

#### Minnesota Health Care Engineers Association

Bob Dehler, P.E. | Engineering Program Manager

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## All You Ever Wanted to Know About Healthcare Plan Review and Inspection

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#### Agenda

- Hot Topics
- Who are we
- When Do We Review Projects
- Plan Review/Submittal Requirements



- New Staff Member, Michael Mireau
- FGI did not get hearing before deadline last session. Hopefully this next session
- 2018 FGI should be out before end of year
- ICRA During Construction. Great Training Available.

http://constructionicra.org/upcomingtraining-schedule/



- Working on revamp of our website. Any input is appreciated. Intend to increase transparency and make the PDC process easier
- Ventilation in offsite units of hospitals.
   Comply with ASHRAE 170 per CMS COP's
- S&C 17-38-LSC, rated door inspections
  - Full compliance with NFPA 80 for fire doors, January 1, 2018
  - 7.2.1.15 not applicable to healthcare
  - 4.6.12.3, maintain or remove features of fire safety



- Outlet testing, NFPA 99 and NFPA 70
- Emergency center fall under healthcare?
- Effective November 28, 2016, each resident room must have a dedicated bathroom with at least a toilet and sink
- Updated Life Safety Code Documentation Guide. Big thanks to Bob Imholte! Please access through Engineering Services website



- S & C 17-30, Reduce Legionella Risk
  - Facilities must develop and adhere to policies and procedures that inhibit microbial growth. Based on national standard (ASHRAE 188 and CDC)
  - Applicable to Hospitals, Critical Access Hospitals and Nursing Homes
- Ligature risks being scrutinized. Joint commission announced that all ligature and self harm risks must be corrected within 60 days



#### Our Team



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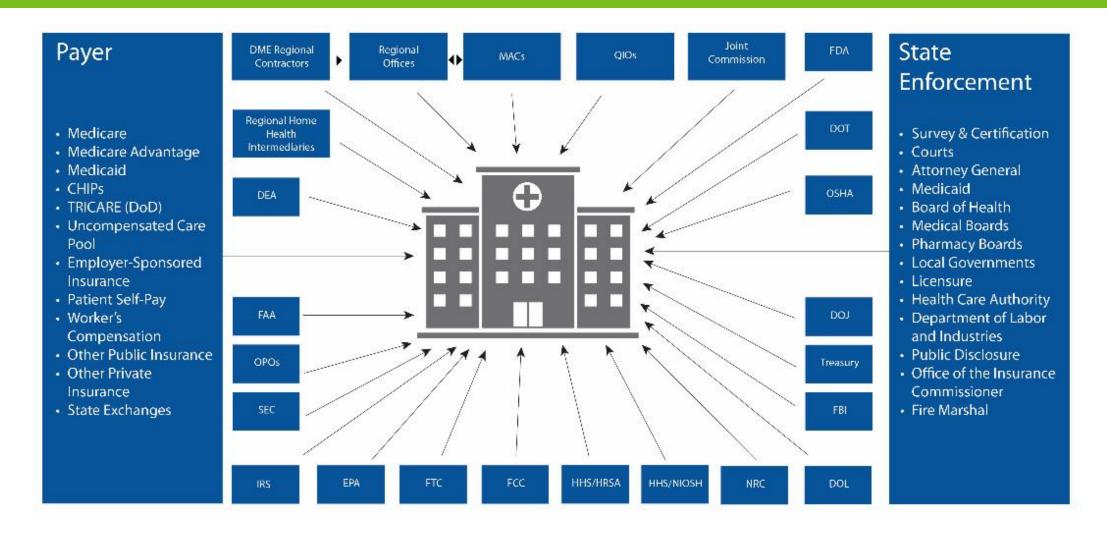
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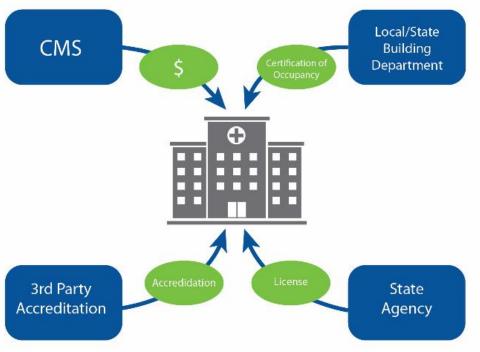
# WHYDO WEREVIEW

