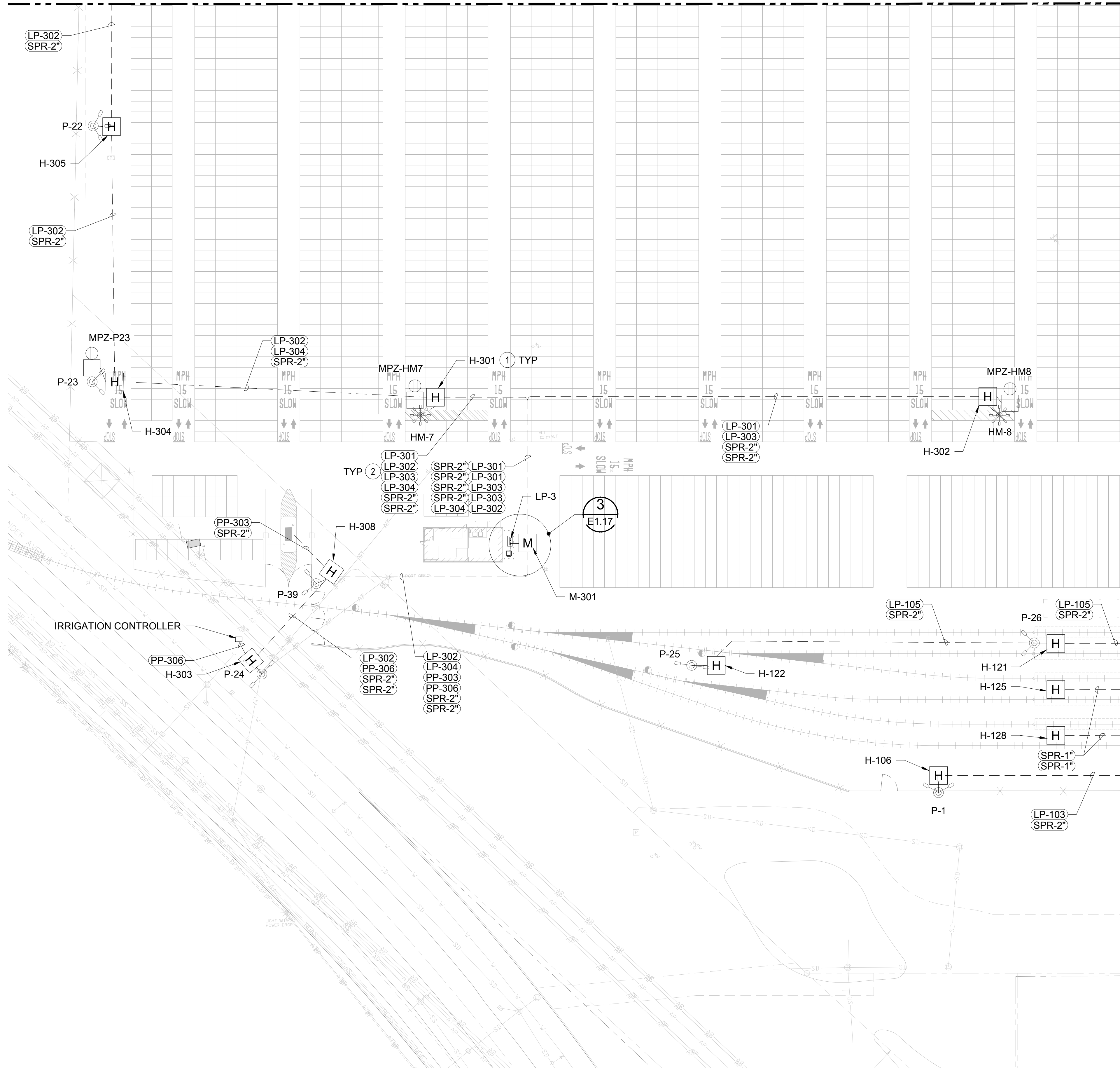
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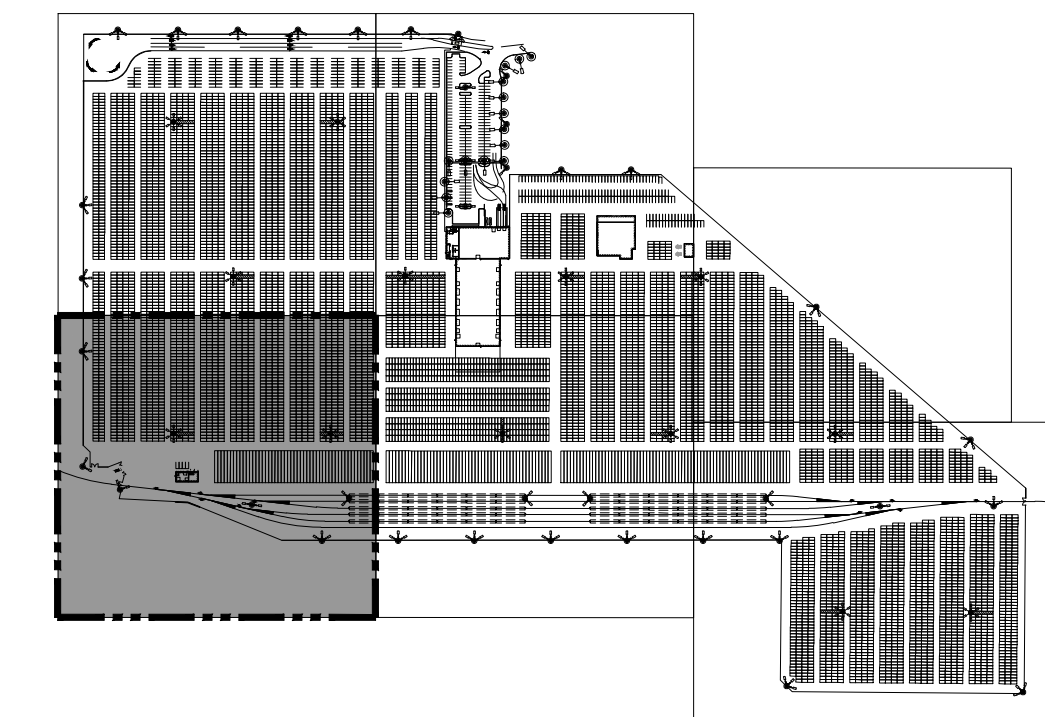
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MATCH LINE SEE SHEET E1.5

