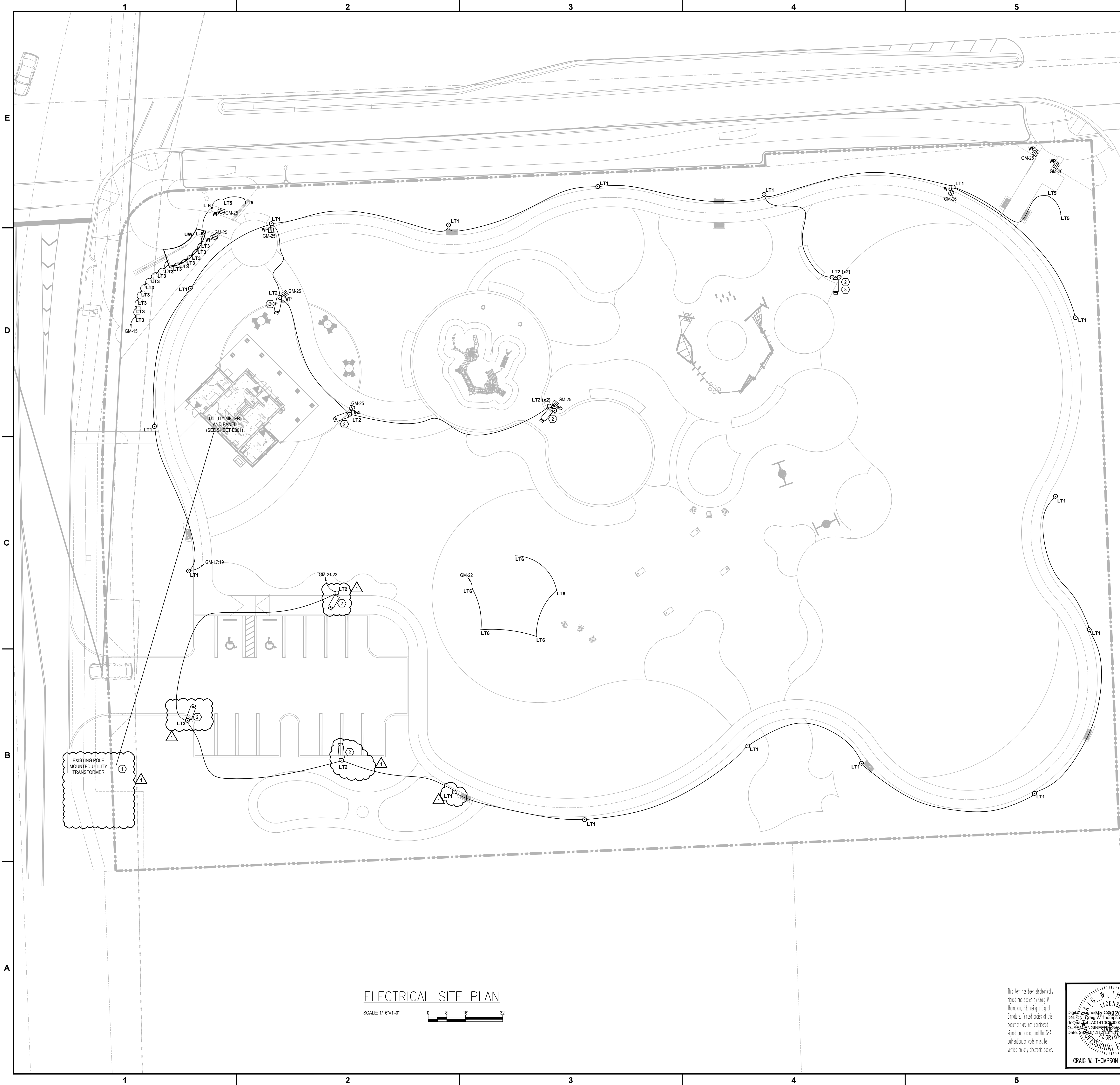




GENERAL NOTES:

- REFER TO SYMBOL LEGEND ON SHEET E001.
- REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.
- REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E701 FOR DISCONNECT, CONDUIT AND WIRE SIZES.
- ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
- ALL BRANCH CIRCUITS TO BE PROVIDED WITH DEDICATED NEUTRAL.
- CONTRACTOR TO SEGREGATE ALL GROUNDS AND NEUTRALS ONTO THE CORRECT BUS.
- CONTRACTOR TO CONFIRM THAT THERE IS A GROUND CONDUCTOR FOR EACH LOAD OR THAT THE CONDUIT PATH GROUND IS CONTINUOUS FOR EACH LOAD.
- CONTRACTOR TO IDENTIFY CONDUITS EXITING PANEL WITH CIRCUIT NUMBER INFORMATION.
- ENSURE NEW PANEL HEIGHT DOES NOT RESULT IN EXCEEDING 6'-7\"/>

PLAN KEY NOTES:

- COORDINATE EXACT LOCATION OF TRANSFORMER WITH UTILITY COMPANY. CONTRACTOR TO REFER TO APPENDIX A AND FPL EXHIBIT SHEET EX-101.
- LIGHT POLE TO INCLUDE SECURITY CAMERA. PROVIDE CAT6 CABLE IN 1\"/>

PROJECT LEAD & CIVIL ENGINEERING:



301 EAST ATLANTIC BLVD.
POMPAHO BEACH, FL 33060
PH: (954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:



801 INTERNATIONAL PARKWAY
LAKE MARY, FL 32746
407.871.9607
MKSKSTUDIOS.COM

ARCHITECT:



WANNEMACHER, JENSEN ARCHITECTS
815 NORTHWEST 57 AVE. SUITE 219
MIAMI, FLORIDA 33126
727-822-5568
WJARC.COM AA0002277

MECHANICAL, PLUMBING, & ELECTRICAL ENGINEERING:



5301 WATERFORD DISTRICT DR.
SUITE 750
954-421-1944
SGMENGINEERING.COM CA-00006208

REVISIONS

NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	11/21/2024
	REVISED FOR BUILDING PERMIT	01/10/2025
Δ	BLDG PERMIT REV. 1	03/28/2025

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED
AND ARE SUBJECT TO REVISIONS MADE
DURING THE PERMITTING PROCESS.

ISSUE DATE:	XX/XX/20
DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT
**VILLAGE OF
PINECREST**
PINECREST PARKS & RECREATION



PROJECT

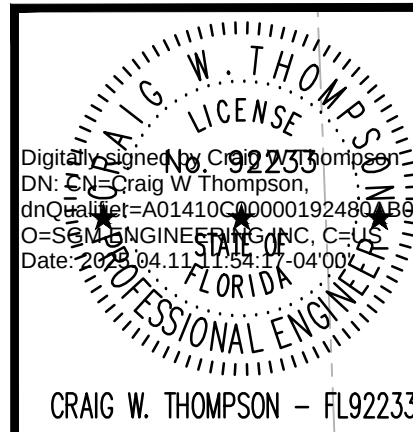
SHEET TITLE

ELECTRICAL
SITE PLAN

SHEET
NUMBER E101

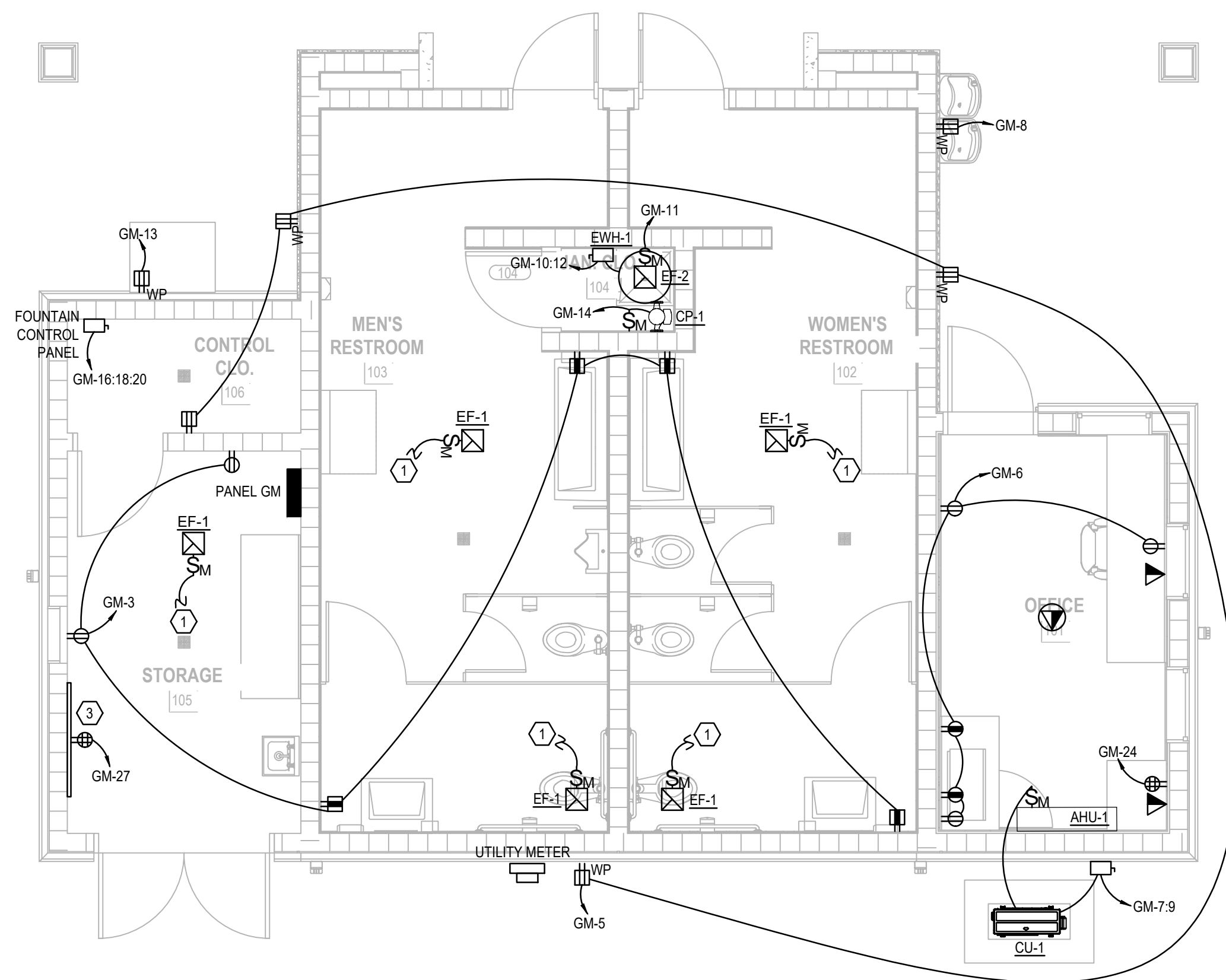
KEITH PROJECT
NUMBER 13861.00

This item has been electronically
signed and sealed by Craig W.
Thompson, P.E. using a Digital
Signature. Printed copies of this
document are not considered
signed and sealed and the SHA
authentication code must be
verified on any electronic copies.

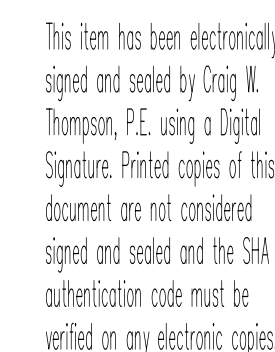


SGM
ENGINEERING

SGM #:
2024-256
935 LAKE BALDWIN LANE
ORLANDO, FL 32814
TEL: 407-767-5188
FAX: 407-767-5772
CA-00006208
WWW.SGMENGINEERING.COM
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SCALE: 1/4"=1'-0"



**935 LAKE BALDWIN LANE
ORLANDO, FL. 32814
TEL: 407-767-5188
FAX: 407-767-5772
CA-00006208**

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DURING THE PERMITTING PROCESS.

ISSUE DATE:	XX/XX/20
DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT
VILLAGE OF
PINECREST
PINECREST PARKS & RECREATION



PROJECT	
---------	--

SHEET TITLE

ELECTRICAL
POWER AND
LIGHTING PLANS

SHEET
NUMBER E301

KEITH PROJECT NUMBER	13861.00
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STATUS: PRELIMINARY

E

D

C

B

A

System No. C-AJ-1044

June 15, 2005

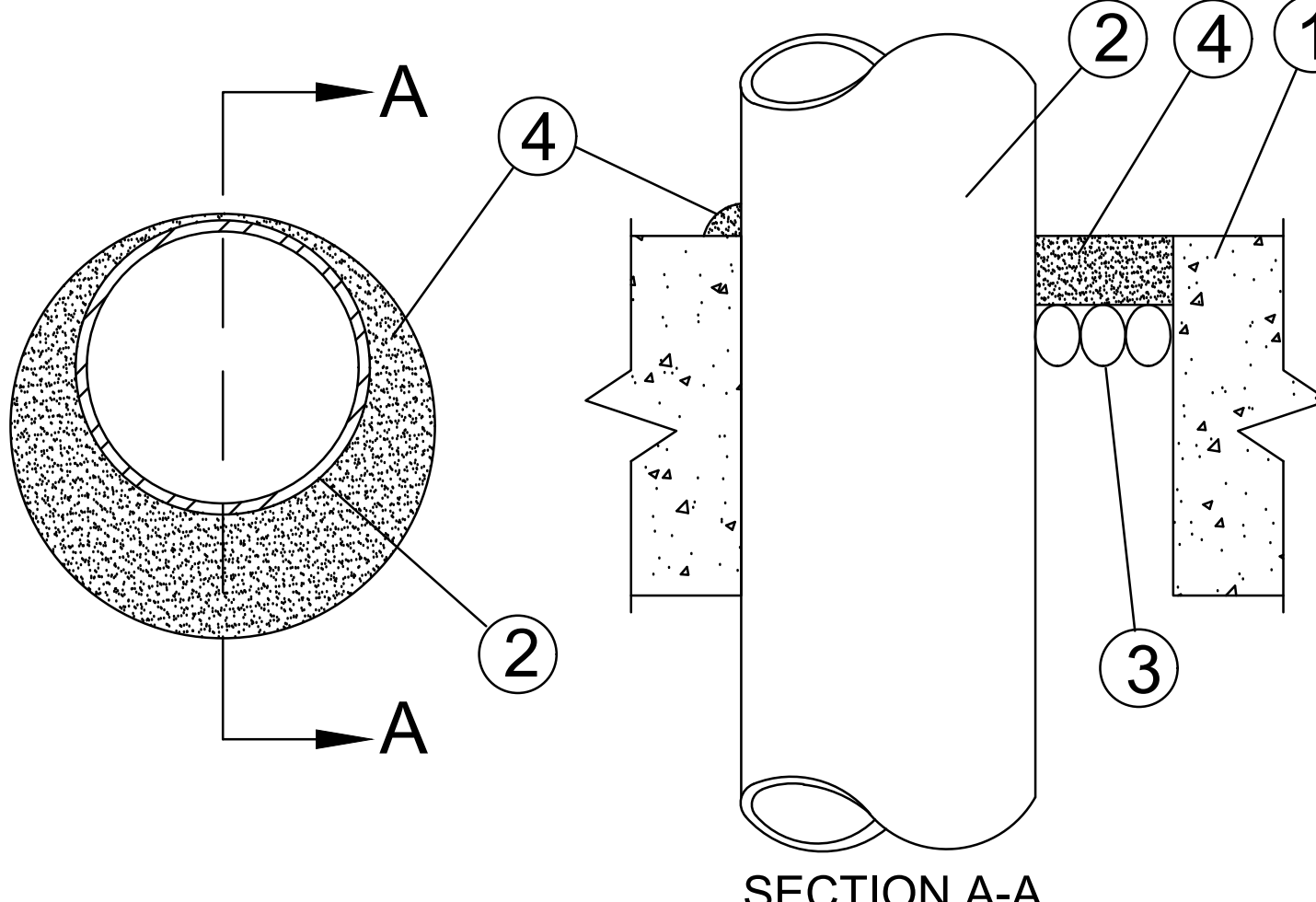
F Ratings - 2, 3, and 4 Hr (See Items 2A and 4)

T Rating - 0 Hr

L Rating At Ambient - 2 CFM/sq ft

L Rating At 400 F - less than 1 CFM/sq ft

W Rating - Class I (See Item 4)



SECTION A-A

1. Floor or Wall Assembly - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified Concrete Block*. Max diam of opening in solid lightweight or normal weight concrete: Floor is 32 in. (813 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).

See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, not shown) - Max 16 in. (381 mm) ID (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. Max 16 in. (406 mm) ID (or smaller) min 0.028 (0.71 mm) wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 1/2 in. (13 mm) beyond either surface of floor or wall.

2. Through Penetrator - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe or conduit and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is 3 in. (76 mm) (joint contact). Pipe conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

D. Conduit - Nom 4 in. (102 mm) diam (or smaller) listed electrical metallic tubing.

E. Copper - Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.

F. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of lightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk. Fill material (Item 4).

4. Fill Void or Cavity Material - Caulk or Sealant - Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At joint contact location between penetrator and sleeve or between penetrator and concrete, a min. 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at top surface of wall.

Minimum Pipe Size (in.)	Minimum Pipe Size (mm)	Max Annular Space (in.)	Min Caulk Thickness (in.)	F Rating
2-1/2 (64)	1/2-1/2 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-1/2 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6)	2
4-1/2 (114)	1/2-1/2 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	1 (25)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
6-1/2 (160)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(a) Min 2 in. (51 mm) thickness of mineral wool batt insulation required in annular space.

(b) Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY - CP 2550B+ caulk or FB-3000 WT sealant. (Note: W Rating applies only when FB-3000 WT sealant is used.)

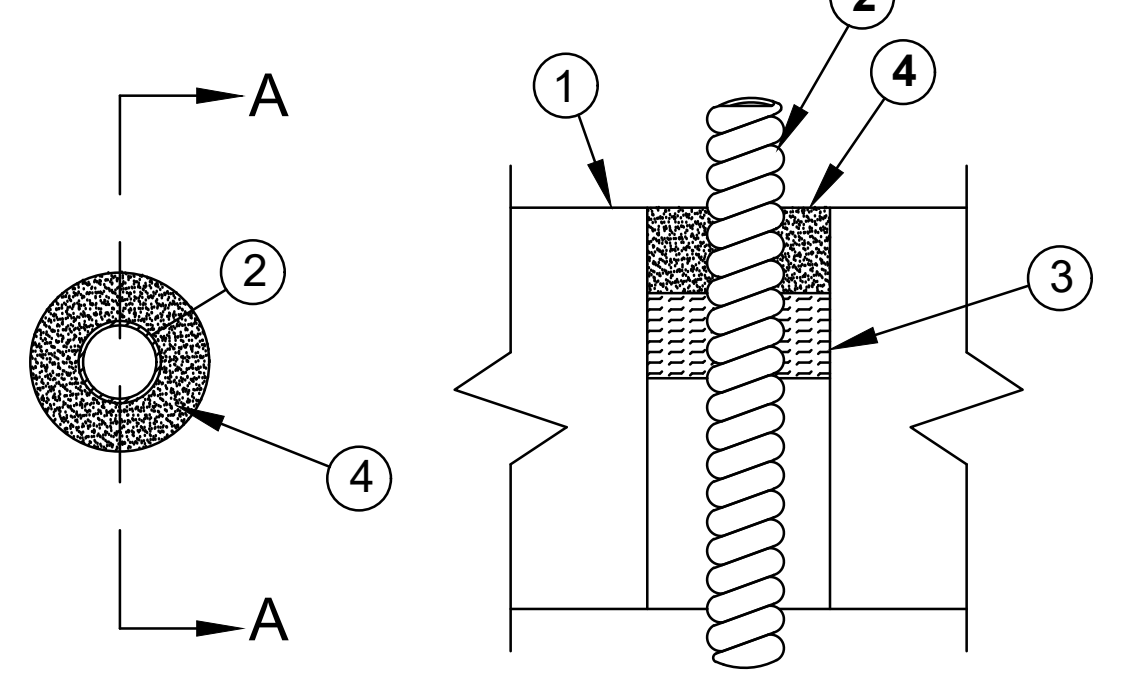
*Bearing the UL Classification Marking

SYSTEM NO C-AJ-1052

(FORMERLY SYSTEM NO. 337)

F RATING-2 HR

T RATING-0 HR



SECTION A-A

EMT THRU CONCRETE PENETRATION DETAIL

No Scale

1

MC CABLE THRU CONCRETE PENETRATION DETAIL

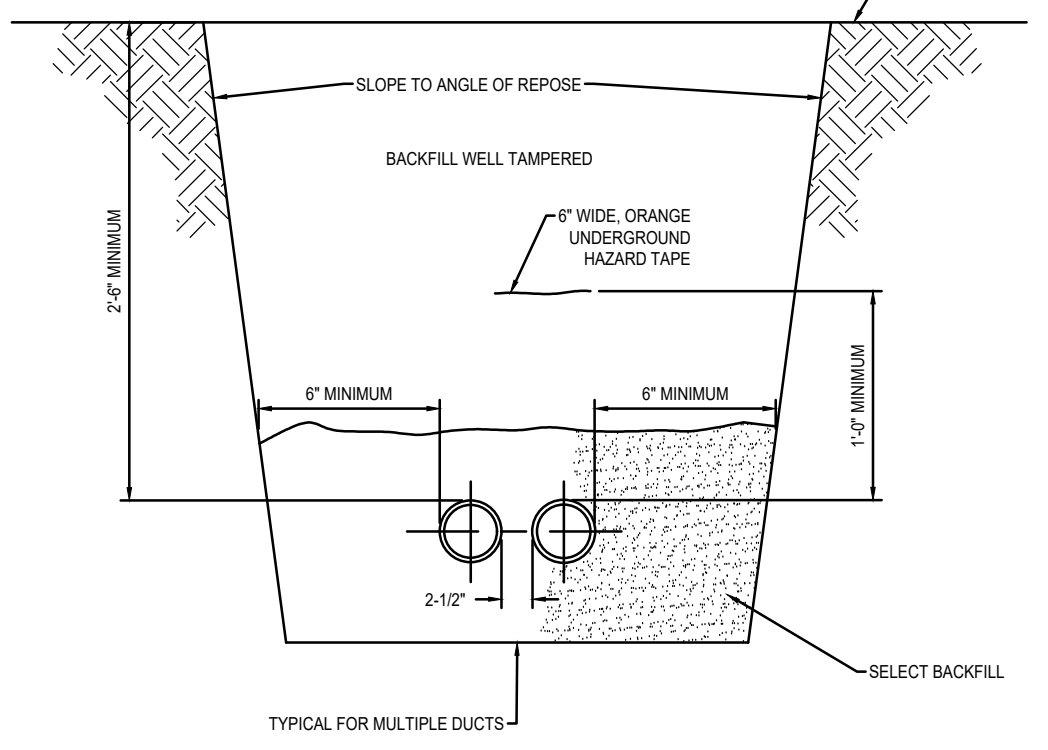
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CONDUIT TRENCH

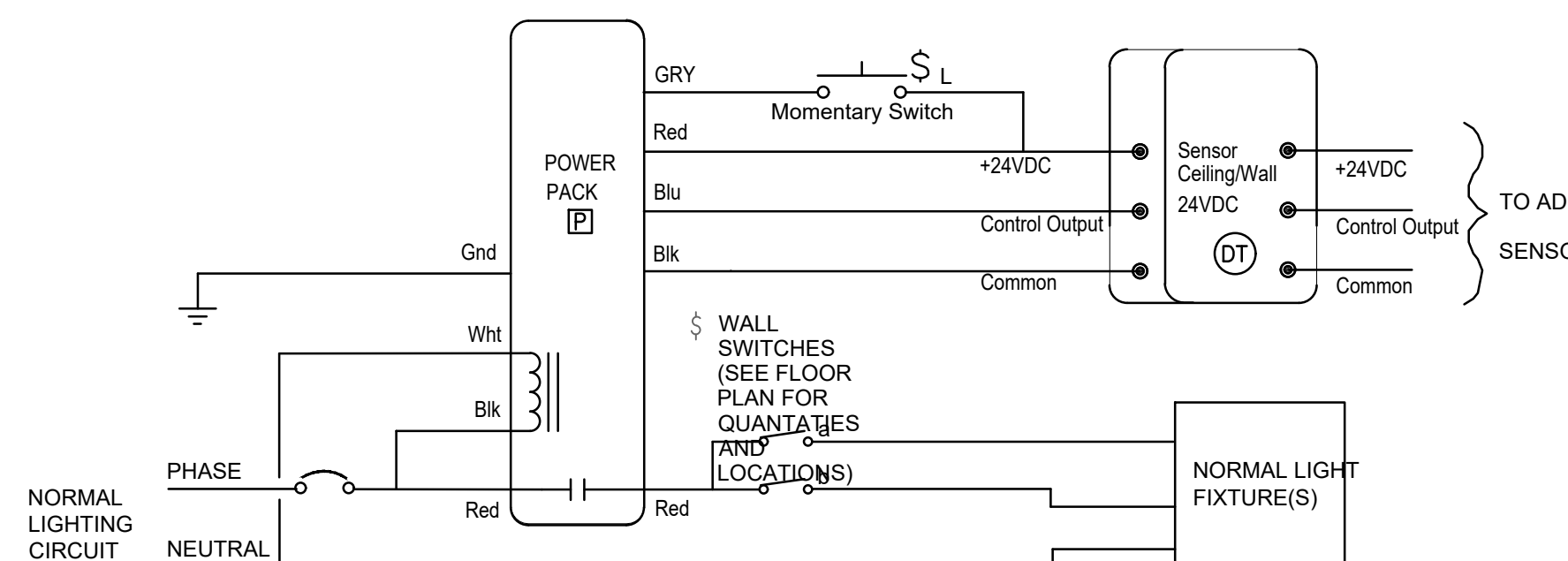
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3



TYPICAL FOR MULTIPLE OUTS

INDIVIDUAL ROOM LIGHTING CONTROL DEVICES MAY VARY. SEE FLOOR PLANS FOR SWITCH AND/OR OCCUPANCY SENSOR TYPES. TYPICAL POWER PACK, OCCUPANCY SENSOR AND SWITCH SHOWN.