#### Who are some AHJ's?



There are many different authorities having jurisdiction (AHJ) in healthcare.
 Literally, hundreds

- Of the hundreds of AHJ's, here are a few...
  - MDH
  - CMS
  - State Fire Marshal
  - Joint Commission (3<sup>rd</sup> Party Accreditation)
  - Labor and Industry



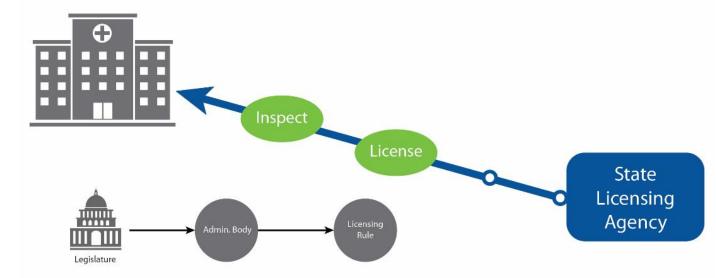
#### **MDH**

 MDH is an authority having jurisdiction because we license the healthcare facility through the Health Regulation Division

We get to work together because licensure requirements include physical

environment

 In order to operate as a healthcare facility, you must have a state license and comply with all licensure requirements



#### **CMS**

- Federal Certification, Centers for Medicare/Medicaid Services (CMS)
- Federal certification is optional, but if you want CMS funding, you must comply with their requirements
- CMS has entered into a contract with MDH to enforce certification requirements
- CMS also deems other organizations



#### State Fire Marshal

- The Minnesota State Fire Marshal enforces the Minnesota State Fire Code
- The SFM has jurisdiction over healthcare facilities
- Highly trained and skilled in fire safety. MDH has an interagency agreement with the SFM to perform life safety code surveys for compliance with CMS
- You will see them with MDH performing construction inspections and life safety code surveys

## Third Party Accreditation (Joint Commission)

• The Joint Commission is an independent, not-for-profit organization. Most common in MN

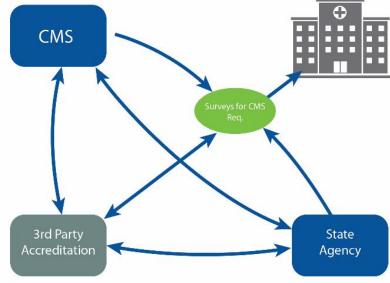
'Deemed' by CMS as having standards and a survey process that meets or

exceeds Medicare's requirements

There are other organizations 'deemed' by CMS

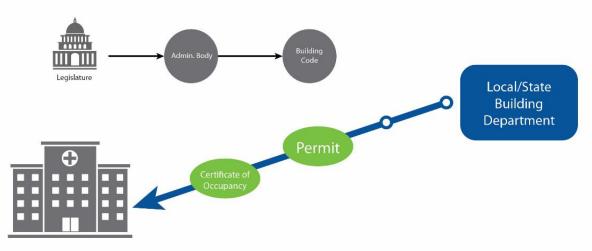
 Facilities have the option to be accredited by accrediting organizations or CMS

• S&C 17-40-AO, List of accrediting orgs for CMS



## Labor and Industry

- All building construction must meet state/local building codes
  - Building, electrical, mechanical, plumbing codes
  - Accessibility code
  - Elevator code
  - Sprinkler code



• Example: We look for all doors in the means of egress to be 44". Labor and Industry will ensure proper push/pull clearances at the doors

- Intricate web of AHJ's
- We are here to help facilitate your projects. We are part of the team
- We generally look at licensure and certification but will try to point out other issues we see
- The easier your project goes for you the easier your project goes for us. We do
  not like to deal with issues after construction when we can work out any
  wrinkles during design