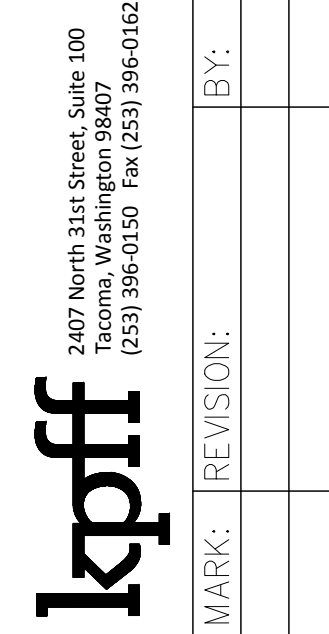
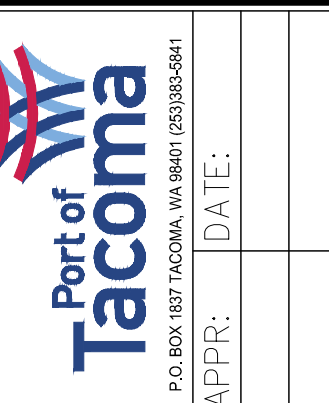


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**ELECTRICAL NOTES**

- 1 PROVIDE HANDHOLE AND POLE CONNECTION PER SHEET E1.18 DETAIL. TYPICAL ALL HANDHOLES THIS SHEET.
- 2 PROVIDE CONDUIT/DUCTBANK PER DUCTBANK DETAIL 2, SHEET E1.19. TYPICAL ALL DUCTBANKS THIS SHEET.



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<b>PARCEL 77 AUTO IMPORT TERMINAL</b>		
<b>ELECTRICAL LOW VOLTAGE POWER DISTRIBUTION PLAN AREA 3</b>		
TOWNSHIP: 21N	RANGE: 3E	SECTION: 36
DATE-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	PACEL: MULTIPLE
CONTR/CONS: 070770	PRELIMINARY	DRAWING SCALE: AS SHOWN
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**E1.4**  
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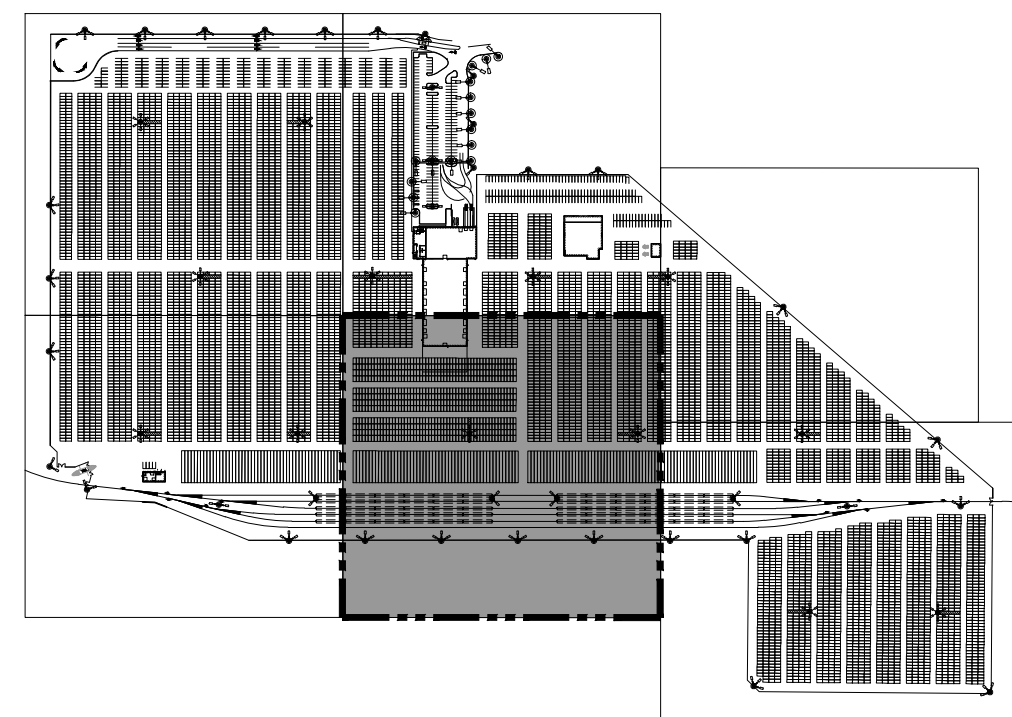
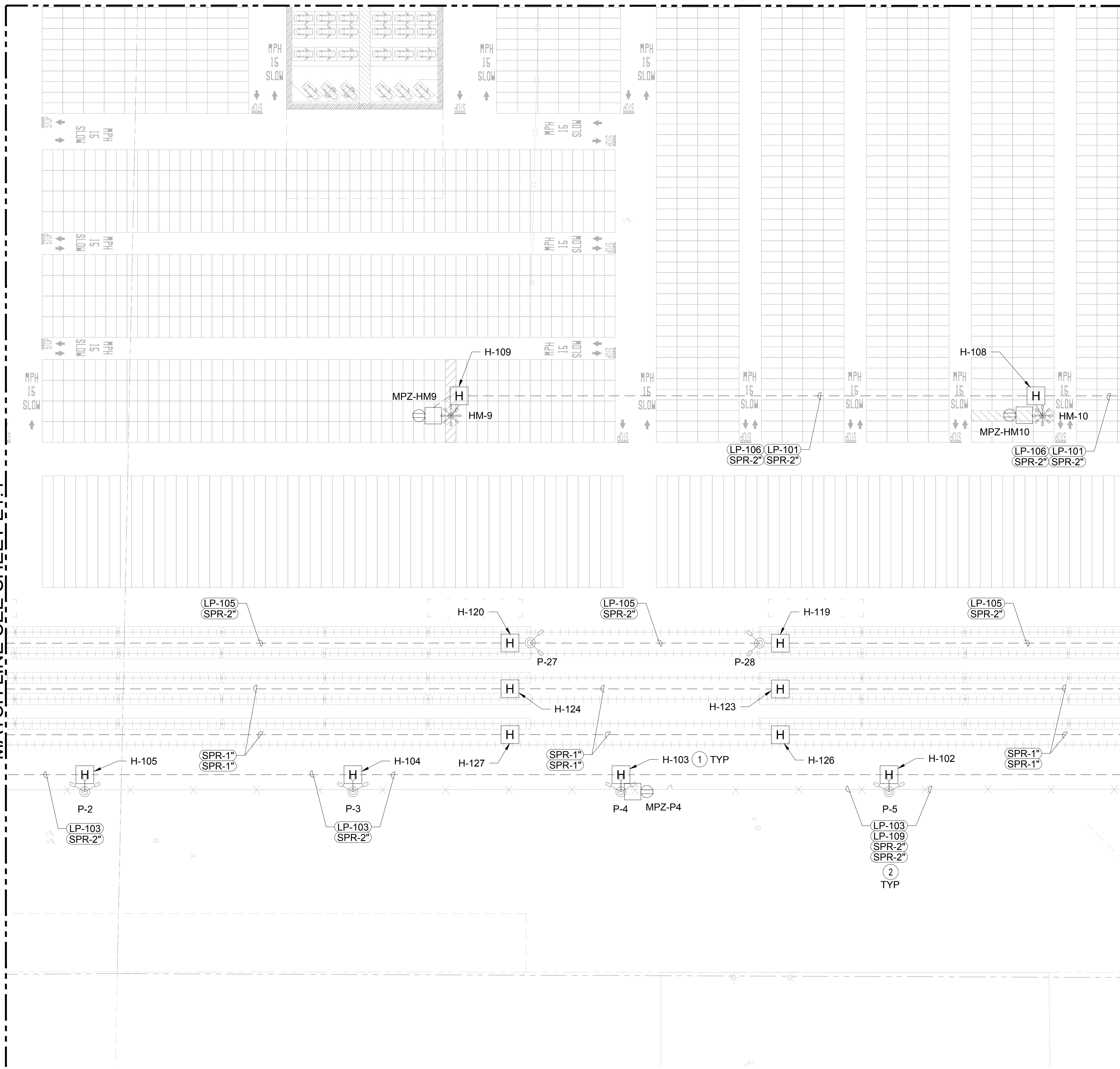
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MATCH LINE SEE SHEET E1.3

