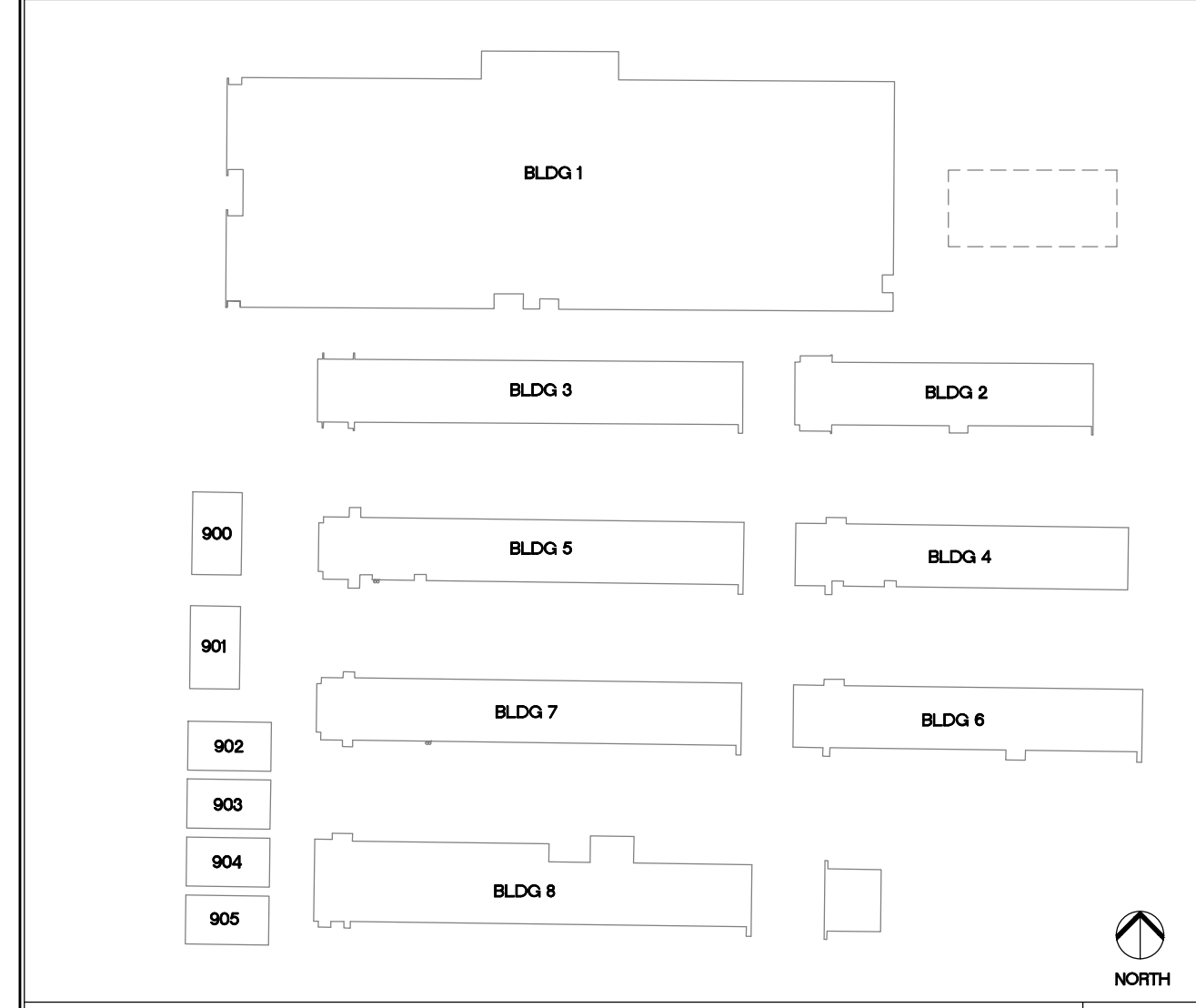


**KEYNOTES**

① DISCONNECT FEEDER TO NOTED PANEL. RECONNECT PANEL TO NEW FEEDER AS INDICATED. SEE SINGLE LINE DIAGRAM.

**TRENCHING NOTE**

LOCATIONS OF EX UNDERGROUND UTILITY AND OTHER UNDERGROUND OBSTRUCTIONS AND CONDITIONS ARE GENERALLY UNKNOWN. HIRE A UTILITY LOCATING SERVICE TO LOCATE ALL EX UNDERGROUND UTILITIES PRIOR TO DIGGING. VERIFY EXACT LOCATION SIZE AND EXTENT OF ALL OBSTRUCTIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO EX WORK, INCLUDING HAND DIGGING AROUND EX UTILITIES, TREE ROOT SYSTEMS, AND HARDSCAPE FEATURES. ANY DAMAGE TO EX UTILITIES OR STRUCTURES SHALL BE IMMEDIATELY REPAIRED OR REPLACED IN ACCORDANCE WITH THE CLIENT'S DIRECTION AT THE CONTRACTOR'S EXPENSE.



**KEYPLAN**

NTS

09/10/12

12159

E-03

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ENGINEERING, INC.  
CONSULTING ELECTRICAL ENGINEERS  
4719 PALM AVENUE  
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E-MAIL: ENGINEER@TRESD.COM

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REGISTERED PROFESSIONAL ENGINEER  
NEAL ALAGIA  
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Exp. 6-30-14  
ELECTRICAL  
STATE OF CALIFORNIA

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CAJON VALLEY UNION SCHOOL DISTRICT  
1495 GREENFIELD DRIVE  
EL CAJON, CA 92021

CONSULTANT

APPROVALS

DESCRIPTION

POWER SITE PLAN

DATE

09/10/12

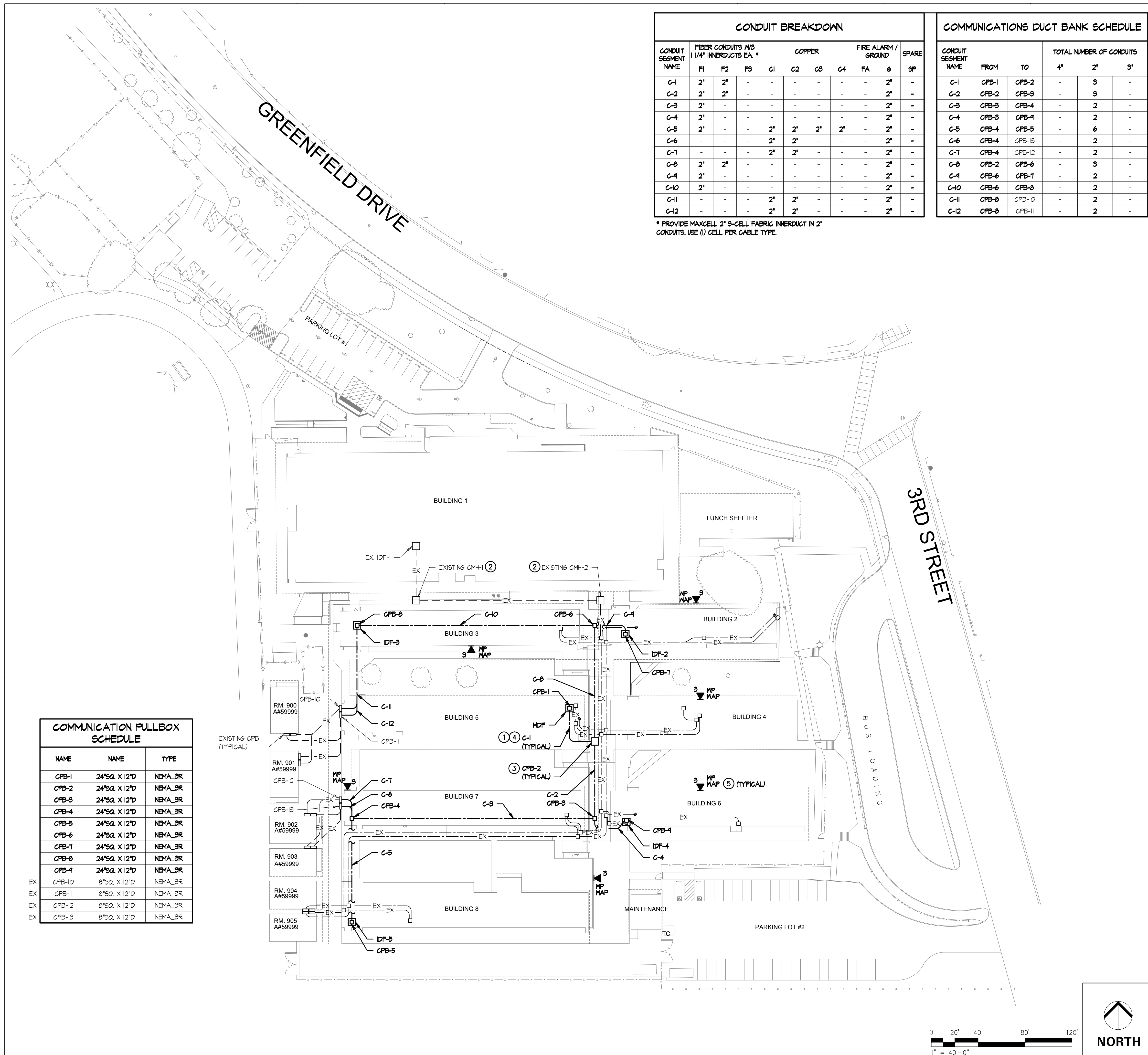
JOB #

12159

SHEET #

E-03

**SIGNAL - SITE PLAN**



CONDUIT BREAKDOWN										
CONDUIT SEGMENT NAME	FIBER CONDUITS W/ 3/4" INNERDUCTS EA. #			COPPER				FIRE ALARM / GROUND		SPARE
	F1	F2	F3	C1	C2	C3	C4	FA	6	
C-1	2"	2"	-	-	-	-	-	-	2"	-
C-2	2"	2"	-	-	-	-	-	-	2"	-
C-3	2"	-	-	-	-	-	-	-	2"	-
C-4	2"	-	-	-	-	-	-	-	2"	-
C-5	2"	-	-	2"	2"	2"	2"	-	2"	-
C-6	-	-	-	2"	2"	-	-	-	2"	-
C-7	-	-	-	2"	2"	-	-	-	2"	-
C-8	2"	2"	-	-	-	-	-	-	2"	-
C-9	2"	-	-	-	-	-	-	-	2"	-
C-10	2"	-	-	-	-	-	-	-	2"	-
C-11	-	-	-	2"	2"	-	-	-	2"	-
C-12	-	-	-	2"	2"	-	-	-	2"	-

\* PROVIDE MAXCELL 2" 3-CELL FABRIC INNERDUCT IN 2" CONDUITS. USE (1) CELL PER CABLE TYPE.