Each of the applicable licensure rules include a requirement that construction plans and specifications be reviewed by the Department, either prior to commencement of the construction project or prior to occupancy of the spaces associated with the construction project

For example, MN. Rule 4645.5400 requires that; "Before construction is begun, plans and specifications covering construction of new buildings, additions to existing buildings, or for major remodeling or alterations of existing buildings shall be submitted in duplicate to the commissioner of health for its approval"

Sending the plans to Engineering is adequate

As with other licensed health care categories, MN. Rule 4645.5300 requires that preliminary plans or sketches be submitted to the Department prior to the development of final construction documents

 We are part of the team and enjoy preliminary reviews to help the design process and minimize problems later

The licensed categories and associated rule part are as follows:

Hospital: 4645.5400

Nursing Home: 4658.4005

Boarding Care Home 4660.0500

**Supervised Living Facility** 

4665.0400, subp. 4

**Residential Hospice** 

4664.0360

Freestanding Outpatient Surgical Center

4675.0300, subp. 6

These licensed categories also have companion federal certification categories. These are as follows:

<u>Licensure</u> <u>Certification</u>

Hospital Hospital

Nursing Home Skilled Nursing Facility

or Skilled Nursing

Facility/Nursing Facility

Minnesota Department of Health, Engineering Services

<u>Licensure</u>

<u>Certification</u>

**Boarding Care** 

Home

**Nursing Facility II** 

**Supervised Living Facility** 

**Intermediate Care** 

Facility for Individuals

with Intellectual

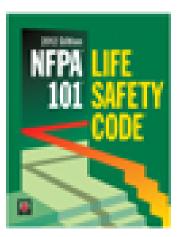
Disabilities

<u>Licensure</u> <u>Certification</u>

Residential Hospice Hospice

No Licensure End Stage Renal Disease Provider

Each of the federally certified categories has a requirement regarding compliance with National Fire Protection Association (NFPA) Standard 101 (Life Safety Code, 2012 edition)



Part of the plan review process involves assuring that the proposed design is compliant with the applicable provisions of the Life Safety Code (12) and other physical plant requirements detailed in the applicable Code of Federal Regulations (CFR)

#### Question????

What does CMS say about plan review

The applicable CFR cite for each category is as follows:

Hospital

42 CFR §482.41(b)

Critical Access Hospital

42 CFR §485.623(c)

#### § 482.41 Condition of participation: Physical environment.

The <u>hospital</u> must be constructed, arranged, and maintained to ensure the safety of the <u>patient</u>, and to provide facilities for <u>diagnosis</u> and treatment and for special <u>hospital</u> services appropriate to the needs of the community.

- (a)Standard: Buildings. The condition of the physical plant and the overall <u>hospital</u> environment must be developed and maintained in such a manner that the safety and well-being of <u>patients</u> are assured.
- (1) There must be emergency power and lighting in at least the operating, recovery, intensive care, and emergency rooms, and stairwells. In all other <u>areas</u> not serviced by the emergency supply source, battery lamps and flashlights must be available.
- (2) There must be facilities for emergency gas and water supply.
- (b)Standard: Life safety from fire.

- (1) Except as otherwise provided in this section -
- (i) The <u>hospital</u> must meet the applicable provisions and must proceed in accordance with the Life Safety Code (NFPA 101 and Tentative Interim Amendments TIA 12-1, TIA 12-2, TIA 12-3, and TIA 12-4.) Outpatient surgical <u>departments</u> must meet the provisions applicable to Ambulatory Health Care Occupancies, regardless of the number of <u>patients</u> served.
- (ii) Notwithstanding paragraph (b)(1)(i) of this section, corridor doors and doors to rooms containing flammable or combustible materials must be provided with positive latching hardware. Roller latches are prohibited on such doors.
- (2) In consideration of a recommendation by the <u>State</u> survey agency or Accrediting Organization or at the discretion of the <u>Secretary</u>, may waive, for periods deemed appropriate, specific provisions of the Life Safety Code, which would result in unreasonable hardship upon a <u>hospital</u>, but only if the waiver will not adversely affect the health and safety of the patients.
- (3) The provisions of the Life Safety Code do not apply in a <u>State</u> where <u>CMS</u> finds that a fire and safety code imposed by <u>State</u> law adequately protects <u>patients</u> in <u>hospitals</u>.
- (4) The hospital must have procedures for the proper routine storage and prompt disposal of trash.