MATCH LINE SEE SHEET E1.7



KEY PLAN  
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**GENERAL NOTES**

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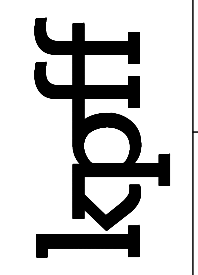
**E1.5**  
-124- OF 163

CONT/CONS:	070770	TOWNSHIP:	21N	RANGE:	3E	SECTION:	36
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**PARCEL 77 AUTO IMPORT TERMINAL**

**ELECTRICAL LOW VOLTAGE POWER DISTRIBUTION PLAN**  
AREA 4

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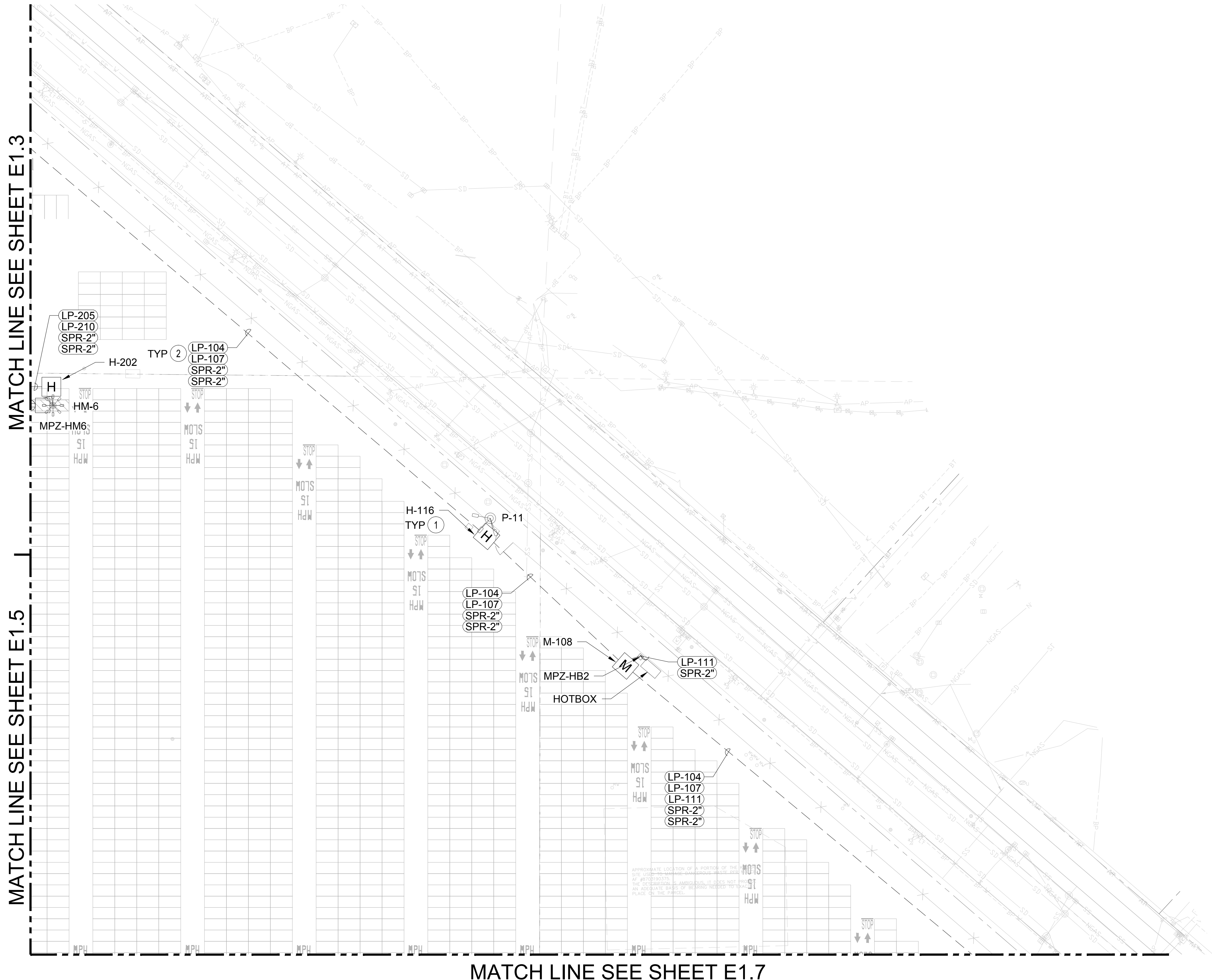