TO ADD'L SENSORS

PHOTOCELL ONLY- EXTERIOR LIGHTING CONTROL

SCALE: NTS

120V SPST SPECIFICATION GRADE PHOTOELECTRIC CONTROL TORK 2101 OR EQUAL. LOCATE ON ROOF ABOVE ELECTRICAL ROOM.

DPDT RELAY WITH 120V COIL AND 10A RATED CONTACTS. SQUARE D #8501KP12V20 WITH 8501NR51B OR EQUAL. LOCATE NEXT TO CONTACTOR.

HEAVY DUTY OILTIGHT/WATERTIGHT SELECTOR SWITCH-30MM ASSEMBLED CONTROL STATION IN TYPE 4 ENCLOSURE W/LEGEND. SQUARE D CLASS 9001 KYK110 OR EQUAL. LOCATE NEXT TO CONTACTOR.

4P MECHANICALLY HELD LIGHTING CONTACTOR WITH 120V COIL. CONTACTS TO BE RATED 20A CONTINUOUS FOR TUNGSTEN AND BALLAST LIGHTING. PROVIDE QUANTITY OF CONTACTORS FOR EACH CIRCUIT REQUIRED PLUS 2 CONTACTS SPARE. SQUARE D CLASS 8903 SMG13V02. LOCATE IN ELECTRICAL ROOM AS CLOSE TO PANEL FEEDING CONTROLLED CIRCUITS.

DETAIL 2 NOTES:

A. PROVIDE APPROPRIATE UL LISTED ASSEMBLY IF MORE THAN ONE DEVICE IS INSTALLED IN AN ENCLOSURE.

B. PROVIDE SEPARATE CONTACTORS FOR 277V AND 120V LIGHTING CIRCUITS.

PHOTOCELL ONLY EXTERIOR LIGHTING CONTROL DETAIL

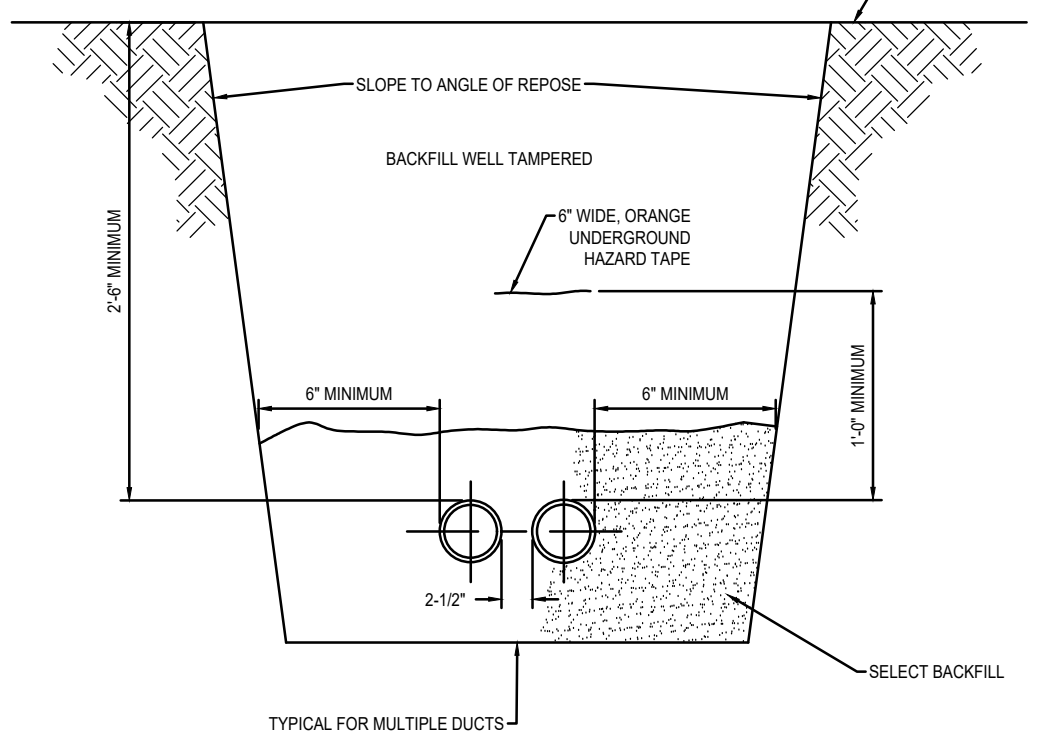
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CONDUIT TRENCH