COMMUNICATIONS DUCT BANK SCHEDULE					
CONDUIT SEGMENT NAME	FROM	TO	TOTAL NUMBER OF CONDUITS		
			4"	2"	3"
C-1	CPB-1	CPB-2	-	3	-
C-2	CPB-2	CPB-3	-	3	-
C-3	CPB-3	CPB-4	-	2	-
C-4	CPB-3	CPB-4	-	2	-
C-5	CPB-4	CPB-5	-	6	-
C-6	CPB-4	CPB-13	-	2	-
C-7	CPB-4	CPB-12	-	2	-
C-8	CPB-2	CPB-6	-	3	-
C-9	CPB-6	CPB-7	-	2	-
C-10	CPB-6	CPB-8	-	2	-
C-11	CPB-8	CPB-10	-	2	-
C-12	CPB-8	CPB-11	-	2	-

- KEYNOTES**
- SEE DETAIL C/ET-5.3 FOR CABLE DISTRIBUTION.
  - SEE DETAIL F/ET-5.3 FOR LABELING REQUIREMENTS.
  - SEE DETAIL D/ET-5.3 FOR LABELING REQUIREMENTS.
  - SEE DETAIL E/ET-5.3 FOR LABELING REQUIREMENTS.
  - WIRELESS ACCESS POINT LOCATIONS SHOWN FOR REFERENCE ONLY. SEE BUILDING SIGNAL SHEETS FOR DETAILS.

**TRENCHING NOTE**

LOCATIONS OF EXISTING UNDERGROUND UTILITY AND OTHER UNDERGROUND OBSTRUCTIONS AND CONDITIONS ARE GENERALLY UNKNOWN. HIRE A UTILITY LOCATING SERVICE TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING. VERIFY EXACT LOCATION SIZE AND EXTENT OF ALL OBSTRUCTIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO EXISTING WORK, INCLUDING HAND DIGGING AROUND EXISTING UTILITIES, TREE ROOT SYSTEMS, AND HARDSCAPE FEATURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE IMMEDIATELY REPAIRED OR REPLACED IN ACCORDANCE WITH THE CLIENT'S DIRECTION AT THE CONTRACTOR'S EXPENSE.

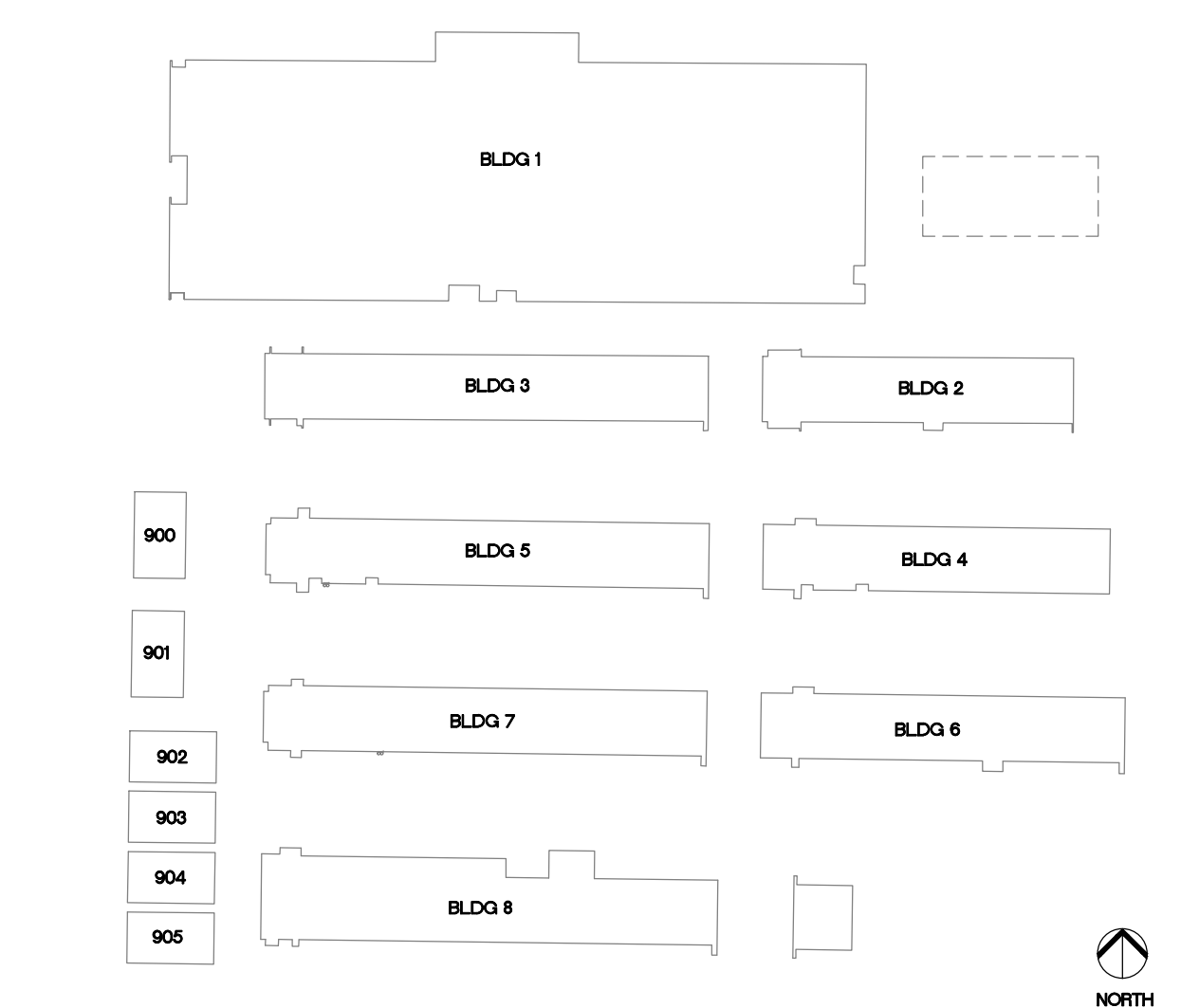
**SPECIAL NOTE**

IT IS THE INTENT OF THIS CONTRACT TO LOCATE ALL DATA OUTLETS IN THIS BUILDING AND REPLACE THE DATA OUTLETS AND CABLING WITH CATEGORY 6 JACKS AND CABLE. CONTRACTOR SHALL ALLOW FOR AN ADDITIONAL 5% FOR DATA OUTLETS NOT IDENTIFIED ON THESE PLANS AND NOTIFY THE OWNER SHOULD ADDITIONAL OUTLETS ABOVE THE 5% ALLOWANCE BE FOUND DURING CONSTRUCTION. CONTRACTORS TO DOCUMENT ALL DATA OUTLETS INSTALLED UNDER THE 5% ALLOWANCE AND REPORT TO DISTRICT. CREDIT TO THE DISTRICT SHALL BE GIVEN FOR UNINSTALLED DATA OUTLETS. ALL EXISTING VOICE OUTLETS ARE TO REMAIN IN SERVICE.

- GENERAL NOTES**
- ALL EXISTING SYSTEMS NOT UPGRADED UNDER THIS CONTRACT TO REMAIN OPERATIONAL DURING CONSTRUCTION.
  - REMOVE ALL DISCONNECTED CABLING BACK TO SOURCE. NO CABLES ARE TO BE ABANDONED IN PLACE.
  - SEE DEMOLITION RISER SHEETS ET-1.0, ET-1.1, & ET-1.2
  - PROVIDE NEW PATHWAYS FOR FIBER U.O.N
  - CONTRACTOR TO VERIFY EXISTING PATHWAYS CAN BE RE-USED FOR HORIZONTAL DISTRIBUTION.

**COMMUNICATION PULLBOX SCHEDULE**

NAME	NAME	TYPE
CPB-1	24"SQ. X 12"D	NEMA_3R
CPB-2	24"SQ. X 12"D	NEMA_3R
CPB-3	24"SQ. X 12"D	NEMA_3R
CPB-4	24"SQ. X 12"D	NEMA_3R
CPB-5	24"SQ. X 12"D	NEMA_3R
CPB-6	24"SQ. X 12"D	NEMA_3R
CPB-7	24"SQ. X 12"D	NEMA_3R
CPB-8	24"SQ. X 12"D	NEMA_3R
CPB-9	24"SQ. X 12"D	NEMA_3R
EX CPB-10	18"SQ. X 12"D	NEMA_3R
EX CPB-11	18"SQ. X 12"D	NEMA_3R
EX CPB-12	18"SQ. X 12"D	NEMA_3R
EX CPB-13	18"SQ. X 12"D	NEMA_3R



**KEYPLAN** NTS

09/10/12

**JOB #** 12159

**SHEET #** E-04

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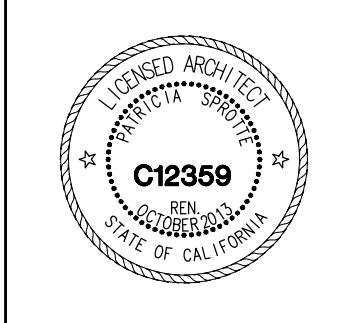
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CONSULTANT