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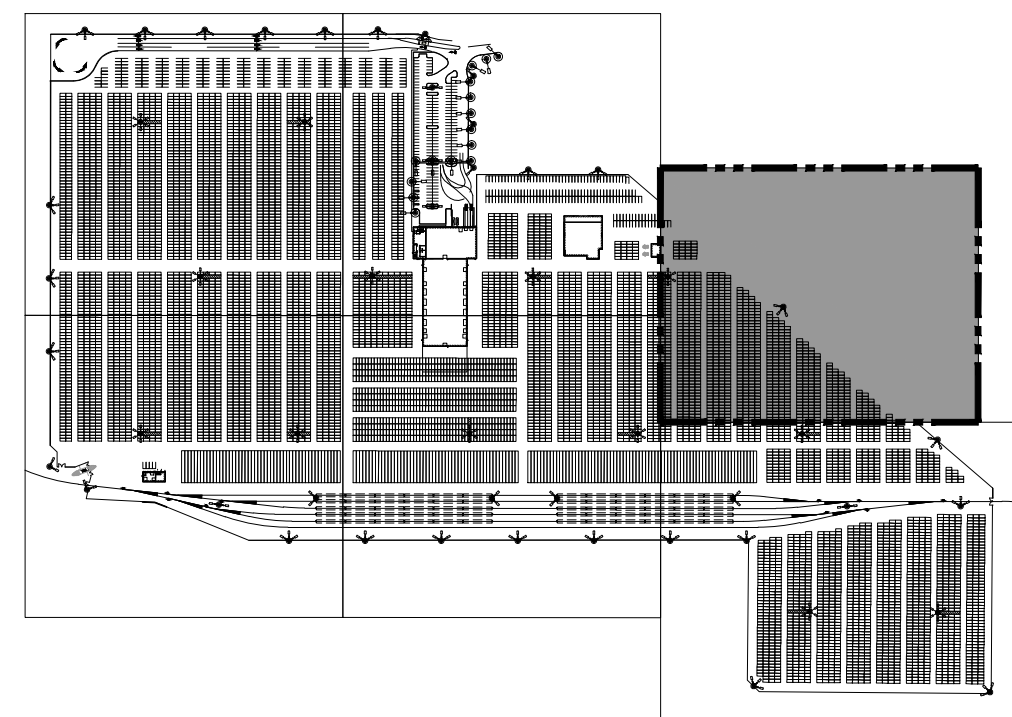
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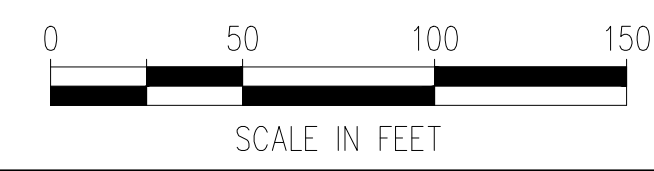
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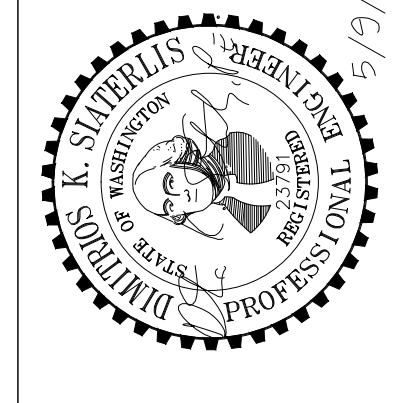
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# E1.6

125 OF 163  
 ELECTRICAL LOW VOLTAGE POWER DISTRIBUTION PLAN  
 AREA 5

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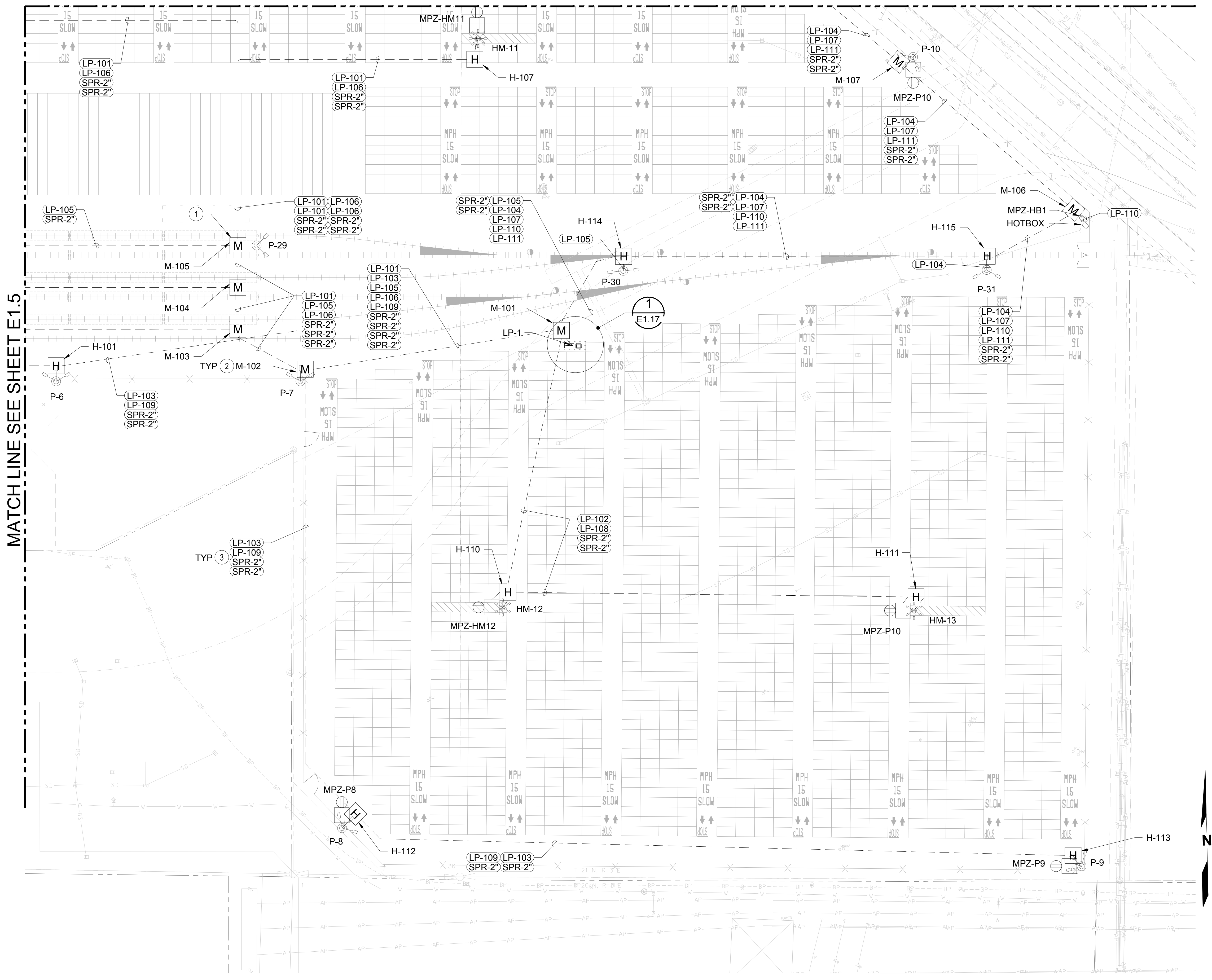
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BINDING EDGE

