

APPLICATION FOR PERMIT FOR INSTALLATION OF UTILITIES OR PLACING OBSTRUCTIONS ON THE COUNTY HIGHWAY SYSTEM
ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL

APPLICANT NAME

Gateway Fiber Infrastructure LLC

CONTACT PERSON

Kirk Thaelke

ADDRESS

501 Fountain Lakes Blvd, Suite 105

CITY

St. Charles

PHONE NUMBER

3144956318

EMAIL

kirk.thaelke@gatewayfiber.com

COMPANY OR INDIVIDUAL PERFORMING WORK

Comlink

CONTACT PERSON

Spencer Nelson

EMAIL

spencer.nelson@comlink-solutions.com

PHONE NUMBER

612-346-5484

PERMIT WORK TO START

10/08/2025

BLAN-MN-01-08B - 109th Ave

PERMIT WORK TO BE COMPLETED

1/8/2026

DURATION OF JOB

90 days

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT?

No

ANOKA COUNTY PROJECT NUMBER

WORK SITE ADDRESS

109th Ave- Buchanan Rd going W. to Ulysses St.

CITY

Blaine

METHOD OF INSTALLATION/CONSTRUCTION

Directional Drilling

NATURE OF WORK Place fiber optic cable by way of directional drilling within the Anoka County ROW for Gateway Infrastructure LLC along 109th Ave from Buchanan Rd going West to Ulysses St. All vaults/ structures are labeled on the map sheets with exact sizes.

SURFACE TO BE DISTURBED

SITE PLAN

IF THE ROADWAY IS ENCROACHED, YOU MUST ATTACH A TRAFFIC CONTROL PLAN AND/OR REFERENCE THE MOST CURRENT VERSION OF THE MN TEMPORARY TRAFFIC CONTROL FIELD MANUAL (72+ HOURS REQUIRES PLANS TO BE SIGNED BY A MINNESOTA LICENSED PE).

X

DITCH/BLVD

BITUMINOUS

MEDIAN/ISLAND

SIDEWALK/TRAIL

AERIAL/NONE



Layout 57 - If lane is encroached

Layout 42 - If lane is encroached

Layout 45 - If lane is encroached

DEPTH FROM SURFACE

60"

(60" minimum under county roads)

SIZE AND KIND OF PIPE/CABLE

1.25" Duct/Fiber Optic Cable

NUMBER OF EXCAVATIONS

2

IS PERMANENT SIGNING AND STRIPING REQUIRED?

No

LOCATION AND SIZE OF EXCAVATIONS

ALL EXCAVATIONS ARE TO BE PROTECTED AND THEN BACKFILLED WHEN UNATTENDED AND/OR OVERNIGHT - STEEL PLATING MAY BE USED ONLY IF APPROVED PRIOR TO USE

Specific written descriptions of excavations - if shown on attached drawing, drawing shall be specific with depth and distance from centerline, curb, or other distinguishable location. Traffic control plans cannot be approved without specific excavation descriptions.

Approximately 24-36" deep within Anoka County Utility Easement along 109th Ave from Buchanan Rd going West to Ulysses St. as shown on map sheets.



ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

GENERAL INFORMATION	
One permit must be approved for each county road on which work will be performed prior to any work within the right of way by any utility/contractor. Emergency conditions which threaten the safety of the public and require immediate repair are exceptions to this rule. Under those circumstances, the utility/contractor is permitted to begin and/or complete the necessary repairs. The Anoka County Transportation Division (ACTD) shall be notified of emergency repairs as soon as feasible and a written permit is to be completed within two business days of occurrence.	
A license-permit bond is generally required of the contractor as part of the registration process, the amount of which will be determined by the nature of the utility work.	
A sketch or drawing shall accompany each permit application which will show the location of the proposed work/utility with reference to the county highway center line and right of way line. A complete set of plans is required for all sewer/water projects.	
It shall be the responsibility of the applicant to determine which of the special conditions apply to each permit.	
ACTD reserves the right to revoke any utility permit and halt work, if, upon inspection of any job site, the special conditions are not met, and/or a hazard exists for the applicant or public safety is threatened. The failure to comply with the terms and conditions of any applicable Federal, State, Regional, and local laws, rules and regulations, including any provision of Anoka County's Right-of-Way Ordinance shall be cause for immediate revocation of a permit.	
Anoka County hereby adopts and incorporates by reference the standards established by the Minnesota Pollution Control Agency's NPDES/SDS Construction Stormwater General Permit MNR100001 (CSW Permit) as amended in its entirety as now constituted and from time to time amended.	
The applicant shall notify ACTD immediately upon completion of project so that the ACTD can inspect the site to determine if restoration has been satisfactorily completed.	
The undersigned hereby accepts the terms and conditions of this permit and the regulations of Anoka County, and agrees to fully comply therewith to the satisfaction of the ACTD. The county of Anoka, its officials, employees, and agents, shall be held harmless, by the applicant/permittee, from any demands, claims, lawsuits, or damages relating to the work described in this permit.	
APPLICANT'S SIGNATURE	DATE 10/6/2025
<i>Signed by:</i> <i>Mykenzie Bessolo</i> 32AAE68BF78B434... DATE 10/6/2025	
AUTHORIZATION OF PERMIT	
In consideration of the applicant's agreement to comply in all respects with the regulations of the ACTD covering such operations, permission is hereby granted for the work to be done as described in the above application. Said work to be done in accordance with the general conditions listed above and the special conditions required as hereby stated. It is expressly understood that this permit is conditioned upon replacement or restoration of the county highway and its right of way to their original or to a satisfactory condition. It is further understood that this permit is issued subject to the approval of local city or township authorities having joint supervision over said street or highway.	
APPROVED BY:	DATE
TITLE: Engineering Technician	

NOT VALID UNLESS SIGNED BY ANOKA COUNTY

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY
ACTD reserves the right to make changes to these special conditions.



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SPECIAL CONDITIONS
<u>TRAFFIC CONTROL</u> 1) Detours a) Detailed detour layouts shall be submitted to the Anoka County Traffic Engineer for approval. b) No detours shall be permitted without prior approval of the Anoka County Traffic Engineer. c) A ten day notice must be given prior to the installation of any detour. d) It shall be the responsibility of the applicant to notify Anoka County Central Communications, local government bodies, and any affected bus companies ten days prior to any road closures/detours. e) Immediately upon completion of work and/or detours, all posts, barricades, and signs shall be removed from the right of way. 2) Traffic control devices a) All traffic control devices, barricades, flashers, etc., shall be furnished by the applicant and shall be in accordance with the most recent edition of the Minnesota Manual on Uniform Traffic Control Devices and temporary traffic control zone layouts – field manual of the same manual.
<u>CONSTRUCTION REQUIREMENTS</u> 1) Open cutting of bituminous or concrete surfaced roads will be allowed only at the discretion of the County Engineer. 2) Neither supplies nor excavation materials shall be placed on the bituminous or concrete surface at any time. 3) No trenches will be allowed to remain open overnight. 4) Materials removed from the trench shall be used as backfill insofar as they are suitable. All backfill material shall conform to MNDOT specifications for compaction. The use of heavy equipment on top of trench, slapping with backhoe bucket and/or back casting to achieve compaction is prohibited. Any additional material required to back fill to the original grade shall be furnished by the applicant at no expense to the ACTD. All the base and surface courses damaged during construction operations shall be restored to a condition equal to or better than before operations began. The applicant shall be responsible for and restore any settlement. 5) All culverts, ditches, shoulders, and backslopes shall be restored to their original condition unless otherwise directed by the ACTD. Shoulders which have been previously constructed or reconstructed with special materials shall be replaced in kind. Restoration of signs, guardrails, guard posts, etc., are the sole responsibility of the applicant and shall be restored to their original condition. 6) All roadway maintenance required within the limits of the utility project that is related to the applicant's activities shall be the sole responsibility of the applicant for one year after completion of the project. Upon completion of the restoration work, the applicant shall request a final inspection by the ACTD. The ACTD's approved completion date shall be the starting date of the applicant's one-year responsibility.
<u>HORIZONTAL BORING AND JACKING</u> 1) All hard surface roadways shall be jacked or bored. 2) All crossings of Anoka County maintained roadbeds, shall be made by boring inside a casing or carrier pipe, or by jacking unless otherwise directed by the Anoka County Engineer. The auger shall lead the casing or carrier pipe by at least six inches whenever possible and never lead the carrier pipe by more than one inch. 3) The use of pneumatic devices to facilitate the roadbed crossings will be allowed in most cases with prior approval. In the event approval is not granted and applicant uses a pneumatic device to cross a roadbed and encounters an obstruction and/or unstable subbase material which makes forward or reverse motion of pneumatic device impossible, said pneumatic device then becomes part of the roadway subbase and permission to excavate to retrieve device will not be granted. 4) If a pneumatic device is used for the work permitted herein, the installation must be kept to a minimum of four feet below the surface of the roadway if the pneumatic device is less than two inches in diameter, and a minimum of five feet below the surface of the roadway if the pneumatic device is two inches in diameter or larger.
<u>BITUMINOUS RESTORATION</u> 1) The locations and dimensions of all openings to be made in the bituminous surface shall be approved by the ACTD prior to any cutting or any surface opening operations. 2) All openings in bituminous surfaces shall be cut in a straight line with the sides smooth and vertical. No ragged edges will be permitted. Cutting shall be done with a concrete saw. 3) All necessary dust control operations shall be carried out by the applicant at no expense to Anoka County. 4) The minimum requirement for subgrade replacement shall be the upper twelve inches of material and shall meet MNDOT specifications for class five placed in six inch layers compacted to one hundred percent of optimum density. 5) All manhole casings, gate valves, and other utility structures shall be set one quarter inch below the top of the finished surface. 6) Bituminous tack coat materials and application thereof shall conform to MNDOT specification 2357. 7) All bituminous surfacing shall be replaced as soon as practicable after the base construction. All bituminous surfacing shall be machine laid. Any exceptions must be approved by the ACTD. Bituminous surfacing shall be replaced to original pavement depth or to a minimum of six inches of bituminous mixture (2360), whichever is greater. Bituminous mixtures must be placed in lifts not exceeding three inches in thickness for base and binder courses and not exceeding two inches for the wear course. 8) All surface restoration regardless of size shall conform to existing grades. 9) Any unnecessary or negligent damage to bituminous surface in conjunction with the installation and/or repair of a utility shall be cut out and replaced in kind as directed by the ACTD.



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1440 BUNKER LAKE BLVD NW
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highwaypermits@anokacountymn.gov

<u>CONCRETE RESTORATION</u> 1) Curb and gutter, sidewalks, and driveways shall be restored in accordance with MNDOT specifications 2531 and 2521.
<u>UTILITY LINES</u> 1) There shall be only a single pole line on the county right of way on either side of the center line thereof. 2) Exact locations of longitudinal installations on county highways shall be located as directed by the ACTD.
<u>SECTION CORNER MONUMENTS</u> 1) The permit holder shall notify the Anoka County Surveyor’s Office at 763-324-3111 at least 3 business days prior to any anticipated disturbance of any section, quarter, meander, witness corner, or right of way monument. 2) Utility locations shall not interfere with the location of any section, quarter, meander, witness corner, or right of way monument. For assistance in locations, contact the Anoka County Surveyor’s Office. 3) The permit holder shall be responsible for replacement of any existing property irons disturbed during construction. 4) Any monument disturbed during the course of construction shall be reset by the Anoka County Surveyor’s Office at the expense of the permit holder.
<u>ATTACHING TO BRIDGES/STRUCTURES</u> 1) No utility is permitted to be hung from, or otherwise attached to, any bridge or structure without having detailed plans approved by the Anoka County Engineer. These plans are to show approaches to the structure, method of installation, type, and dimension of housing for the utility.
<u>ADDITIONAL PROVISIONS</u> 1) All subcontractors, installers, and crew shall possess a physical or electronic copy of all documents in relation to the approved permit prior to the commencement of work and be kept on site. This includes, but it not limited to the following: a) Approved permit b) Any/all traffic control plans and/or layouts 2) Shall notify Anoka County Permits at 763-324-3176 or highwaypermits@anokacountymn.gov a) At least 3 business days prior to the commencement of work b) With time frame of proposed of work c) Anticipated traffic control d) When work is complete - including restorations - to request a final inspection 3) No work during inclement weather or when plows are out in any capacity 4) All traffic control shall be in accordance with the most current version of the MnDOT Temporary Traffic Control Field Manual 5) For staking of right-of way or proposed infrastructure, contact Chris Osterhus at 763-324-3189 a minimum of 48 hours prior to the commencement of work.