- (5) The <u>hospital</u> must have written fire control plans that contain provisions for prompt reporting of fires; extinguishing fires; protection of patients, personnel and guests; evacuation; and cooperation with fire fighting authorities.
- (6) The <u>hospital</u> must maintain written evidence of regular inspection and approval by <u>State</u> or local fire control agencies.
- (7) A <u>hospital</u> may install alcohol-based hand rub dispensers in its facility if the dispensers are installed in a manner that adequately protects against inappropriate access;
- (8) When a sprinkler system is shut down for more than 10 hours, the <u>hospital</u> must:
- (i) Evacuate the building or portion of the building affected by the system outage until the system is back in service, or
- (ii) Establish a fire watch until the system is back in service.

- (9) Buildings must have an outside window or outside door in every sleeping room, and for any building constructed after July 5, 2016 the sill height must not exceed 36 inches above the <u>floor</u>. Windows in atrium walls are considered outside windows for the purposes of this requirement.
- (i) The sill height requirement does not apply to newborn nurseries and rooms intended for occupancy for less than 24 hours.
- (ii) The sill height in special nursing care <u>areas</u> of new occupancies must not exceed 60 inches.

Skilled Nursing Facility/ Nursing Facility 42 CFR §483.90(a)

**Nursing Facility II** 

42 CFR §483.90(a)

ICF/IID

42 CFR §483.470(j)

Hospice

42 CFR §418.100(d)

**Ambulatory Surgical Center** 

42 CFR §416.44(b)

**ESRD** 

42 CFR §494.60(d)(1)

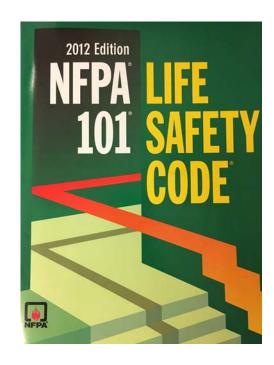
Our staff has limited knowledge of the State Building Code and the Minnesota State Fire Code. If, during the plan review process, they note some issues with compliance with either of these Codes, they will contact the appropriate staff at the Department of Public Safety or Department of Labor and Industry to discuss

#### HOSPITAL LICENSURE

- Minnesota Rule Chapter 4640
- Minnesota Rule Chapter 4645
- Minnesota Statute 144.55
  - ➤ References 42CFR 1395, Federal hospital certification regulations
- FGI Guidelines, Guidelines for Design and Construction of Health Care Facilities (2014 Edition)

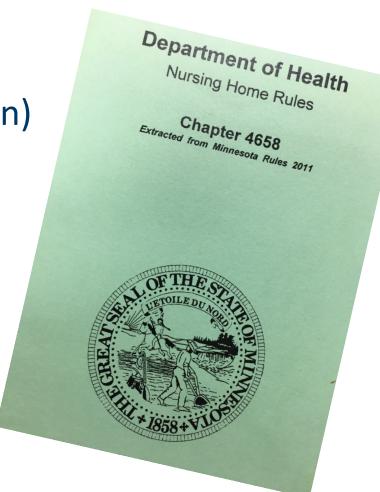
#### HOSPITAL CERTIFICATION

- NFPA 101 (2012 Edition)
  - ➤ Chapter 18, New (July 5, 2016)
  - ➤ Chapter 19, Existing