PORT OF TACOMA FILE: R:\56650\077\00\DWG\82-e7

MATCH LINE SEE SHEET E1.6



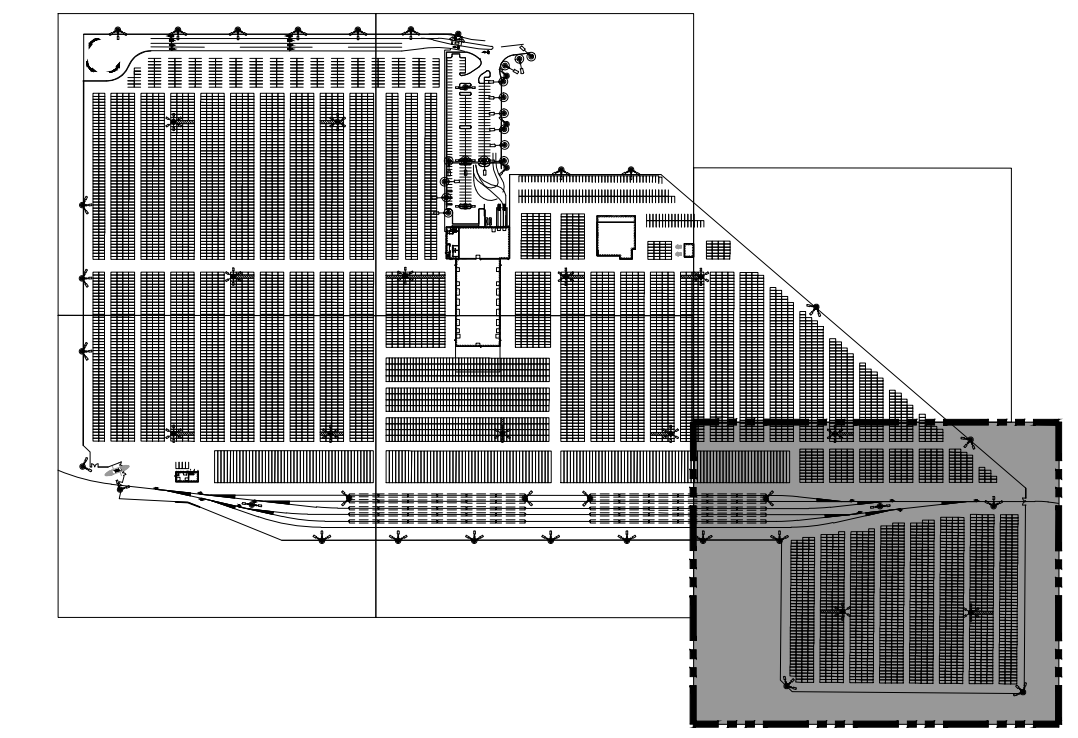
MATCH LINE SEE SHEET E1.5

### GENERAL NOTES

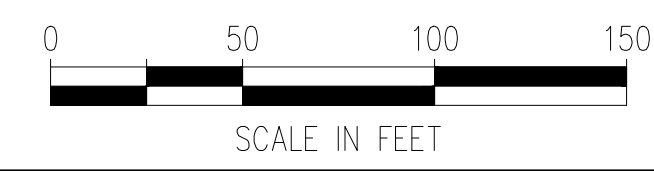
1. INCLUDE PULL ROPE IN ALL CONDUIT.
2. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
3. REFER TO SHEET E1.23 FOR CONDUIT AND CABLE SCHEDULE.
4. REFER TO CIVIL SHEETS U1.18-U1.24 FOR ALL VAULT, MANHOLE, AND POLE LOCATIONS.

### ELECTRICAL NOTES

- 1 SPLICE HIGH MAST LIGHTING AND MINI POWER ZONE CIRCUITS IN MANHOLE.
- 2 PROVIDE HANDHOLE AND POLE CONNECTION PER SHEET E1.18 DETAIL. TYPICAL ALL HANDHOLES THIS SHEET.
- 3 PROVIDE CONDUIT/DUCTBANK PER DUCTBANK DETAIL 2, SHEET E1.19. TYPICAL ALL DUCTBANKS THIS SHEET.



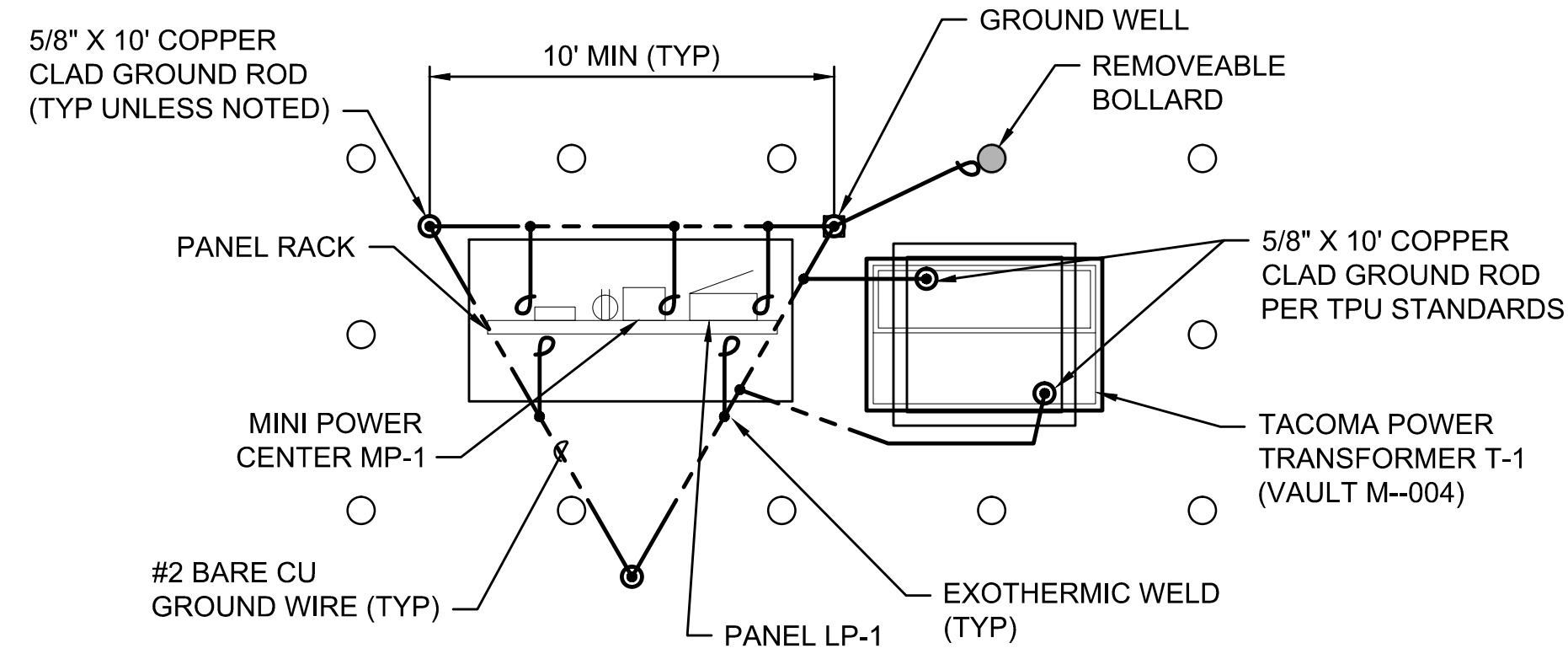
KEY PLAN  
NTS



	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	
	P.O. BOX 1837 TACOMA, WA 98401-1837	DATE:
	MARK:	REVISION:
	BY:	APPR:
	5/9/18	
	APPROVED:	DCR 5/7/18 CHECKED BY DATE DKS 5/9/18
DIRECTOR ENG. DATE PRINTED BY: Jeff May 09, 2018	PROJECT ENGR DATE PORT ADDRESS: ONE SITCUM PLAZA TACOMA WA, 98401-1837	PARCEL: MULTIPLE DRAWING SCALE: AS SHOWN
<b>E1.7</b> -126- OF 163	TOWNSHIP: 21N RANGE: 3E SECTION: 36	ELECTRICAL LOW VOLTAGE POWER DISTRIBUTION PLAN AREA 6
M. ID: 201020.01 PHASE: PRELIMINARY	DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#	PARCEL 77 AUTO IMPORT TERMINAL