INITIAL	Initial MB
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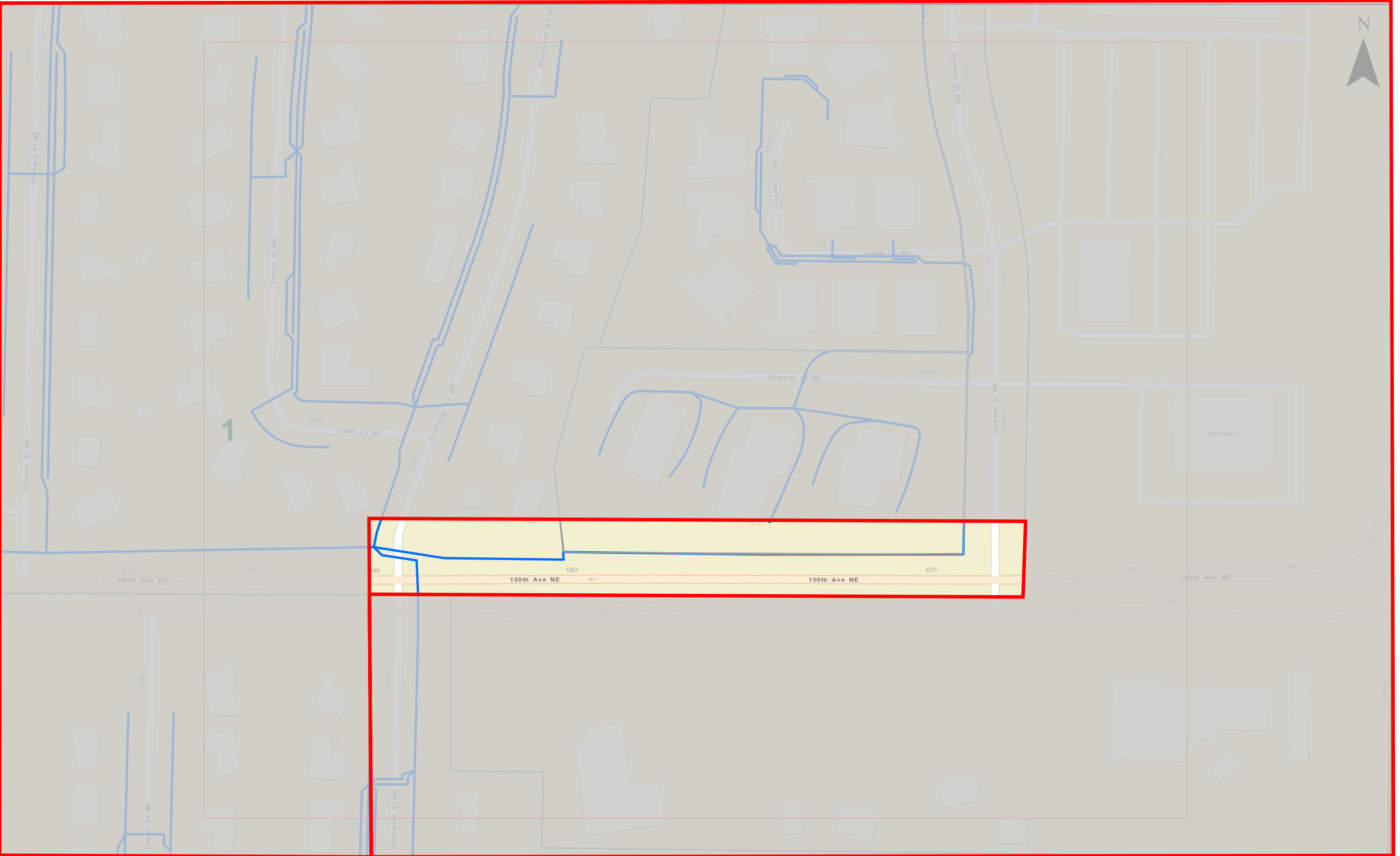
gatewayfiber

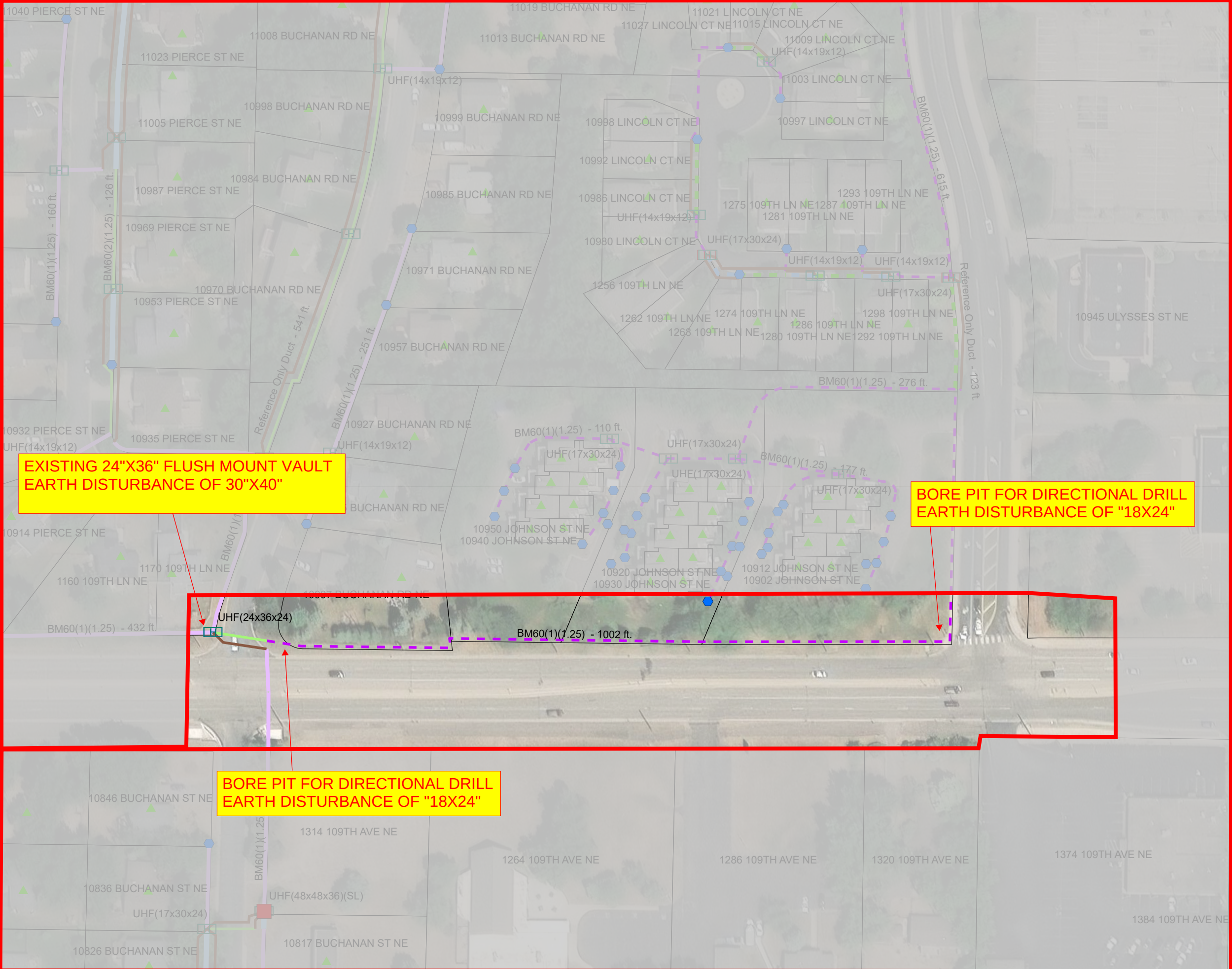
Fiberhood:BLAN-MN-01-08B

Anoka County Permit Pack: 109th Ave



Sheet Index
BLAN-MN-01-08B





Gateway Fiber

Sheet: 1 of 1

Anoka County, MN

BLAN-MN-01-08B

As Of: 10/6/2025

QAQC Assigned:

Legend

Cabinet

SplicePoint

Handhole

Structure

Virtual

Path Access

FlowerPot

HandHole (HH)

HH UHF(14x19x12)

HH UHF(24x36x24)

Path

Proposed, Reference Only Duct

Constructed, BM60(1)(1.25)

Constructed, BM60(2)(1.25)

Constructed, BM60(3)(1.25)

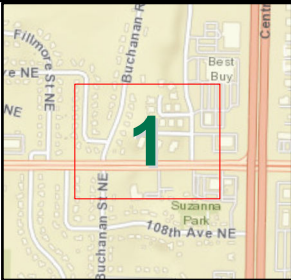
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Proposed, BM60(2)(1.25)

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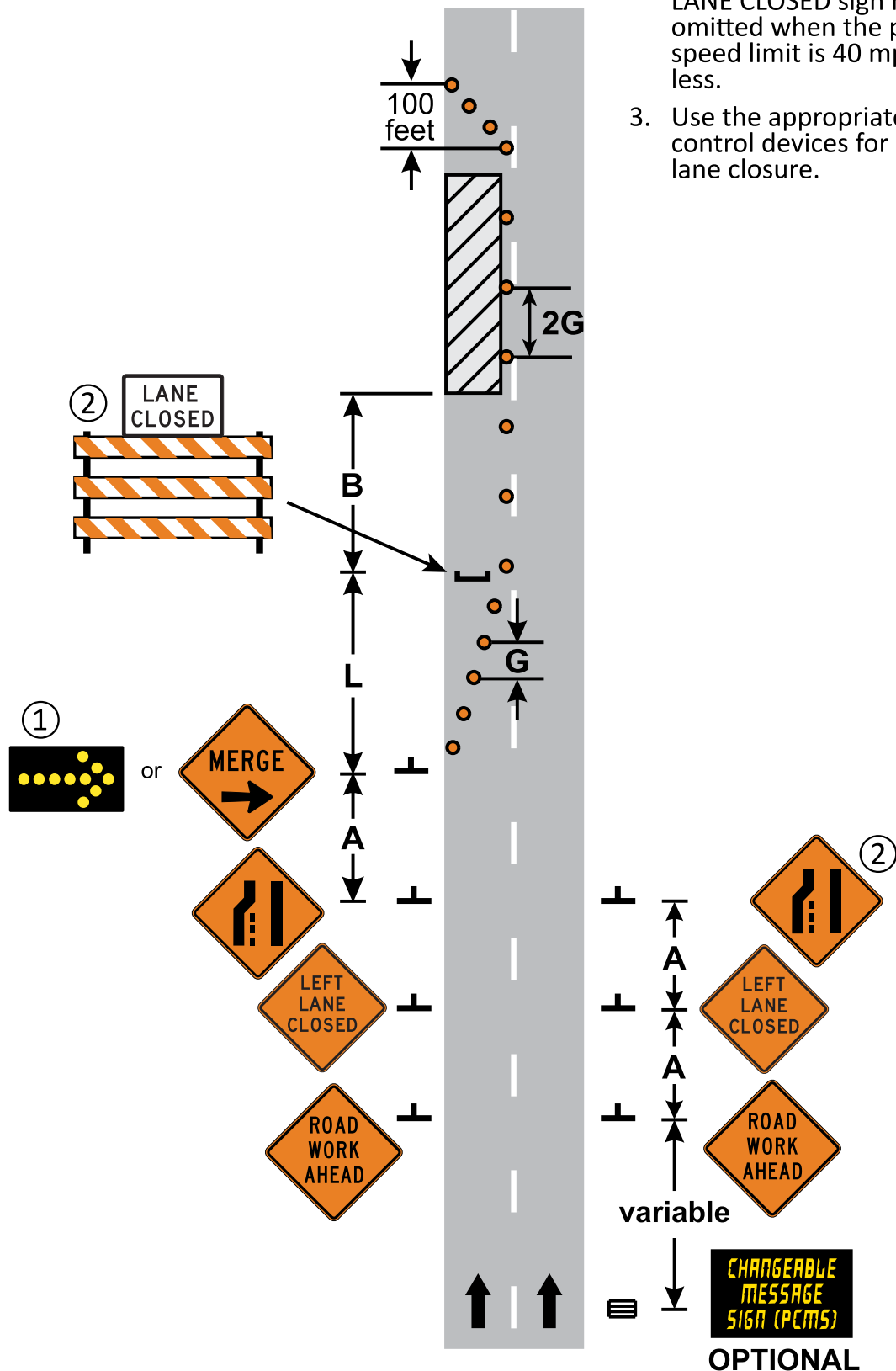
Anoka County, MN