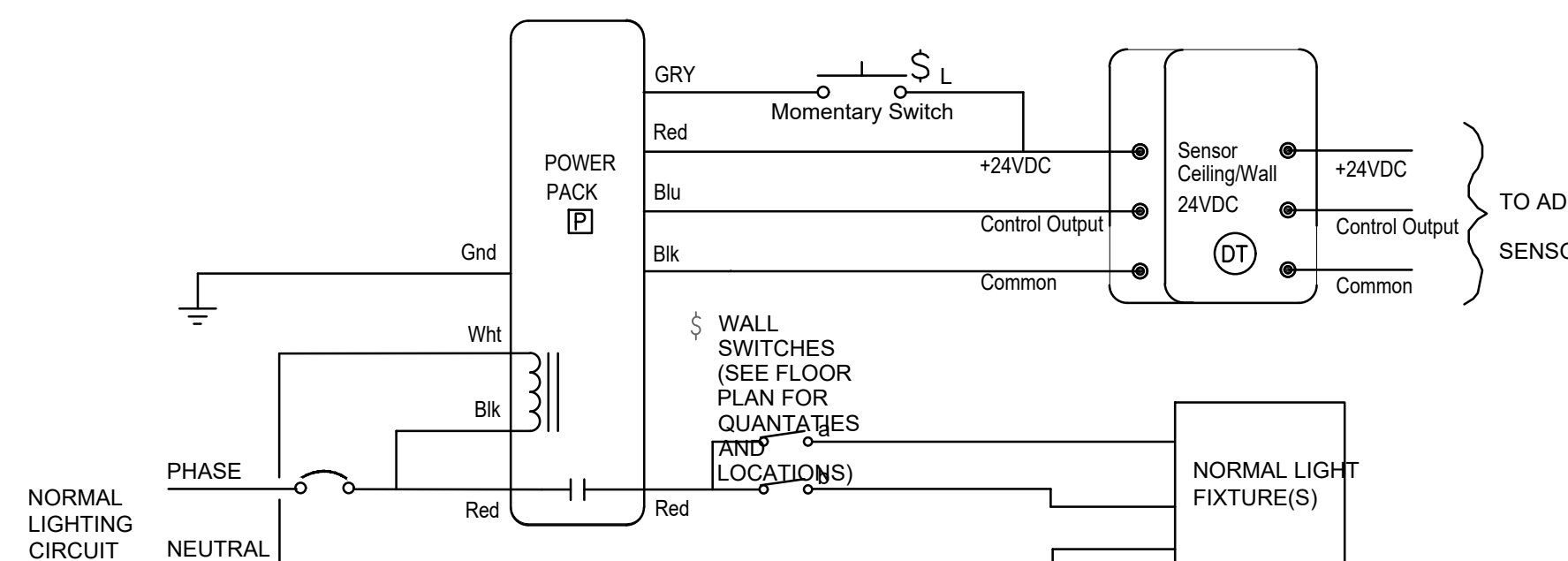
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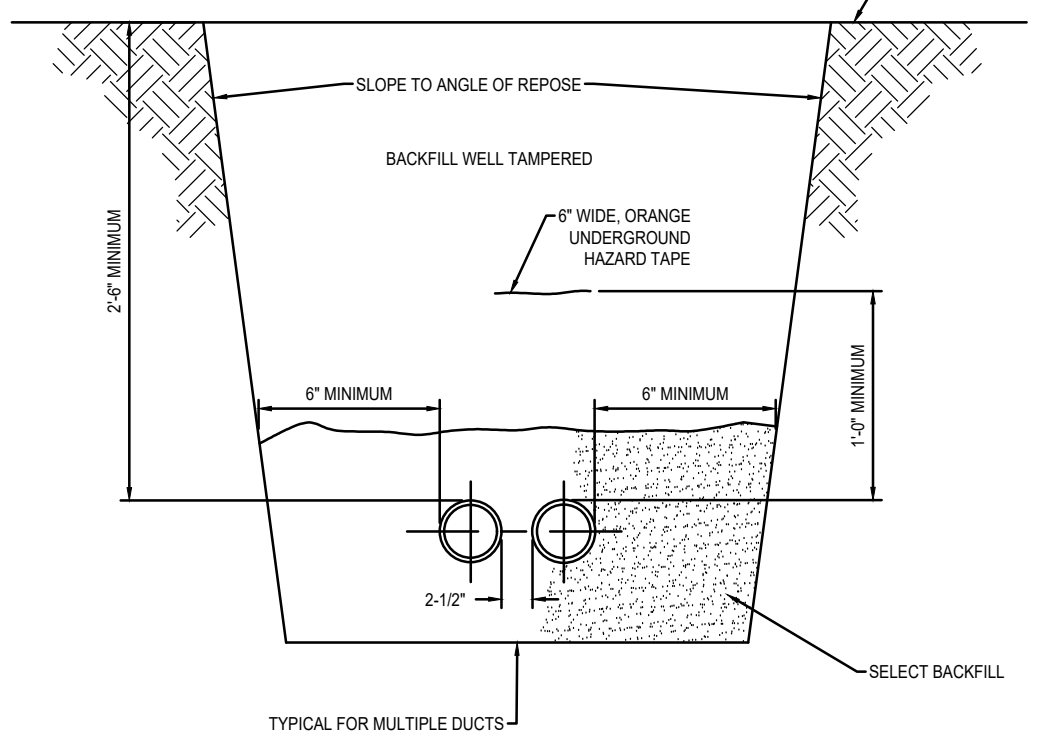
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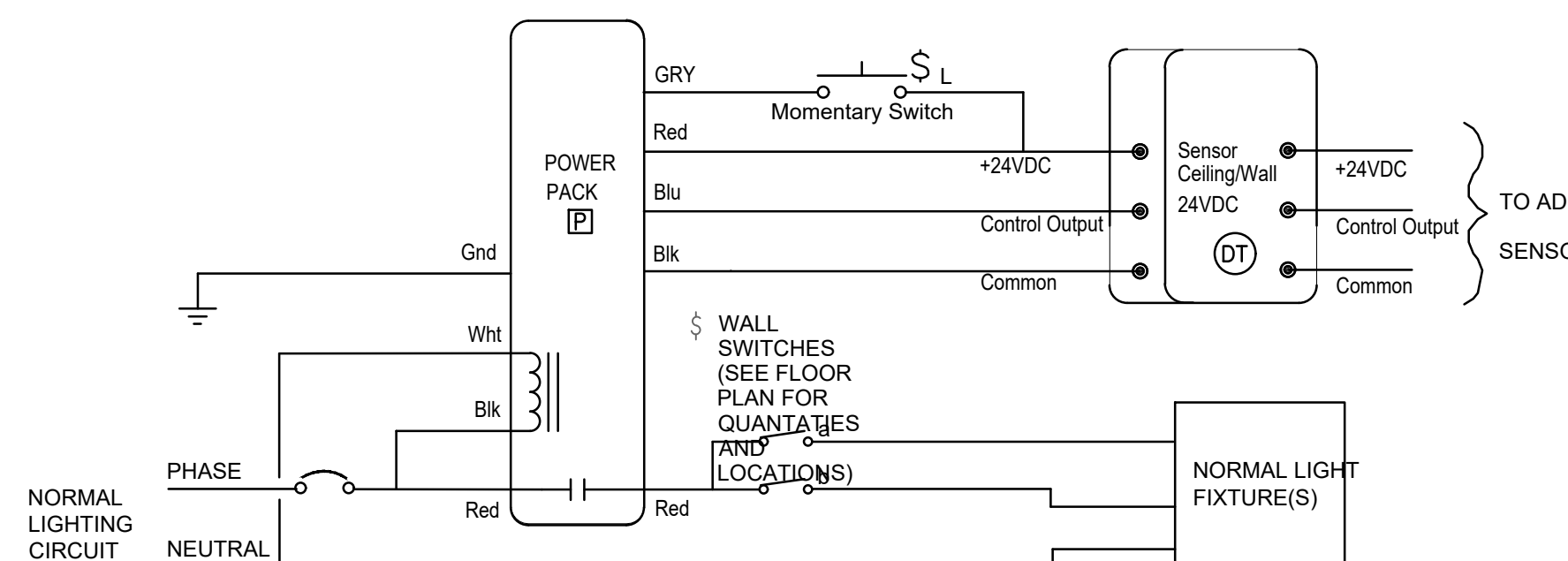
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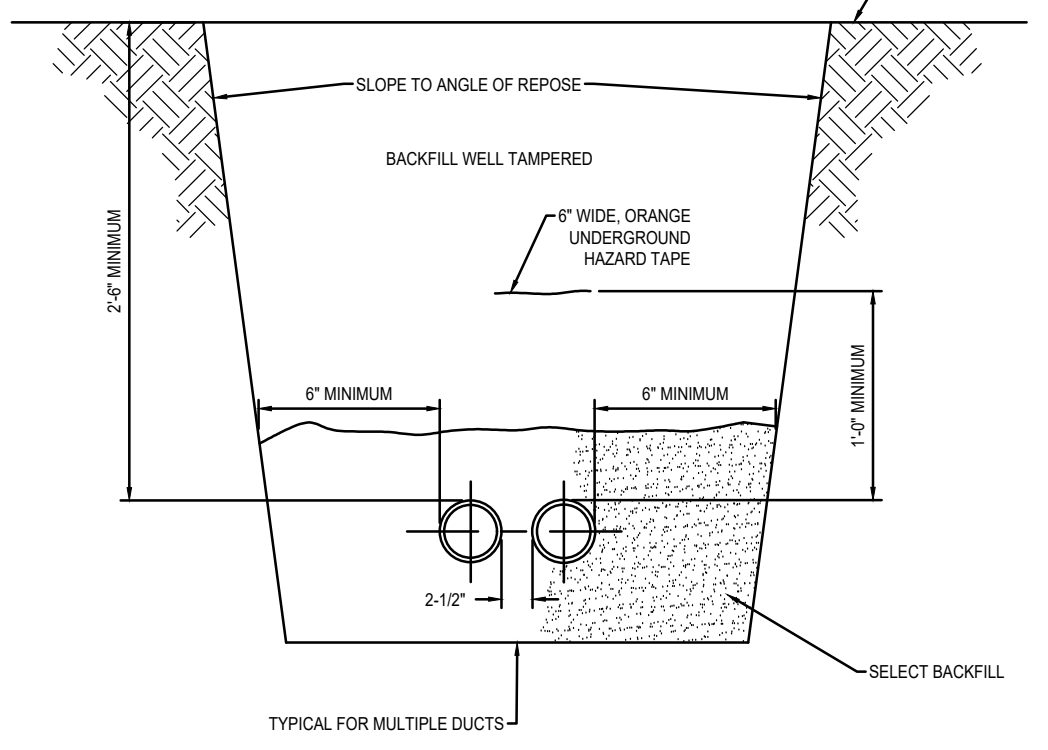
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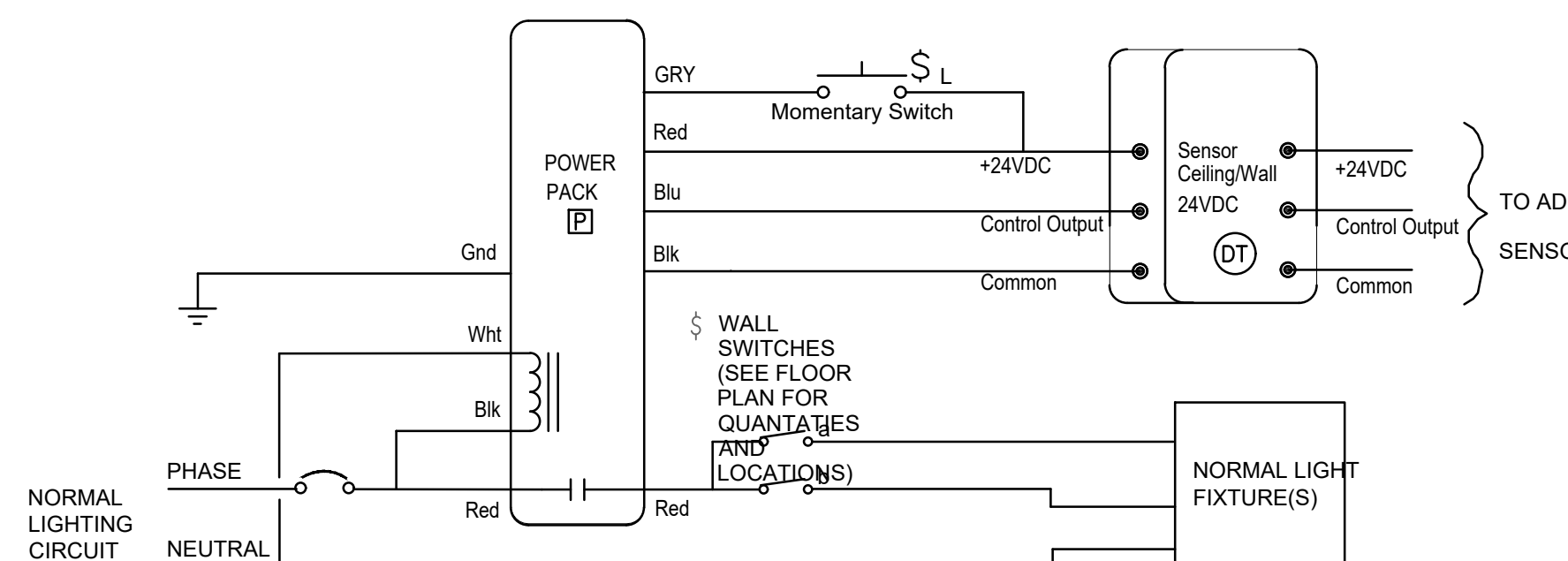
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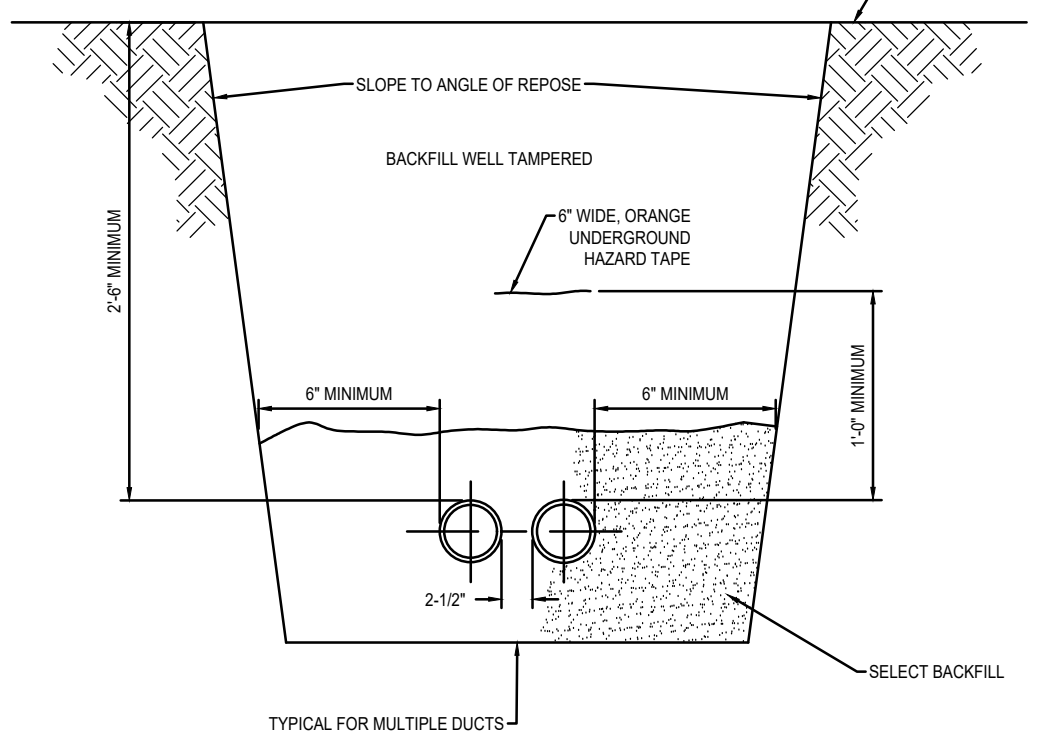
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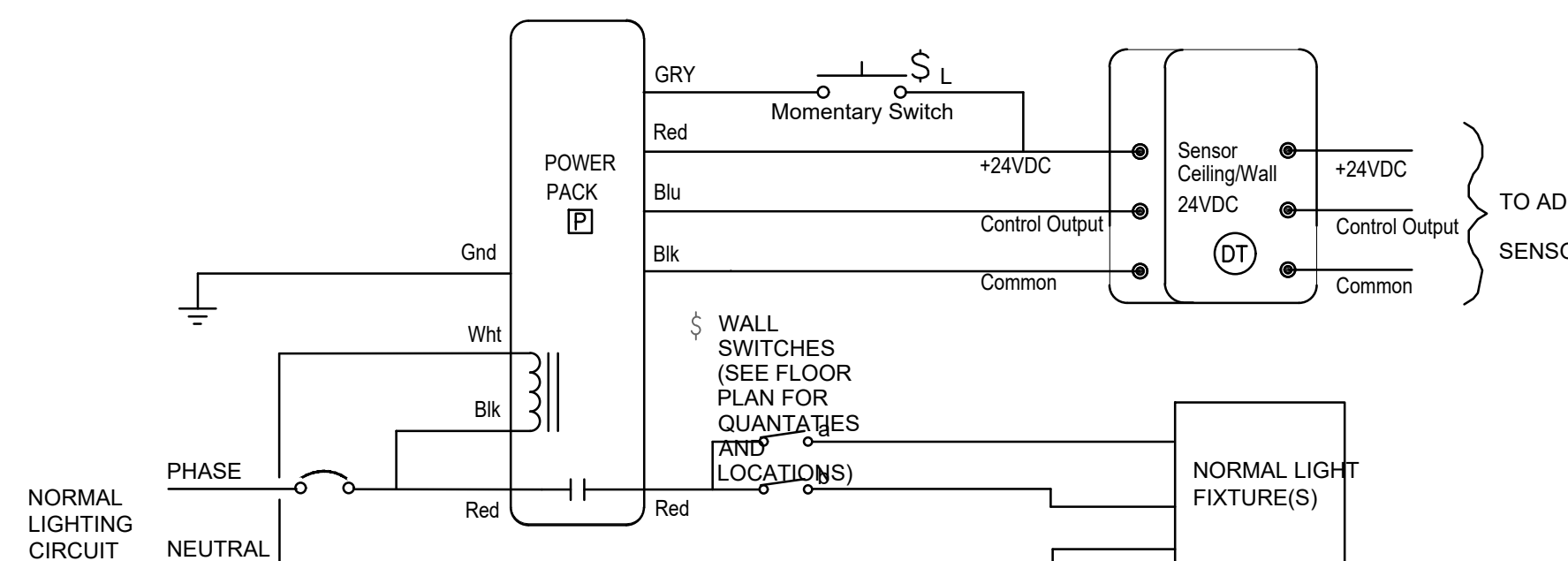
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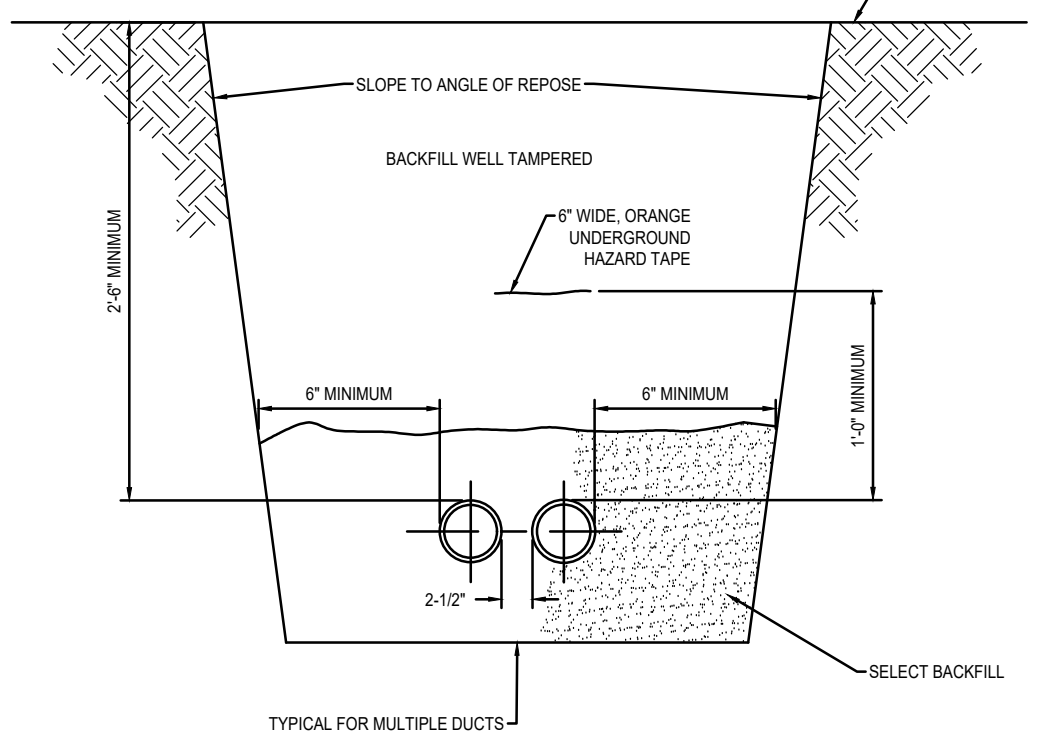
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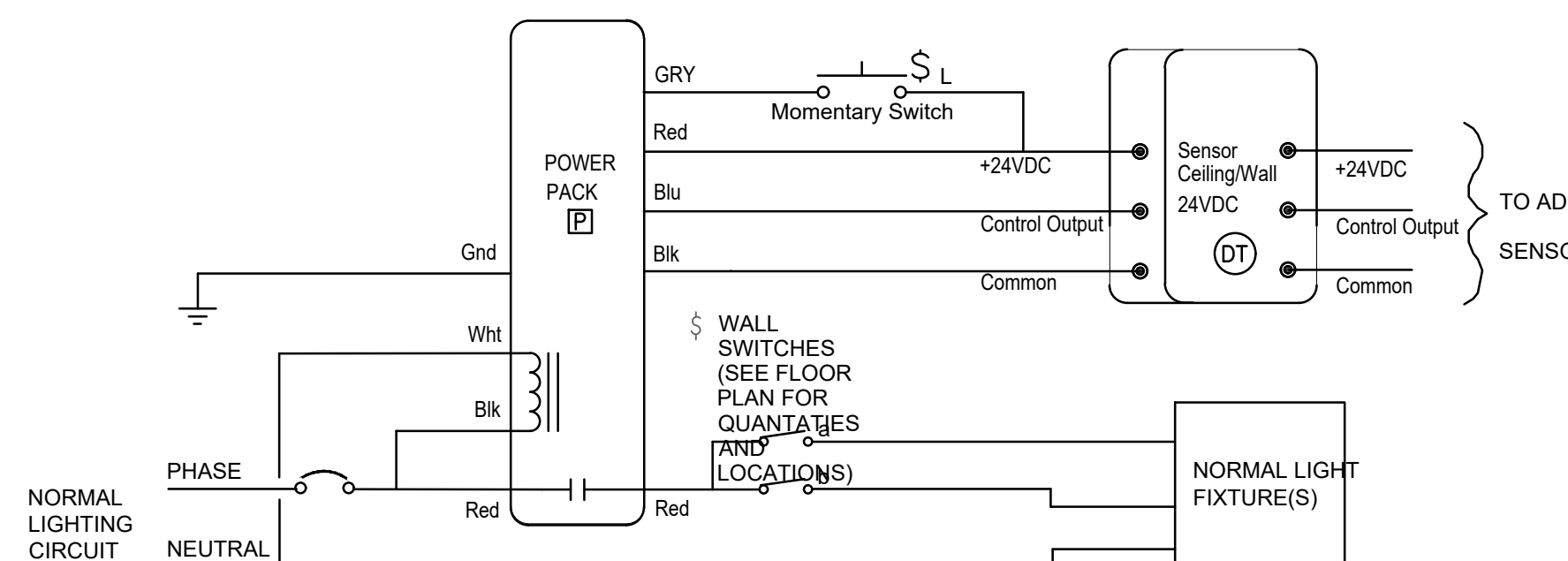
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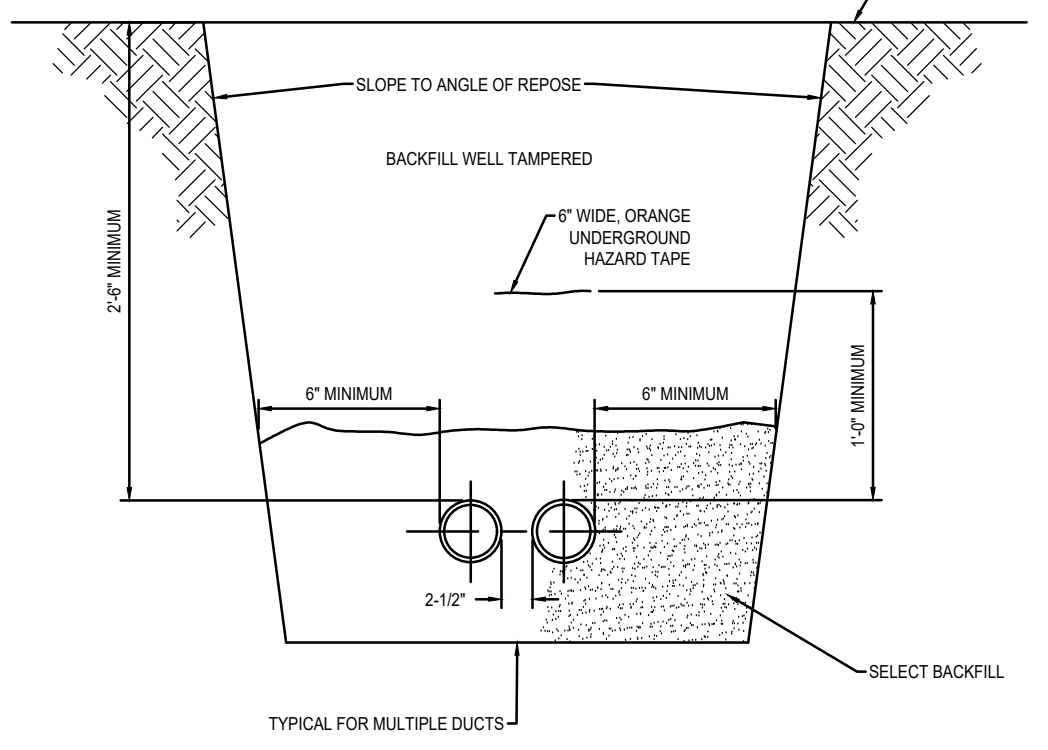
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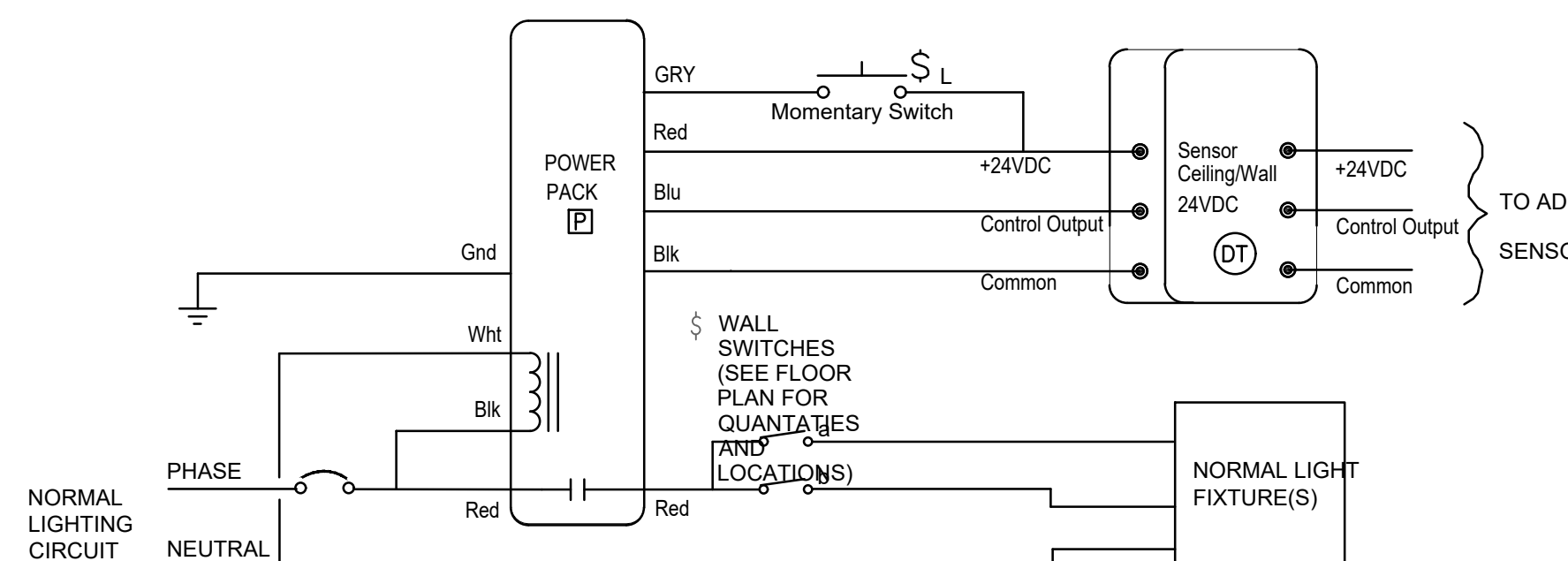
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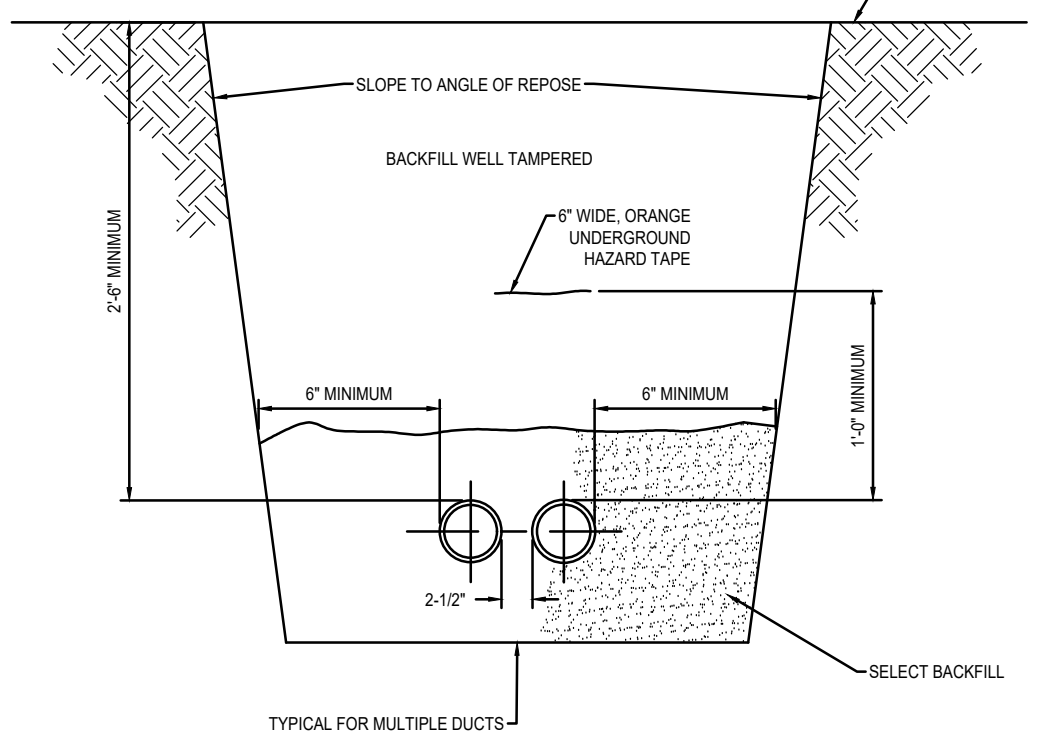
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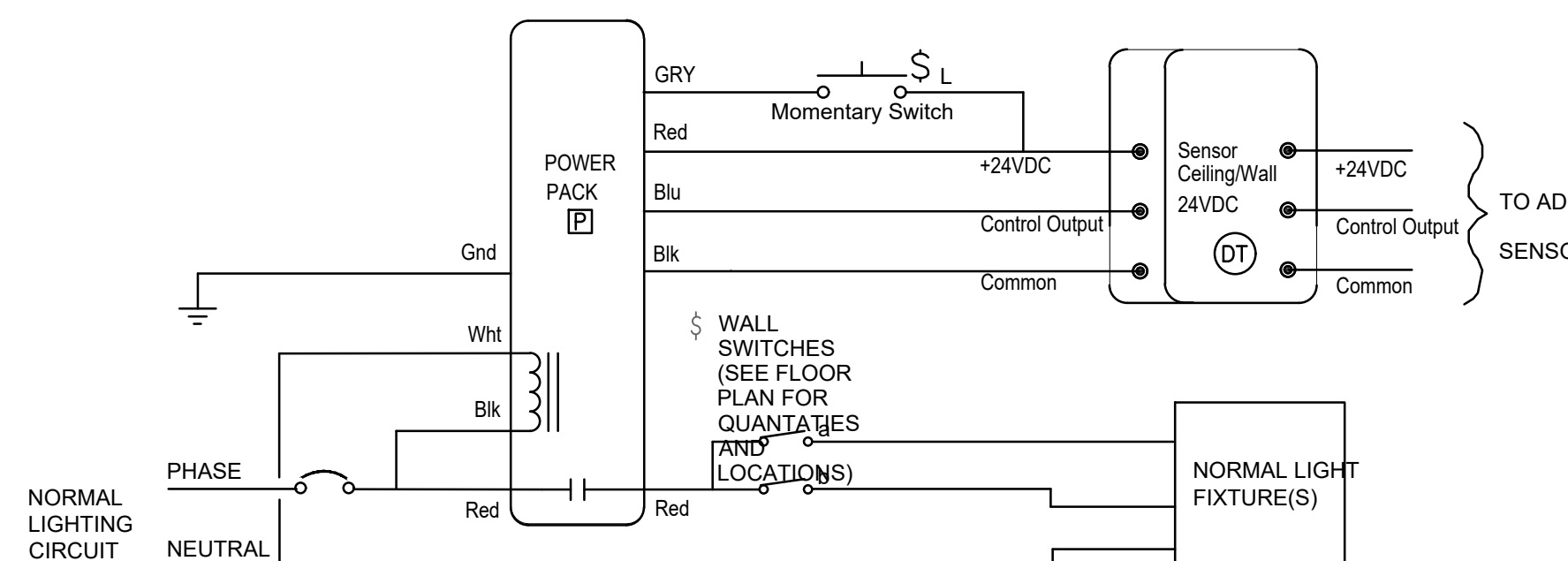
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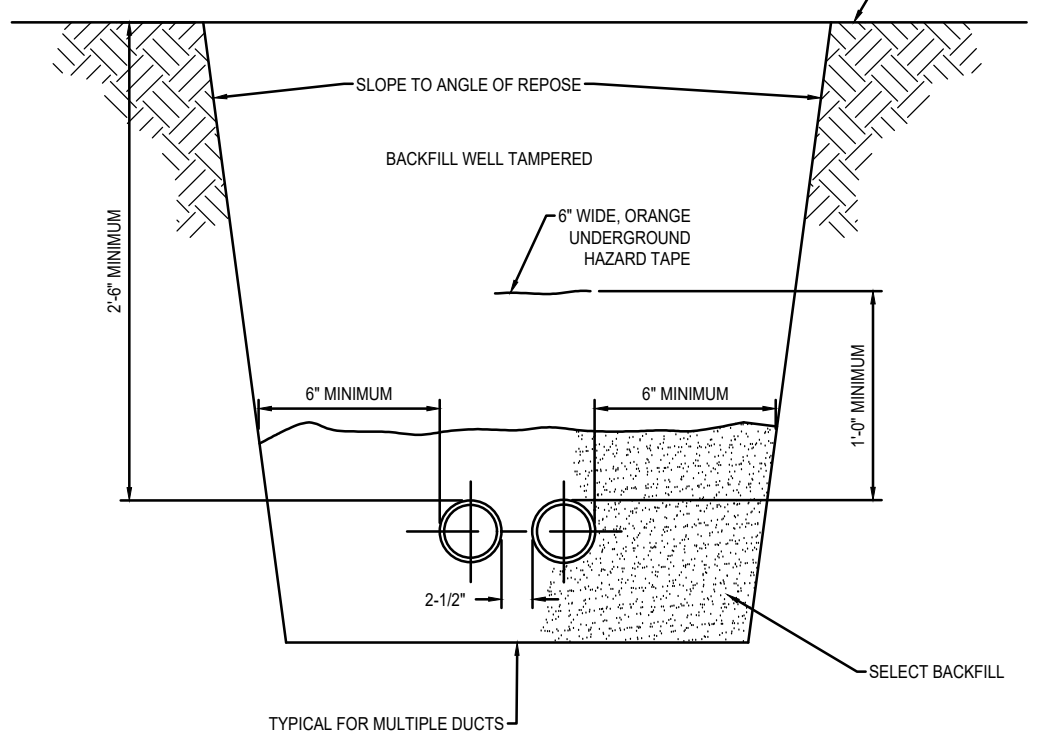