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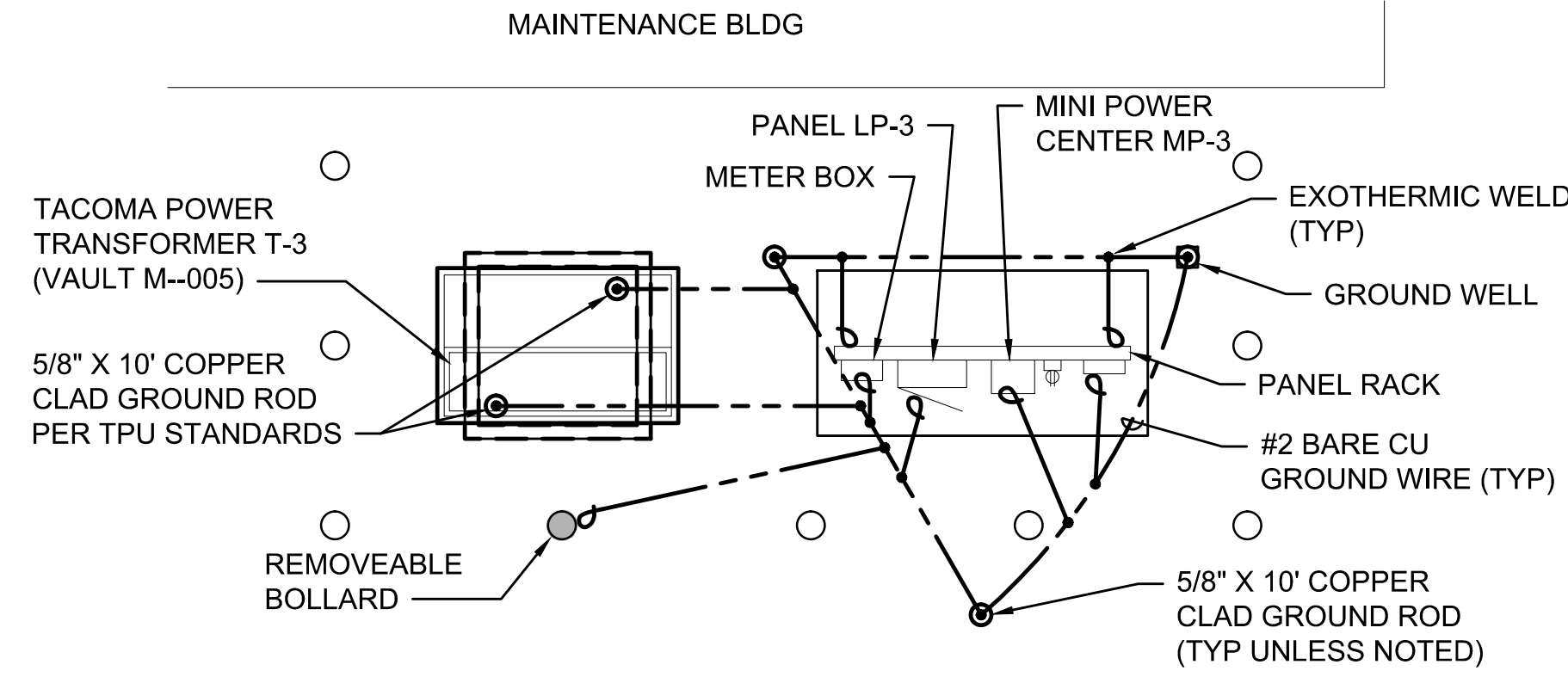