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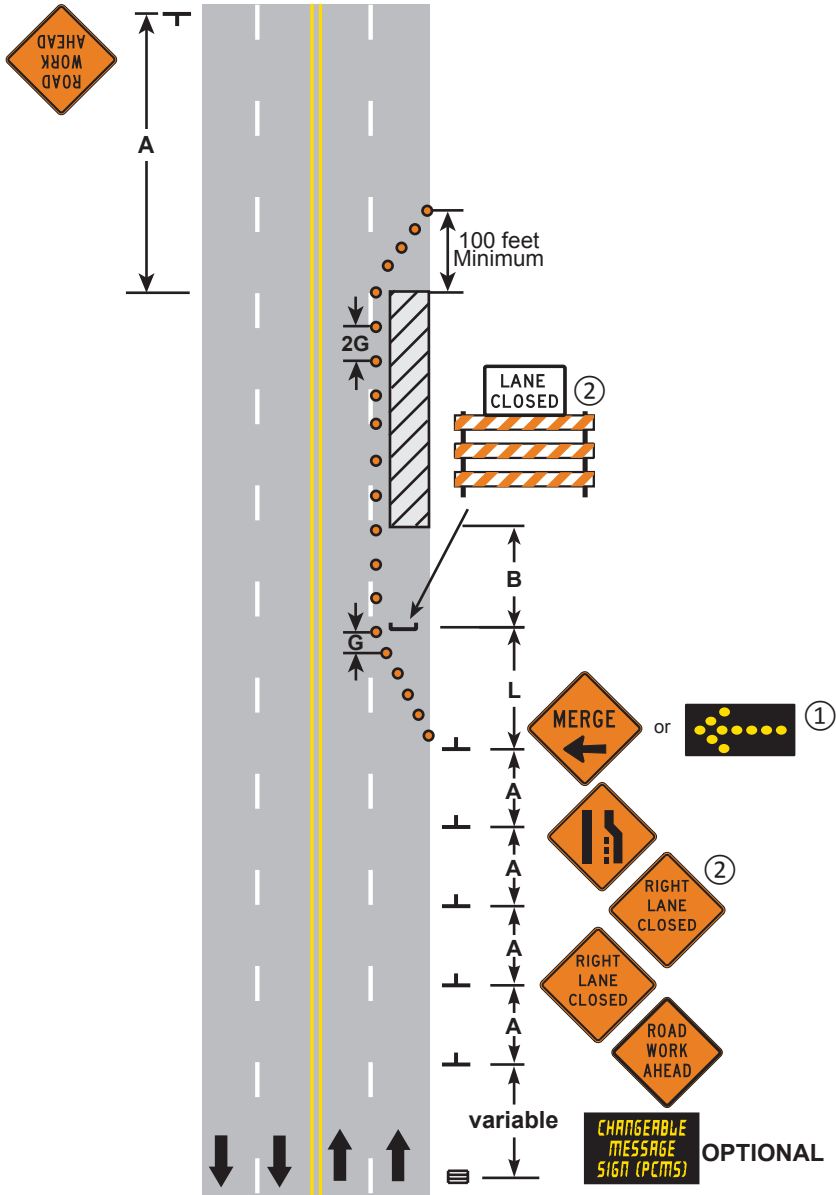
NOTES:

- ① The Flashing Arrow Board shall be used where the posted speed limit is 45 mph or greater, and shall be placed on the shoulder. If there is no shoulder, or the shoulder is too narrow, place at the end of the taper in lieu of the Type III barricade assembly.
- ② The Lane Ends sign and/or LANE CLOSED sign may be omitted when the posted speed limit is 40 mph or less.
3. Use the appropriate traffic control devices for a right lane closure.



NOTES:

- ① The Flashing Arrow Board shall be used where the posted speed limit is 45 mph or greater, and shall be placed on the shoulder. If there is no shoulder, or the shoulder is too narrow, place at the end of the taper in lieu of the Type III barricade assembly.
- ② The RIGHT LANE CLOSED sign and/or LANE CLOSED sign may be omitted when the posted speed limit is 40 mph or less.
3. If there is a shoulder, close the shoulder using a shoulder taper.

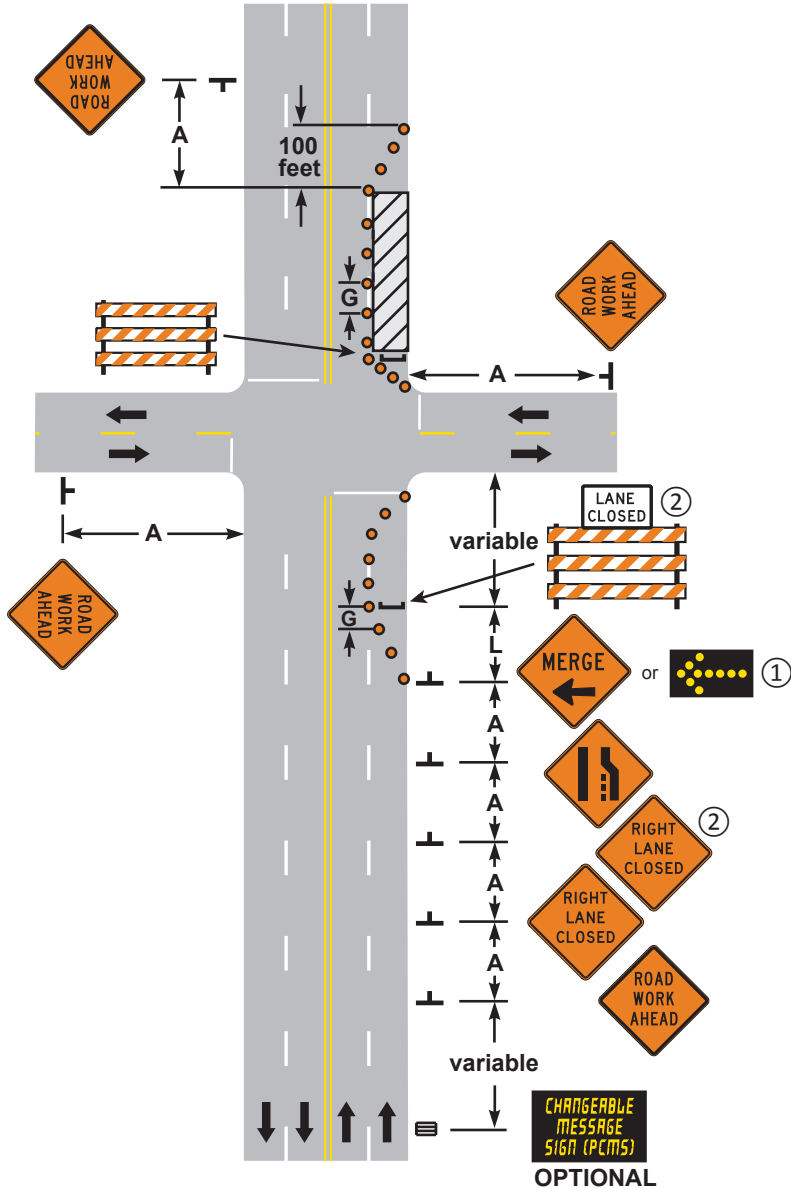


**RIGHT LANE CLOSURE
 MULTI-LANE UNDIVIDED ROAD**

3 DAYS or LESS

NOTES:

- ① The Flashing Arrow Board shall be used where the posted speed limit is 45 mph or greater, and shall be placed on the shoulder. If there is no shoulder, or the shoulder is too narrow, place at the end of the taper in lieu of the Type III barricade assembly.
- ② The RIGHT LANE CLOSED and/or LANE CLOSED sign may be omitted when the posted speed limit is 40 mph or less.
3. If there is a shoulder, close the shoulder using a shoulder taper.



RIGHT LANE CLOSURE
 Work Space at Intersection
 MULTI-LANE UNDIVIDED ROAD

3 DAYS or LESS

LAYOUT 45



gatewayfiber

Specs Data Sheet Packet



Engineered by
UtiliSource

SPECIFICATIONS/DATA

30" x 48" PG Style Hand Hole Assembly 30" x 48" PD Style Hand Hole Assembly

Covers (Blank unless logo is specified)

DESCRIPTION	PART NO.	WEIGHT #	DESIGN/TEST LOAD	ANSI TIER
W/2 Bolts	PG3048CA00	159 (72.1 kg)	8,000 / 12,000	8
Gasketed w/2 Bolts	PG3048CG00	159 (72.1 kg)	8,000 / 12,000	8
No Bolts	PG3048WA00	159 (72.1 kg)	8,000 / 12,000	8
Heavy Duty w/2 Bolts	PG3048HA00	206 (93.4 kg)	15,000 / 22,500	15
Gasketed Heavy Duty w/2 Bolts	PG3048HG00	206 (93.4 kg)	15,000 / 22,500	15
Extra Heavy Duty w/2 Bolts	PG3048HH00	220 (99.7 kg)	22,500 / 33,750	15*
2-piece w/2 Bolts	PG3048CS00	181 (82.1 kg)	8,000 / 12,000	8
Heavy Duty 2-piece w/2 Bolts	PG3048HS00	206 (93.4 kg)	15,000 / 22,500	15
2-piece Overlapping	PG3048CC00	227 (103.0 kg)	8,000 / 12,000	8
Heavy Duty 2-piece Overlapping	PG3048HC00	234 (106.1 kg)	15,000 / 22,500	15

- Covers with meter lids available upon request.
- Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.
- * Loadings for HH covers comply with all test provisions of ANSI/SCTE 77 except that the vertical design load is 22,500 lbs. with a test load of 33,750 lbs. over a 10" x 20" plate.

PG Boxes (Stackable with self-aligning, replaceable EZ-Nut) *24" & 36" deep boxes must be used as bottom of any stack

DESCRIPTION	PART NO.	WEIGHT #	DIMENSION A	DIMENSION B	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	PG3048BA18	185 (83.9 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	15**
	PG3048BA24	236 (107.0 kg)	24" (609 mm)	21" (533 mm)	22,500 / 33,750	15**
	PG3048BA36	343 (155.6 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	15**
Open Bottom w/ Gasket	PG3048BG18	185 (83.9 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	15**
	PG3048BG24	236 (107.0 kg)	24" (609 mm)	21" (533 mm)	22,500 / 33,750	15**
	PG3048BG36	343 (155.6 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	15**
Open Bottom w/ 2 Mouseholes	PG3048BB18	185 (83.9 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	15**
	PG3048BB24	236 (107.0 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
	PG3048BB36 †	343 (155.6 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	15**
Solid Bottom	PG3048DA18	220 (99.8 kg)	18 1/2" (470 mm)	15" (381 mm)	22,500 / 33,750	15**
	PG3048DA24	287 (130.2 kg)	24 1/2" (622 mm)	21" (533 mm)	22,500 / 33,750	15**
	PG3048DA36	394 (178.7 kg)	36 1/2" (927 mm)	33" (838 mm)	22,500 / 33,750	15**
Solid Bottom w/ Gasket	PG3048DG18	220 (99.8 kg)	18 1/2" (470 mm)	15" (381 mm)	22,500 / 33,750	15**
	PG3048DG24	287 (130.2 kg)	24 1/2" (622 mm)	21" (533 mm)	22,500 / 33,750	15**
	PG3048DG36	394 (178.7 kg)	36 1/2" (927 mm)	33" (838 mm)	22,500 / 33,750	15**

† PG3048BB36 is not UL Listed.

** Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.

PD Boxes (Nestable)

DESCRIPTION	PART NO.	WEIGHT #	DIMENSION C	DIMENSION D	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	PD3048BA24	286 (130 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
	PD3048BA48	614 (278.5 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	15**
Open Bottom w/ Gasket	PD3048BG24	286 (130 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
	PD3048BG48	614 (278.5 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	15**
Open Bottom w/ 2 Mouseholes	PD3048BB24	286 (130 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	15**
	PD3048BB48	614 (278.5 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	15**

** Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.

Top Extension (For use on top of PG and PD boxes of any depth)

DESCRIPTION	PART NO.	WEIGHT #	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom*	PG3048EA11	100 (45.4 kg)	22,500 / 33,750	15**

* In addition, this extension can be used as a bottom extension for 18" deep PG boxes.

** Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.

Bottom Extensions (For use under 18" deep PG style box only, one per box)

DESCRIPTION	PART NO.	WEIGHT #	DIMENSION E	DIMENSION F	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	PG3048EA08	102 (46.3 kg)	8 3/4" (222 mm)	1" (25 mm)	22,500 / 33,750	15*
Solid Bottom	PG3048RA08	151 (58.0 kg)	9 1/4" (235 mm)	N/A	22,500 / 33,750	15*

* Loadings comply with ANSI/SCTE 77. These boxes meet and exceed ANSI Tier 15 test provisions.

Dimensions & weights in parentheses are metric equivalent.





Box, Polymer Concrete, 48"x48"x36" Hand Hole

By QUAZITE
Catalog # [PG4848BA36](#)

Quazite® ANSI/SCTE 77 certified enclosure boxes, feature a high quality polymer concrete construction in a multitude of sizes and depths allowing customization for any application.

Features

- Stronger and lighter weight than regular concrete
- Cost effective
- Durable and long lasting
- Fire and chemical resistant
- Standard sizes are UL certified
- ANSI/SCTE77 certified
- Multiple styles and sizes available

General

Catalog Number	PG4848BA36
EU RoHS Indicator	No
Insulated?	No
Load Rating (ANSI Tier)	T22
Material	Polymer Concrete
Type	Below Ground Boxes
UPC	662037117894

Dimensions



*Representative Image

Dimensions	48 in x 48 in x 36 in
Height	36 in
Length	48 in
Weight	629 lb
Width	48 in

Certifications And Compliance

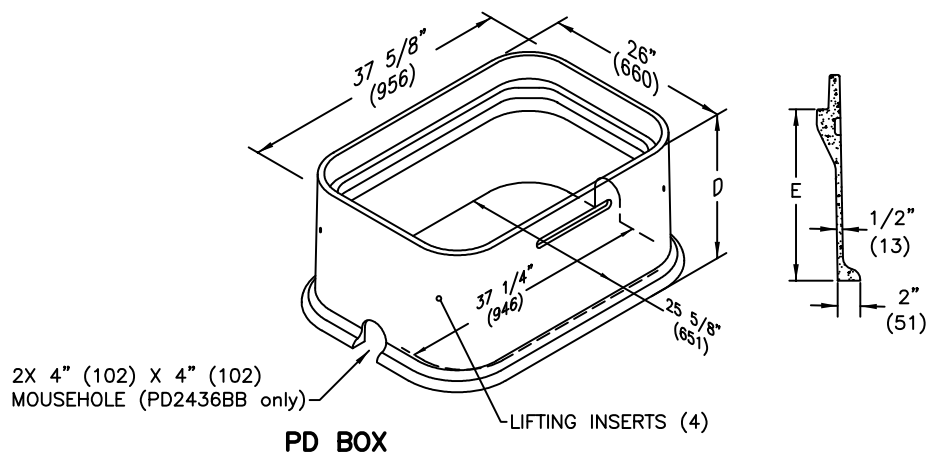
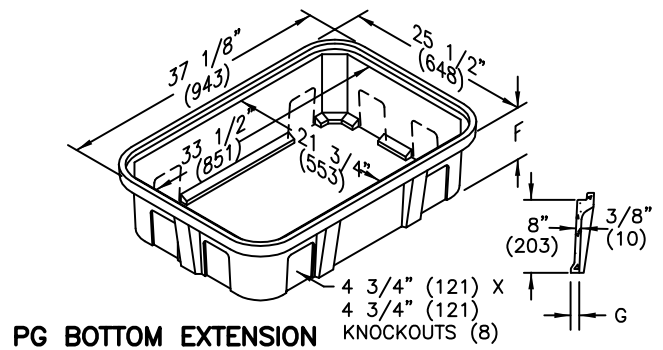
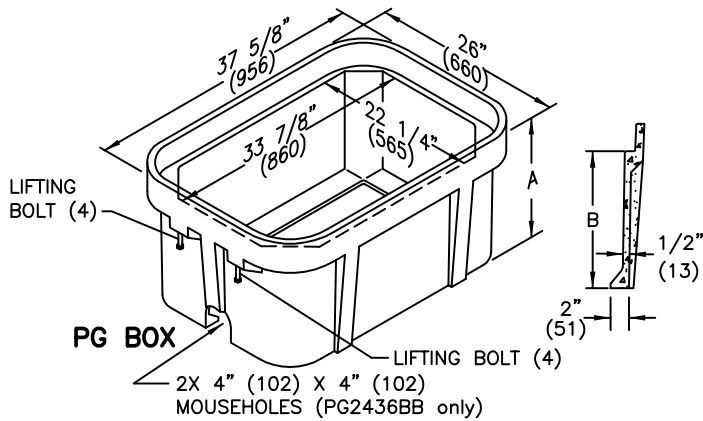
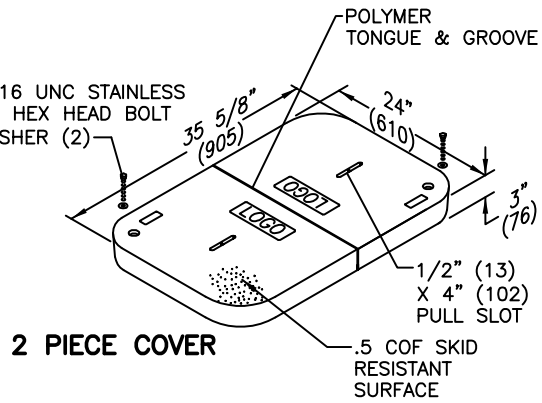
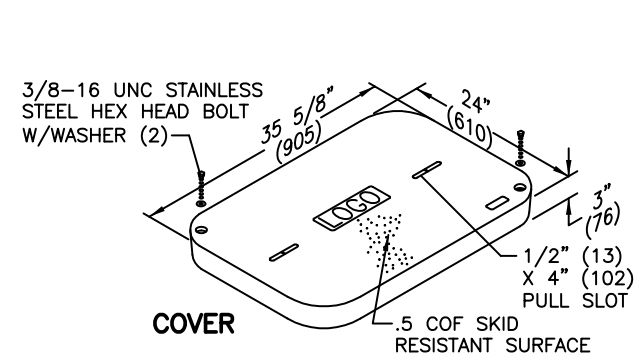
Buy America(n) Qualified	Buy American Act Compliant (All status valid till December 2024)
Buy American Compliant	Yes

Product Assets

- [Catalogs - Underground Enclosures](#)
- [Sales Drawings - Quazite Box](#)
- [Specifications - PG4848BA36](#)
- [Video - Hubbell Power Systems In Depth: ANSI vs AASHTO](#)
- [Video - PenCell® Enclosures](#)
- [Video - Hubbell Power Systems How to Install Large Enclosures](#)

Hand Hole SPECIFICATIONS/DATA

24" x 36" PG Style Hand Hole Assembly and 24" x 36" PD Style Assembly





24" x 36" PG Style Hand Hole Assembly and 24" x 36" PD Style Assembly

SPECIFICATIONS/DATA

Covers (Blank unless logo is specified)

DESCRIPTION	PART NO.	WEIGHT #	DESIGN/TEST LOAD #	ANSI TIER*
W/2 Bolts	PG2436CA00	100 (45 kg)	8,000 / 12,000	8
Gasketed w/2 Bolts	PG2436CG00	100 (45 kg)	8,000 / 12,000	8
2-Piece w/2 Bolts	PG2436CS00	122 (55 kg)	8,000 / 12,000	8
No Bolts	PG2436WA00	100 (45 kg)	8,000 / 12,000	8
Heavy Duty w/2 Bolts	PG2436HA00	115 (52 kg)	15,000 / 22,500	15
Gasketed Heavy Duty w/2 Bolts	PG2436HG00	115 (52 kg)	15,000 / 22,500	15
Heavy Duty 2-Piece w/2 Bolts	PG2436HS00	122 (55 kg)	15,000 / 22,500	15
Heavy Duty w/2 Bolts	PG2436HH00	122 (55 kg)	22,500 / 33,750	22

- Covers with meter lids available upon request. See page 12 or page 56 for meter lid cover load rating explanation.
- Gasketed covers and bolt grommets must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

PG Boxes (Stackable with self-aligning, replaceable EZ Nut) **24" - 42" Deep boxes must be used as bottom of any stack.)

DESCRIPTION	PART NO.	WEIGHT #	DIMENSION A	DIMENSION B	DESIGN/TEST LOAD #	ANSI TIER*
Open Bottom	PG2436BA18	141 (64 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	22
	PG2436BA24	180 (81.6 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	22
	PG2436BA30	196 (88.9 kg)	30" (762 mm)	27" (686 mm)	22,500 / 33,750	22
	PG2436BA36	254 (115 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	22
	PG2436BA42	293 (133 kg)	42" (1067 mm)	39" (991 mm)	22,500 / 33,750	22
Open Bottom w/2 Mouseholes	PG2436BB18	139 (63.1 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	22
	PG2436BB24	178 (80.7 kg)	24" (610 mm)	21" (533 mm)	22,500 / 33,750	22
	PG2436BB30	194 (88.0 kg)	30" (762 mm)	27" (686 mm)	22,500 / 33,750	22
	PG2436BB36	252 (114 kg)	36" (914 mm)	33" (838 mm)	22,500 / 33,750	22
	PG2436BB42	293 (133 kg)	42" (1067 mm)	39" (991 mm)	22,500 / 33,750	22
Solid Bottom	PG2436DA18	171 (78 kg)	18 1/2" (470 mm)	15" (381 mm)	22,500 / 33,750	22
	PG2436DA24	228 (103.4 kg)	24 1/2" (622 mm)	21" (533 mm)	22,500 / 33,750	22
	PG2436DA30	238 (107.0 kg)	30 1/2" (775 mm)	27" (686 mm)	22,500 / 33,750	22
	PG2436DA36	282 (128 kg)	36 1/2" (927 mm)	33" (838 mm)	22,500 / 33,750	22
	PG2436DA42	321 (146 kg)	42 1/2" (1080 mm)	39" (991 mm)	22,500 / 33,750	22

PD Boxes

DESCRIPTION	PART NO.	WEIGHT #	DIMENSION D	DIMENSION E	DESIGN/TEST LOAD #	ANSI TIER*
Open Bottom	PD2436BA18	159 (72 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	22
	PD2436BA26	199 (90 kg)	26" (660 mm)	23" (584 mm)	22,500 / 33,750	22
	PD2436BA48	313 (142 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	22
Open Bottom w/2 Mouseholes	PD2436BB18	157 (71 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	22
	PD2436BB26	197 (89 kg)	26" (660 mm)	23" (584 mm)	22,500 / 33,750	22
	PD2436BB48	311 (141 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	22
Open Bottom w/Gasket	PD2436BG18	159 (72 kg)	18" (457 mm)	15" (381 mm)	22,500 / 33,750	22
	PD2436BG26	199 (90 kg)	26" (660 mm)	23" (584 mm)	22,500 / 33,750	22
	PD2436BG48	313 (142 kg)	48" (1219 mm)	45" (1143 mm)	22,500 / 33,750	22

Extensions (For use under 18" deep box only, one per box.)

DESCRIPTION	PART NO.	WEIGHT #	DIMENSION F	DIMENSION G	DESIGN/TEST LOAD #	ANSI TIER*
Open Bottom	PG2436EA08	81 (37 kg)	8 3/4" (222 mm)	1" (25 mm)	22,500 / 33,750	22
Solid Bottom	PG2436RA08	95 (43.1 kg)	9 1/4" (235 mm)	N/A	22,500 / 33,750	22

Dimensions & weights in parentheses are metric equivalent.

* Loadings comply with ANSI/SCTE 77 (see page 9).