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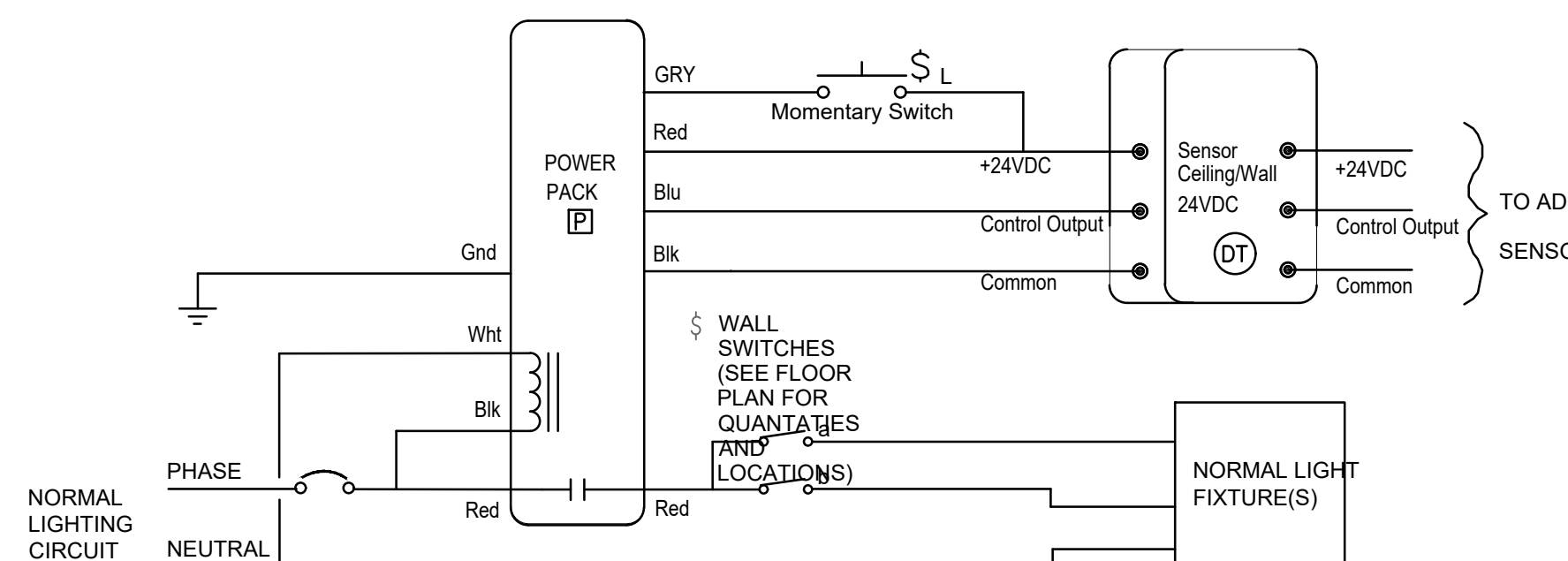
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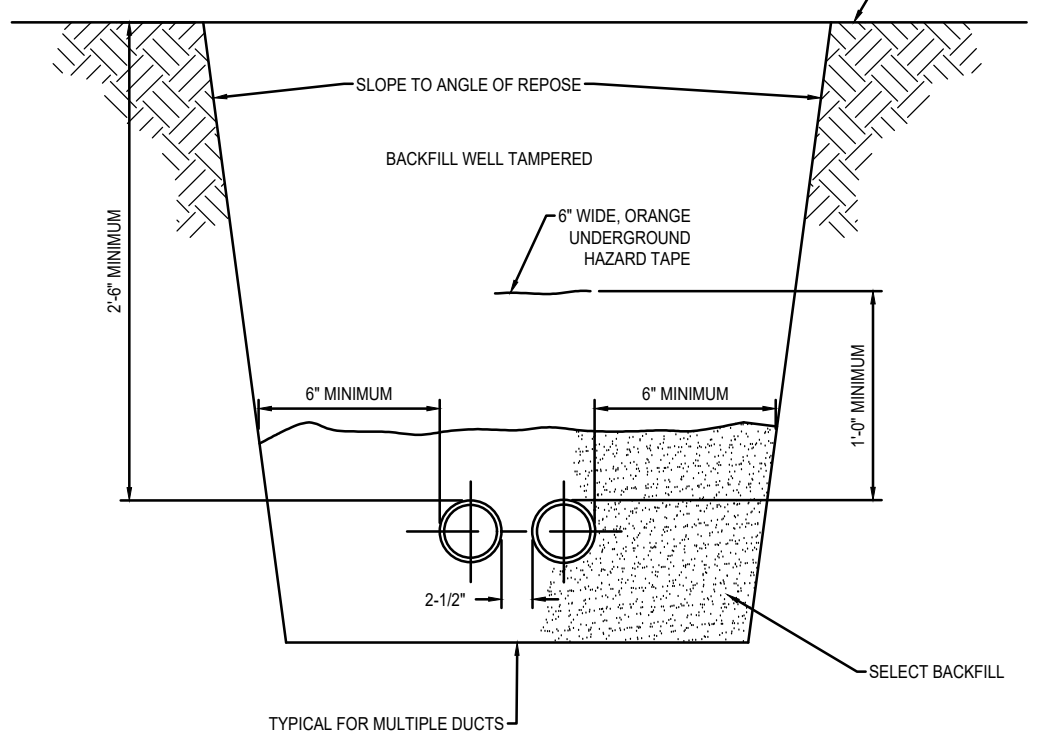
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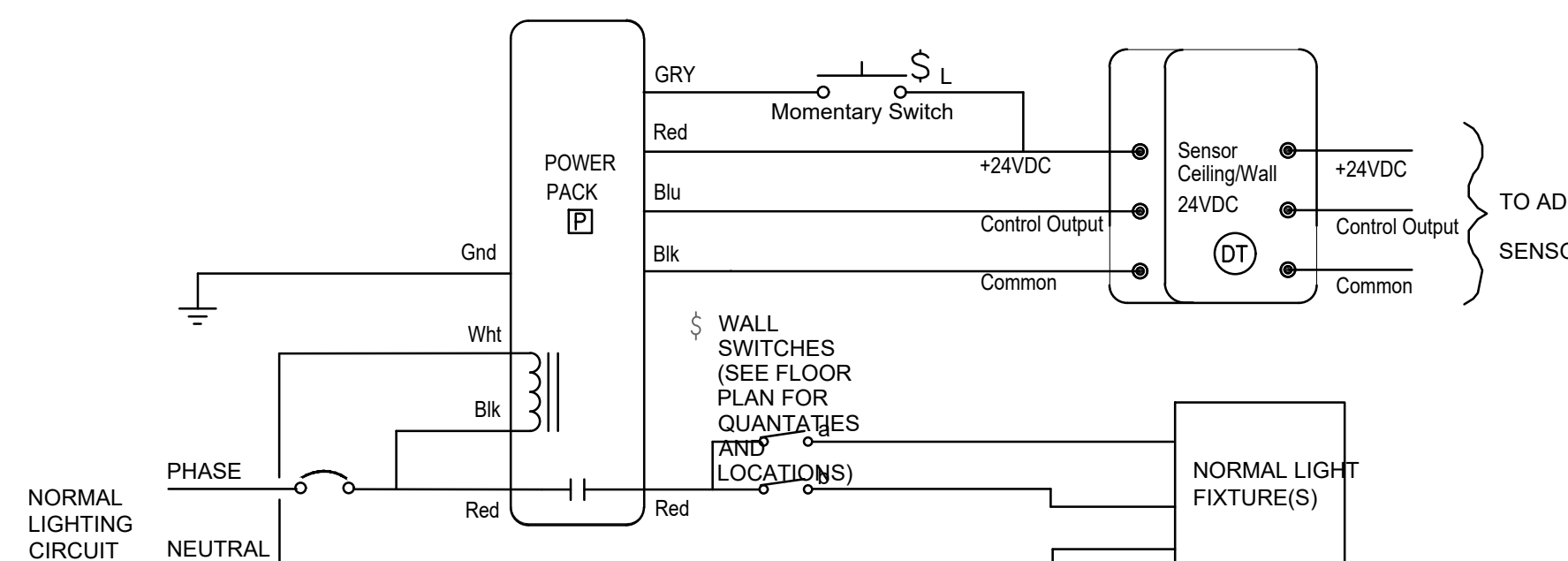
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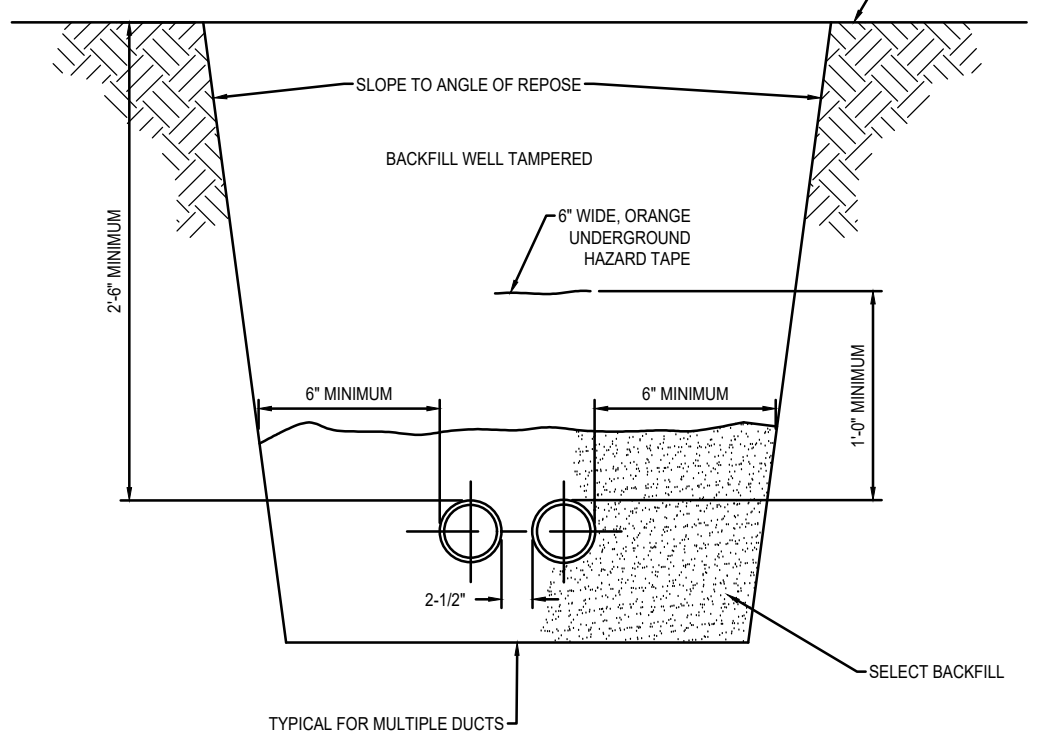
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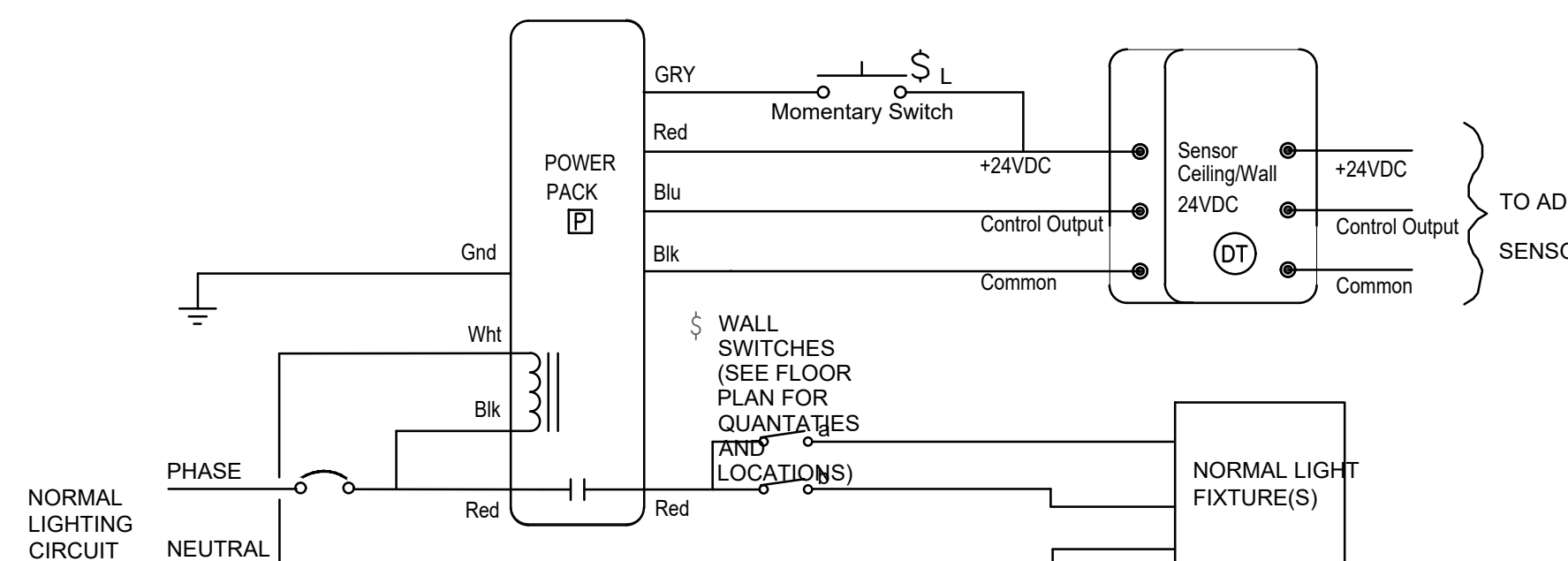
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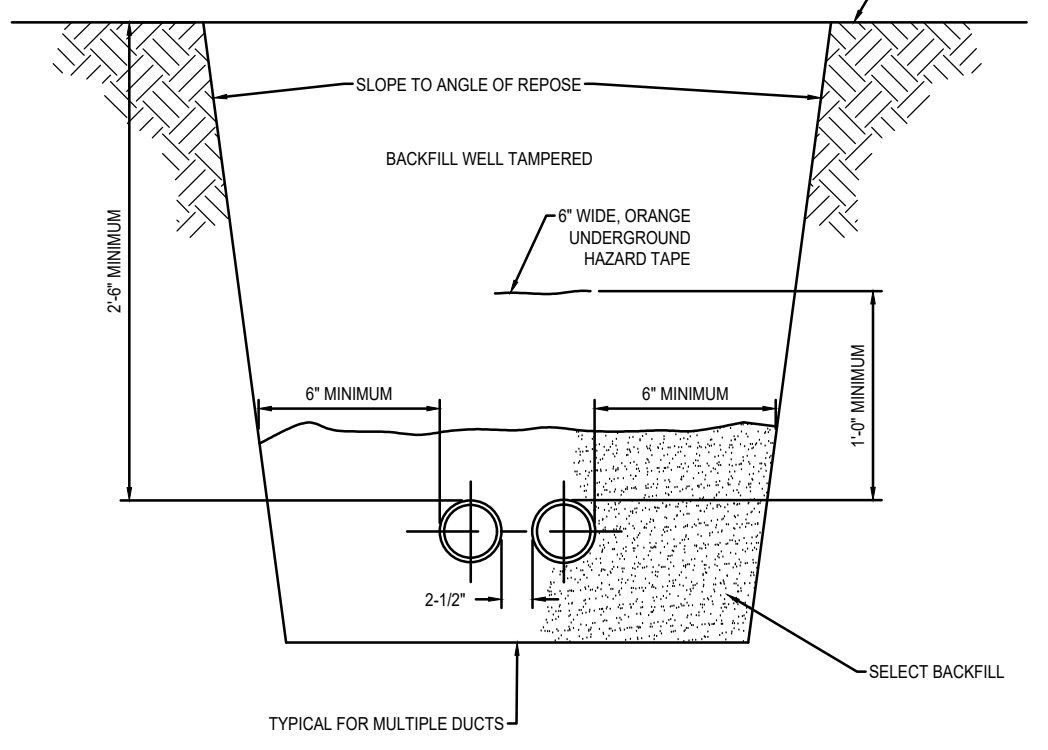
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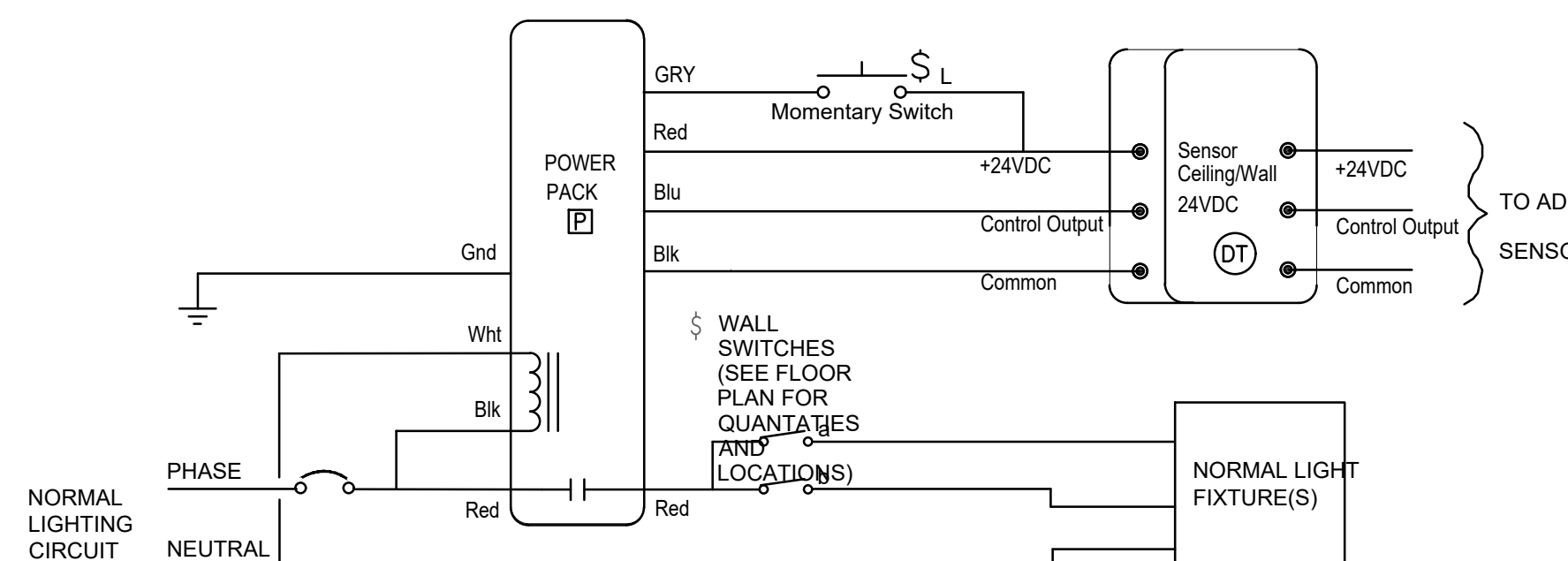
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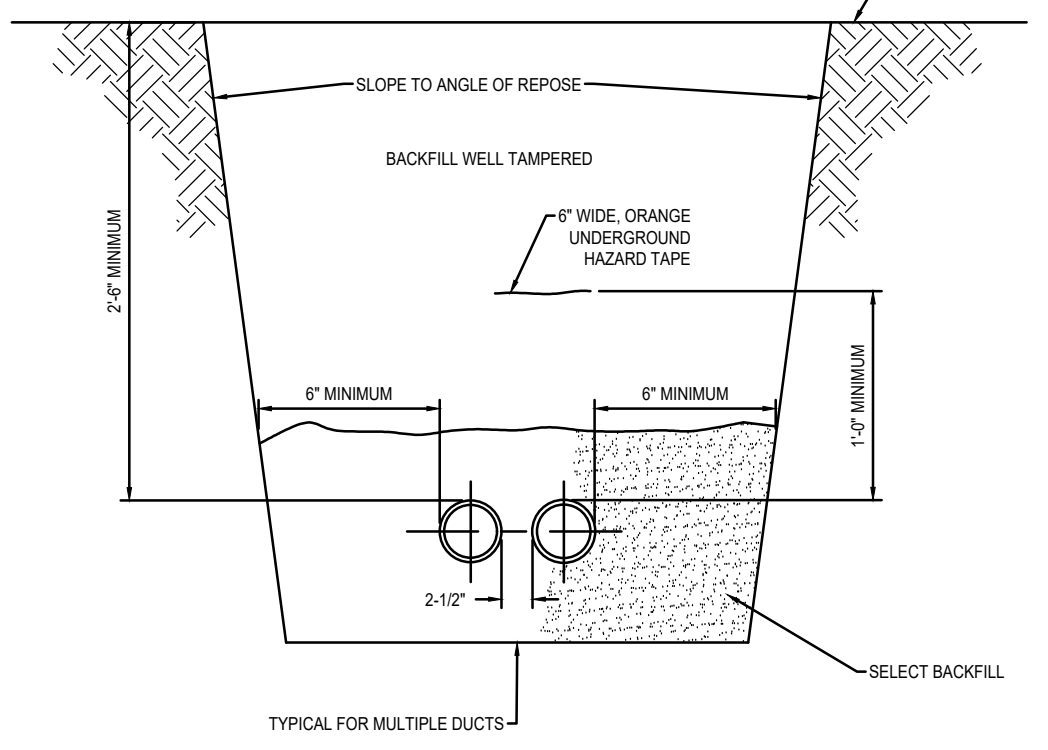
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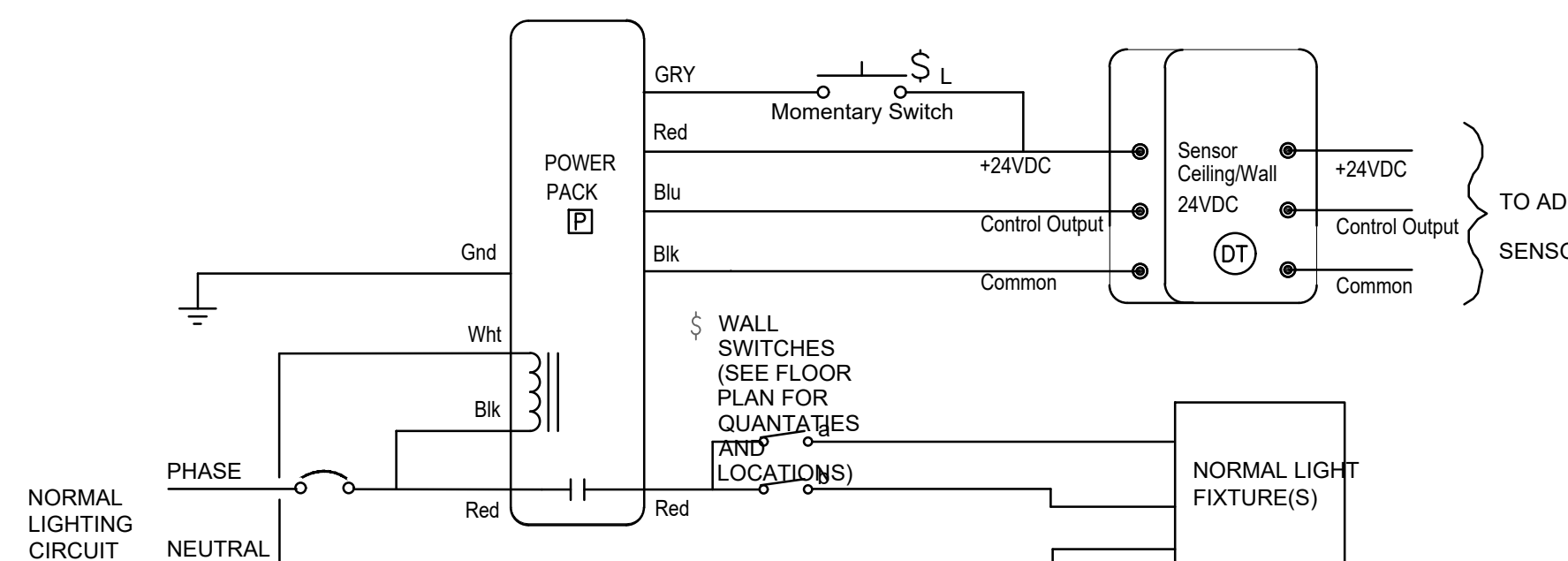
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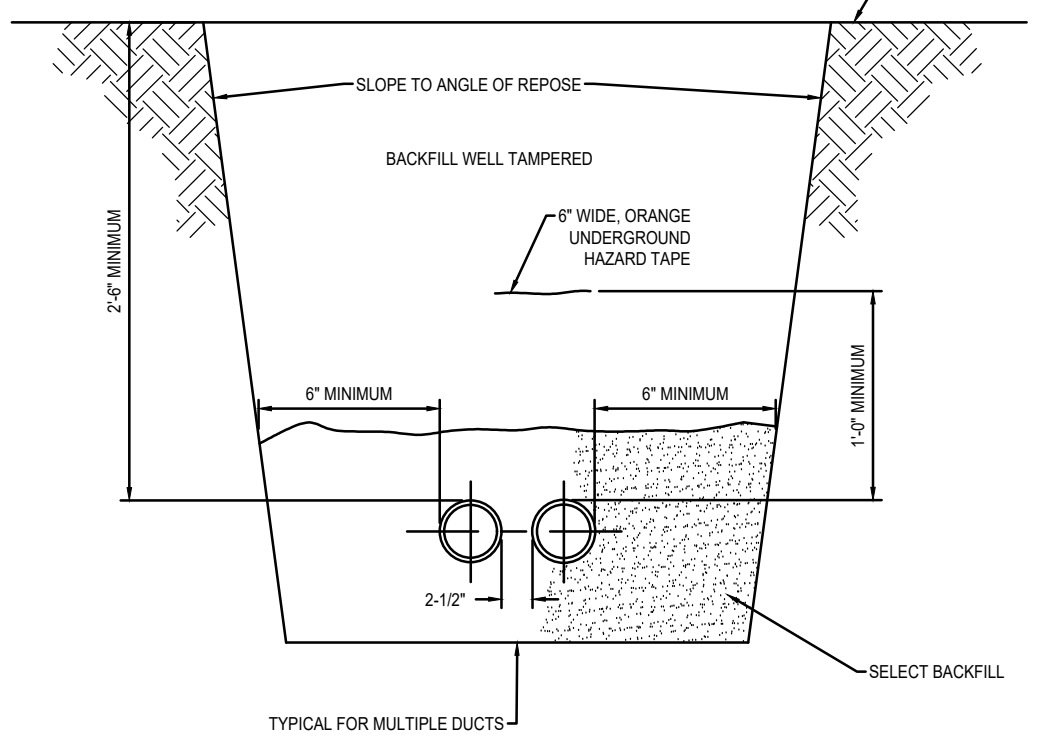
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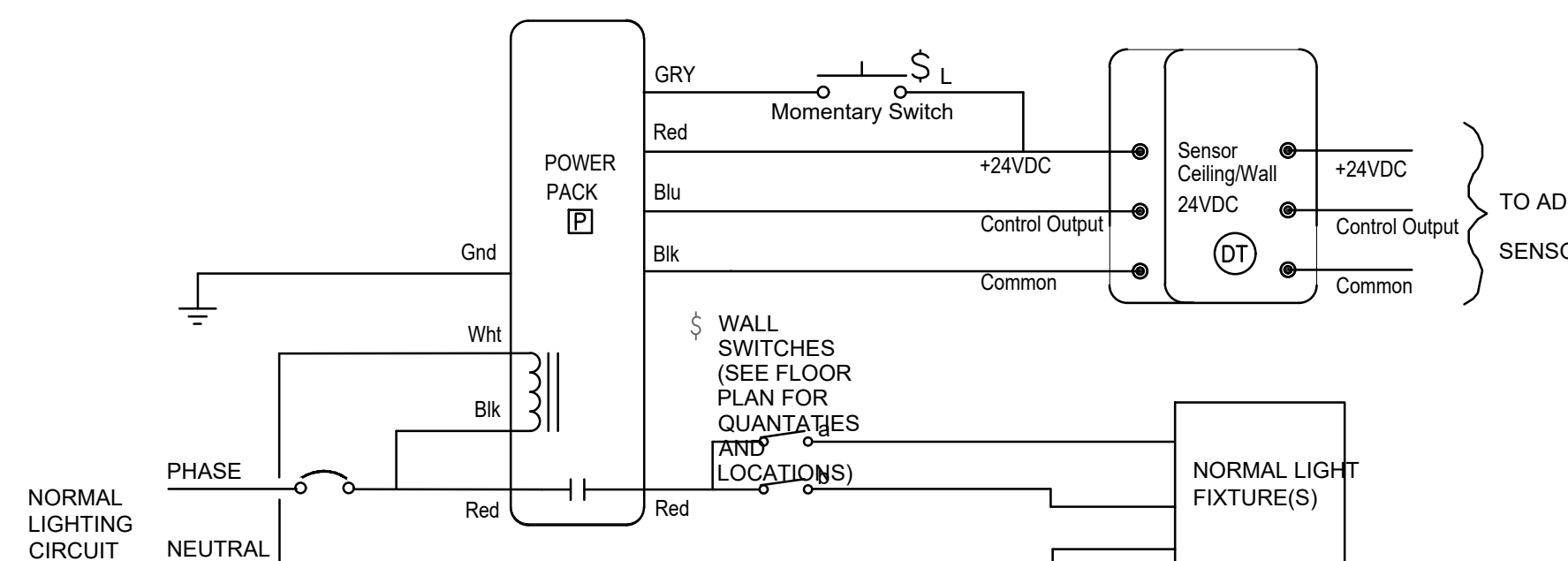
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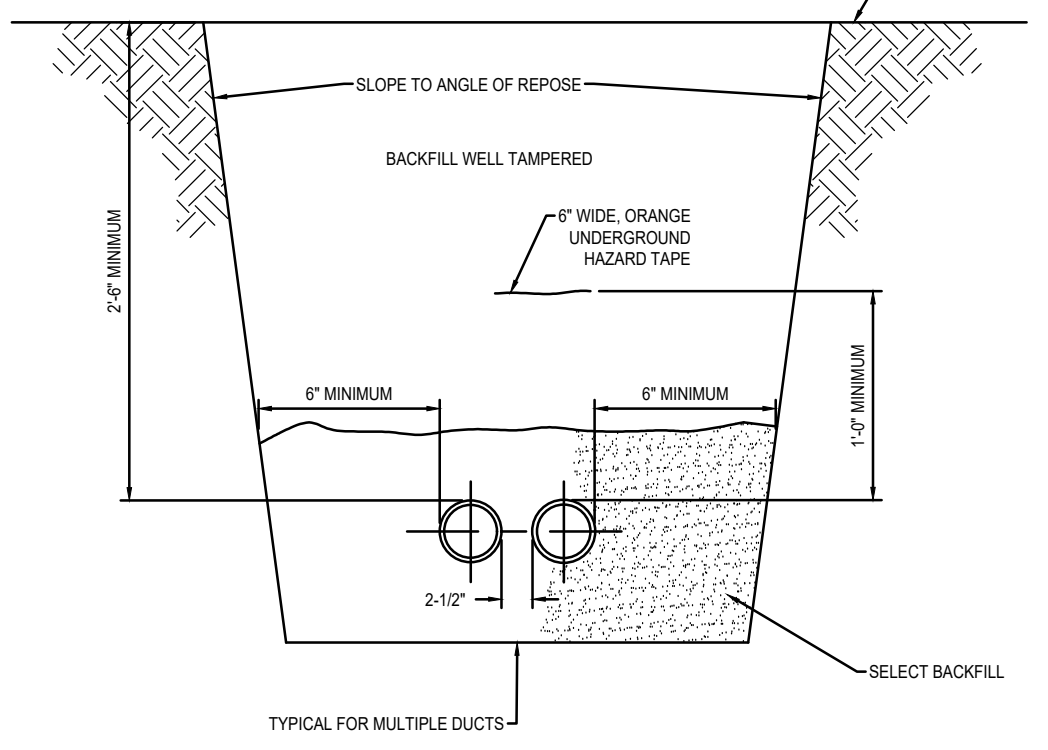
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CONDUIT TRENCH