**GROUNDING PLAN ELECTRICAL SERVICE #1**

1  
E1.1 SCALE: 1/4"=1'-0"

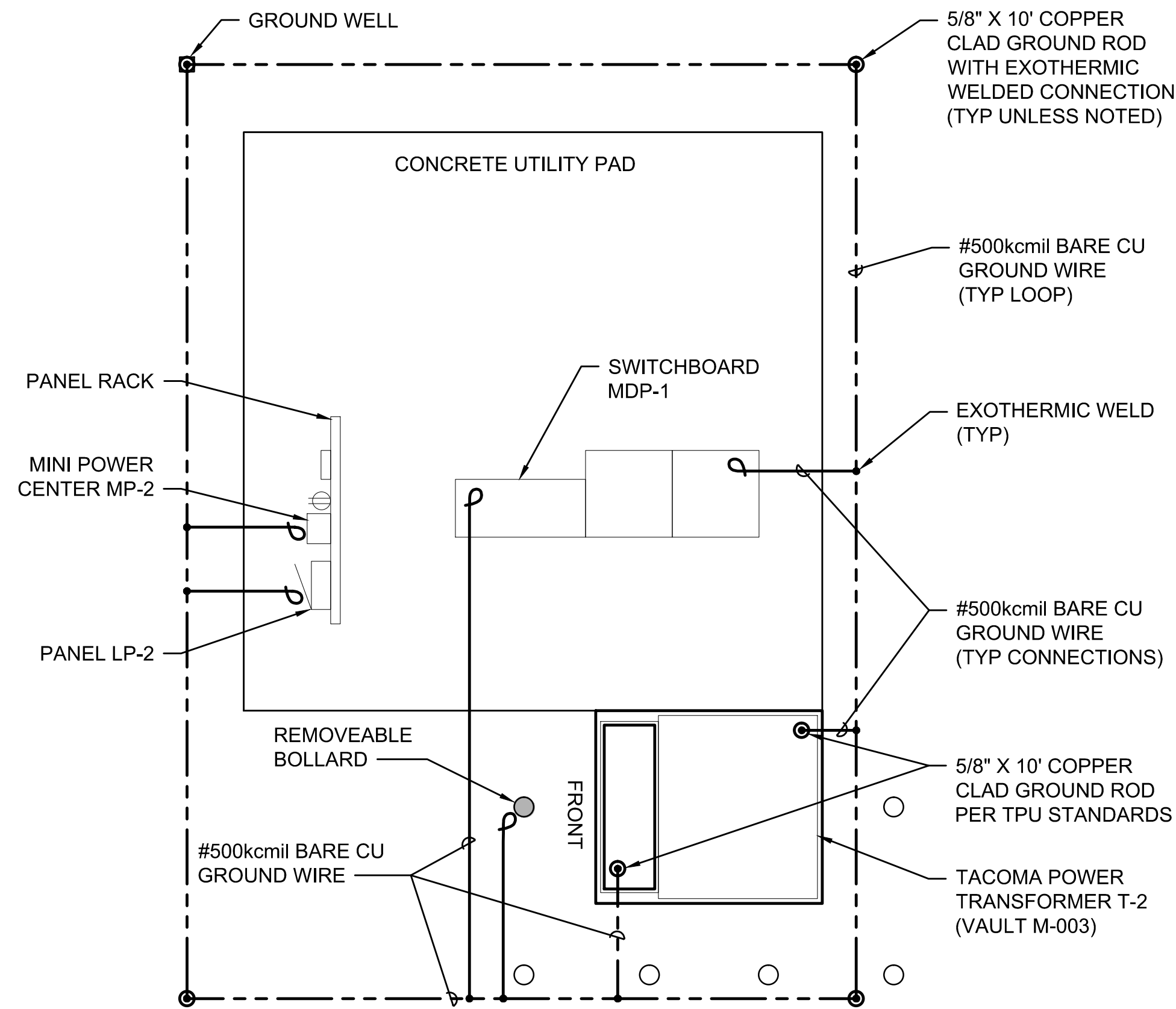
0 4 8  
scale feet



**GROUNDING PLAN ELECTRICAL SERVICE #3**

3  
E1.1 SCALE: 1/4"=1'-0"

0 4 8  
scale feet



**GROUNDING PLAN ELECTRICAL SERVICE #2**

2  
E1.1 SCALE: 1/4"=1'-0"

0 4 8  
scale feet



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Tacoma, Washington 98407  
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**kpff**

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CHECKED BY	DATE
DKS	5/9/18
DIRECTOR ENG. DATE	PROJ. ENGR DATE
Jeff May 09, 2018	
PRINTED BY:	PORT ADDRESS: ONE SITCUM PLAZA
	TACOMA WA, 98401-1837

