

# ENGINEERING PLAN

## 1821 VERDE AVENUE

### ARLINGTON HEIGHTS, ILLINOIS

#### LEGEND

| EXISTING | PROPOSED |                        |
|----------|----------|------------------------|
| ⊙        | ⊙        | MANHOLE                |
| ○        | ●        | CATCH BASIN            |
| □        | ■        | INLET                  |
| ⊕        | ⊕        | CLEANOUT               |
| ⌒        | ⌒        | FLARED END SECTION     |
| ⊕        | ⊕        | WATER VALVE BOX        |
| ⊕        | ⊕        | BUFFALO BOX (B.BOX)    |
| ⊕        | ⊕        | WATER VALVE & VAULT    |
| ⊕        | ⊕        | FIRE HYDRANT           |
| ⊕        | ⊕        | WELL                   |
| ⊕        | ⊕        | GAS VALVE              |
| ⊕        | ⊕        | GAS METER              |
| ⊕        | ⊕        | COMMUNICATION CANISTER |
| ⊕        | ⊕        | COMMUNICATION HANDHOLE |
| ⊕        | ⊕        | COMMUNICATION MANHOLE  |
| ⊕        | ⊕        | ELECTRIC CANISTER      |
| ⊕        | ⊕        | ELECTRIC HANDHOLE      |
| ⊕        | ⊕        | ELECTRIC MANHOLE       |
| ⊕        | ⊕        | ELECTRIC METER         |
| ⊕        | ⊕        | TRAFFIC SIGNAL         |
| ⊕        | ⊕        | TRAFFIC HANDHOLE       |
| ⊕        | ⊕        | TRAFFIC CONTROL BOX    |
| ⊕        | ⊕        | UTILITY POLE           |
| ⊕        | ⊕        | UTILITY POLE W/ LIGHT  |
| ⊕        | ⊕        | STREET LIGHT           |
| ⊕        | ⊕        | STREET SIGN            |
| ⊕        | ⊕        | BORING LOCATION        |
| ⊕        | ⊕        | MAILBOX                |
| ⊕        | ⊕        | SPOT ELEVATIONS        |
| ⊕        | ⊕        | PROPERTY LINE          |
| ⊕        | ⊕        | ADJACENT PROPERTY LINE |
| ⊕        | ⊕        | EASEMENT LINE          |
| ⊕        | ⊕        | SETBACK LINE           |
| ⊕        | ⊕        | RIGHT OF WAY LINE      |
| ⊕        | ⊕        | STORM SEWER LINE       |
| ⊕        | ⊕        | SANITARY SEWER LINE    |
| ⊕        | ⊕        | WATERMAIN LINE         |
| ⊕        | ⊕        | UNDERGROUND GAS LINE   |
| ⊕        | ⊕        | UNDERGROUND COMM. LINE |
| ⊕        | ⊕        | UNDERGROUND ELECTRIC   |
| ⊕        | ⊕        | OVERHEAD UTILITY       |
| ⊕        | ⊕        | FENCE LINE             |
| ⊕        | ⊕        | GUARDRAIL LINE         |
| ⊕        | ⊕        | CONTOUR LINE           |

#### PROJECT LOCATION



#### PROJECT LOCATION MAP

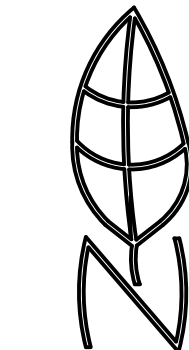
PREPARED FOR  
**JOHN VANKOOTEN**  
**1821 VERDE AVENUE**  
**ARLINGTON HEIGHTS, IL 60005**

#### NOTICE TO CONTRACTORS

##### EXISTING UTILITIES

WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF OVERHEAD AND/OR UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR VERACITY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL PUBLIC AND PRIVATE UTILITY COMPANIES WHICH MAY HAVE OVERHEAD OR UNDERGROUND FACILITIES IN THE AREA BEFORE CONSTRUCTION BEGINS. (SEE SPECIFICATIONS)