APPROVALS

DESCRIPTION

SIGNAL SITE PLAN

DATE

09/10/12

JOB #

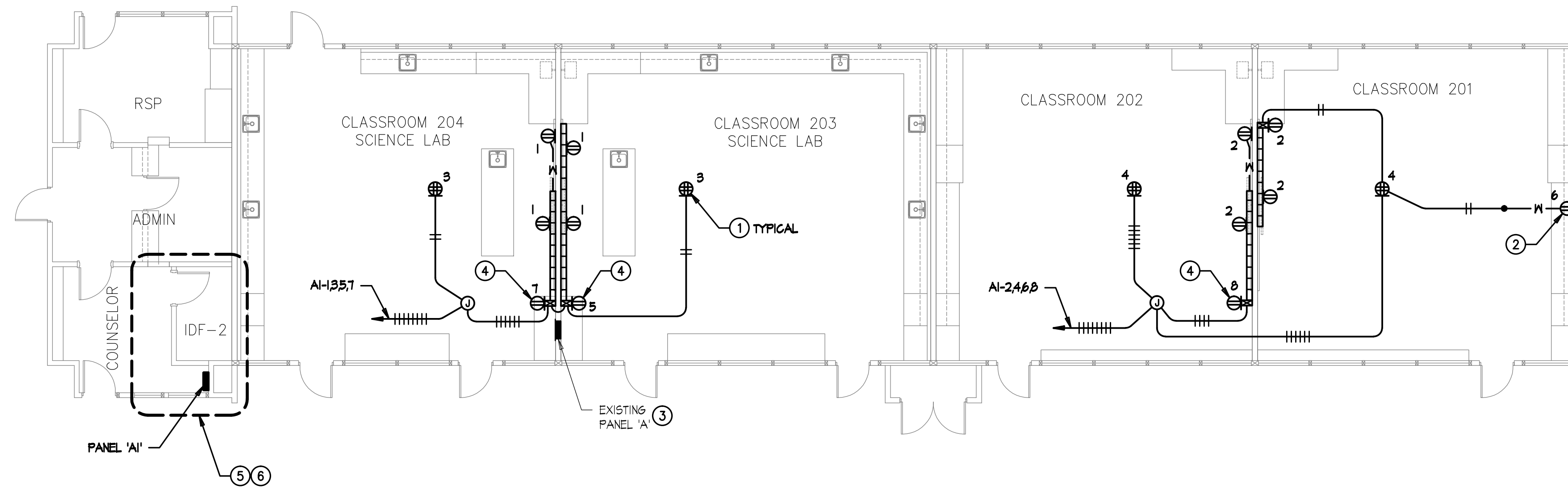
12159

SHEET #

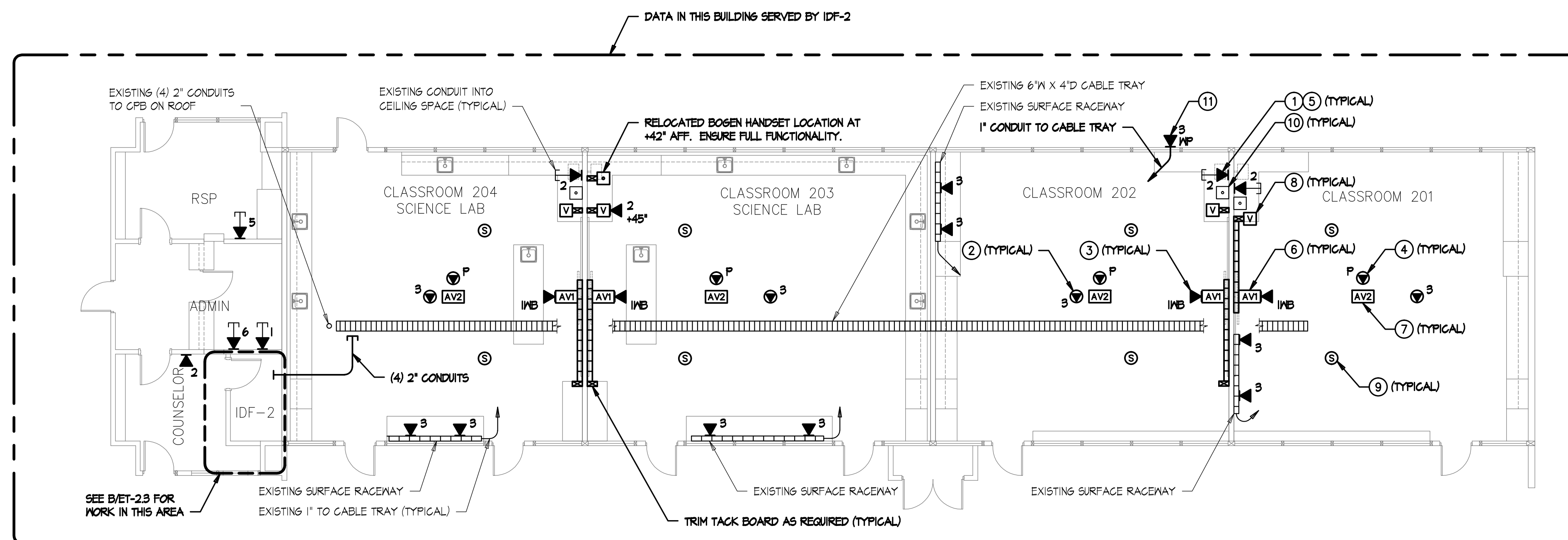
E-04

SIGNAL - SITE PLAN





**BUILDING 2 - POWER PLAN**



**BUILDING 2 - SIGNAL PLAN**

**POWER PLAN KEYNOTES**

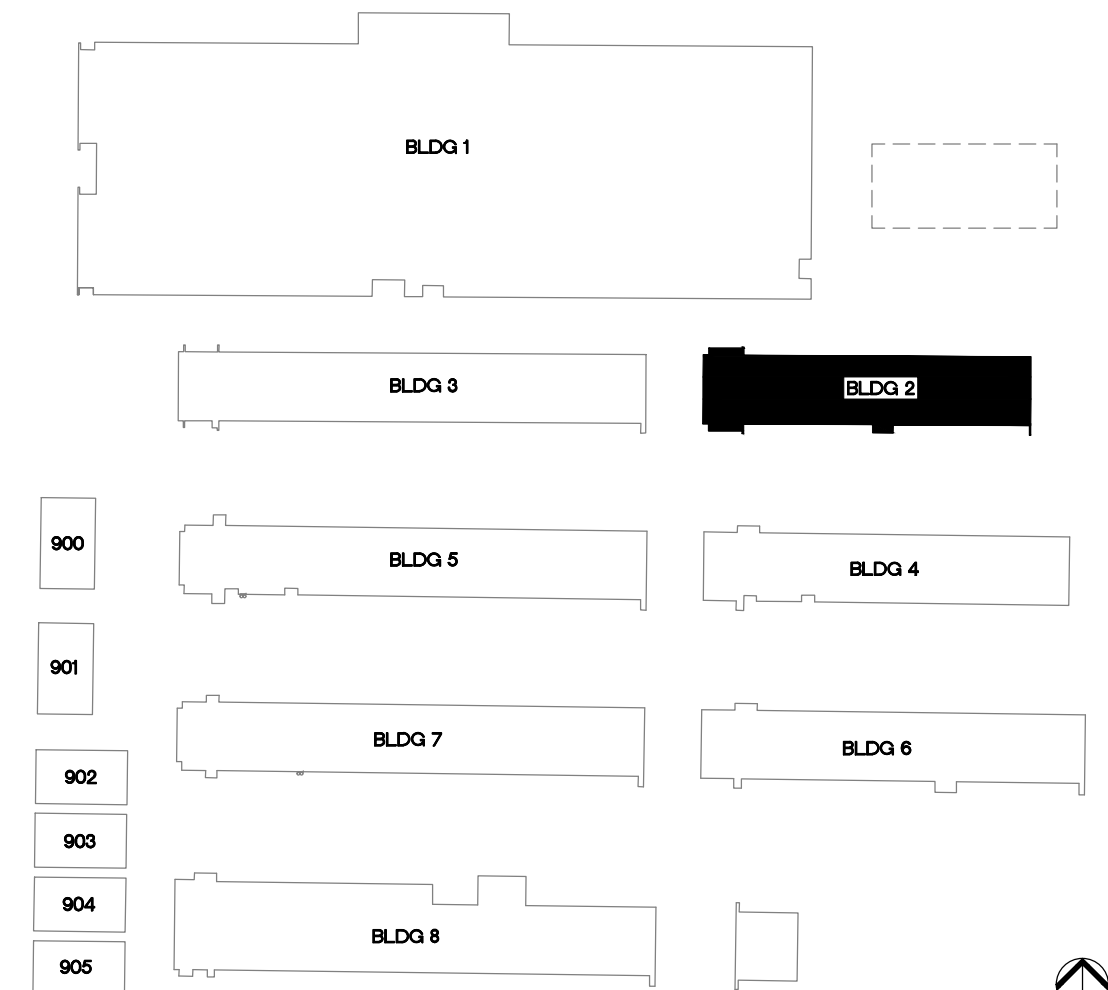
- 1 MOUNT DOUBLE DUPLEX RECEPTACLE IN CEILING TILE FOR CEILING MOUNTED PROJECTOR AND AV POWER SUPPLY.
- 2 PROVIDE RECEPTACLE MOUNTED AT +18" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT. USE WIREMOLD 2800 DROP FROM CEILING WITH ASSOCIATED CONDUIT TRANSITION FITTINGS. PROVIDE FURRING AS REQUIRED.
- 3 SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.
- 4 PROVIDE RECEPTACLE MOUNTED AT +30" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT.
- 5 PROVIDE NEW POWER OUTLETS FOR IDF-2. SEE E-11.0 AND E-11.3 FOR ADDITIONAL POWER AND LIGHTING WORK IN THIS AREA.
- 6 SEE EF-11J FOR FIRE ALARM WORK IN THIS AREA.

**SIGNAL PLAN KEYNOTES**

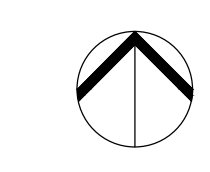
- 1 CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- 2 CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- 3 (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18" AFF. SEE DETAIL A/ET-5.5.
- 4 (1) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE DETAIL B/ET-5.5.
- 5 SEE DETAIL A/B/ET-5.3 FOR LABELING REQUIREMENTS.
- 6 AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +18" AFF. PROVIDE EXTRON 2-6ANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- 7 AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- 8 AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- 9 AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- 10 EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- 11 DATA OUTLET WITHIN WEATHER PROOF ENCLOSURE FOR EXTERIOR WIRELESS ACCESS POINT. COORDINATE MOUNTING HEIGHT/LOCATION WITH WIRELESS ACCESS POINT INSTALLER.