**PARCEL 77 AUTO IMPORT TERMINAL**

ELECTRICAL GROUNDING

RANGE: 3E SECTION: 36

TOWNSHIP: 21N RANGE: 3E SECTION: 36

DATE-HRZ: W83-SF PORT OF TACOMA BM#

PARCEL: MULTIPLE DRAWING SCALE: AS SHOWN

**E1.8**

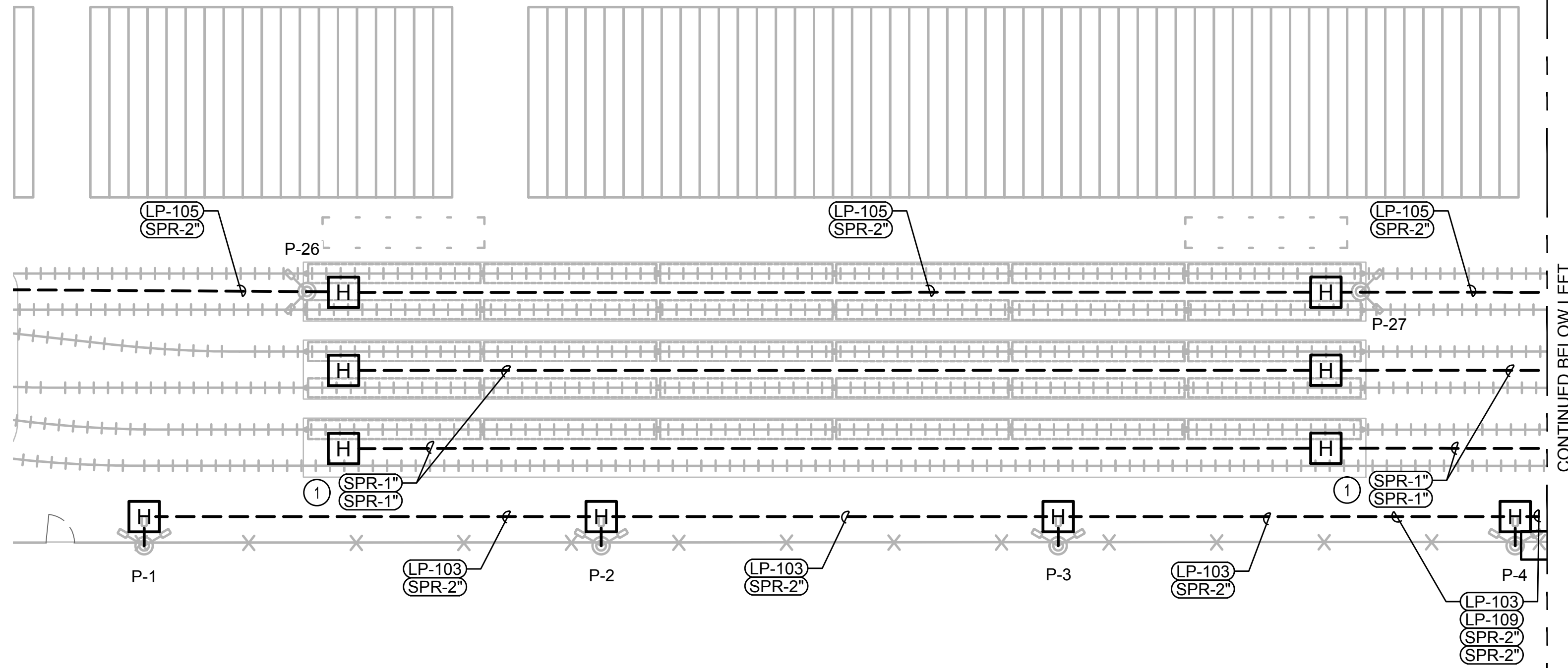
127 OF 163

CONT/CONS: 070770

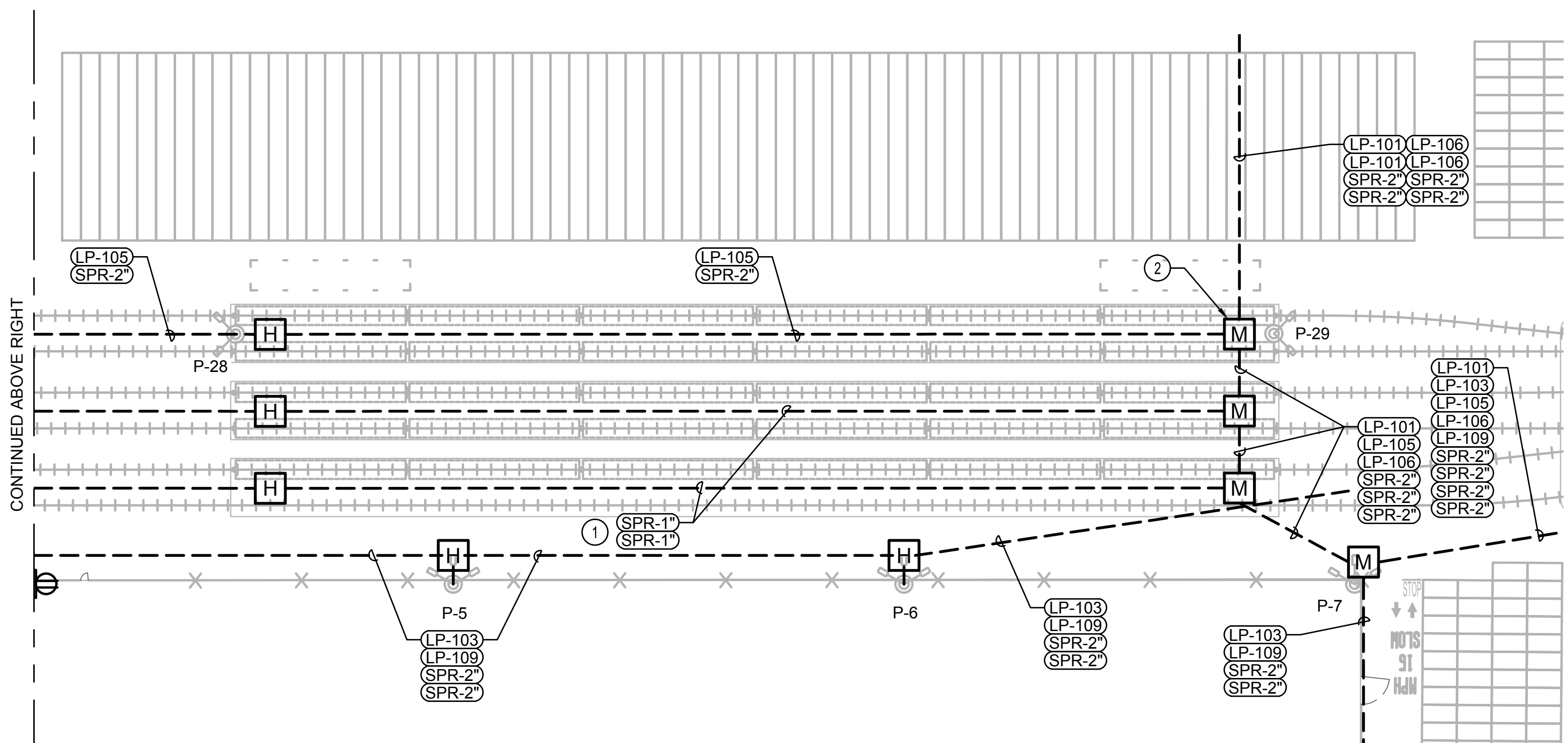
M. ID: 201020.01

PHASE: PRELIMINARY





**RAILROAD POWER AND LIGHTING PLAN**  
SCALE: 1"=50'



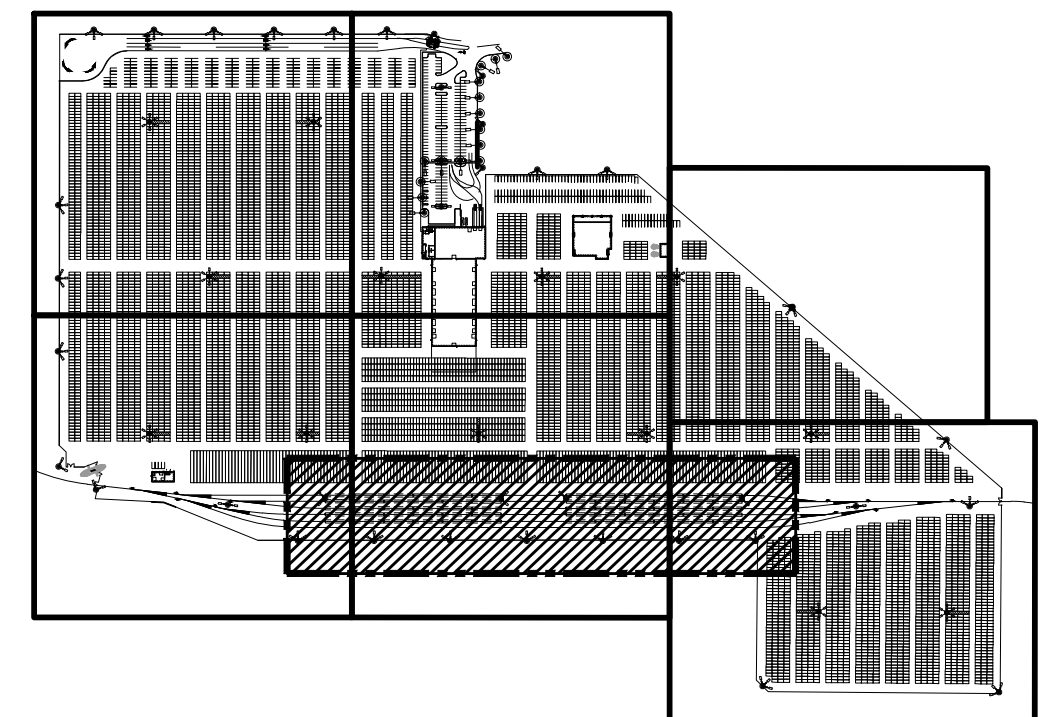
**RAILROAD POWER AND LIGHTING PLAN**  
SCALE: 1"=50'

**GENERAL NOTES**

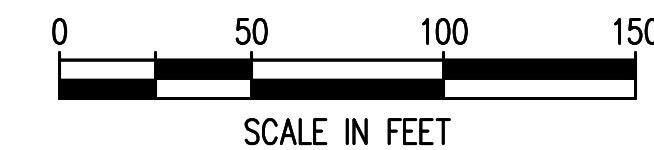
1. INCLUDE PULL ROPE IN ALL CONDUIT.
2. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
3. REFER TO SHEET E1.23 FOR CONDUIT AND CABLE SCHEDULE.

**ELECTRICAL NOTES**

- ① INSTALL SPARE CONDUITS AND MANHOLES FOR FUTURE LIGHT POLE INSTALLATIONS.
- ② SPLICE HIGH MAST LIGHTING AND MINI POWER ZONE CIRCUITS IN MANHOLE.



**KEY PLAN**  
NTS



	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	DATE: _____ APPR: _____ BY: _____
		REVISION: _____ MARK: _____
APPROVED:	DCR: 5/7/18 CHECKED BY: DKS DIRECTOR ENG. DATE: Jeff May 09, 2018 PRINTED BY: Jeff May 09, 2018 PORT ADDRESS: ONE SITCUM PLAZA TACOMA WA, 98401-1837	DATE: 5/9/18 PROJ. ENGR: JEFF MAY DATE: 5/9/18
<b>PARCEL 77 AUTO IMPORT TERMINAL</b> ELECTRICAL RAILROAD POWER AND LIGHTING PLAN		
<b>E1.9</b> 128 OF 163	TOWNSHIP: 21N RANGE: 3E SECTION: 36 DAT-HR-Z: W83-SF VERT: PORT OF TACOMA BM# PARCEL: MULTIPLE DRAWING SCALE: AS SHOWN	CONT/CONS: 070770 M. ID: 201020.01 PHASE: PRELIMINARY