1419

CARSON® Spec Grade Hand Hole

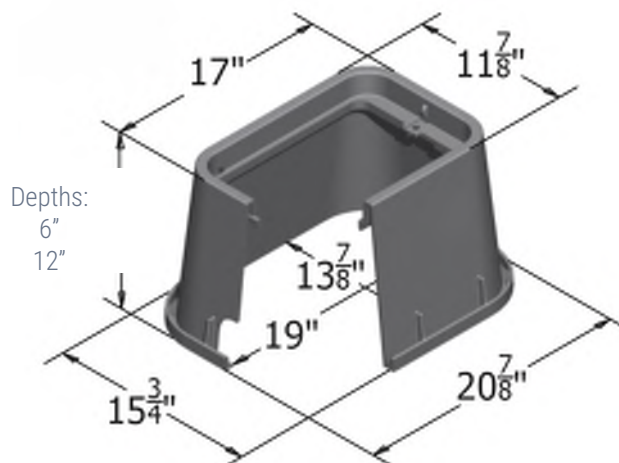
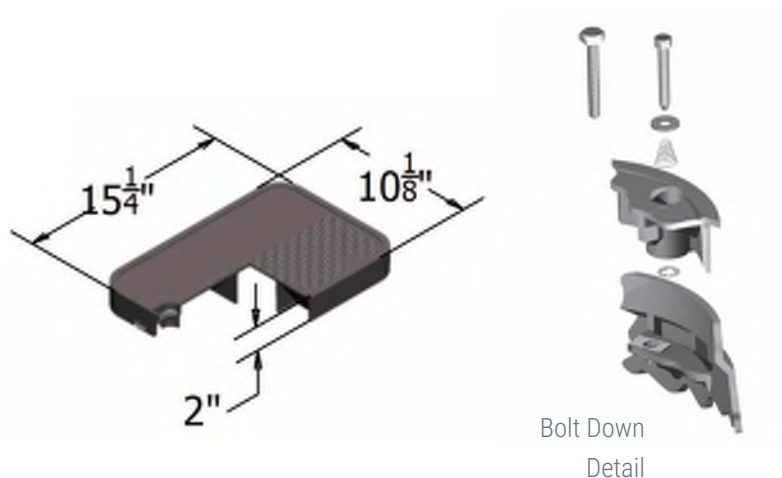
COVER

Style:	Flush
Material:	HDPE
Model:	14" x 19"
Weight:	3 lbs
Std. Fasteners:	3/8" Hex Bolt
Options:	Logos and Special Markings
Surface:	Skid Resistant & Marked*
Performance:	Pedestrian, ASTM C857, WUC 3.6

Cover comes standard with permanent markings for manufacturer and model size.

BODY

Material:	HDPE
Model:	14" x 19"
Weight:	6" Depth: 5 lbs 12" Depth: 7 lbs
Wall Type:	Flared
Mouseholes:	2
Performance:	Pedestrian, ASTM C857, WUC 3.6

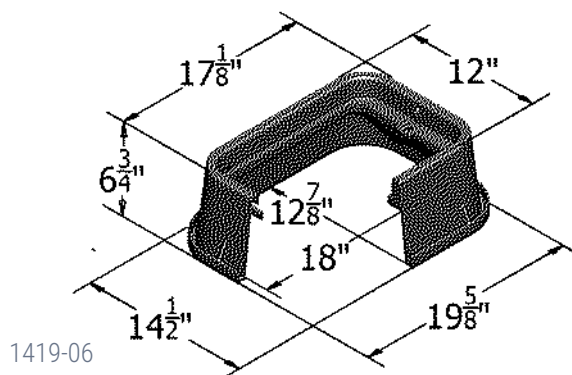


LOAD RATING / NOTES



LIGHT DUTY
PEDESTRIAN / GREENBELT

For use in non-vehicular traffic situations only.
Weights and dimensions may vary slightly.
Actual load rating is determined by the box
and cover combination.



1419-06

1419

CARSON® Spec Grade Hand Hole

COVER OPTIONS

HDPE, T-Cover Solid
 HDPE, T-Cover with Plastic Reader Door
 HDPE, T-Cover with Cast Iron Reader Door
 HDPE, T-Cover Hinged
 HDPE, Flush Solid
 HDPE, Flush with Plastic Reader Door
 HDPE, Flush with Cast Iron Reader Door
 HDPE, Flush Hinged

COLOR OPTIONS

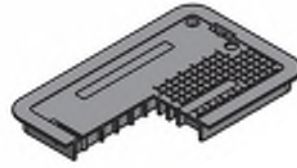
Cover: Black, Green, Gray, Tan, Purple
 Body: Black, Green, Gray, Tan, Purple
 Extension: Black, Green, Gray, Tan, Purple

FASTENER OPTIONS

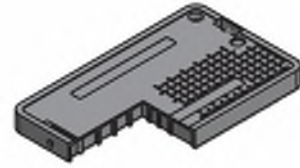
Hex Head Bolt (A)
 Penta Head Bolt (B)
 Penta Head Coil Thread Bolt (B)
 Oldcastle Vandal Resistant Bolt (C)
 Captive Bolt Retainer
 Drop-N-Lock™

ADD ON OPTIONS

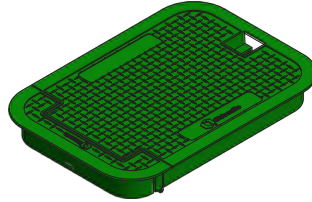
AMR Friendly Solutions
 Touch Read Hole
 EMS Marker
 Racking Provision



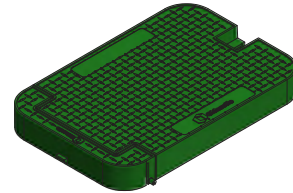
T-Cover Solid



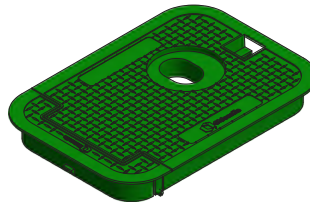
Flush Solid



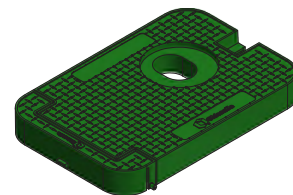
T-Cover Hinged



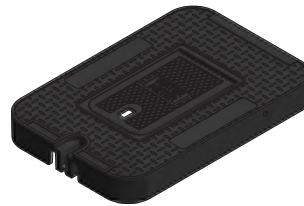
Flush Hinged



T-Cover Hinged
with AMR Recess



Flush Hinged
with AMR Recess



Reader Door Detail



Standard Thread



A



B



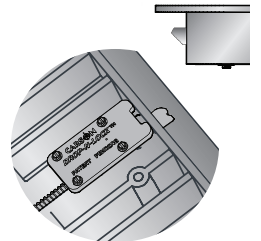
C



Coil Thread



Bolt Retainer
(for standard thread)



Drop-N-Lock
(T-Cover only)



EMS Marker

WARNING: Cancer - www.P65Warnings.ca.gov

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Revision 04/05/21
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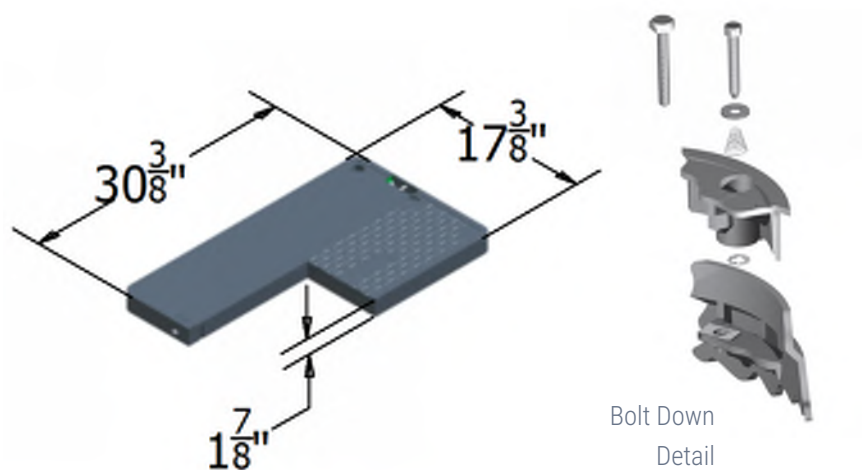
1730-24

CARSON® Spec Grade Hand Hole

COVER

Style:	Flush
Material:	HDPE
Model:	17" x 30"
Weight:	10 lbs
Std. Fasteners:	3/8" Hex Bolt
Options:	Logos and Special Markings
Surface:	Skid Resistant & Marked
Performance:	Pedestrian, ASTM C857, WUC 3.6

Cover comes standard with permanent markings for manufacturer and model size.



BODY

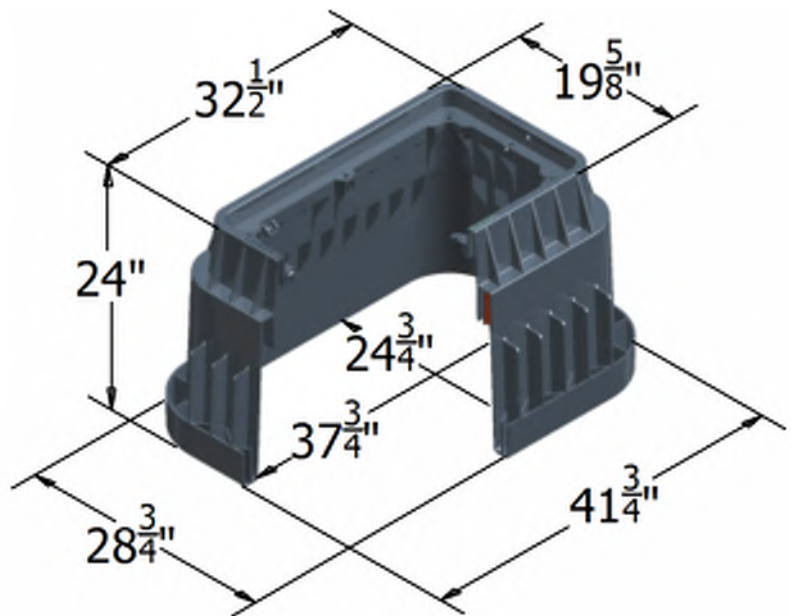
Material:	HDPE
Model:	17" x 30"
Weight:	24" Depth: 52 lbs
Wall Type:	Flared
Mouseholes:	0
Performance:	Pedestrian, ASTM C857, WUC 3.6

LOAD RATING / NOTES



LIGHT DUTY
PEDESTRIAN / GREENBELT

For use in non-vehicular traffic situations only.
Weights and dimensions may vary slightly.
Actual load rating is determined by the box
and cover combination.