**GENERAL NOTES (SIGNAL)**

1. SEE DATA RISER DIAGRAM ON ET-1.2 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'L-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



**KEYPLAN**



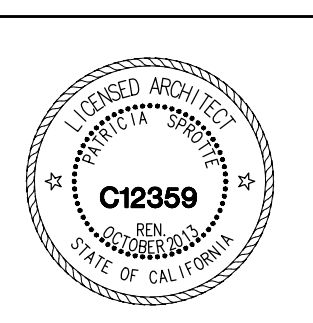
**NORTH**

1/8" = 1'-0"

**TURPIN & RATTAN**  
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4719 PALM AVENUE  
LA MESA, CA 91941-5221  
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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER  
**BICSI**  
EXPIRES 12/31/13  
Regis. No. 081432



CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING 2 POWER AND SIGNAL PLANS**

DATE

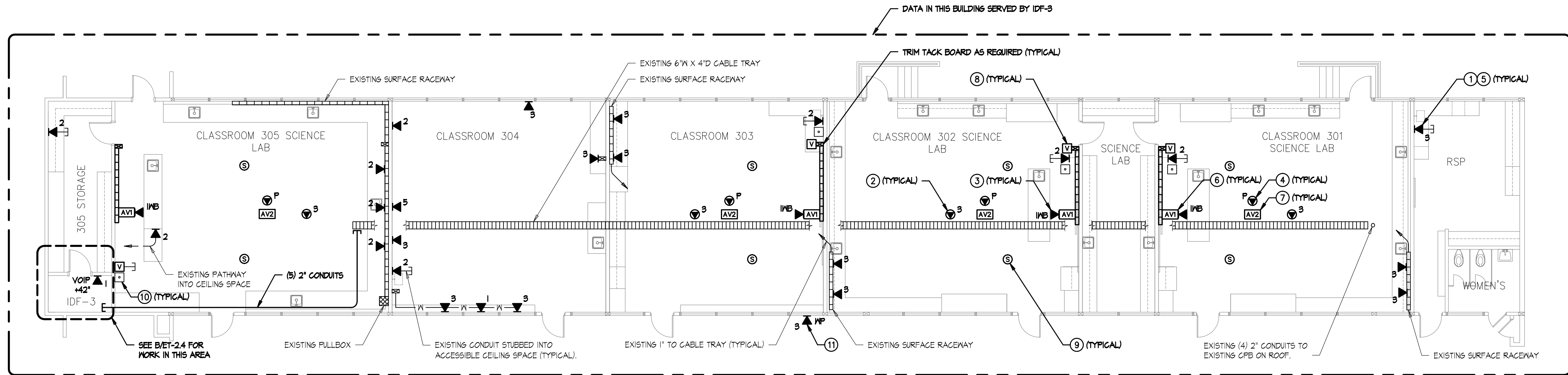
09/10/12

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SHEET #

**E-11**

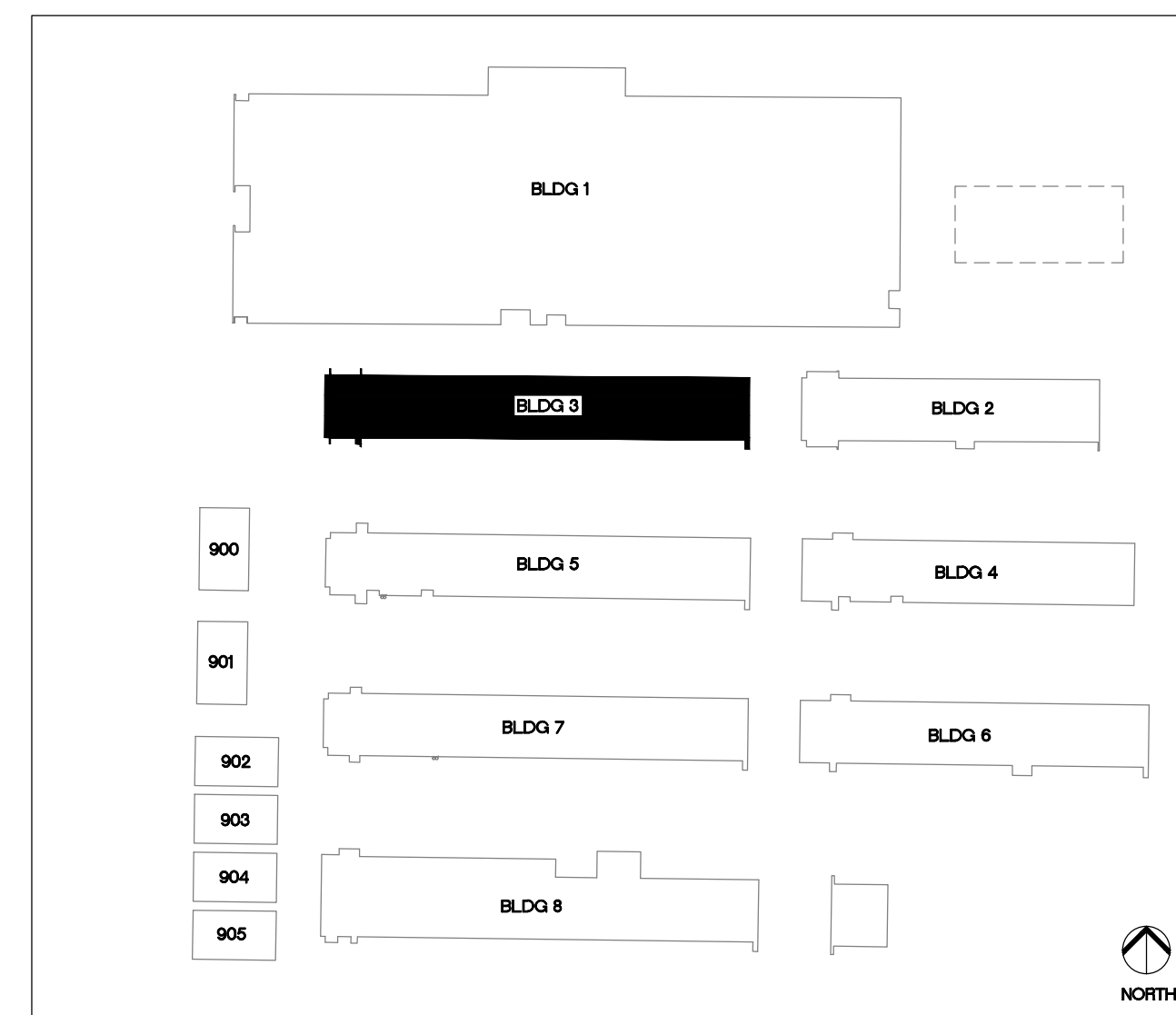


**SIGNAL PLAN KEYNOTES**

- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
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- ⑤ SEE DETAIL A/B/ET-5.3 FOR LABELING REQUIREMENTS.
- ⑥ AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +18" AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- ⑪ DATA OUTLET WITHIN WEATHER PROOF ENCLOSURE FOR EXTERIOR WIRELESS ACCESS POINT. COORDINATE MOUNTING HEIGHT/LOCATION WITH WIRELESS ACCESS POINT INSTALLER.

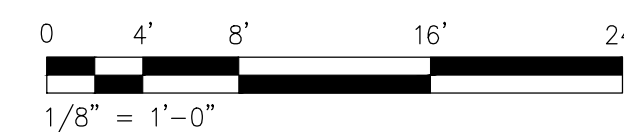
**GENERAL NOTES**

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2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.