#### NURSING HOME LICENSURE

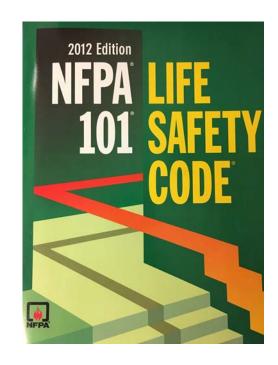
- Minnesota Rule 4658
  - ➤ References NFPA 101 (1985 Edition)
- Minnesota Statute 144A.04



#### **Nursing Home Certification**

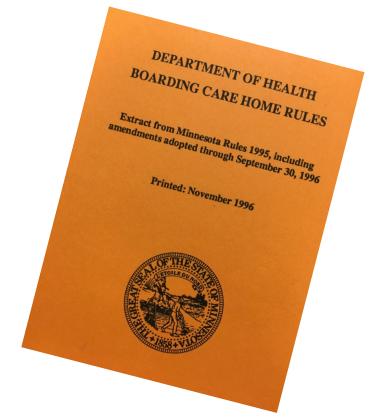
#### NFPA 101 (2012 Edition)

- ➤ Chapter 18, New (July 2016)
- ➤ Chapter 19, Existing



## Boarding Care Licensure

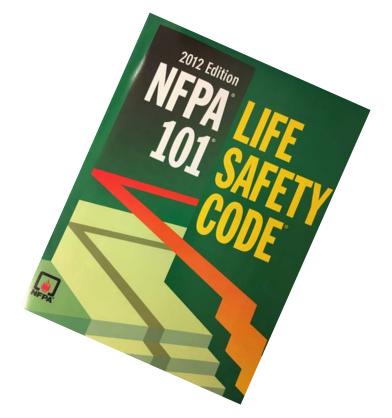
- Minnesota Rules 4660
- Minnesota Rules 4655 (operation)



## **Boarding Care Certification**

#### NFPA 101 (2000 Edition)

- ➤ Chapter 18, New (March 2003)
- ➤ Chapter 19, Existing

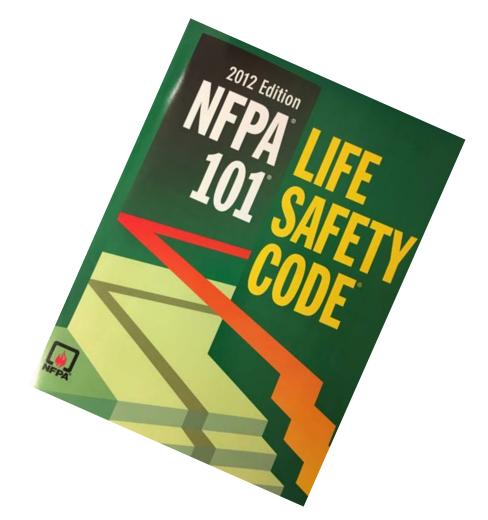


## Residential Hospice Licensure

- Minnesota Rule 4664
  - ➤ (12 Bed Maximum)
- 1997 LSC (Licensed only)
  - Chapter 22 (Board & Care)

## Hospice Certification

- NFPA 101 (2012 Edition)
  - ➤ Chapter 18 & 19



## Supervised Living Facility Licensure

Minnesota Rule 4665

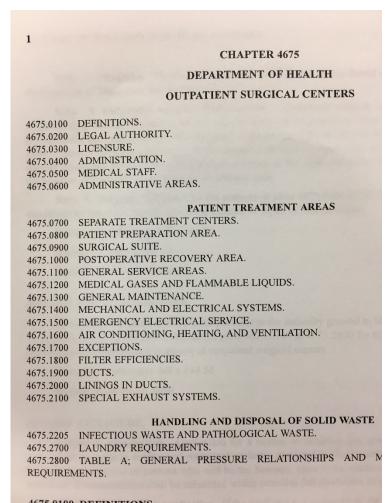
## ICF/IID Certification

NFPA 101 (2012 Edition) Chapter 32/33

(Residential Board & Care Occupancies)