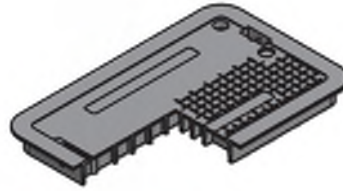


1730-24

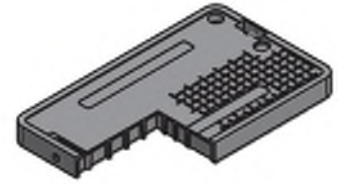
CARSON® Spec Grade Hand Hole

COVER OPTIONS

HDPE, T-Cover Solid
HDPE, Flush Solid
HDPE, Flush with Plastic Reader Door
HDPE, Flush with Cast Iron Reader Door



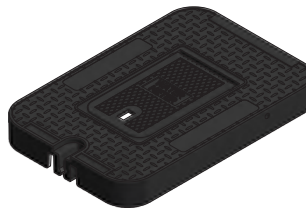
T-Cover Solid



Flush Solid

COLOR OPTIONS

Cover: Black, Green, Gray, Tan, Purple
Body: Black, Green, Gray, Tan, Purple



Reader Door Detail

FASTENER OPTIONS

Hex Head Bolt (A)
Penta Head Bolt (B)
Penta Head Coil Thread Bolt (B)
Oldcastle Vandal Resistant Bolt (C)
Captive Bolt Retainer
Drop-N-Lock™



Standard Thread



A



B



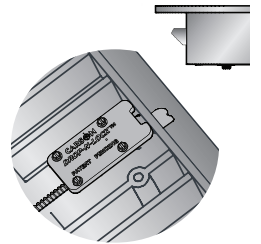
C



Coil Thread



Bolt Retainer
(for standard thread)



Drop-N-Lock
(T-Cover only)



L Bolt Detail



EMS Marker

ADD ON OPTIONS

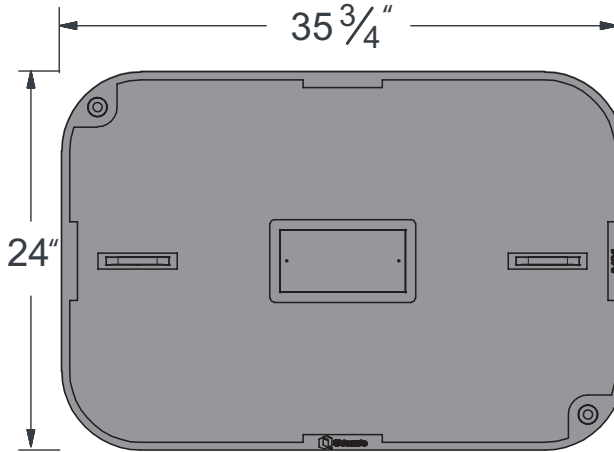
AMR Friendly Solutions
Touch Read Hole
EMS Marker
Racking Provision

WARNING: Cancer - www.P65Warnings.ca.gov

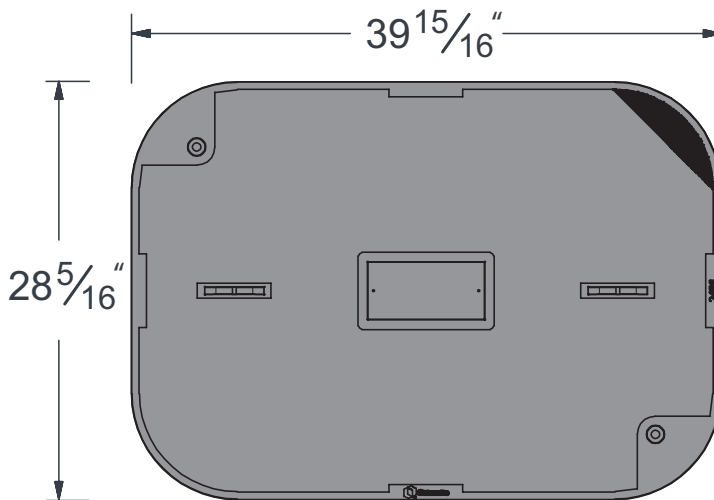
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Revision 11/30/18
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2436 Cover



Flush



T-Cover

Material & Style

Composite
Flush Solid
T-Cover Solid
Non-skid texture

Hardware

1/2-6 Stainless Steel Hex
Head Bolt, Washer and
Push Nut

Performance & Weight

ANSI/SCTE-77, Tier 22

Flush Cover: 40 lbs
T-Cover: 46 lbs

Options

Hex Head Coil Thread Bolt
Penta Head Coil Thread
Bolt
Logos and Special
Markings
Marking Plate
EMS Marker

Cover comes standard with permanent markings for manufacturer, load rating, model size and manufacturing location.

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Revision 04/2023



Heavy Duty
ANSI/SCTE TIER 22

For use in non-vehicular traffic situations only. Weights and dimensions may vary slightly. Actual load rating is determined by the box and cover combination.

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910

CARSON® Spec Grade Flower Pot

COVER

Style:	T-Cover
Material:	HDPE
Model:	10" Dia.
Weight:	1 lbs
Std. Fasteners:	3/8" Hex Bolt
Options:	Logos and Special Markings
Surface:	Skid Resistant & Marked
Performance:	Pedestrian, ASTM C857, WUC 3.6

Cover comes standard with permanent markings for manufacturer and model size.

BODY

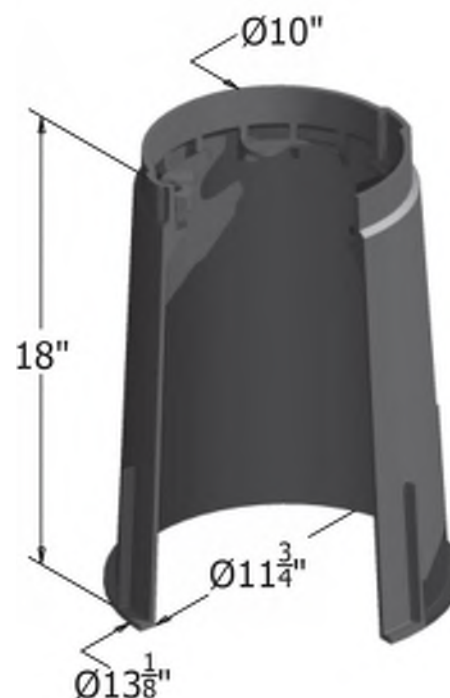
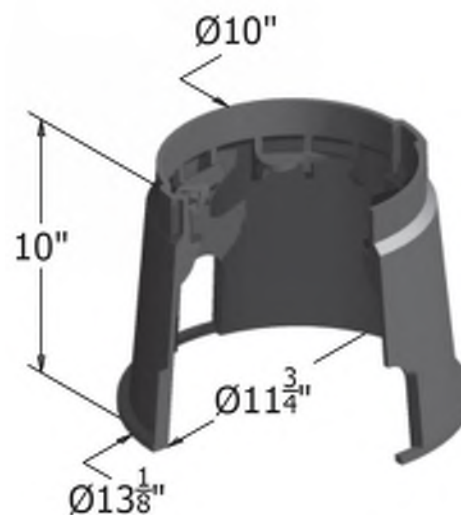
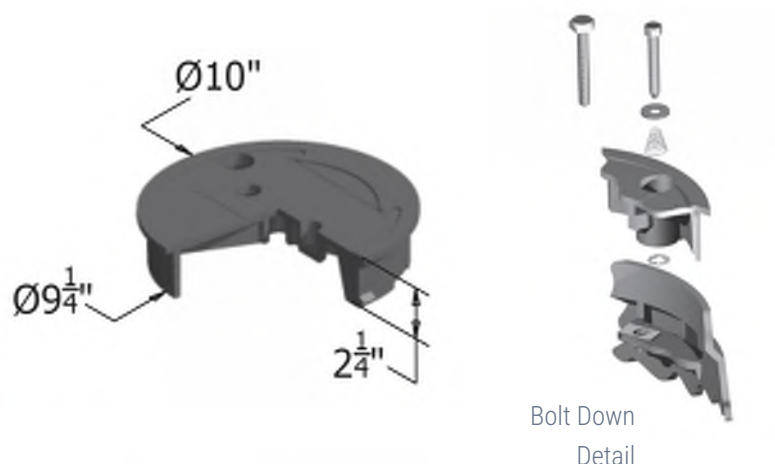
Material:	HDPE
Model:	10" Dia.
Weight:	10" Depth: 3 lbs 18" Depth: 5 lbs
Wall Type:	Flared
Mouseholes:	0 - 2
Performance:	Pedestrian, ASTM C857, WUC 3.6

LOAD RATING / NOTES



LIGHT DUTY
PEDESTRIAN / GREENBELT

For use in non-vehicular traffic situations only.
Weights and dimensions may vary slightly.
Actual load rating is determined by the box
and cover combination.



910

CARSON[®] Spec Grade Flower Pot

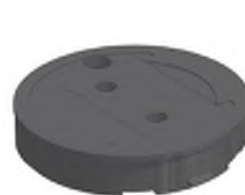
COVER OPTIONS

HDPE, T-Cover Solid

HDPE, Flush Solid



T-Cover Solid



Flush Solid

COLOR OPTIONS

Cover: Black, Green, Gray, Tan, Purple

Body: Black, Green, Gray, Tan, Purple

FASTENER OPTIONS

Hex Head Bolt (A)

Penta Head Bolt (B)

Penta Head Coil Thread Bolt (B)

Oldcastle Vandal Resistant Bolt (C)

Captive Bolt Retainer



Standard Thread



A



B



C



Coil Thread



Bolt Retainer
(for standard thread)

ADD ON OPTIONS

Metal Locating Plate

EMS Marker



EMS Marker

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Revision 11/30/18
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FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



Application

Clearfield's FieldSmart Fiber Distribution Hub (FDH) PON Cabinet family provides an interconnect environment from the feeder network through the optical passive splitter to the distribution network. Designed for the outside plant environment, these cabinets provide a single distribution point to deploy FTTH in urban or dense neighborhoods. Providing distribution scalability from 12 to 864 ports, network architecture can be maximized for both existing subscribers as well as future growth opportunities.

Description

The FieldSmart FDH PON Cabinet line is the complete solution for managing 12 to 864 port distribution fibers for an outside plant FTTx PON application. Integrated into the cabinet design is the 12 port Clearview® Cassette, providing multiple cabinet configurations and allowing the service provider to align the investment in capital equipment to the turn-up of revenue-generating circuits.

The FieldSmart FDH PON Cabinet family incorporates a new pyramid shaped roof/solar shield and a reusable/replacable venting feature, providing additional protection for deployed fiber. Mounting options include pad, pole or vault mounted with either a 4" or 12" riser. An optional exterior ground box is also available.



Features and Benefits

Integrity

- Terminations are designed, tested and certified to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Fiber cable certified to Telcordia GR-20 and GR-409. Designed, tested and certified to Telcordia GR-3125
- Constructed with 0.090 aluminum
- Powder coated for additional protection
- 300 series stainless steel fasteners used on all cabinets
- Optional 4" and 12" risers, can be stacked to raise cabinet if required

Protection

- 12-fiber Clearview Cassette protects fiber from environmental and human factors
- Rugged cable clamps protect the OSP cable breakouts from twisting and pistoning
- Patch only buffer tubes are fully protected with ruggedized, bend-limiting tubing
- Snake skin sleeving provides additional buffer tube slack storage protection and manageability for patch and splice (Clearfield's in-cassette splicing solution) configurations
- WaveSmart Ruggedized Splitters are built with ruggedized jacketing and bend-insensitive fiber for all input and output legs
- Pyramid roof and venting provide additional protection in all environments

Access

- Clearview Cassette allows for quick visual troubleshooting without opening cassette
- Front access to pre-terminated assemblies with Clearview removable adapter plate
- Two captive fasteners for quick removal of individual cassettes for trouble shooting, splicing or replacing
- Front and rear access doors
- Bottom exit/entrance for fiber cables

Investment

- Fiber is deployed in increments of 12, providing the users the ability to scale from 12 ports to full capacity, aligning capital investment with network layout or subscriber revenue
- Express ports allow for extensions or parallel networks through the cabinet
- Patch and splice configurations eliminate costs associated with additional hand-holes and splice cases

FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



Technical Specifications

FieldSmart FDH	144 Port	288 Port	432 Port	576 Port	864 Port
Cabinet Dimensions (Without Riser)	22.29" H x 16.96" W x 18.51" D (566.16 mm x 430.78mm x 470.15mm)	35.11" H x 18.5" W x 16.98" D (891.79 mm x 469.90 mm x 431.29 mm)	37.83" H x 21.25" W x 18.44" D (960.88 mm x 539.75 mm x 468.38 mm)	35.11" H x 33.20" W x 18.47" D (891.79 mm x 891.79 mm x 469.14 mm)	37.83" H x 42.05" W x 18.47" D (960.88 mm x 1068.07 mm x 469.14 mm)
Weight (Without Riser)	40 lbs. (18.14 kg)	54 lbs (24.49 kg)	66 lbs (29.94 kg)	86 lbs (39.01 kg)	95 lbs (43.09 kg)
Port Density	144	288	432	576	864
Max. Feeder/Express Ports	24	48	48	96	96
Cables Entrances	6	6	6	12	12
Mounting Options (Hoist kits included with each cabinet)	Vault mount; pole mount; pad mount	Vault mount; pole mount; pad mount	Vault mount; pole mount; pad mount	Vault mount; pad mount	Vault mount; pad mount
Standard Riser Base	4"; 6 lbs (101.60 mm; 2.72 kg)	4"; 6 lbs (101.60 mm; 2.72 kg)	4"; 6 lbs (101.60 mm; 2.72 kg)	4"; 8 lbs (101.60 mm; 3.63 kg)	4"; 8 lbs (101.60 mm; 3.63 kg)
Optional Riser Base	12"; 12 lbs (304.80 mm; 5.44 kg)	12"; 12 lbs (304.80 mm; 5.44 kg)	12"; 16 lbs (304.80 mm; 7.26 kg)	12"; 20 lbs (304.80 mm; 9.07 kg)	12"; 20 lbs (304.80 mm; 9.07 kg)
Splitters Slots	4	9	14	18	28
Splitter Staging Capacity	72			144	
Cassette Types Supported	Clearview® Blue				
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC				
Cable Types	Indoor/Outdoor, Outdoor, Outdoor Armored, Ribbon and Loose Tube				
Door Locks	2 per door				
Venting	Built-in Replaceable Roof Vent				
Splice Capacity	12 splices in each Clearview Cassette				
Material	0.125 (3.175 mm) aluminum with almond powder coating	0.90 (2.286 mm) aluminum with almond powder coating			