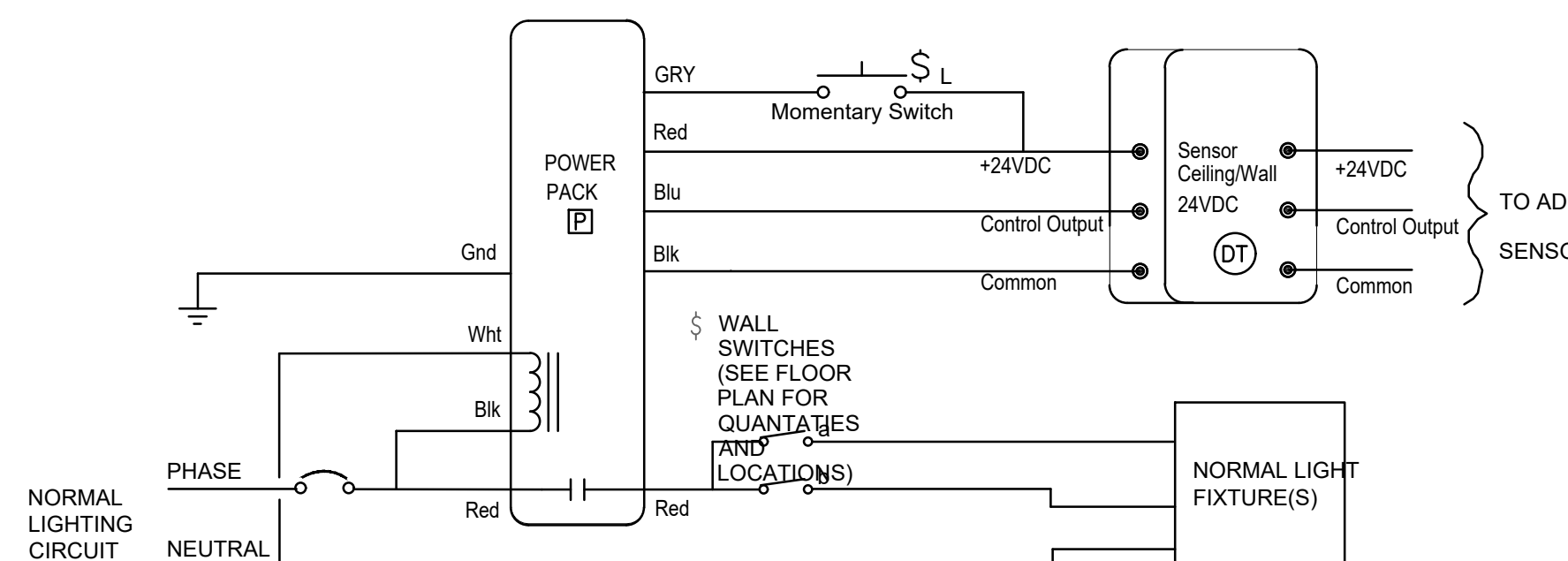
No Scale

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TYPICAL FOR MULTIPLE OUTS

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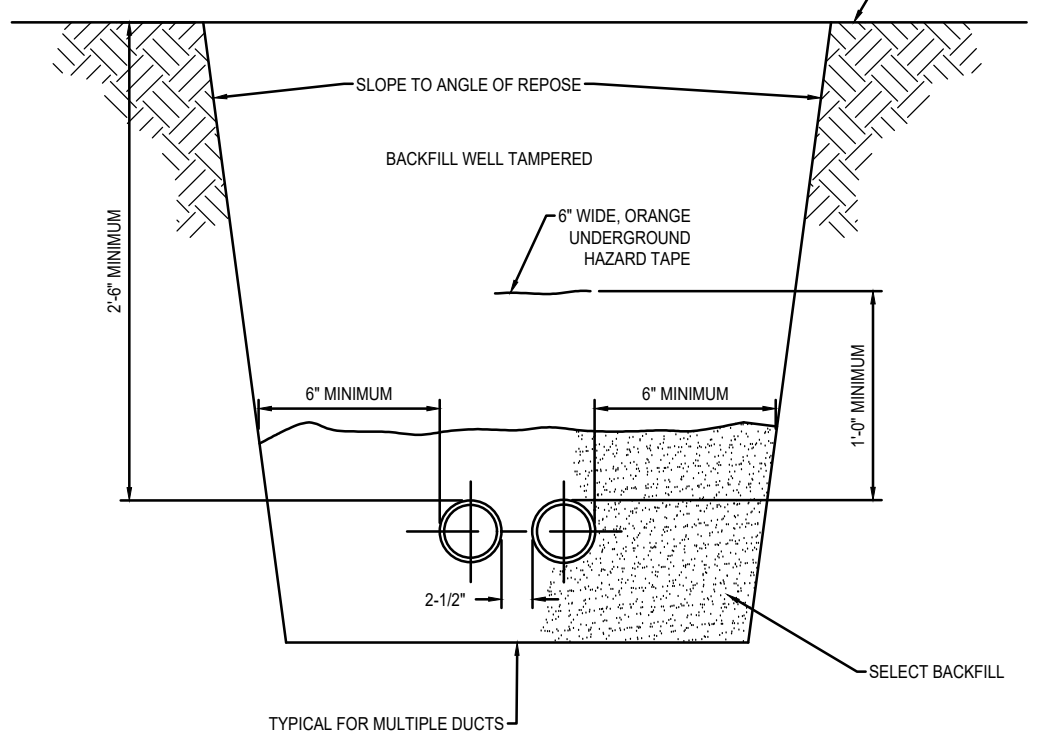
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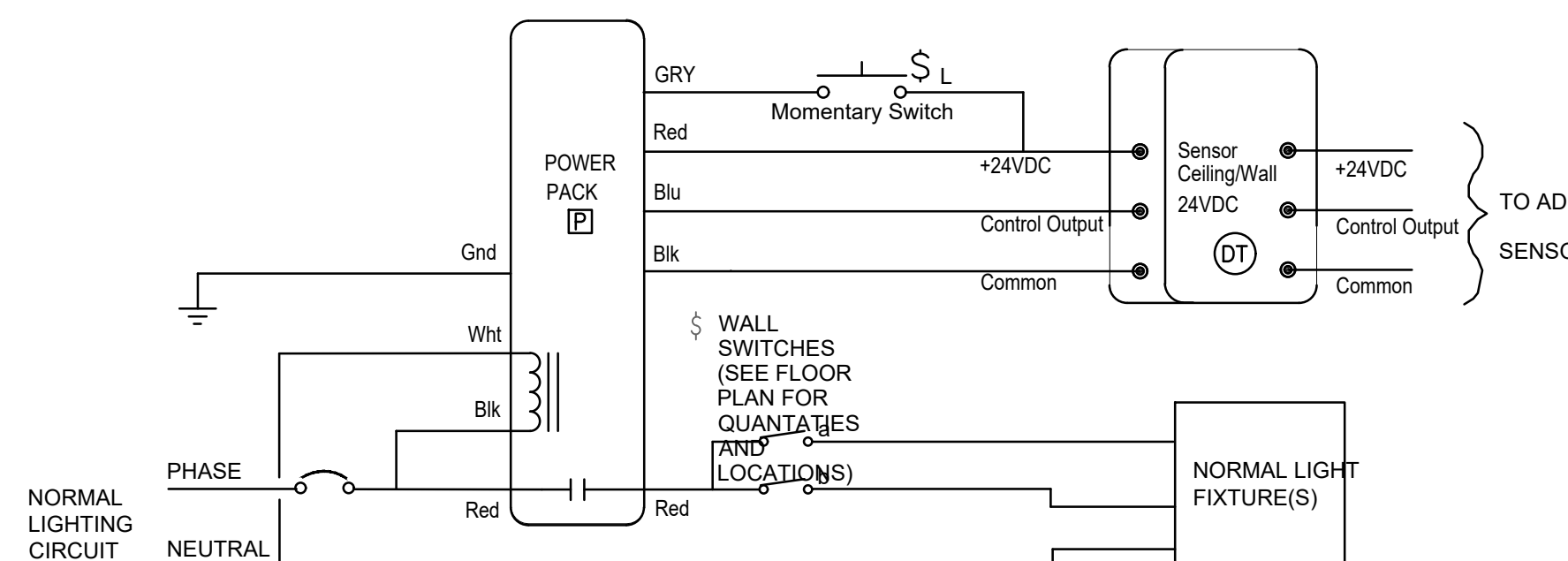
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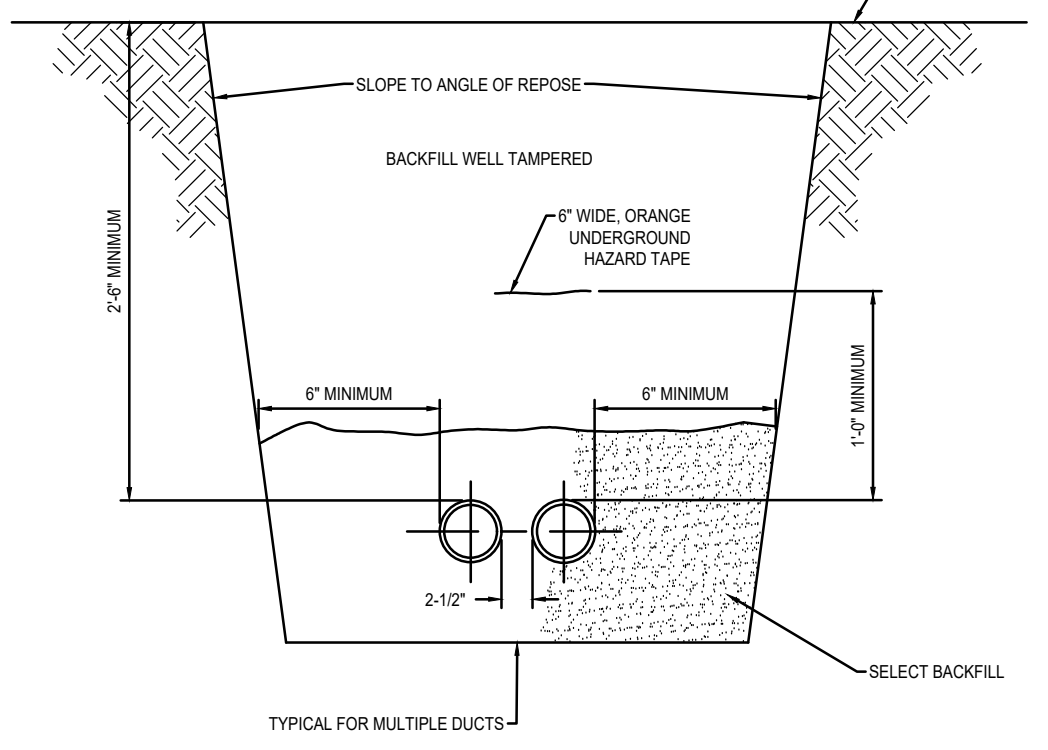
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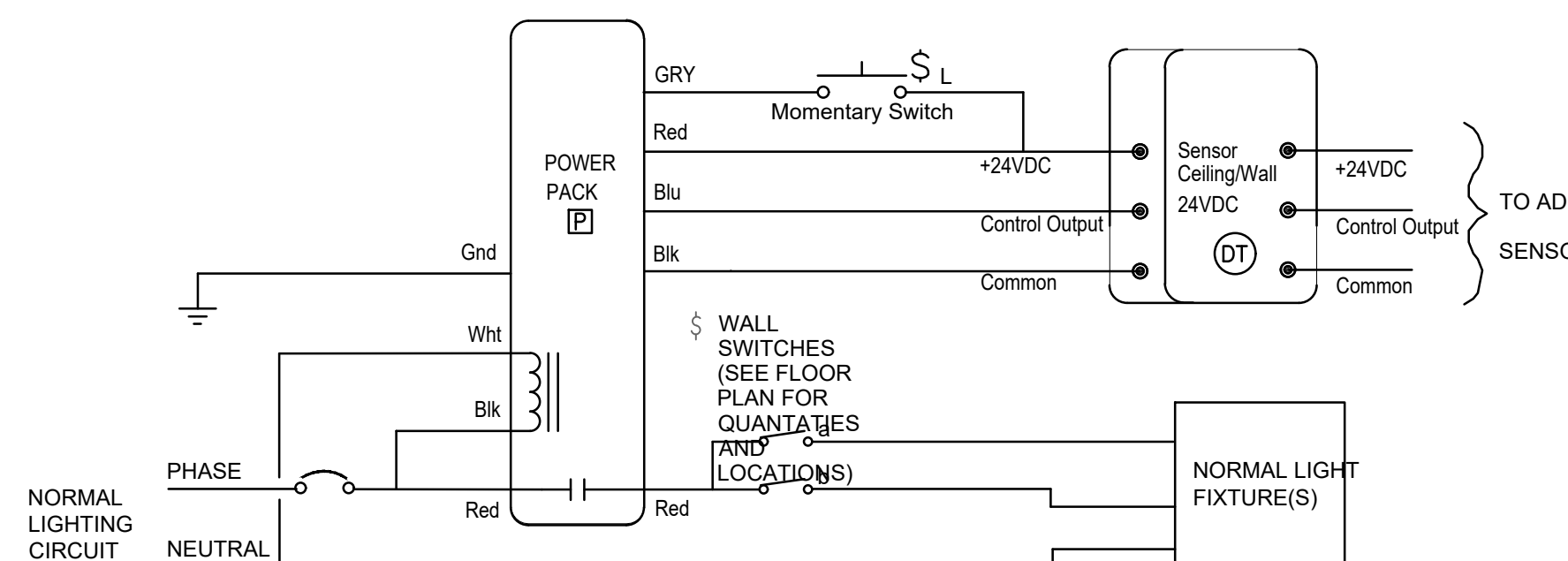
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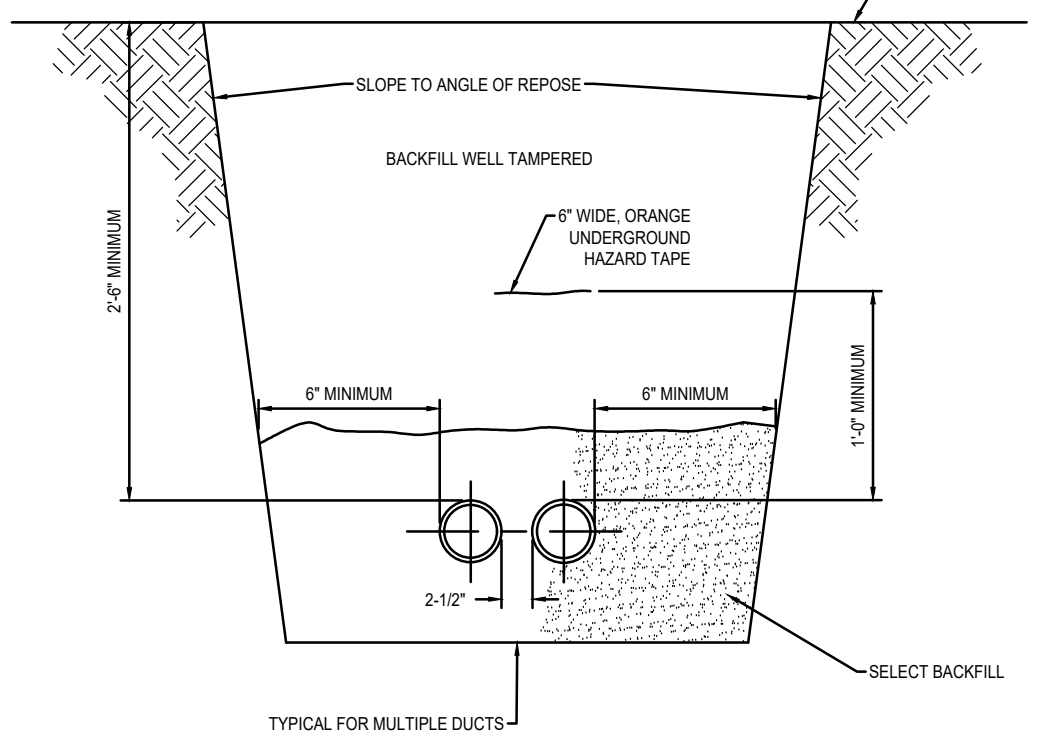
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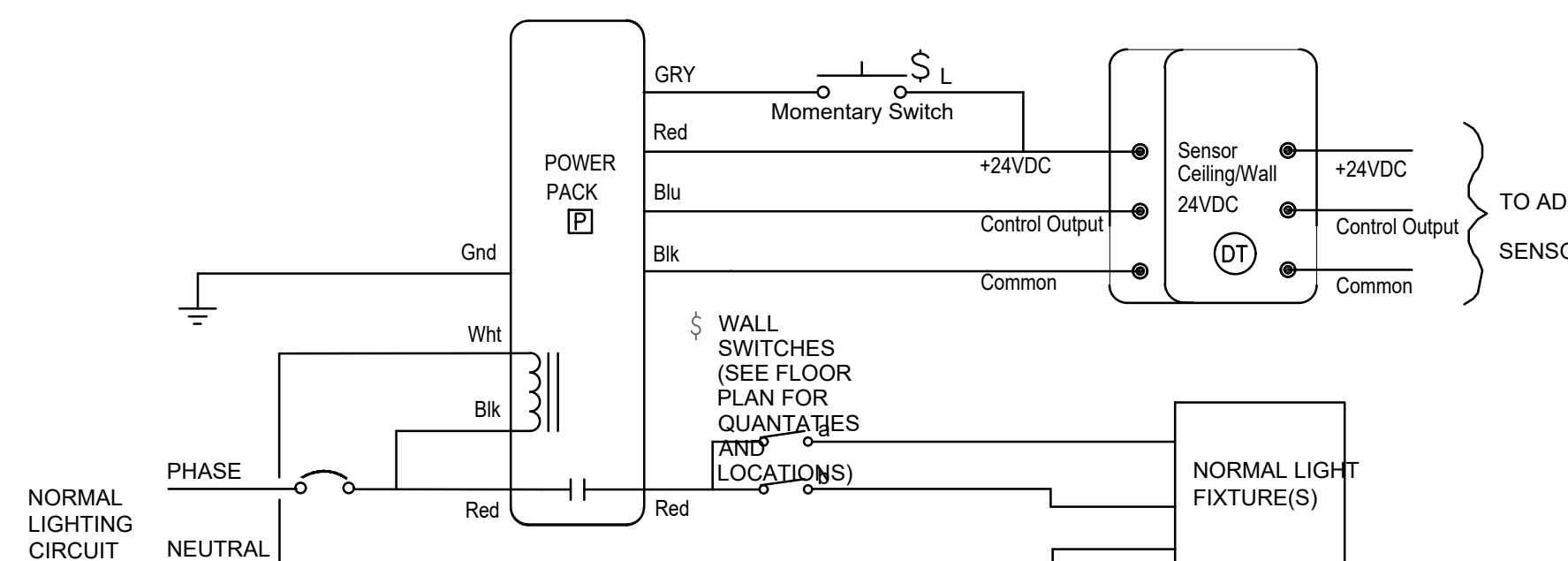
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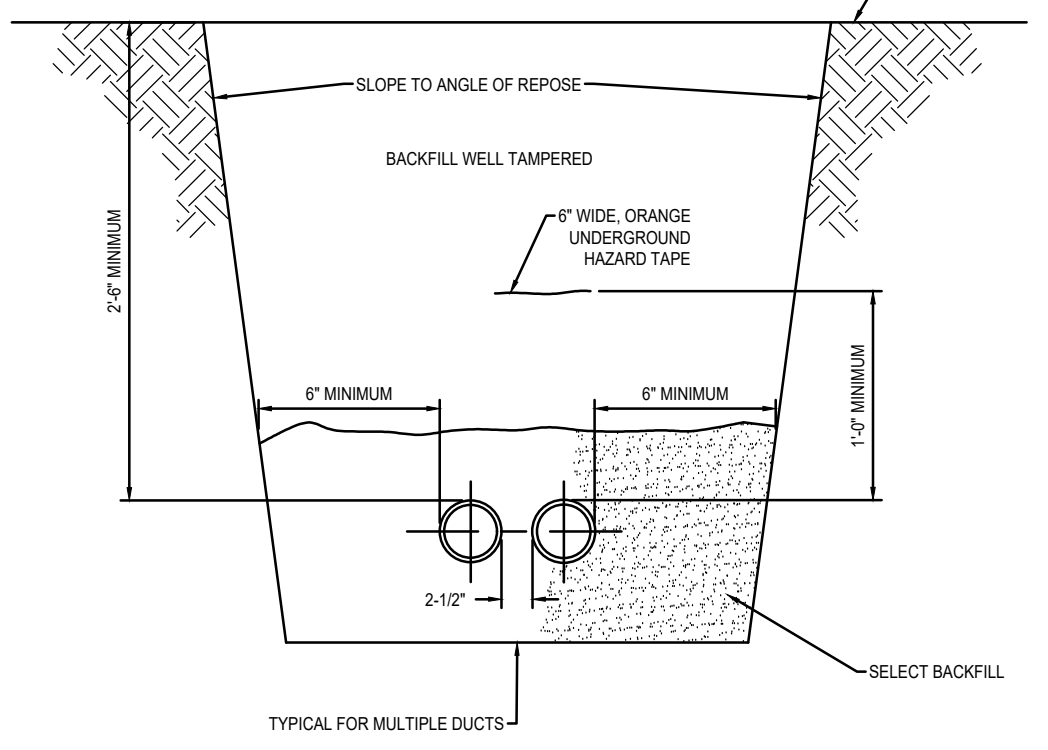
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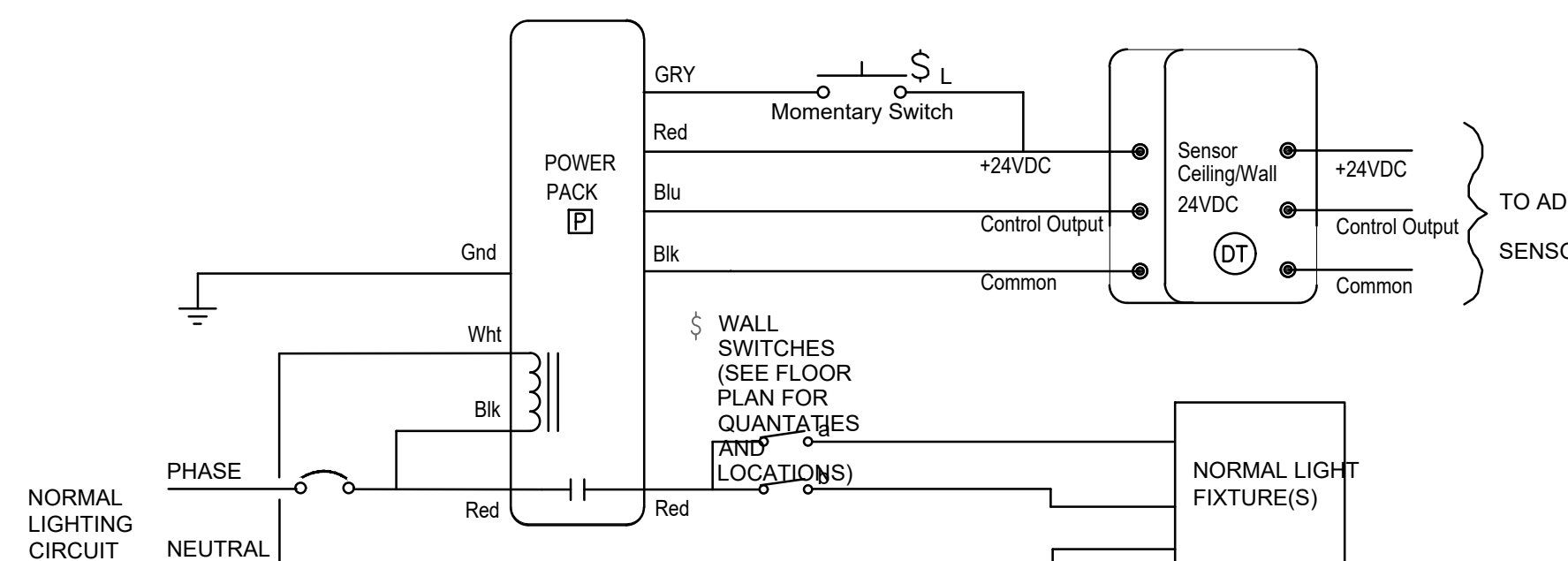