#### Freestanding Outpatient Surgical Center Licensure

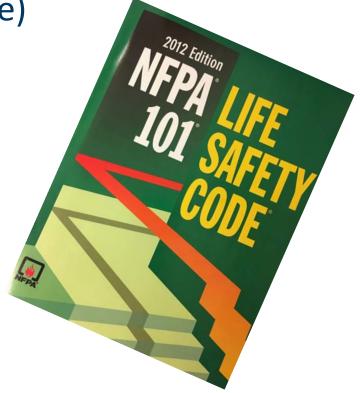
Minnesota Rules 4675



## Ambulatory Surgical Center Certification

NFPA 101 (2012 Edition)

➤ Chapter 20/21 (ambulatory health care)



## End Stage Renal Dialysis Licensure

- Not Licensed in Minnesota
- Still must comply with state/local building codes. Including accessibility

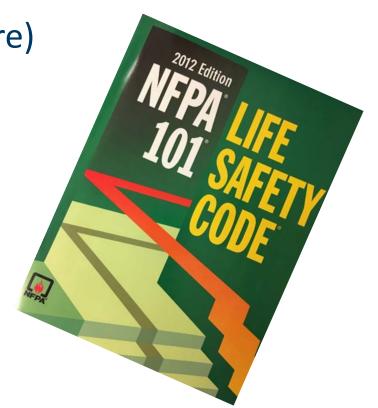
#### **ESRD Certification**

NFPA 101 (2012 Edition)

➤ Chapter 20/21(ambulatory health care)

Only if...

- > if attached to high hazard
- ➤If not on level of discharge







#### WHEN DO WE REVIEW





 MN. Rule 4645.5400 requires that; "Before construction is begun, plans and specifications covering construction of new buildings, additions to existing buildings, or for major remodeling or alterations of existing buildings shall be submitted in duplicate to the commissioner of health for its approval"

#### **Federal Certification**

**State Licensure** 

Repair

Renovation

Modification

Reconstruction

Change of Use

Change of Occupancy

Addition

Redecoration/Replace in Kind

Addition of New Resident Serv.

"Addition of new resident services" means the commencement of a resident service, such as physical or occupational therapy, that is not being provided for the residents as of November 12, 1996

4658.0010, subp.1a

"Redecoration" means the repainting of walls or ceilings, or the covering or recovering of walls, ceilings, or floors with suitable interior finishing materials

➤ 4658.0010, subp.13a

"Replace-in-kind" means the removal of mechanical or electrical equipment or construction materials from facility space and subsequent installation of new or used equipment or construction materials with similar operating capability, function, and physical composition

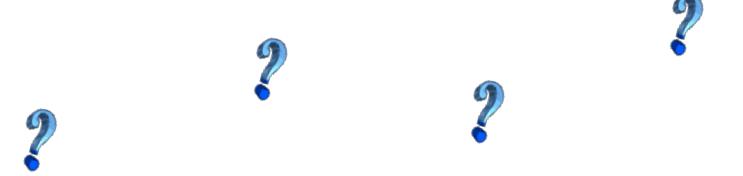
> 4658.0010, subp.13c

"Remodel" means reconstruction of existing facility space, including floors, walls, and ceilings. Remodeling includes reconstruction work necessary to change the function of the facility space or to facilitate a change in operating capability or physical composition of existing equipment, fixtures, or appurtenances

> 4658.0010, subp.13b

- No new requirements, just new nomenclature. We are not changing the way we are doing business.
- For licensure or certification we would not review interior finish upgrades, repairs or replacement in kind

# WHAT DO WE NEED



Preliminary discussions regarding project concept, proposed designs, and preliminary plan reviews are generally conducted in face-to-face meetings in our offices. In most cases, documents brought to these meetings by professional designers and facility staff are not retained on file by the Department

#### What do we need

The review of final construction documents takes place in two different ways. A facility (generally through the professional designer) may submit the final documents via USPS or courier. These plans are logged into a tracking system and the review process begins

The facility may request a face-to-face plan review. Again, the professional designer(s) generally attend these meetings. Following the meeting, the plans are added to the tracking system. In many cases, the facility/designer leaves our offices with a plan approval letter in hand