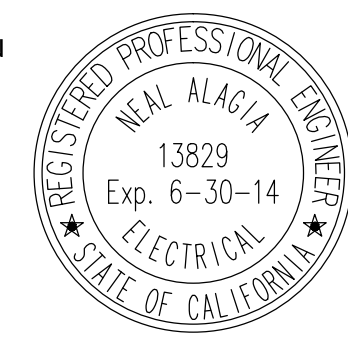


KEYPLAN

NTS

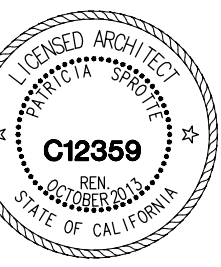


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Regis. No. 081432

**BUILDING 3 - SIGNAL PLAN**



CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING 3  
SIGNAL PLAN**

DATE

09/10/12

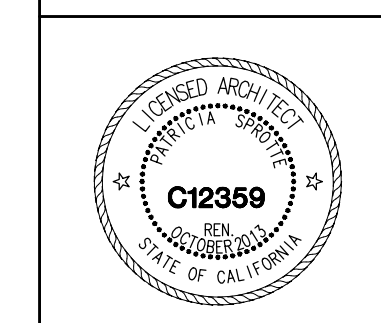
JOB #

12159

SHEET #

E-22





CONSULTANT

APPROVALS

DESCRIPTION

BUILDING 5  
SIGNAL PLAN

DATE

09/10/12

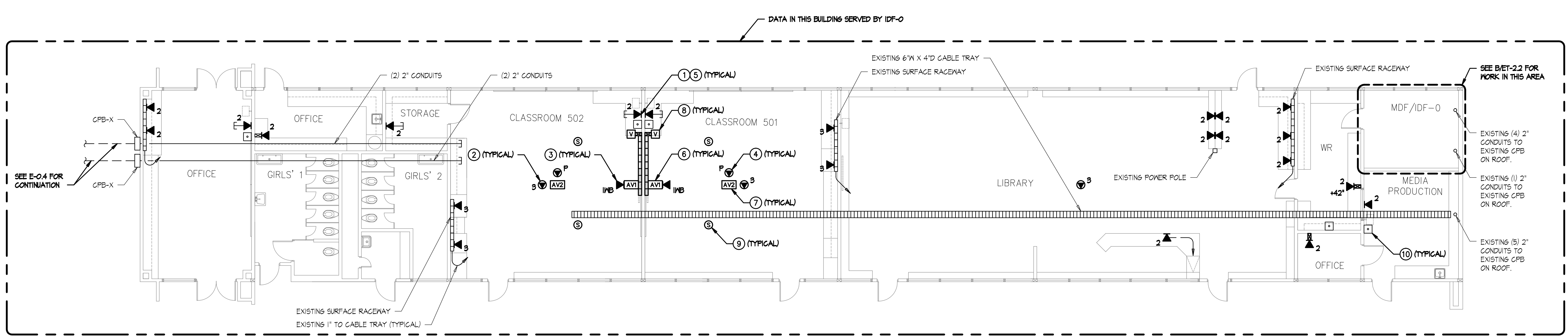
JOB #

12159

SHEET #

E-4.2

NTS

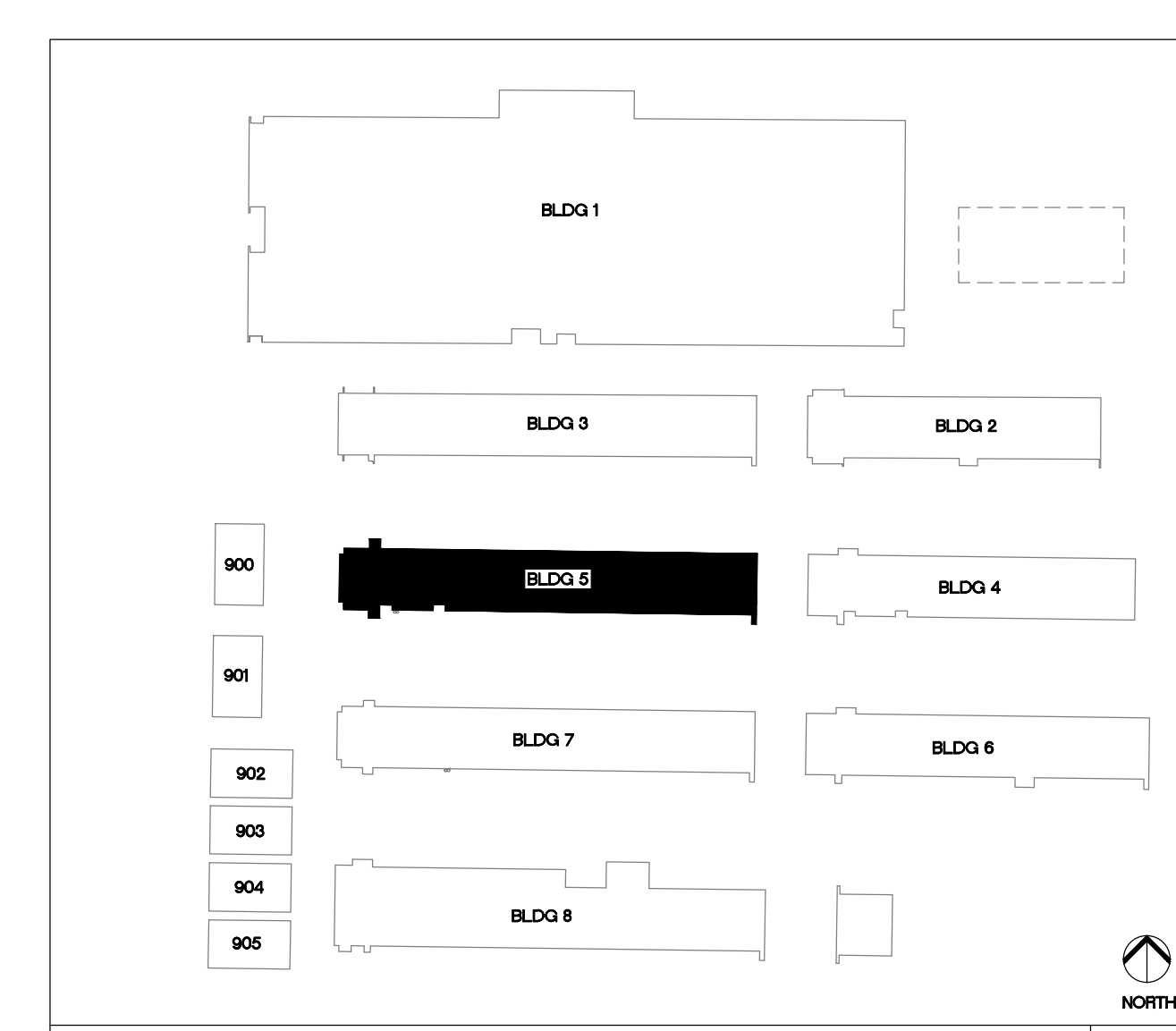


**SIGNAL PLAN KEYNOTES**

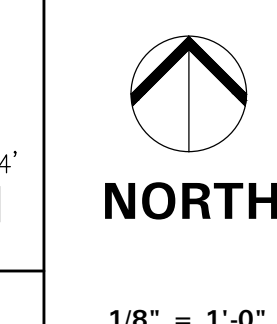
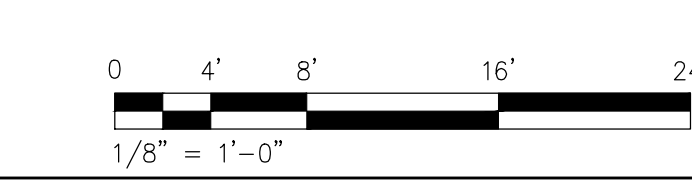
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- 2 CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- 3 (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +10' AFF. SEE DETAIL A/ET-5.5.
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- 6 AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +10' AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- 7 AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- 8 AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45' AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- 9 AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- 10 EXISTING PHONE (BOGEN HANDSET), TO REMAIN.

**GENERAL NOTES**

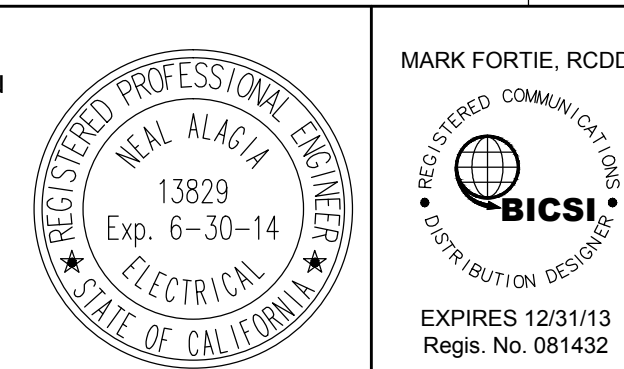
1. SEE DATA RISER DIAGRAM ON ET-1.2 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



KEYPLAN

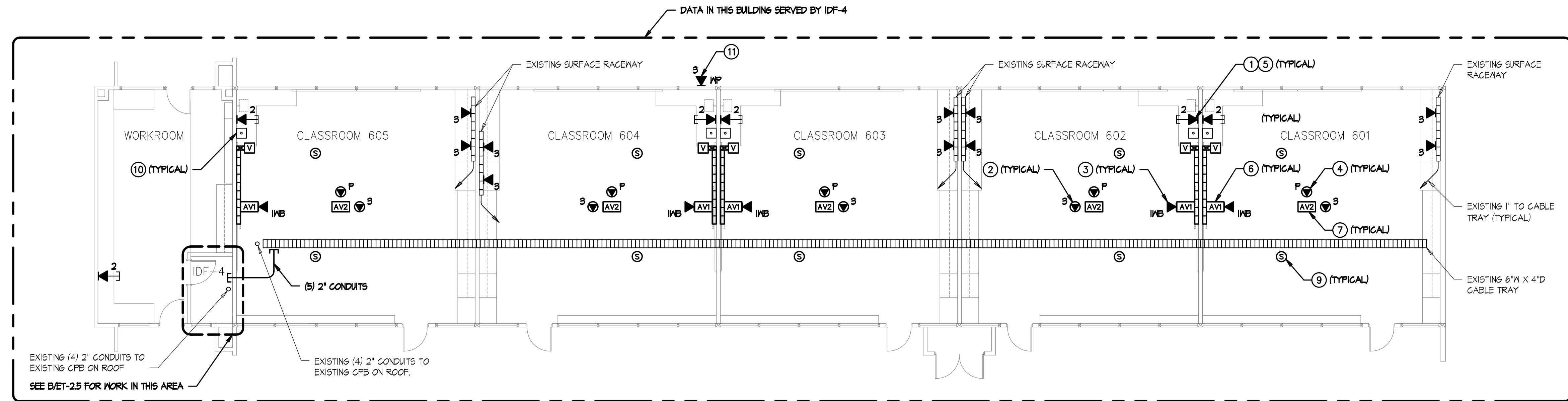


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MARK FORTIE, RCDD  
REGISTERED COMMUNITY DESIGNER  
**BICSI**  
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Regis. No. 081432

**BUILDING 5 - SIGNAL PLAN**

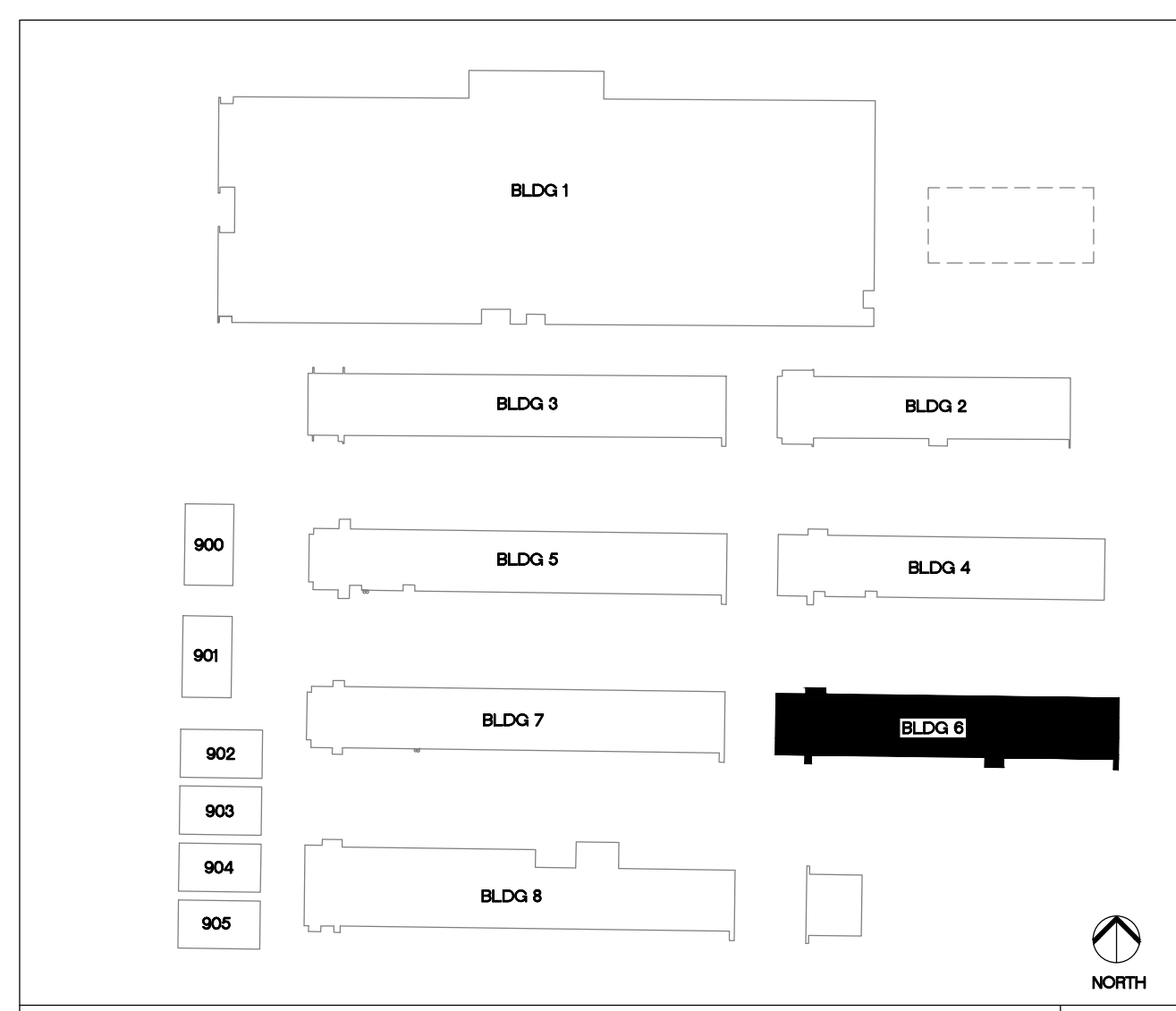


**SIGNAL PLAN KEYNOTES**

- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +10' AFF. SEE DETAIL A/ET-5.5.
- ④ (I) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE DETAIL B/ET-5.5.
- ⑤ SEE DETAIL A/B/ET-5.5 FOR LABELING REQUIREMENTS.
- ⑥ AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +10' AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45' AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- ⑪ DATA OUTLET WITHIN WEATHER PROOF ENCLOSURE FOR EXTERIOR WIRELESS ACCESS POINT. COORDINATE MOUNTING HEIGHT/LOCATION WITH WIRELESS ACCESS POINT INSTALLER.