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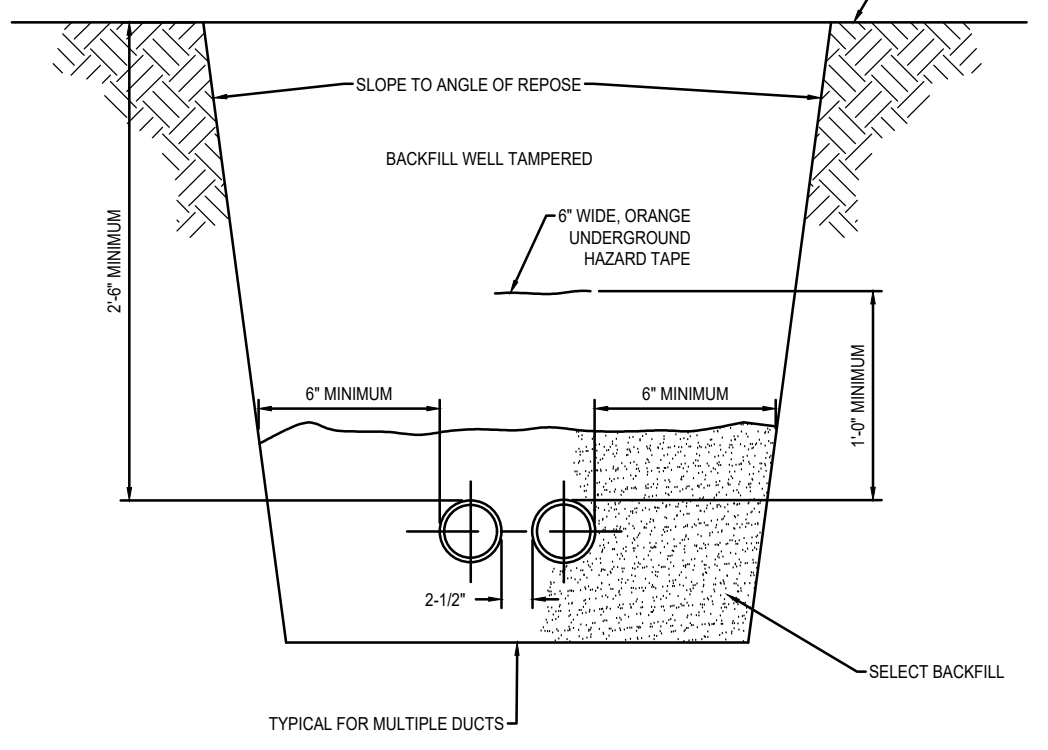
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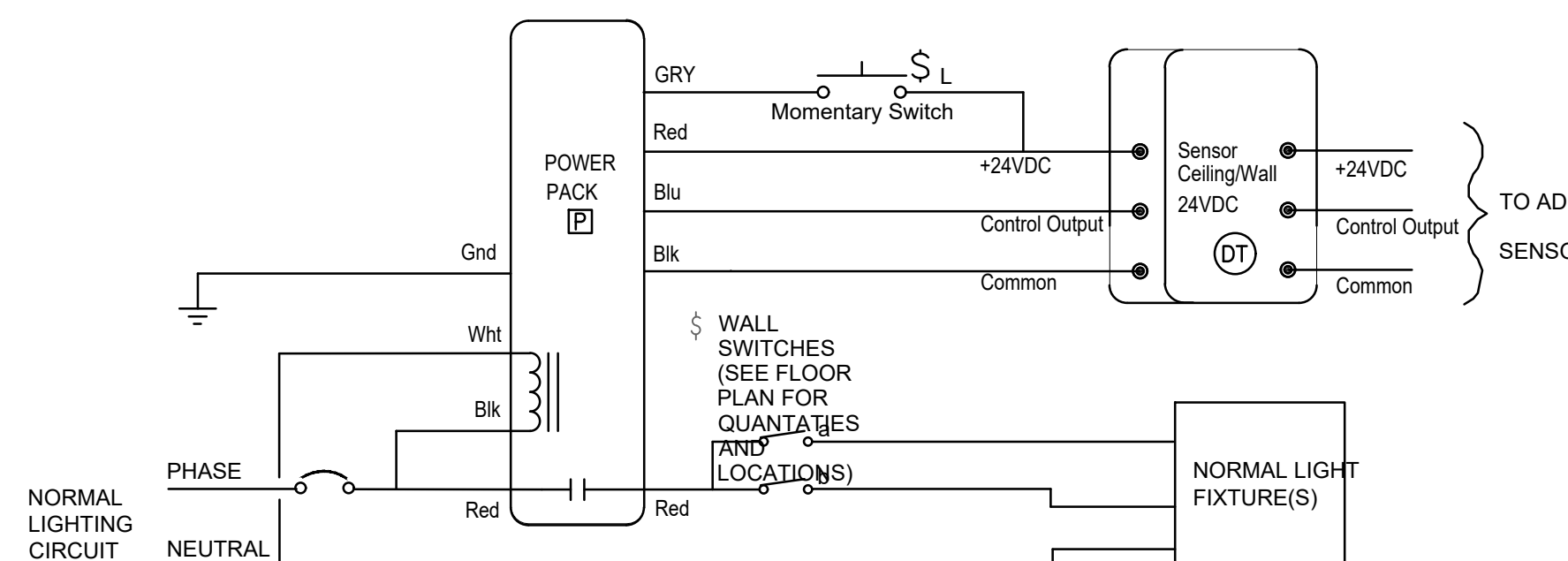
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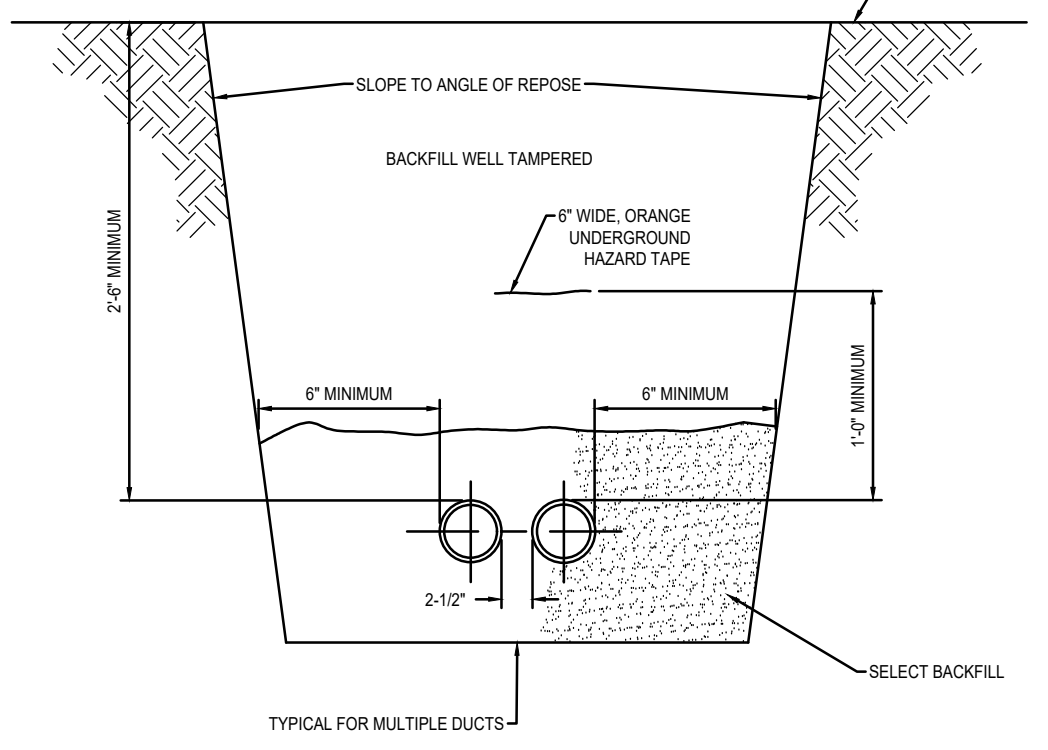
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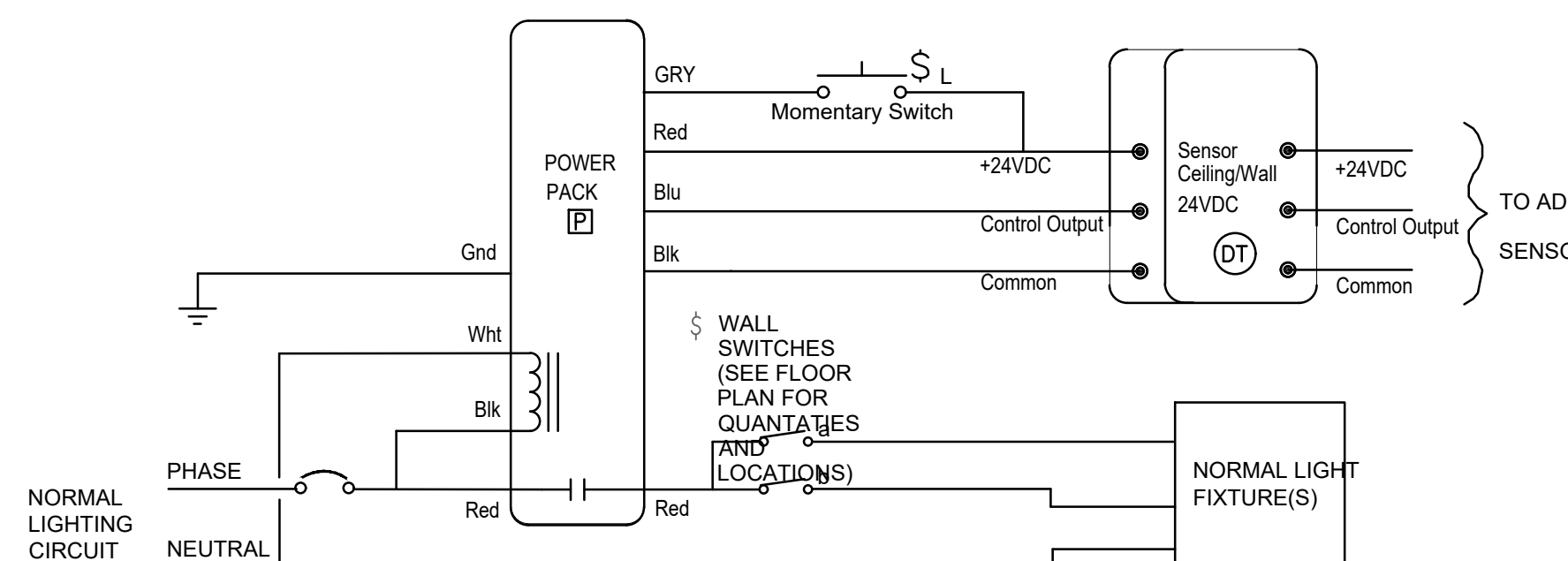
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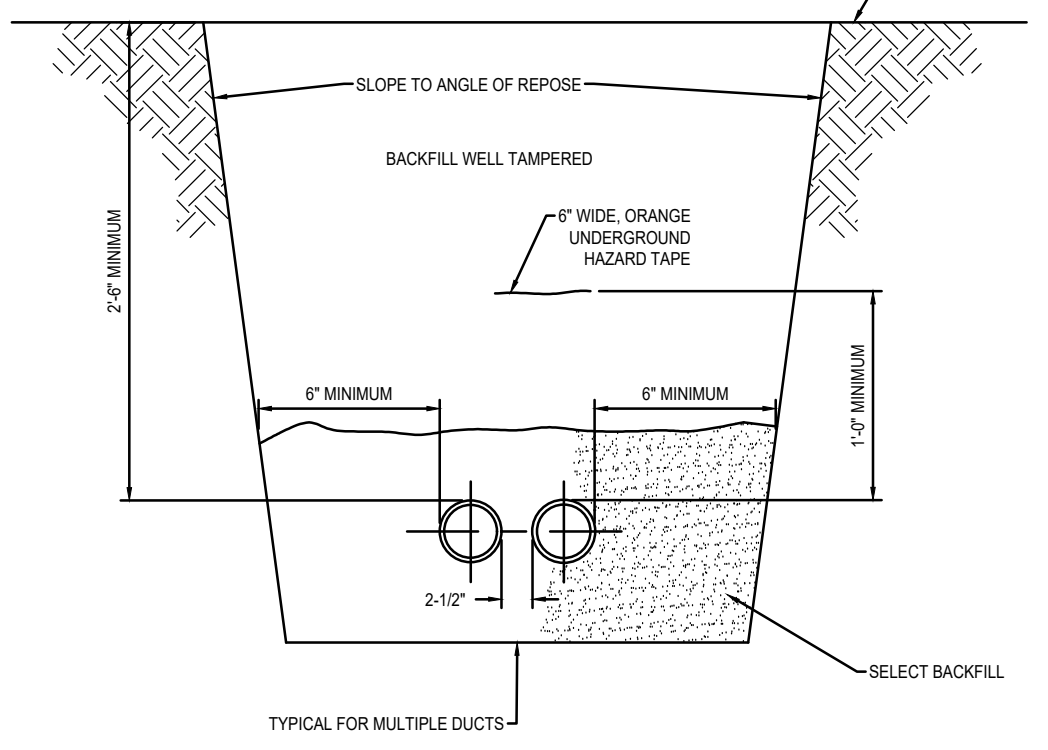
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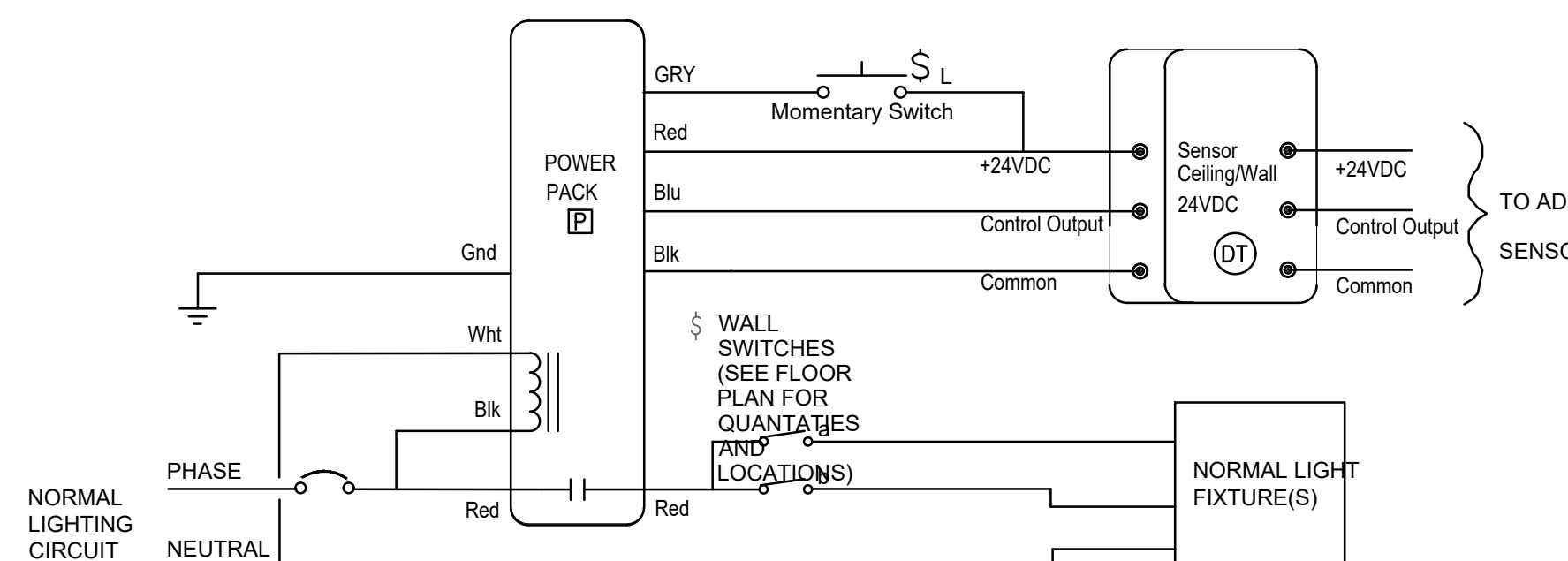
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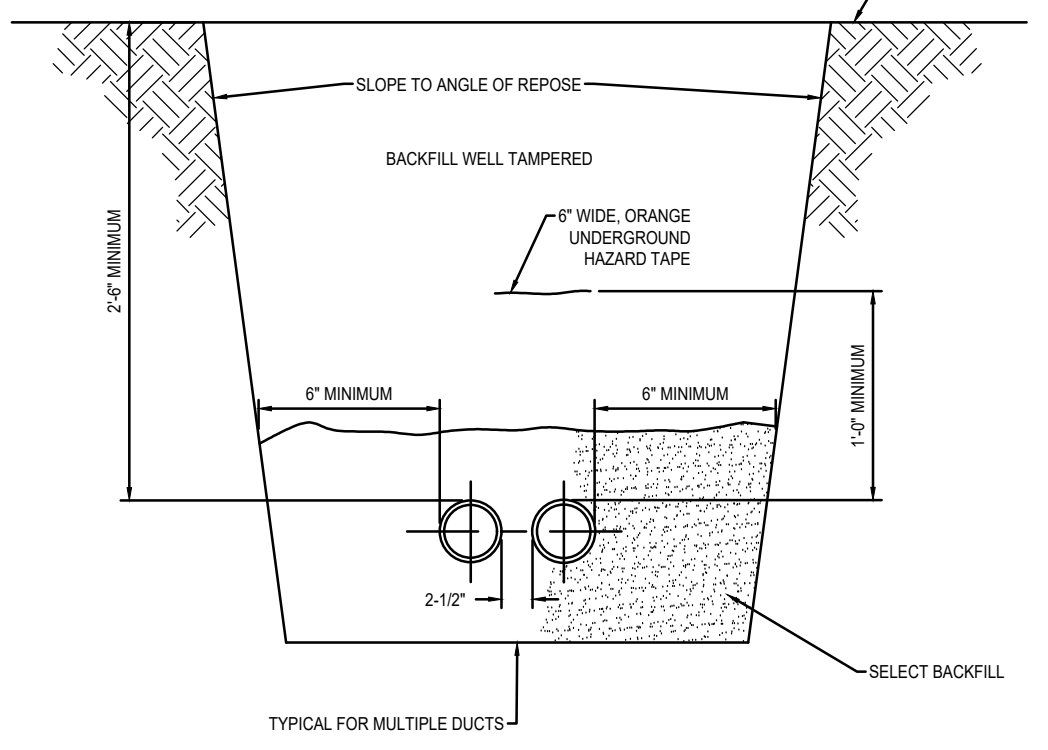
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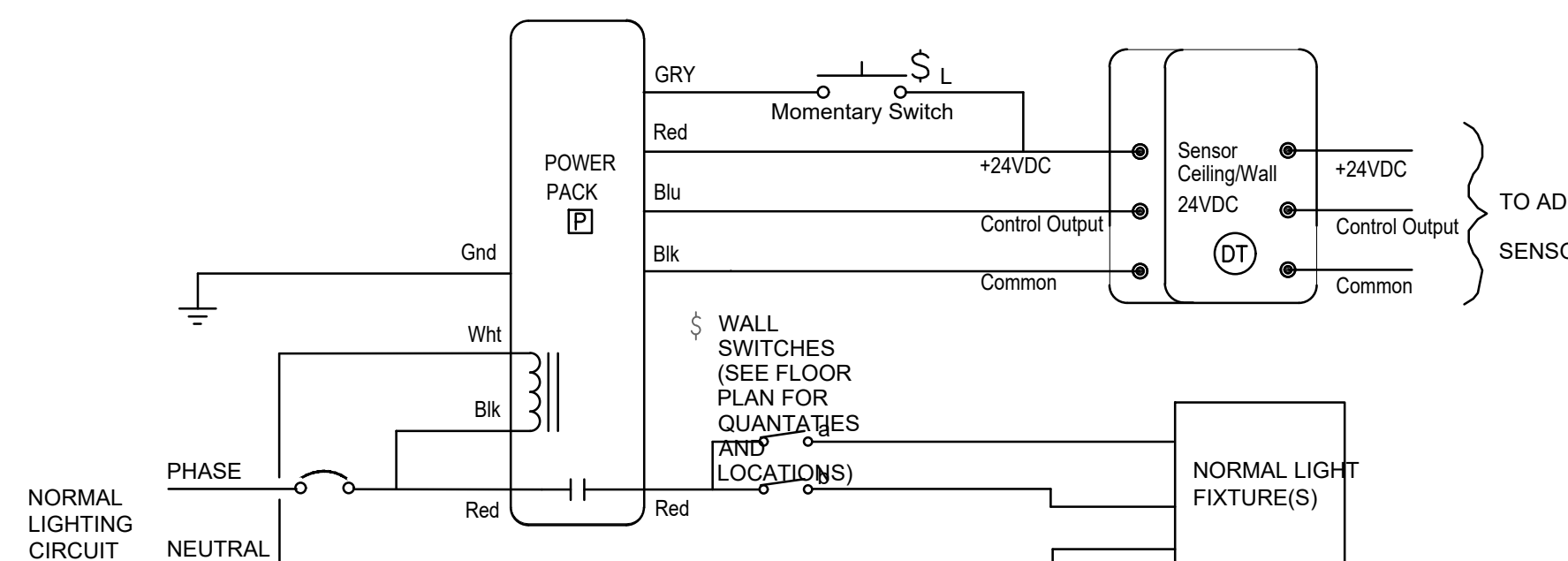
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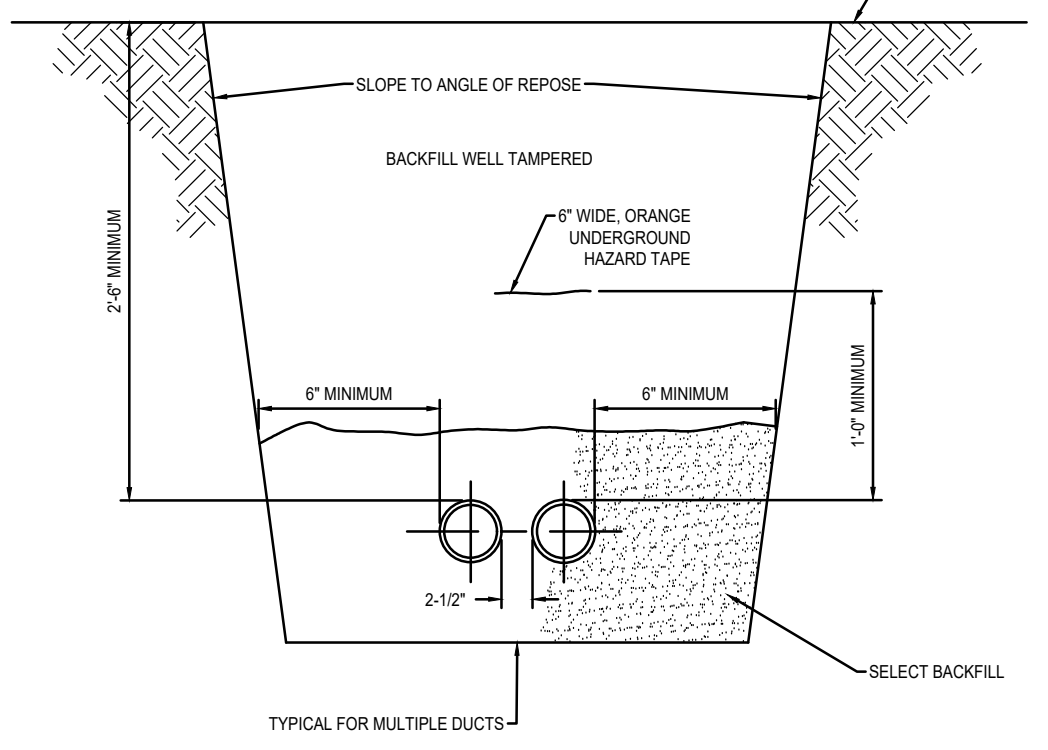