Accessories

- Risers: 4" and 12" (101.60 mm or 304.80 mm)
- Exterior Ground Box - Available with 12" Riser Only, Located in Riser
- WaveSmart Ruggedized Splitter
- Mid-Span/Feed-Through Plate Kit
- Pole Mount Kits
- GoreTex Filter Replacement - 020800



GoreTex Filter - 020800

FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



Configured Part Numbers - 144 Port

R - C R - - - - - 0 - - - - - XXXM or XXXF

1 2 3 4 5 6 7 8 9 10

1 Select Cabinet Riser/Mounting

A = 4" (101.60 mm)
B = 12" (304.80 mm)
C = No Riser With Pole Mount Kit
D = 4" (101.60 mm) Riser with Pole Mount Kit

2 Select Feeder

1 = 12
2 = 24
Z = No Feeder

3 Select Distribution Port Count

XXX = Port Count in Increments of 12
(Max. 144)
ZZZ = No Distribution

4 Select Connector

A = SC/UPC
C = SC/APC
F = LC/UPC DX
H = LC/APC DX

5 Select Mode / Type

1 = Singlemode – non-ribbon
2 = Singlemode – ribbon

6 Select Jacket Construction

B = OSP Riser
E = OSP, Non-rated
F = Patch and Splice
M = OSP Armored

7 Select Qty. of 144 Fiber OSP Cables

0 = 0
1 = 1

8 Select Qty. of 96 Fiber OSP Cables

0 = 0
1 = 1

9 Select Qty. of 72 Fiber OSP Cables

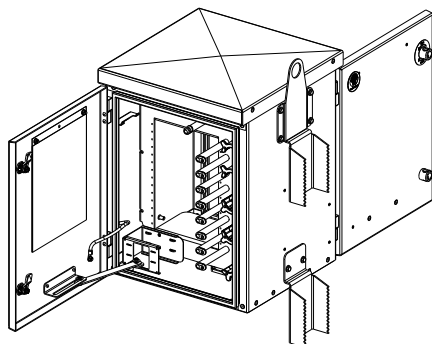
0 = 0
1 = 1
2 = 2

10 Select Ground Box/Extras

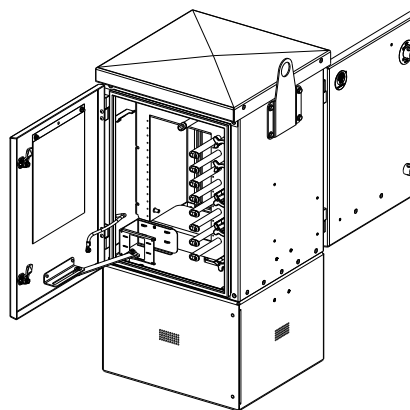
B = Clearview Blue Cassettes
M = Ground Box with 12" Riser; Clearview Blue Cassettes

XXXM or XXXF

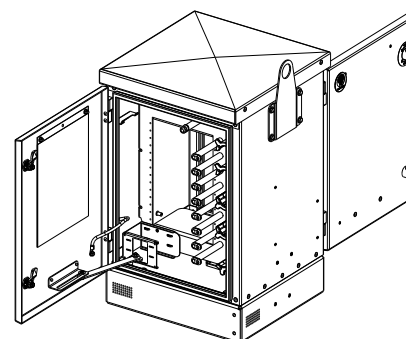
XXXM = Length in meters
XXXF = Length in feet



144 with Pole Mount Brackets



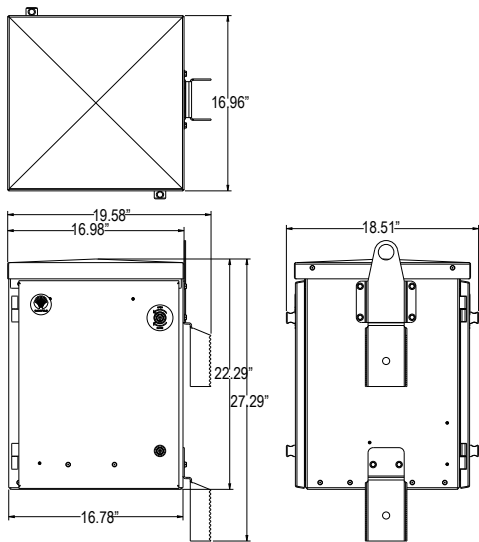
144 with 12" (304.80 mm) Riser



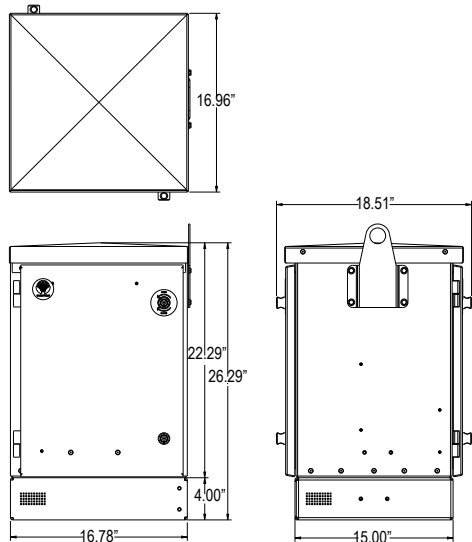
144 with 4" (101.60 mm) Riser

FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



144 with Pole Mount Kit - Dimensions



144 with 4" (101.60 mm) Riser - Dimensions

Pre-Configured Part Numbers

Vault Options

Part Number	Description
V6A-CZP	Vault, below grade Pencil, 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart Cabinets, straight wall, with bolt kit
V6B-CZP	Vault, below grade Pencil, 24" W x 36" L x 36" D (609.60 mm x 914.40 mm x 914.40 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart Cabinets, straight wall, with bolt kit
V6B-HZP	Vault, below grade Pencil, 24" W x 36" L x 36" D (609.60 mm x 914.40 mm x 914.40 mm), split PC lid, hex bolts, gray, with cut out for FieldSmart Cabinets, straight wall
V7A-CZP	Vault, below grade Pencil, 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart Cabinets, straight wall, with bolt kit
V7B-CZP	Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart Cabinets, straight wall, with bolt kit
FMA-H3Z-BC-SUB	Pole Mount Kit, for FieldSmart FDH cabinets, 144

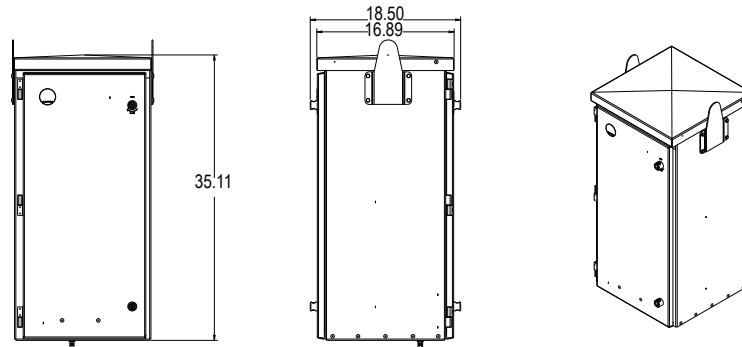
FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



Configured Part Numbers - 288 Port

R - D - - - - - XXXM or XXXF										
1	2	3	4	5	6	7	8	9	10	11
1 Select Cabinet Riser/Mounting A = 4" (101.60 mm) B = 12" (304.80 mm) D = Pole Mount with 4" Riser	2 Select Feeder 1 = 12 2 = 24 3 = 36 4 = 48 Z = No Feeder	3 Select Distribution Port Count XXX = Port Counts in Increments of 12 (Max. 288) ZZZ = No Distribution	4 Select Connector A = SC/UPC C = SC/APC F = LC/UPC DX H = LC/APC DX	5 Select Mode / Type 1 = Singlemode – non-ribbon 2 = Singlemode – ribbon	6 Select Jacket Construction B = OSP Riser E = OSP, Non-Rated F = Patch and Splice M = OSP Armored	7 Select Qty. of 288/216 Fiber OSP Cables 0 = 0 1 = 1-288 A = 1-216	8 Select Qty. of 144 Fiber OSP Cables 0 = 0 1 = 1 2 = 2	9 Select Qty. of 96 Fiber OSP Cables 0 = 0 1 = 1 2 = 2 3 = 3	10 Select Qty. of 72 Fiber OSP Cables 0 = 0 1 = 1 2 = 2 3 = 3 4 = 4	11 Select Ground Box/Extras B = Clearview Blue Cassettes M = Ground Box With 12" Riser Clearview Blue Cassettes XXXM or XXXF XXXM = Length in meters XXXF = Length in feet



Vault Options

288 Port Cabinet

Part Number	Description
V6A-CZP	Vault, below grade Pencil, 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V6B-CZP	Vault, below grade Pencil, 24" x 36" x 36", split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V6B-HZP	Vault, below grade Pencil, 24" x 36" x 36", split PC lid, hex bolts, gray, with cut out for FieldSmart cabinets, straight wall, requires 020538 Bolt Kit - ordered separately
V7A-CZP	Vault, below grade Pencil, 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V7B-CZP	Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V7B-HZP	Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split PC lid, hex bolts, green, with knock out for FieldSmart cabinets, straight wall, requires 020538 Bolt Kit - ordered separately
FMA-H3Z-SUB	Pole Mount Kit for FieldSmart cabinet

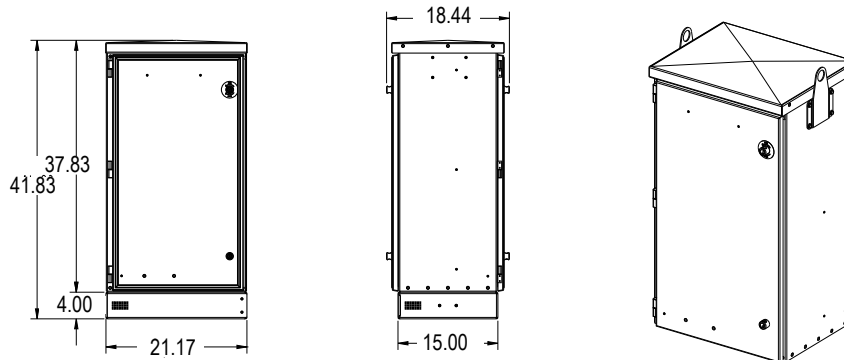
FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



Configured Part Numbers - 432 Port

R - F											XXXM or XXXF	
1	2	3	4	5	6	7	8	9	10	11		
1 Select Cabinet Riser/Mounting A = 4" (101.60 mm) B = 12" (304.80 mm) D = Pole Mount with 4" Riser	2 Select Feeder 1 = 12 2 = 24 3 = 36 4 = 48 Z = No Feeder	3 Select Distribution Port Count XXX = Port Count in Increments of 12 (Max. 432) ZZZ = No Distribution	4 Select Connector A = SC/UPC C = SC/APC F = LC/UPC DX H = LC/APC DX	5 Select Mode / Type 1 = Singlemode – non-ribbon 2 = Singlemode – ribbon	6 Select Jacket Construction B = OSP Riser E = OSP, Non-rated F = Patch and Splice M = OSP Armored	7 Select Qty. of 288/216 Fiber OSP Cables 0 = 0 1 = 1-288	8 Select Qty. of 144 Fiber OSP Cables 0 = 0 1 = 1 2 = 2 3 = 3	9 Select Qty. of 96 Fiber OSP Cables 0 = 0 1 = 1 2 = 2 3 = 3 4 = 4	10 Select Qty. of 72 Fiber OSP Cables 0 = 0 1 = 1 2 = 2 3 = 3 4 = 4 5 = 5	11 Select Ground Box/Extras B = Clearview Blue Cassettes M = Ground Box With 12" Riser Clearview Blue Cassettes	XXXM or XXXF XXXM = Length in meters XXXF = Length in feet	