**GENERAL NOTES**

- 1. SEE DATA RISER DIAGRAM ON ET-1.3 FOR CABLING DETAILS.
- 2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



KEYPLAN

**NORTH**

1/8" = 1'-0"

0 4' 8' 16' 24'

1/8" = 1'-0"

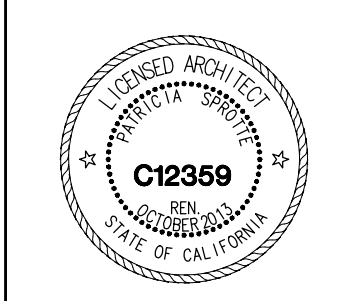
**TURPIN & RATTAN**  
ENGINEERING, INC.  
CONSULTING ELECTRICAL ENGINEERS  
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619-466-1622 FAX 619-466-1623  
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**TREI # 12159**  
V.PHATHANAK 09/10/12 - 5:49PM

REGISTERED PROFESSIONAL ENGINEER  
**NEAL ALACIA**  
13829  
Exp. 6-30-14  
ELECTRICAL  
STATE OF CALIFORNIA

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EXPIRES 12/31/13  
Regis. No. 081432

MARK FORTIE, RCDD

**BUILDING 6 - SIGNAL PLAN**



CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING 6  
SIGNAL PLAN**

DATE

09/10/12

JOB #

12159

SHEET #

**E-5.2**



CONSULTANT

APPROVALS

DESCRIPTION

BUILDING 7  
SIGNAL PLAN

DATE

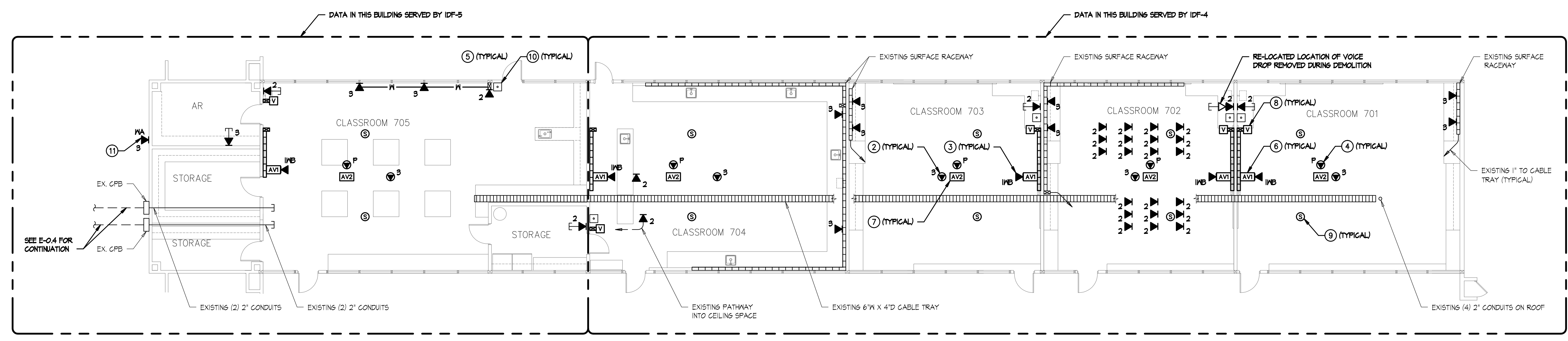
09/10/12

JOB #

12159

SHEET #

E-6.2

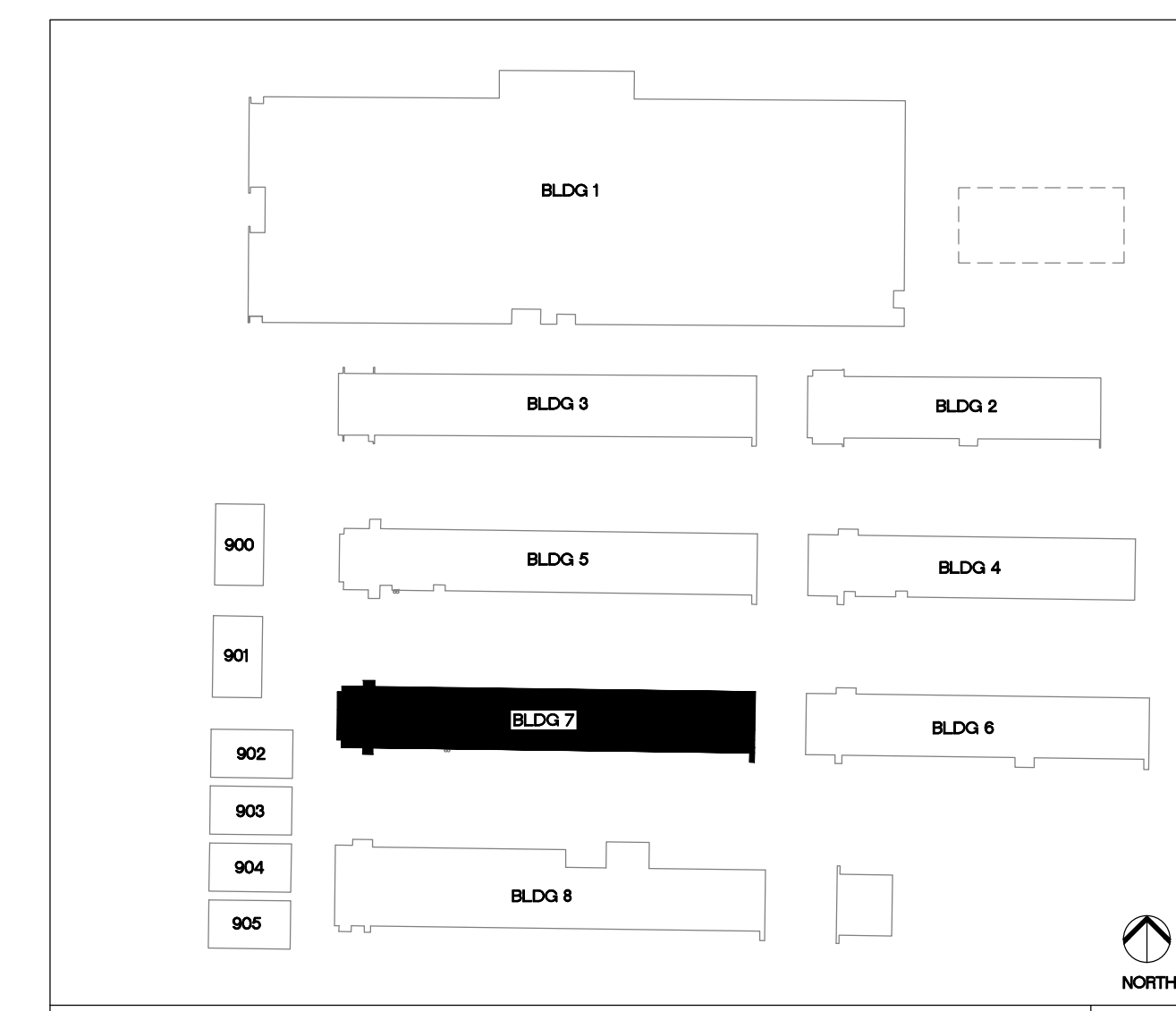


**SIGNAL PLAN KEYNOTES**

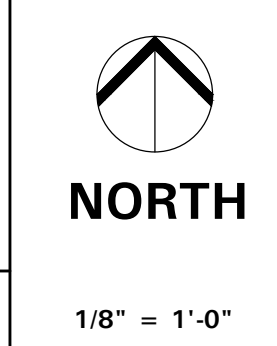
- 1 CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- 2 CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- 3 (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +10" AFF. SEE DETAIL A/ET-5.5.
- 4 (I) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE DETAIL B/ET-5.5.
- 5 SEE DETAIL A/B/ET-5.5 FOR LABELING REQUIREMENTS.
- 6 AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +10" AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- 7 AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- 8 AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- 9 AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- 10 EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- 11 DATA OUTLET WITHIN WEATHER PROOF ENCLOSURE FOR EXTERIOR WIRELESS ACCESS POINT. COORDINATE MOUNTING HEIGHT/LOCATION WITH WIRELESS ACCESS POINT INSTALLER.