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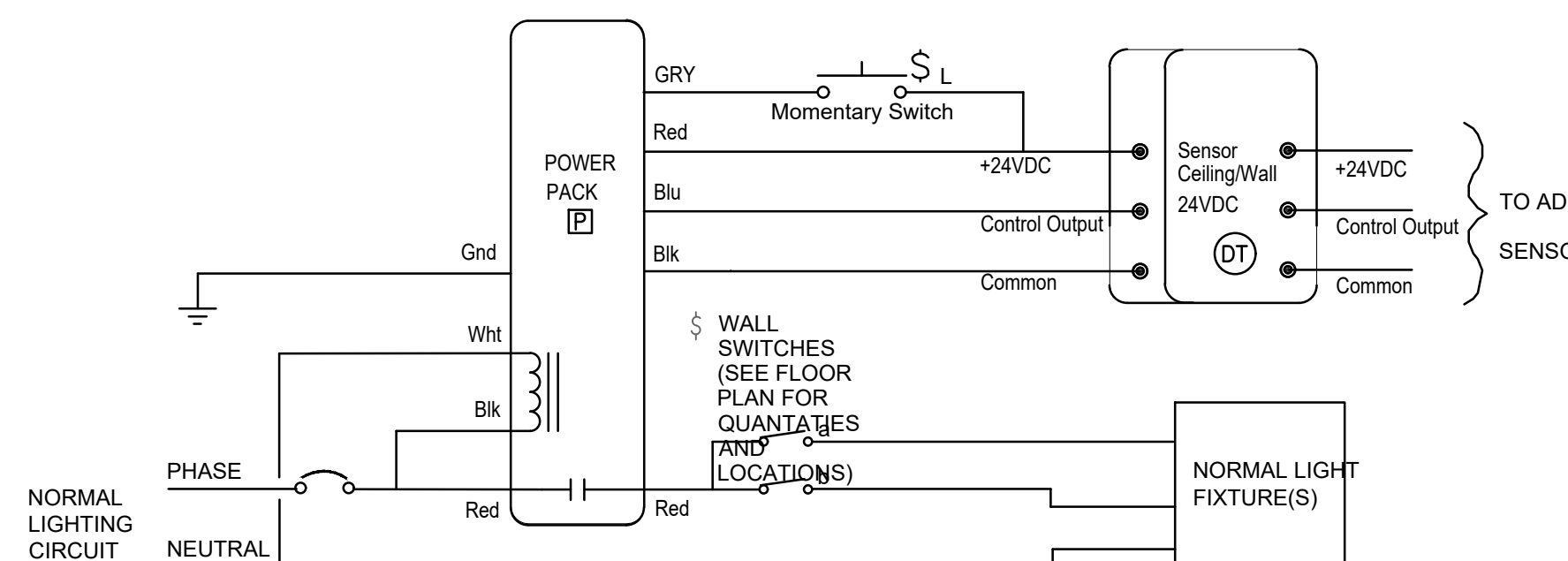
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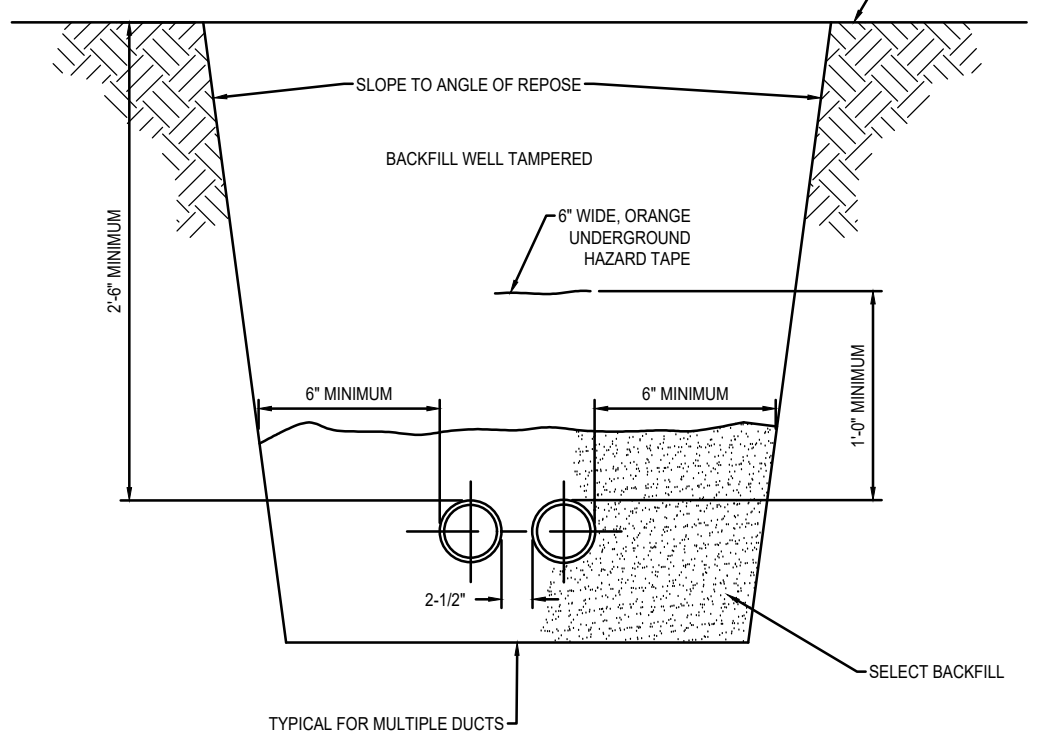
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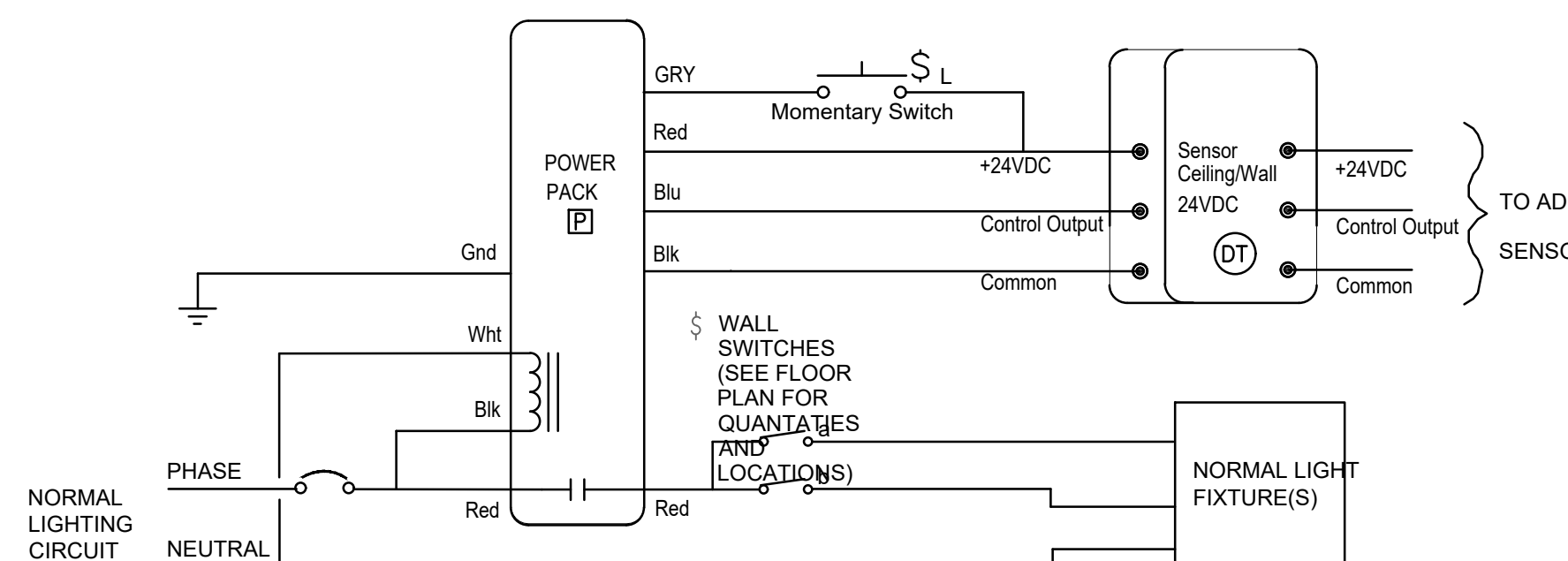
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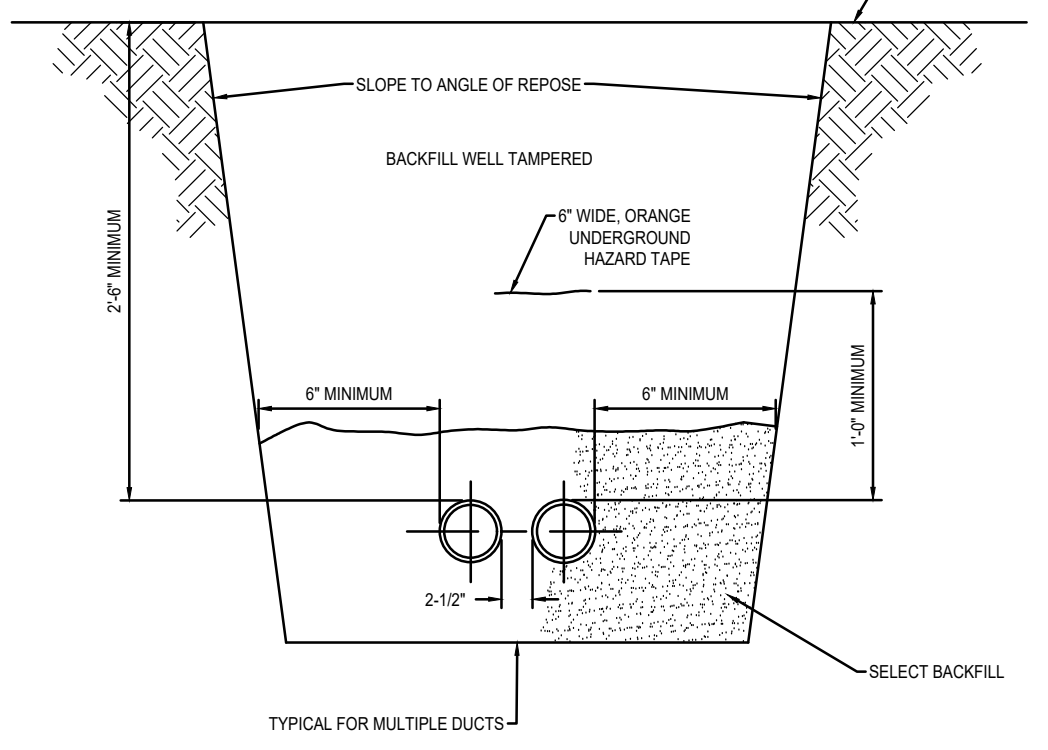
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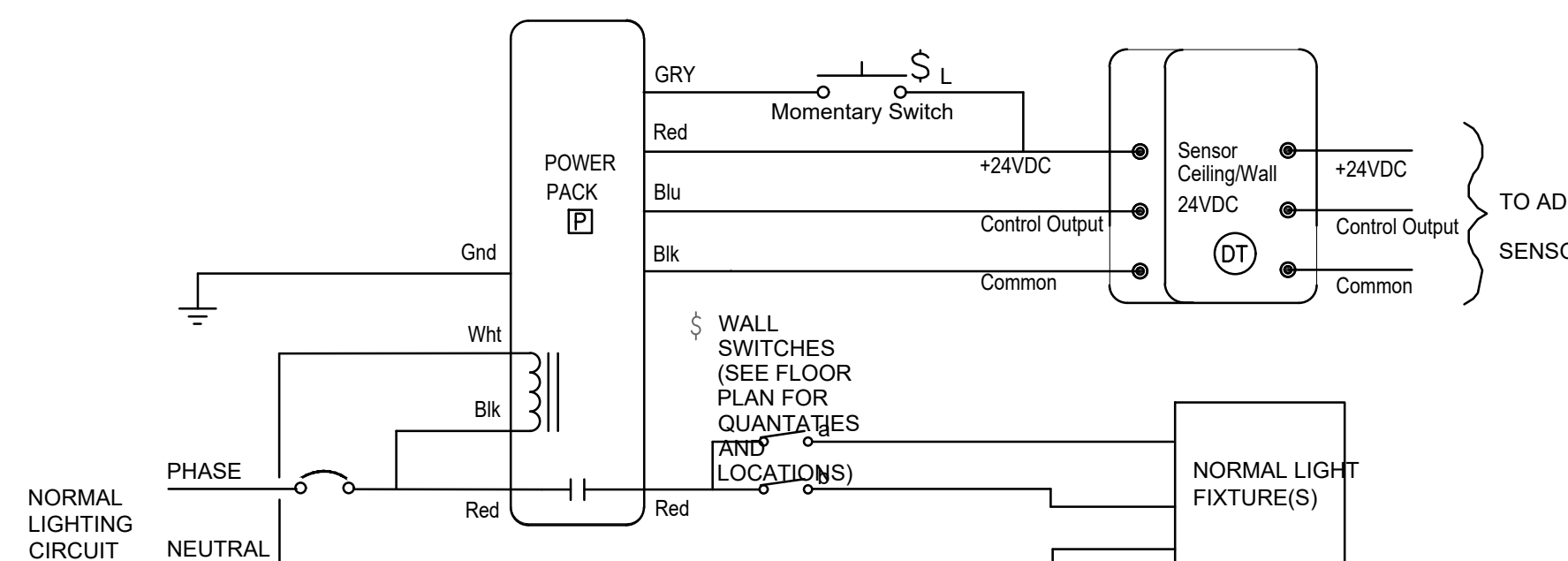
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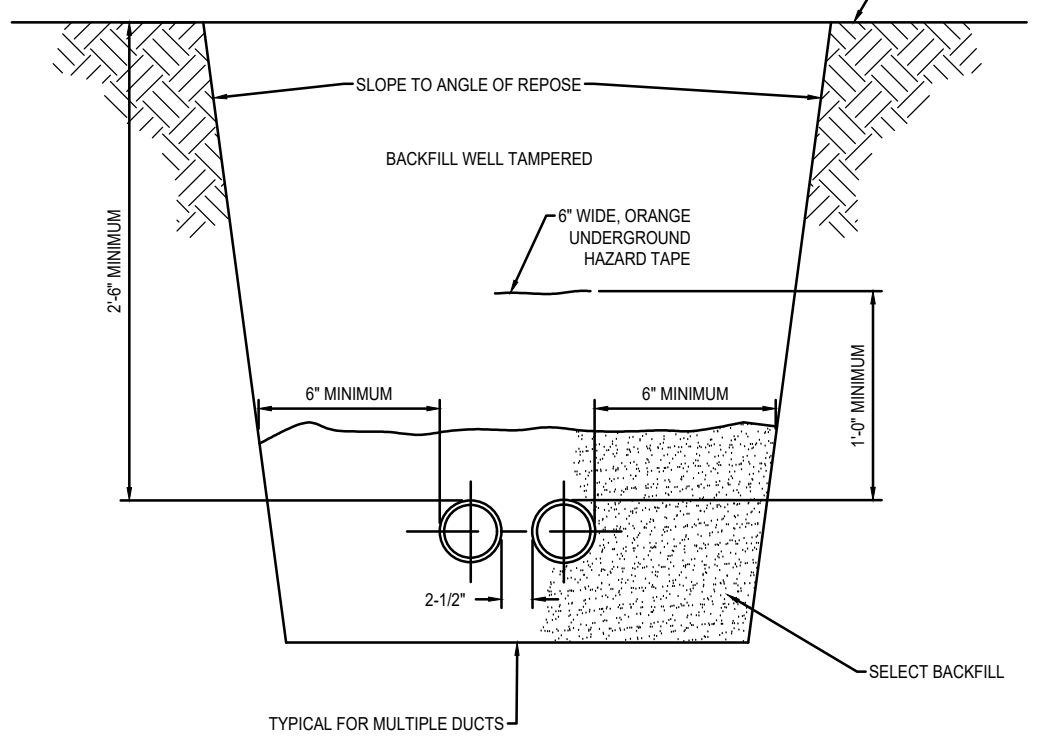
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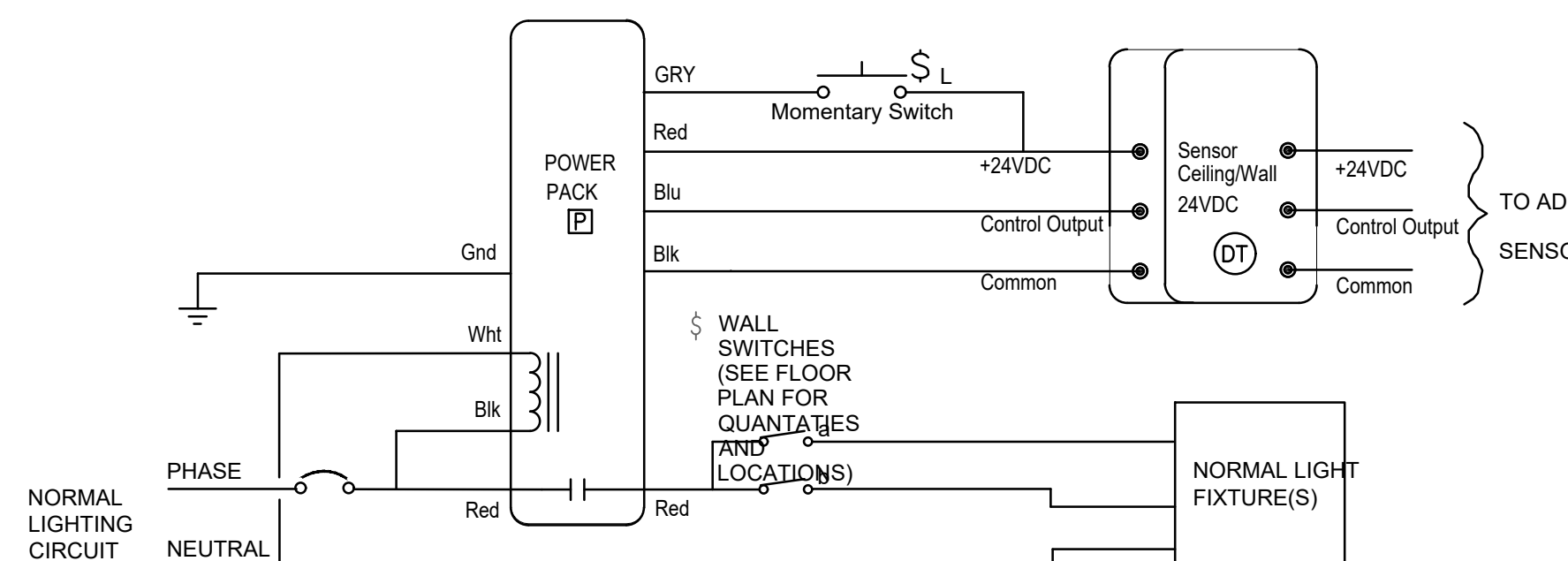
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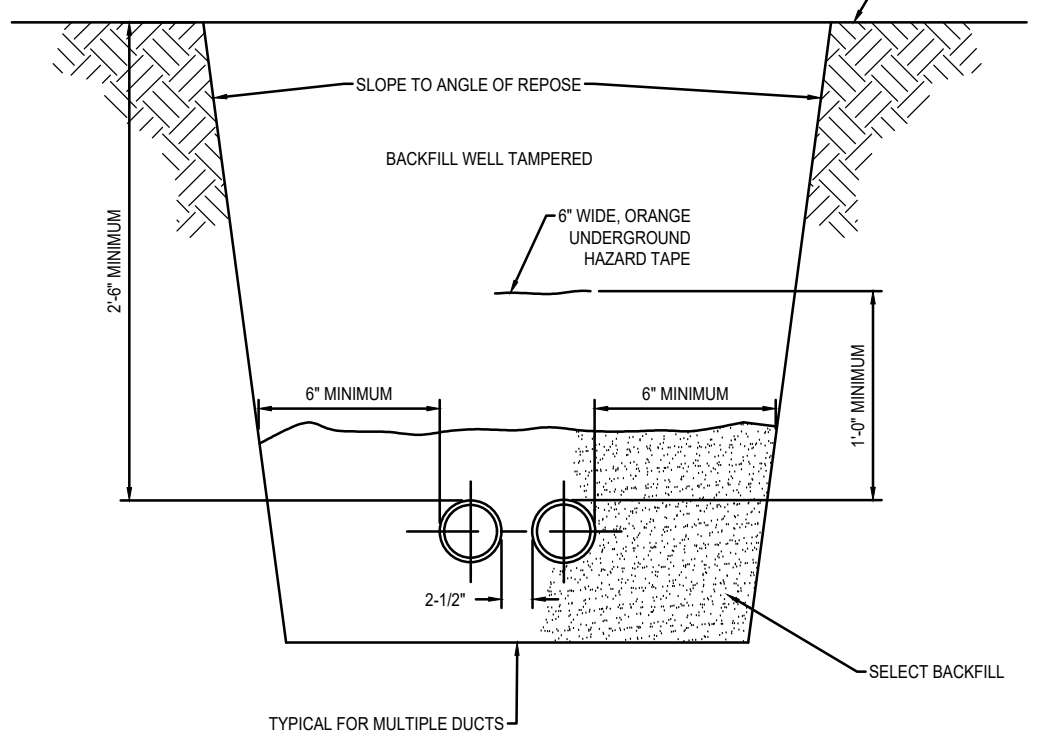
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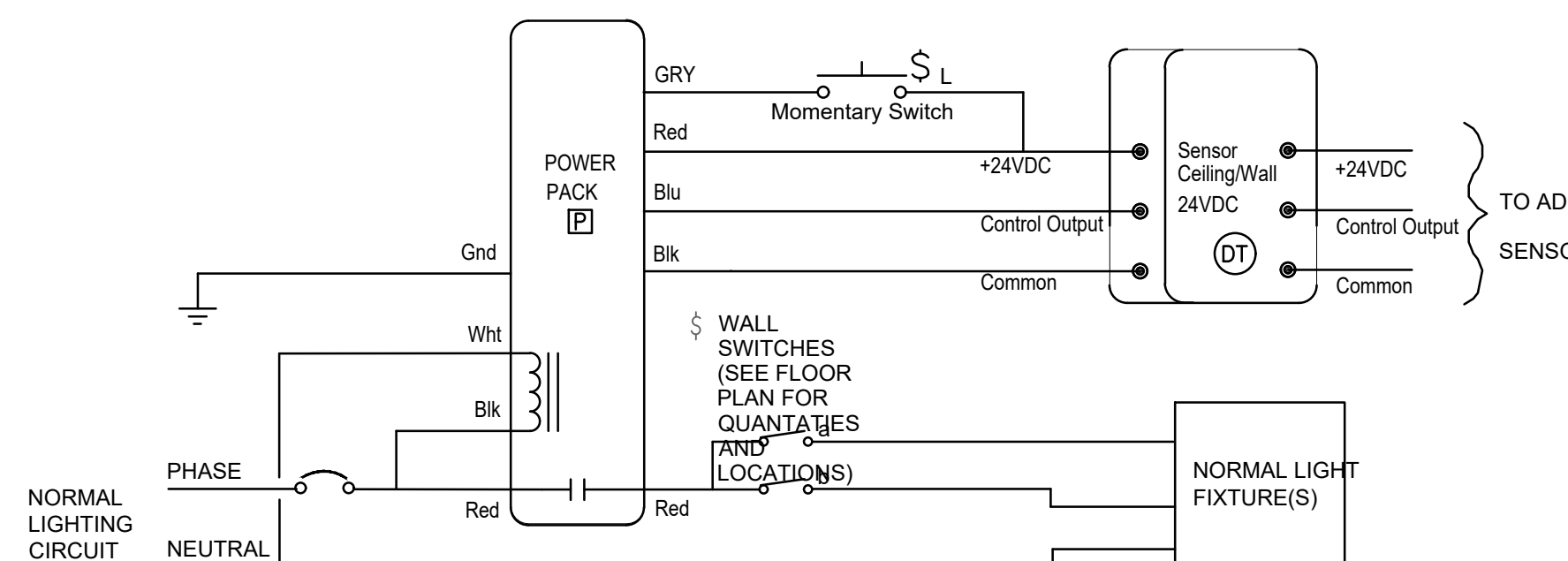