The submittal of final construction documents includes a number of items as follows:

- A completed Plan Review Submittal Form
- One (1) hard copy of the final construction plans and specifications
- Electronic copy of the final construction plans
- Appropriate fee according to the submittal form

The plan review submittal form is found on the Minnesota Department of Health website at

www.health.state.mn.us/divs/fpc/engineering/

- It must be filled out completely, including the estimated cost of the project and building type
- We just added HFID and offsite unit of hospital
- Use new form from website at all times. We try to keep it updated



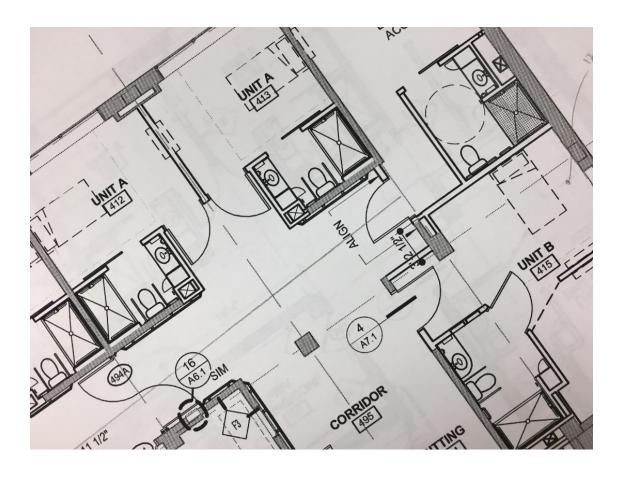
#### **Construction Plan Submittal Form**

General Information				
Project Name: Enter the name of the project			Date: Enter the date	
Project Narrative: Enter a description of the project				
Facility Administrator: Enter name Administrator's Email: Enter email address			Phone: Enter phone	
Facility Name: Enter facility name Facility Addre			ss: Enter facility address	
Project Address: Enter the project address			HFID # Enter HFID #	
City: Enter city	State: MN	Zip: Enter zip	County: Enter county	
Submitter: Enter name			Phone: Enter phone	
Submitter's Email: Enter email address				
Submitter's Firm Name: Enter firm name Firm Mailing Address: Enter firm address				

Building and Plan Code Information			
Number of Floors: Enter number of floors	Area Size in Square Feet: Enter square feet		
Project Type:			
New Construction ☐ Repair ☐ Renovation ☐ Modification ☐ Reconstruction ☐			
Change Occupancy $\square$ Change of Use $\square$			
Type of Construction:			
। (443) □ । (332) □ ॥ (222) □ ॥ (111) □			
II (000) $\square$ III (211) $\square$ III (200) $\square$ IV (2HH) $\square$ V (111) $\square$ V (000) $\square$			
State License Type:	Federal Certification Type:		
FOSC ☐ HSP ☐ NH ☐ RES HOSPICE ☐	ASC □ CAH □ ESRD □		
SLF A □ SLF B □ SLF A & B □	HSP ☐ HOSPICE ☐ ICF/IID ☐		
Off Site Unit of HSP $\square$	SNFNF □		

The hard copy of the final construction plans must be certified in accordance with MN. Rule 1800.4200. Plans and specifications that are not properly certified are not entered in the tracking system until the problem is corrected

This means that the plan review process is put on hold for those plans and specifications



The electronic copy of the documents must also be properly certified and an exact copy of the hard copy submittal

- Failure to provide any one item will delay your project from being completely entered in our system
- Any time construction activity takes place in a healthcare facility, plans should be submitted for review and approval
- The main exception is interior finish replacement
- Remember, we review plans to help the facility. Not be a pain to the facility or engineer/architect
- Please do not send MDH <u>all</u> drawing changes throughout construction. Only changes that affect licensure and certification requirements. If a change is sent to MDH, additional plan review fees may be required

Upon completion of the plan review process, the hard copies are recycled



### **QUESTIONS**





All You Ever Wanted to Know About Healthcare Plan Review and Inspection

## Thank You!