**GENERAL NOTES**

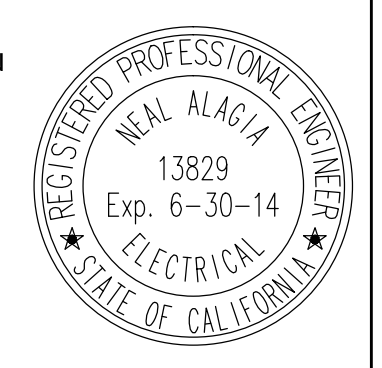
1. SEE DATA RISER DIAGRAM ON ET-1.3 AND ET-1.4 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



KEYPLAN

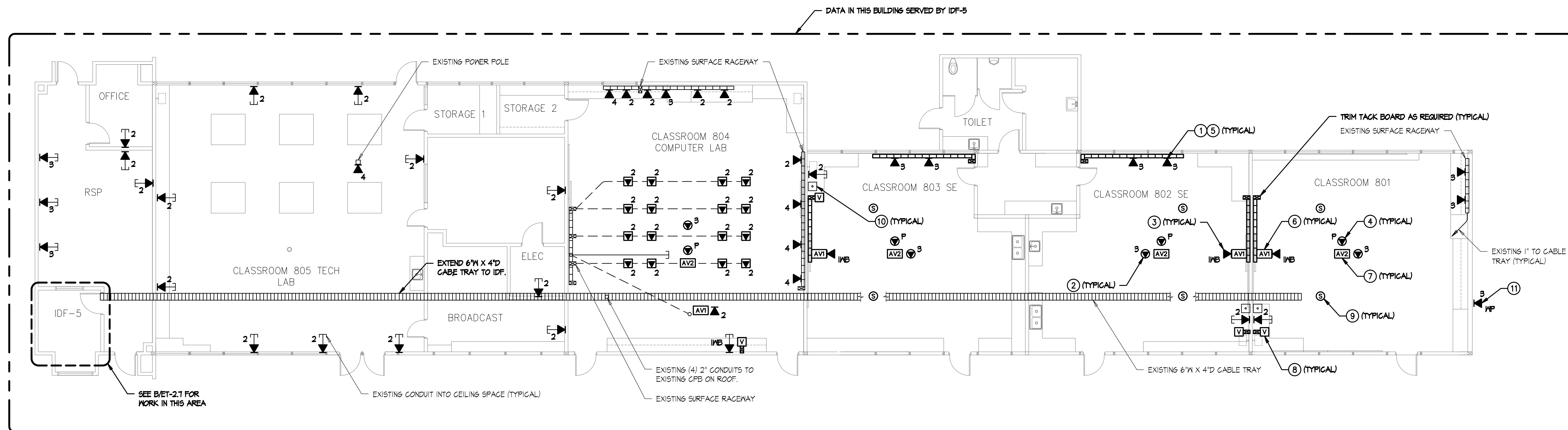


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MARK FORTIE, RCDD  
REGISTERED COMMUNICATIONS DESIGNER  
**BICSI**  
EXPIRES 12/31/13  
Regis. No. 081432

**BUILDING 7 - SIGNAL PLAN**

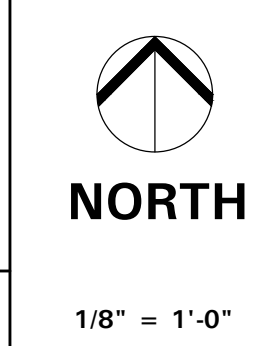
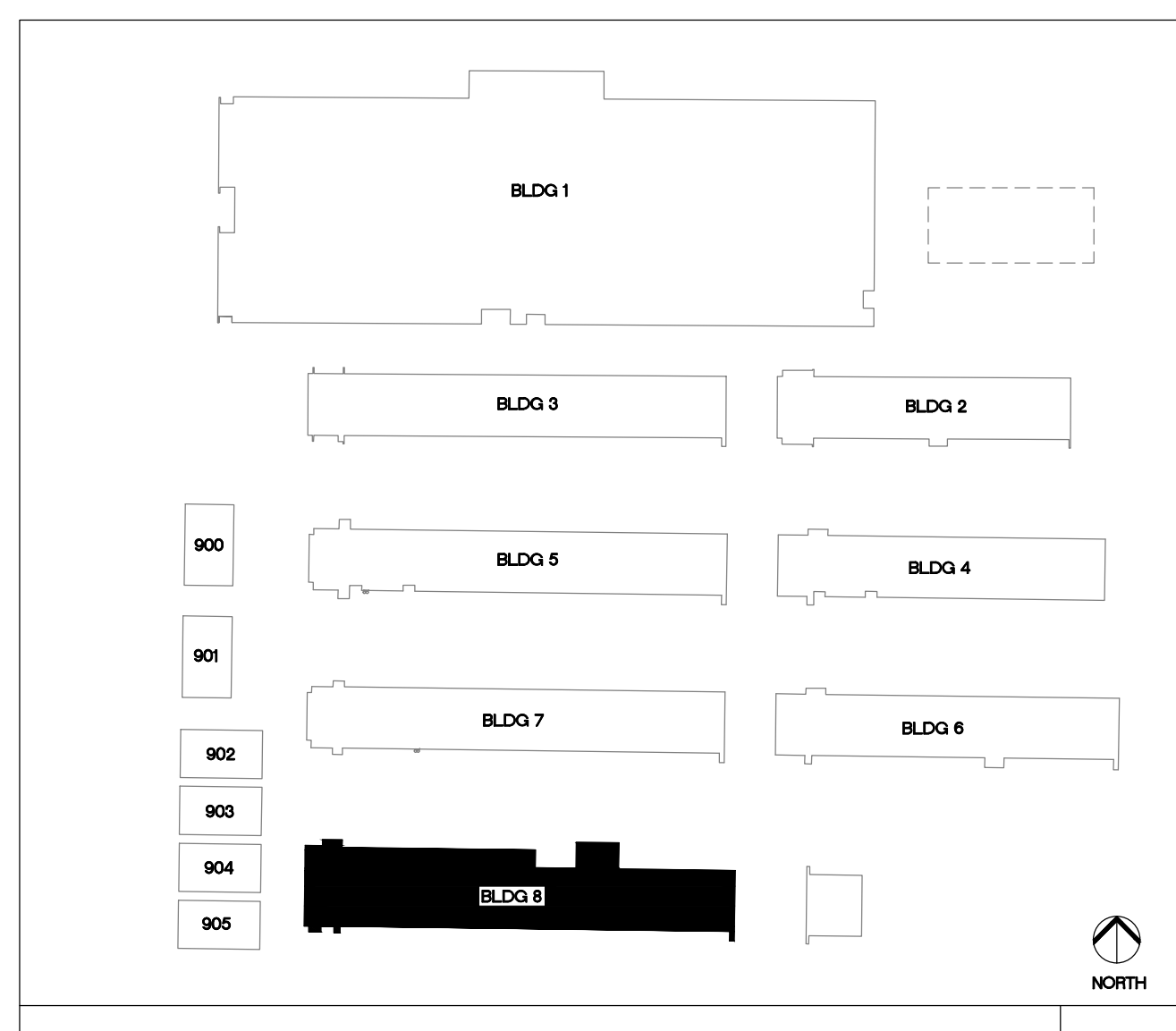


**SIGNAL PLAN KEYNOTES**

- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +10" AFF. SEE DETAIL A/ET-5.5.
- ④ (I) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE DETAIL B/ET-5.5.
- ⑤ SEE DETAIL A/B/ET-5.5 FOR LABELING REQUIREMENTS.
- ⑥ AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +10" AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- ⑪ DATA OUTLET WITHIN WEATHER PROOF ENCLOSURE FOR EXTERIOR WIRELESS ACCESS POINT. COORDINATE MOUNTING HEIGHT/LOCATION WITH WIRELESS ACCESS POINT INSTALLER.

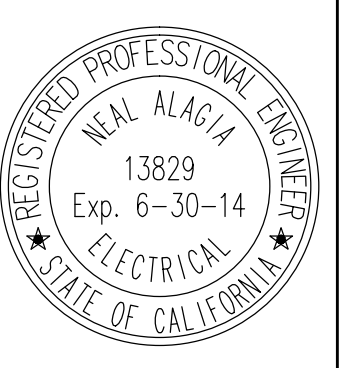
**GENERAL NOTES**

- 1. SEE DATA RISER DIAGRAM ON ET-1.4 FOR CABLING DETAILS.
- 2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



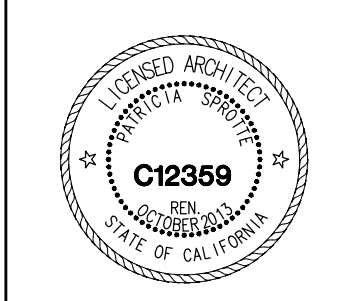
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EXPIRES 12/31/13  
Regis. No. 081432