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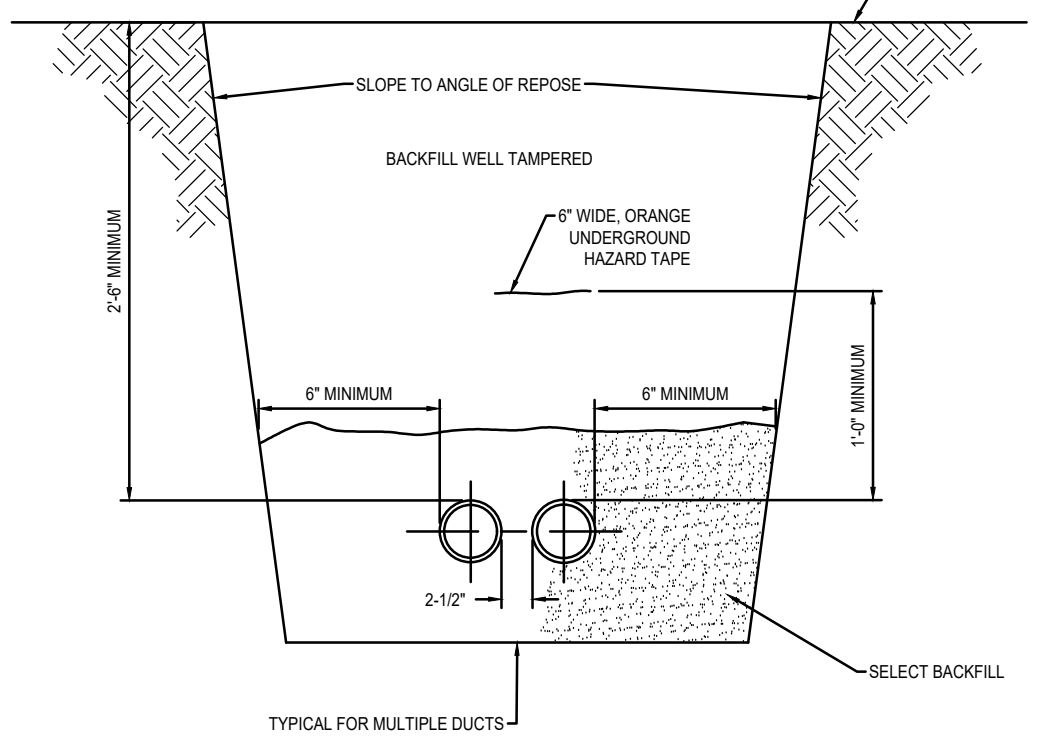
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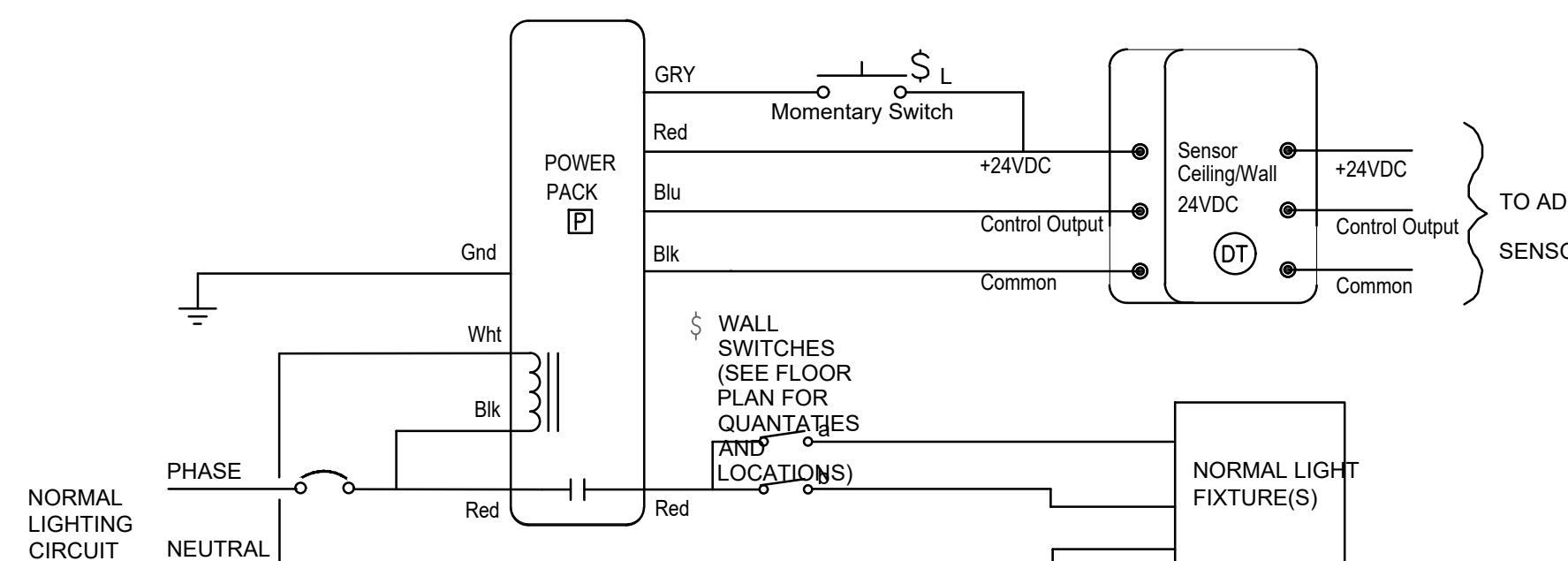
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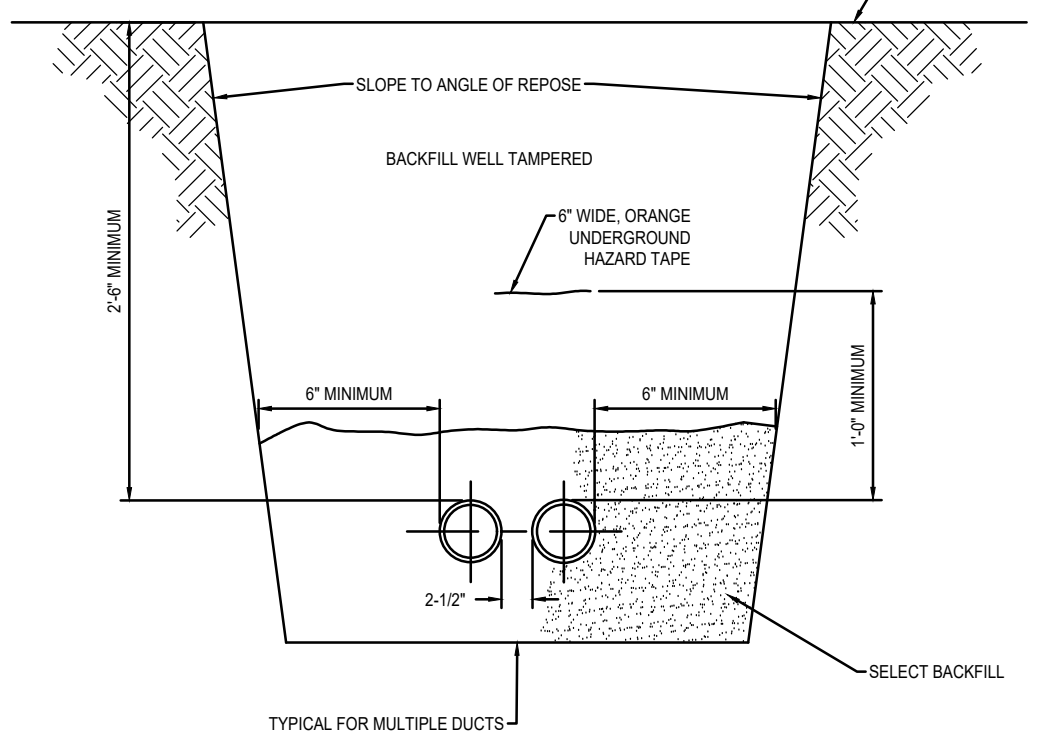
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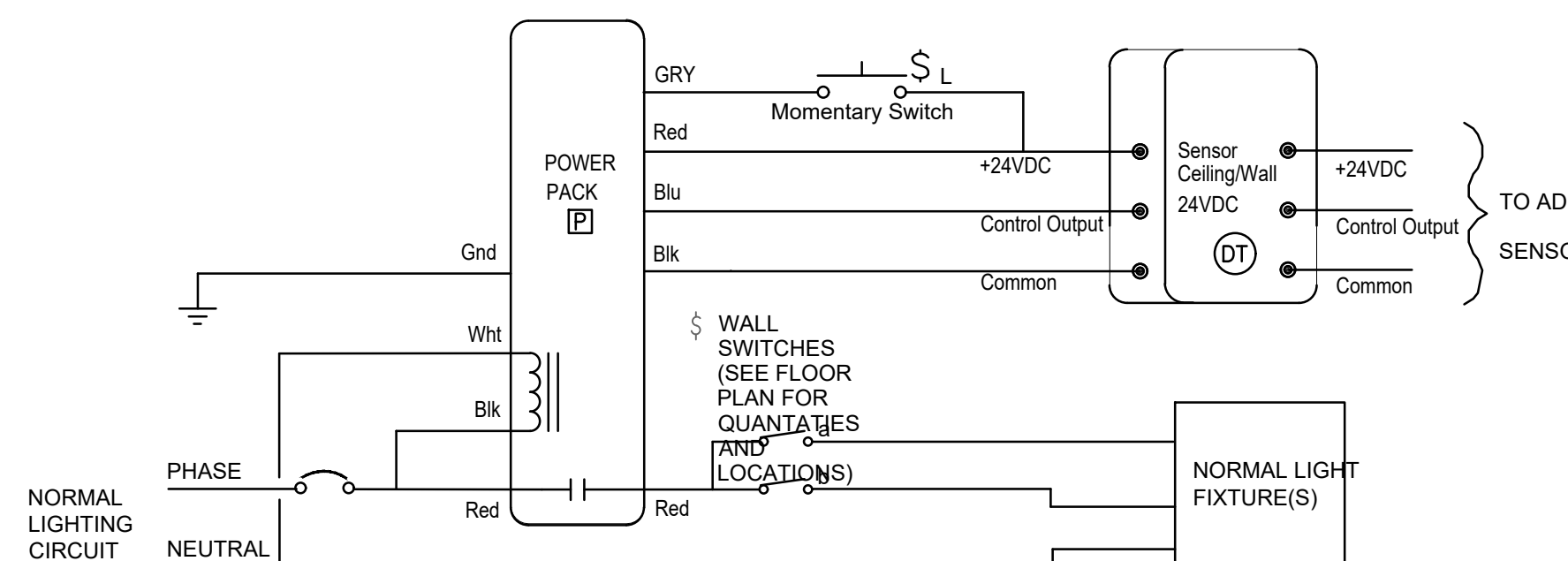
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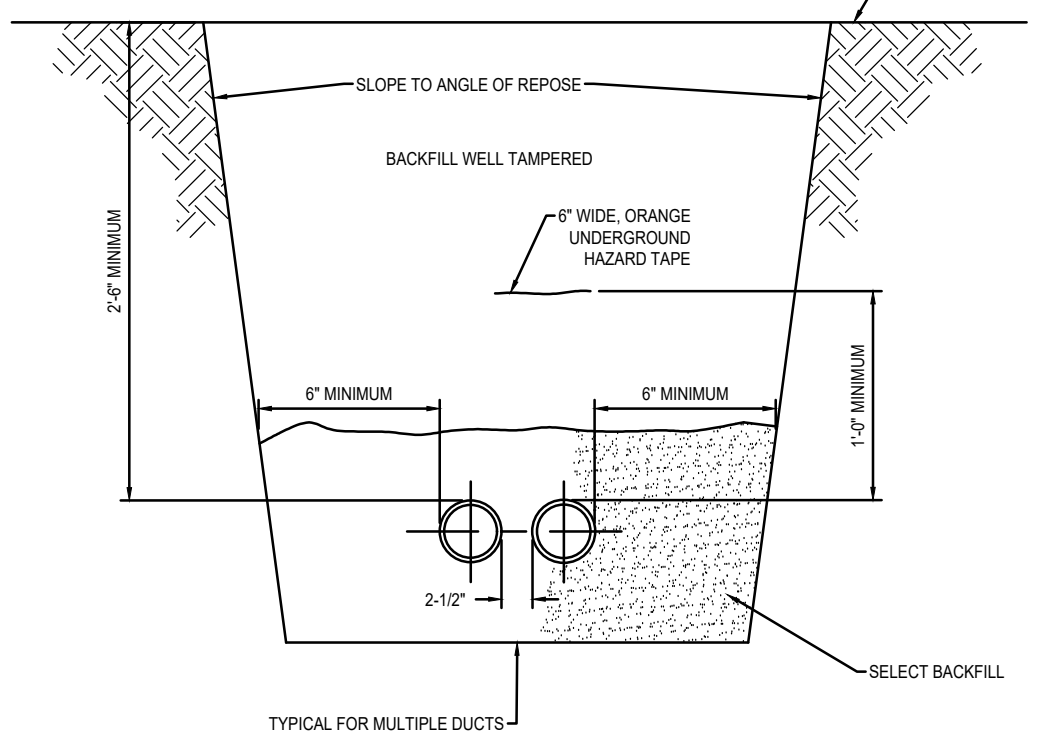
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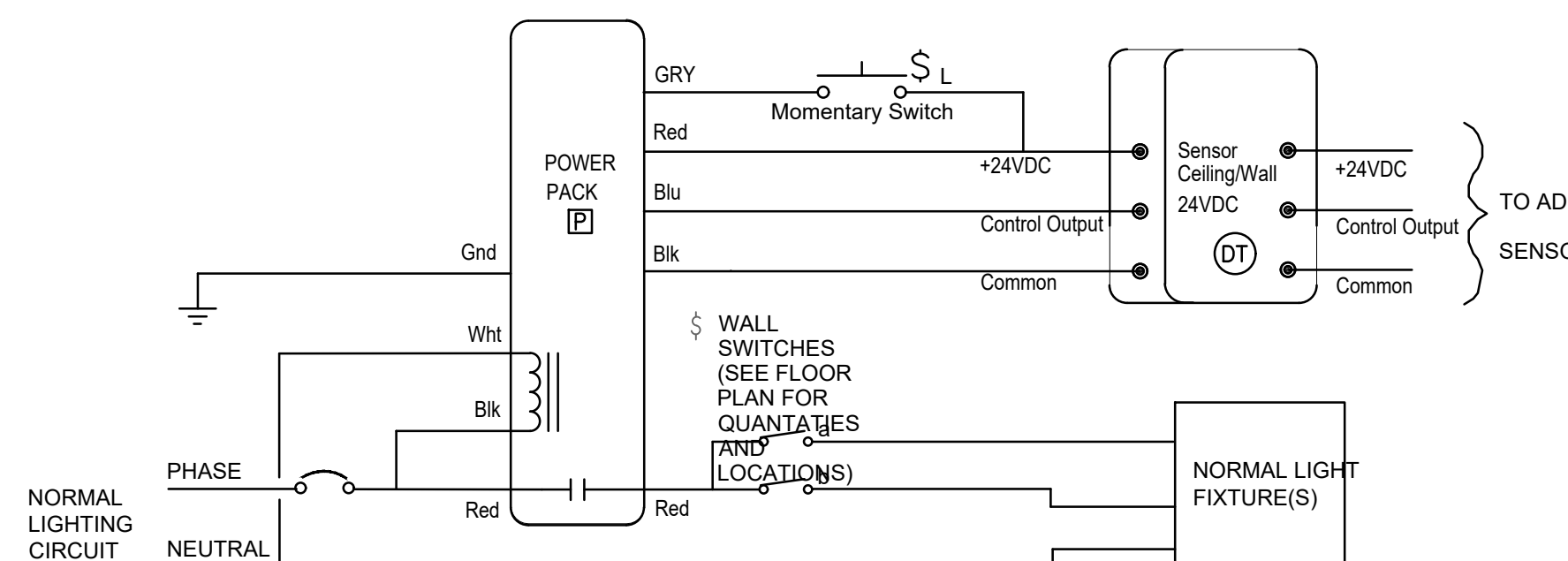
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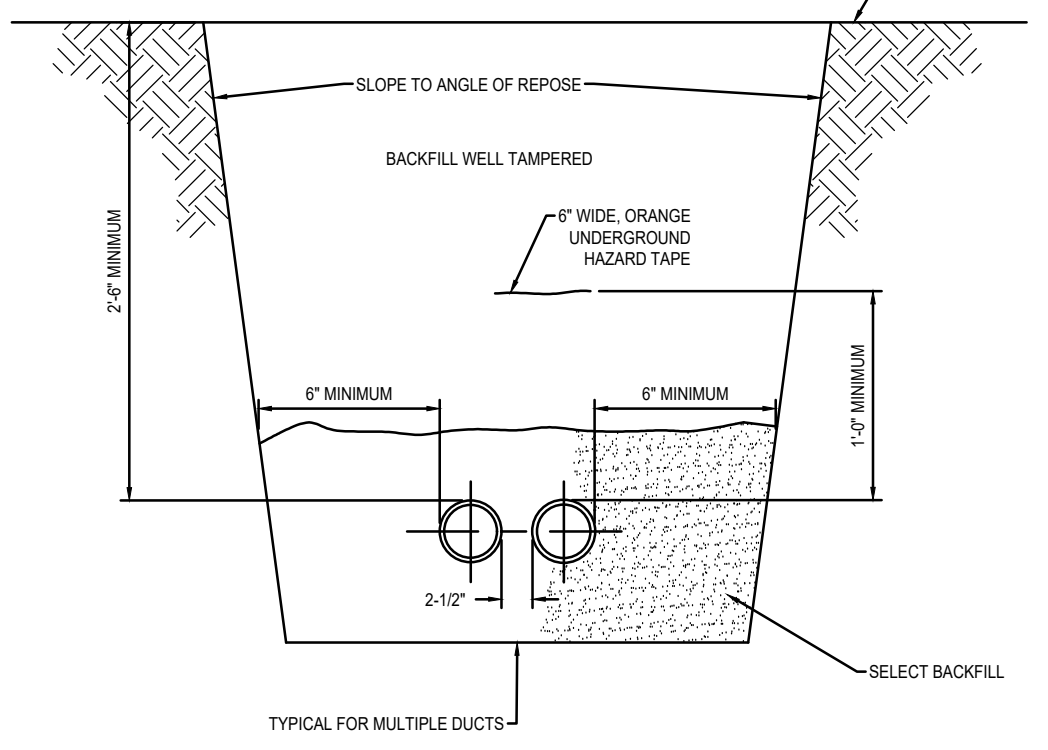
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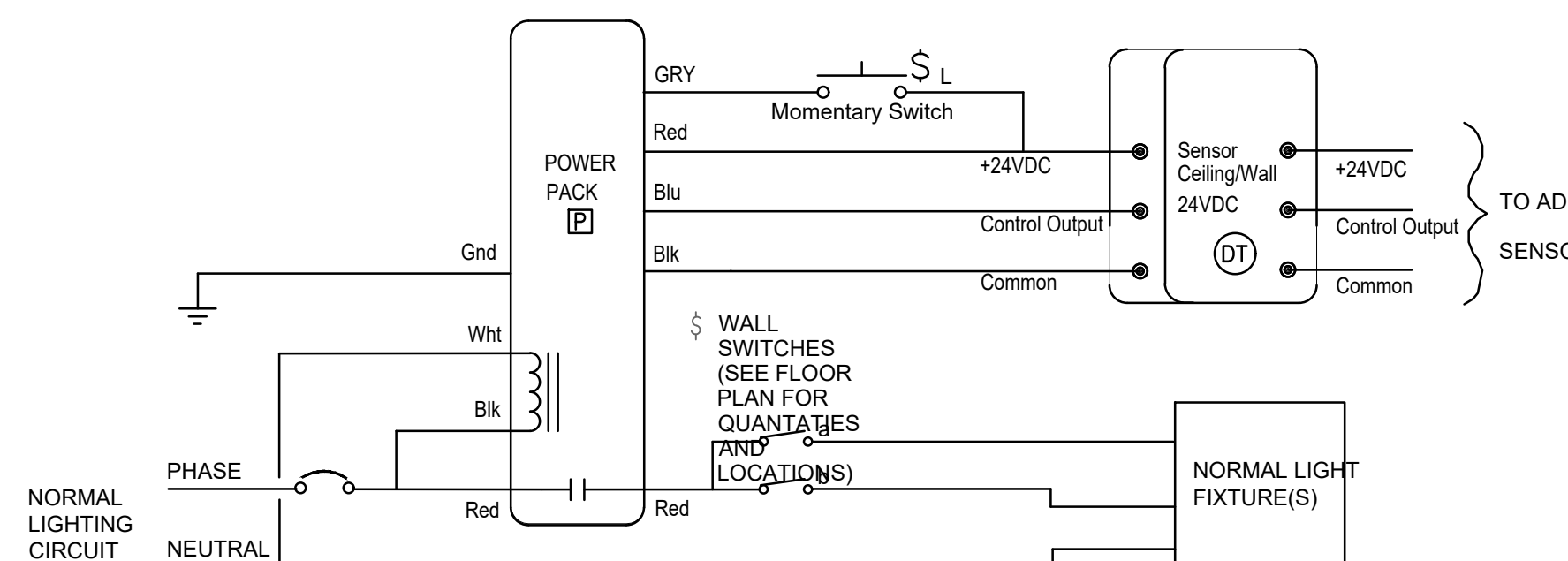
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