Vault Options

432 Port Cabinet

Part Number	Description
V6A-CZP	Vault, below grade Pencil, 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V6B-CZP	Vault, below grade Pencil, 24" x 36" x 36", split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V6B-HZP	Vault, below grade Pencil, 24" x 36" x 36", split PC lid, hex bolts, gray, with cut out for FieldSmart cabinets, straight wall, requires 020538 Bolt Kit -ordered separately
V7A-CZP	Vault, below grade Pencil, 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V7B-CZP	Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V7B-HZP	Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split PC lid, hex bolts, green, with knock out for FieldSmart cabinets, straight wall, requires 020538 Bolt Kit - ordered separately
FMA-H3Z-SUB	Pole Mount Kit for FieldSmart cabinet

FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



Configured Part Numbers - 576 Port

R - G - - - - - XXXM or XXXF

1 2 3 4 5 6 7 8 9 10 11

1 Select Cabinet Riser/Mounting

A = 4" (101.60 mm)
B = 12" (304.80 mm)

2 Select Feeder

1 = 12 6 = 72
2 = 24 7 = 84
3 = 36 8 = 96
4 = 48 Z = No Feeder
5 = 60

3 Select Distribution Port Count

XXX = Port Count in Increments of 12
(Max. 576)
ZZZ = No Distribution

4 Select Connector

A = SC/UPC
C = SC/APC
F = LC/UPC DX
H = LC/APC DX

5 Select Mode / Type

1 = Singlemode – non-ribbon
2 = Singlemode – ribbon

6 Select Jacket Construction

B = OSP Riser
E = OSP, Non-rated
F = Patch and Splice
M = OSP Armored

7 Select Qty. of 288/216 Fiber OSP Cables

0 = 0 B = 2-216
1 = 1-288 E = 1-288; 1-216
2 = 2-288 F = 1-288; 2-216
A = 1-216 G = 2-288; 1-216

8 Select Qty. of 144 Fiber OSP Cables

0 = 0 3 = 3
1 = 1 4 = 4
2 = 2

9 Select Qty. of 96 Fiber OSP Cables

0 = 0 4 = 4
1 = 1 5 = 5
2 = 2 6 = 6
3 = 3

10 Select Qty. of 72 Fiber OSP Cables

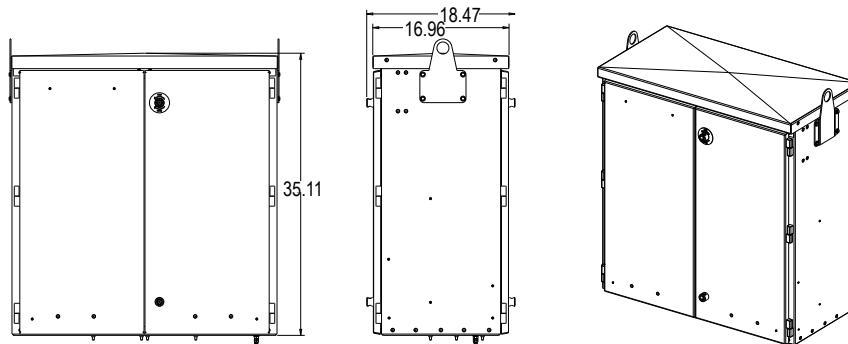
0 = 0 5 = 5
1 = 1 6 = 6
2 = 2 7 = 7
3 = 3 8 = 8
4 = 4

11 Select Ground Box/Extras

B = Clearview Blue Cassettes
M = Ground Box With 12" Riser Clearview
Blue Cassettes

XXXM or XXXF

XXXM = Length in meters
XXXF = Length in feet



Vault Options

576 Port Cabinet

Part Number	Description
V7A-CZP	Vault, below grade Pencil, 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V7B-CZP	Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit
V7B-HZP	Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split PC lid, hex bolts, gray, with knock-out for FieldSmart Cabinets, straight wall, requires 020538 Bolt Kit - ordered separately
V8A-CZP-F	Vault, Pencil 36" x 60" x 24" (914.40 mm x 1524.00 mm x 609.60 mm), complete split lid with ½ cut out for FieldSmart cabinets - with bolt kit, flared wall
V8B-CZP-F	Vault, Pencil 36 x 60 x 36" (914.40 mm x 1524.00 mm x 914.40 mm), complete split lid, with ½ cut out for FieldSmart cabinets - with bolt kit, flared wall
V9B-HZP-PC	Vault, Pencil 48 x 48 x 36" (1219.20 mm x 1219.20 mm x 914.40 mm), complete split polymer concrete lid, cut out for 864 cabinets, polymer concrete straight wall

FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



Configured Part Numbers - 864 Port

R - H - XXXM or XXXF

1234567891011

1 Select Cabinet Riser/Mounting

A = 4" (101.60 mm)
B = 12" (304.80 mm)

2 Select Feeder

1 = 12 6 = 72
2 = 24 7 = 84
3 = 36 8 = 96
4 = 48 Z = No Feeder
5 = 60

3 Select Distribution Port Count

XXX = Port Count in Increments of 12
(Max. 864)
ZZZ = No Distribution

4 Select Connector

A = SC/UPC
C = SC/APC
F = LC/UPC DX
H = LC/APC DX

5 Select Mode / Type

1 = Singlemode – non-ribbon
2 = Singlemode – ribbon

6 Select Jacket Construction

B = OSP Riser
E = OSP, Non-rated
F = Patch and Splice
M = OSP Armored

7 Select Qty. of 288/216 Fiber OSP Cables

0 = 0 C = 3-216
1 = 1-288 D = 4-216
2 = 2-288 E = 1-288; 1-216
3 = 3-288 F = 1-288; 2-216
A = 1-216 G = 2-288; 1-216
B = 2-216

8 Select Qty. of 144 Fiber OSP Cables

0 = 0 4 = 4
1 = 1 5 = 5
2 = 2 6 = 6
3 = 3

9 Select Qty. of 96 Fiber OSP Cables

0 = 0 5 = 5
1 = 1 6 = 6
2 = 2 7 = 7
3 = 3 8 = 8
4 = 4 9 = 9

10 Select Qty. of 72 Fiber OSP Cables

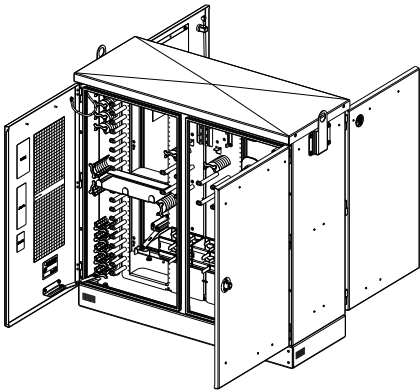
0 = 0 5 = 5
1 = 1 6 = 6
2 = 2 7 = 7
3 = 3 8 = 8
4 = 4 9 = 9

11 Select Ground Box/Extras

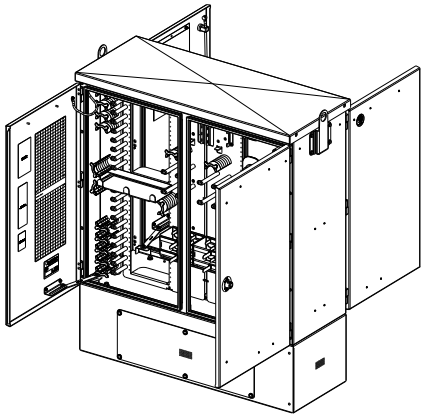
B = Clearview Blue Cassettes
M = Ground Box With 12" Riser Clearview
Blue Cassettes

XXXM or XXXF

XXXM = Length in meters
XXXF = Length in feet



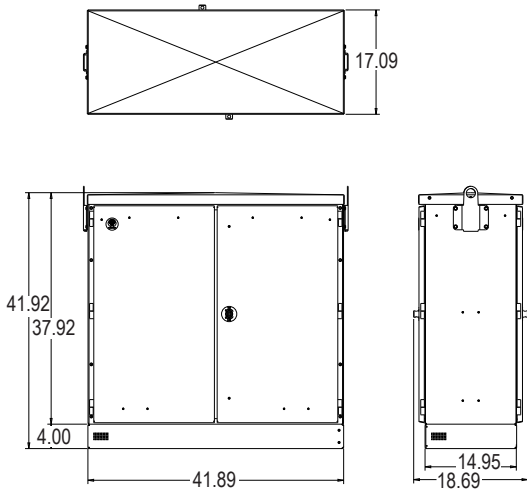
864 Interior View with 4" Riser



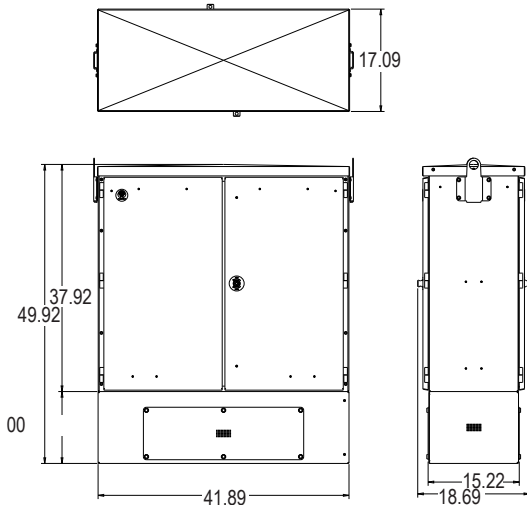
864 Interior View with 12" Riser

FieldSmart® Fiber Distribution Hub (FDH)

144, 288, 432, 576 and 864-Port PON Cabinet



864 with 4" (101.60 mm) Riser - Dimensions



864 with 4" (101.60 mm) Riser - Dimensions

Pre-Configured Part Numbers

Vault Options

Part Number	Description
V9B-HZP-PC	Vault, Pencil 48 x 48 x 36" (1219.20 mm x 1219.20 mm x 914.40 mm), complete split polymer concrete lid, cut out for 864 cabinets, polymer concrete straight wall

Certificate Of Completion

Envelope Id: D3F6E296-A9E8-4BF6-93D8-7A4BAFB03160
Subject: Mykenzie Bessolo - ROW Permit Application
Source Envelope:
Document Pages: 31
Certificate Pages: 4
AutoNav: Enabled
Envelopeld Stamping: Enabled
Time Zone: (UTC-06:00) Central Time (US & Canada)

Status: Sent

Envelope Originator:
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Anoka County Government Center
2100 3rd Avenue
Anoka, MN 55303
highwaypermits@anokacountymn.gov
IP Address: 199.21.93.11

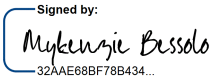
Record Tracking

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Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: Anoka County	Location: Docusign

Signer Events

Mykenzie Bessolo
permits@utilisource.us
Security Level:
DocuSign.email
ID: 1
10/6/2025 12:21:50 PM

Signature

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32AAE68BF78B434...

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Using IP Address: 199.21.93.11

Timestamp

Sent: 10/6/2025 12:21:50 PM
Viewed: 10/6/2025 12:21:59 PM
Signed: 10/6/2025 12:34:20 PM

Electronic Record and Signature Disclosure:
Accepted: 2/28/2025 1:23:22 PM
ID: b52993fb-9945-48cb-95d5-ccb4c0e1eadc

Susan Burgmeier
Susan.Burgmeier@anokacountymn.gov
Associate Traffic Technician
Anoka County
Signing Group: Highway Permits
Security Level: Email, Account Authentication
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Sent: 10/6/2025 12:34:25 PM
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Accepted: 8/20/2025 10:28:44 AM
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In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp

Mykenzie Bessolo
permits@utilisource.us
Security Level: Email, Account Authentication
(Optional)

Electronic Record and Signature Disclosure:

Carbon Copy Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Envelope Updated	Security Checked	10/6/2025 12:34:21 PM
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Anoka, MN 55303

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