**BUILDING 8 - SIGNAL PLAN**



CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING 8 SIGNAL PLAN**

DATE

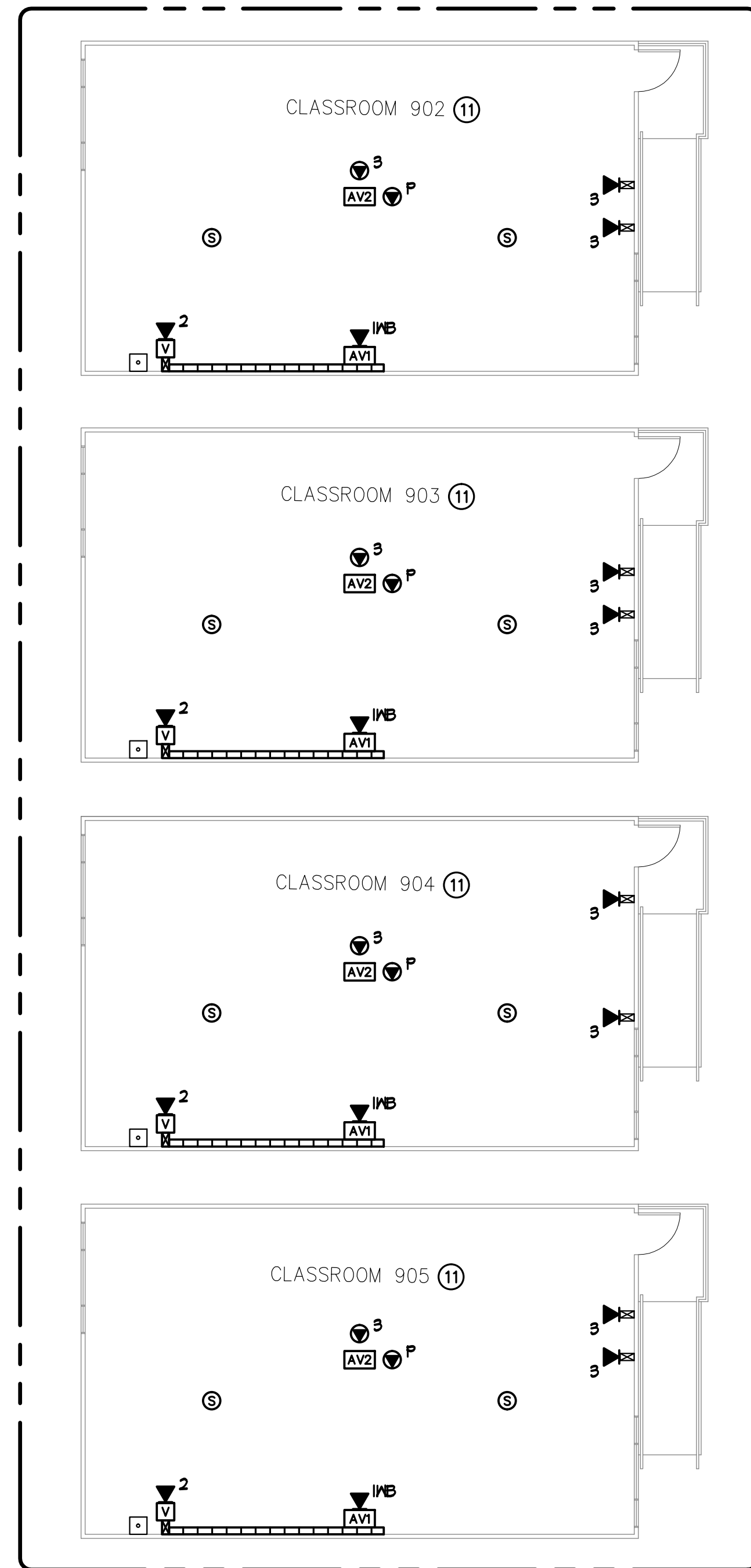
09/10/12

JOB #

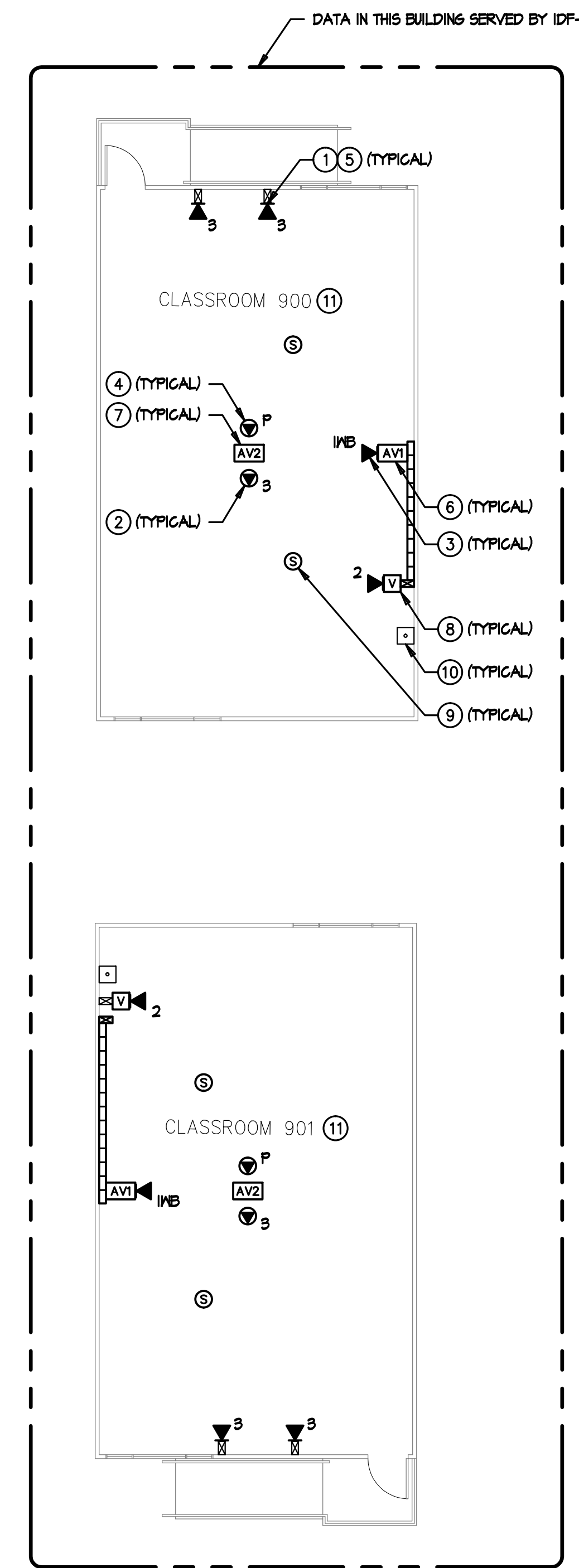
12159

SHEET #

**E-72**



DATA IN THIS BUILDING SERVED BY IDF-5



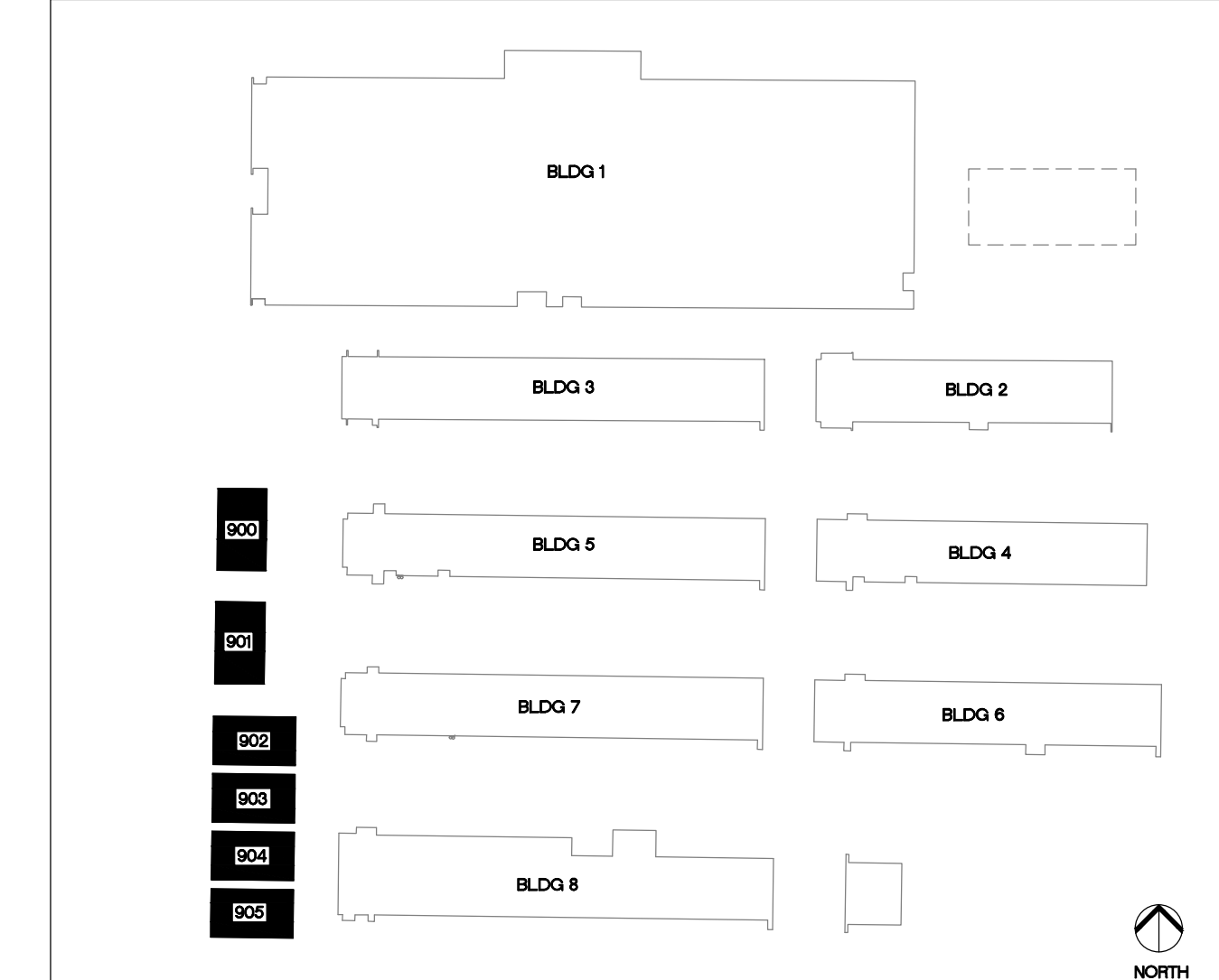
DATA IN THIS BUILDING SERVED BY IDF-3

**SIGNAL PLAN KEYNOTES**

- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18" AFF. SEE DETAIL A/ET-5.5.
- ④ (I) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE.
- ⑤ SEE DETAIL A/B/ET-5.3 FOR LABELING REQUIREMENTS.
- ⑥ AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +18" AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- ⑪ SEE DETAIL A/ET-5.2 FOR TYPICAL CLASSROOM WITH OSP CABLE.

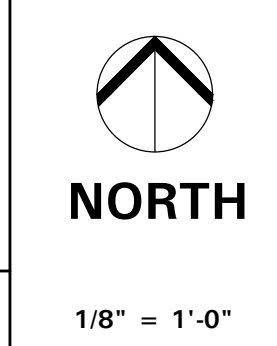
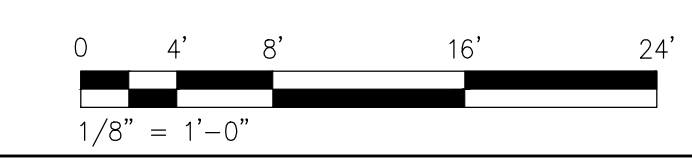
**GENERAL NOTES (SIGNAL)**

- 1. SEE DATA RISER DIAGRAM ON ET-1.2 AND ET-1.4 FOR CABLING DETAILS.
- 2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'L-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.

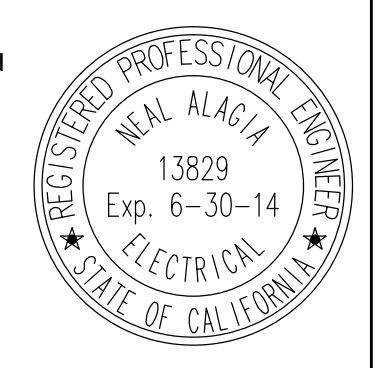


**KEYPLAN**

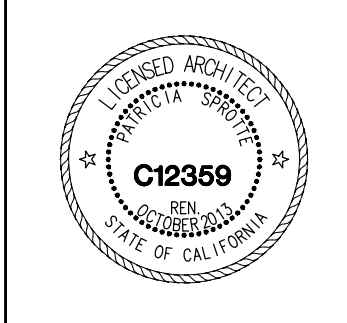
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CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING PORTABLE SIGNAL PLAN**

DATE

09/10/12

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12159

SHEET #

**E-8.2**