#### INDEX OF SHEETS

- COVER SHEET
- EXISTING CONDITIONS
- PRELIMINARY ENGINEERING
- DETAILS

COVER SHEET  
1821 VERDE AVENUE  
ARLINGTON HEIGHTS, ILLINOIS

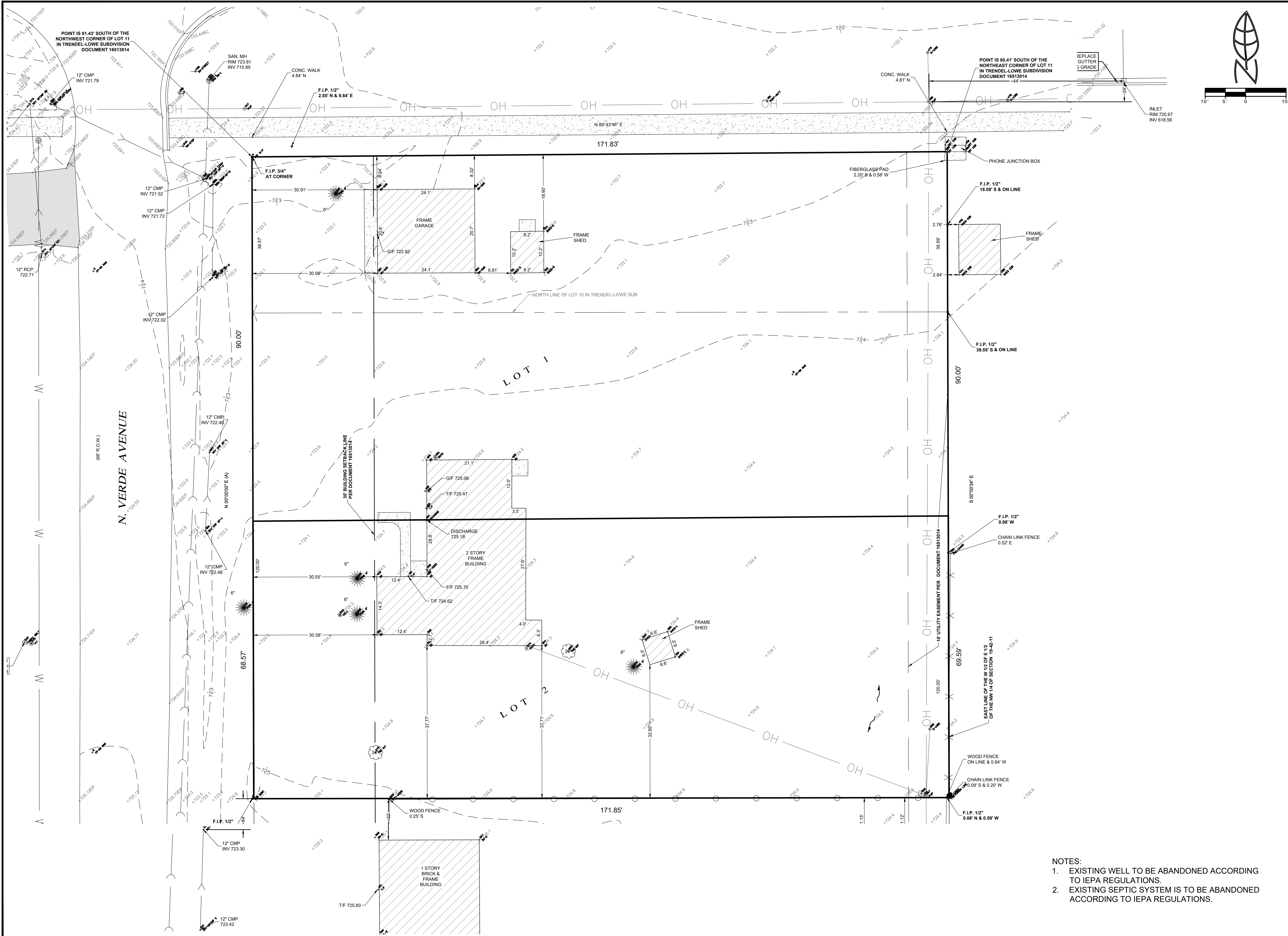
Morris Engineering, Inc.  
Civil Engineering • Consulting  
Land Surveying  
515 Warrenville Road, Lisle, IL 60532  
Phone: (630) 271-0770  
Survey: (630) 271-0599  
FAX: (630) 271-0774  
Website: www.ecivil.com



|                   |                   |
|-------------------|-------------------|
| FIELD CREW:       | PW                |
| DRAWN BY:         | CJS               |
| CHECKED BY:       | AS                |
| APPROVED BY:      | EF                |
| DATE:             | 01/29/2021        |
| SCALE:            | HORIZ -<br>VERT - |
| SHEET             | 1                 |
| OF 4 SHEETS       |                   |
| PROJ # 20-10-1003 |                   |



10/25/2023 9:26:48 AM  
I:\2020-2023-10-1003 - Verde Ave., Arlington Heights\Engineering\ENG\_20-10-1003\_10-25-2023.dwg



- NOTES:
- EXISTING WELL TO BE ABANDONED ACCORDING TO IEPA REGULATIONS.
  - EXISTING SEPTIC SYSTEM IS TO BE ABANDONED ACCORDING TO IEPA REGULATIONS.

| DATE |            |
|------|------------|
| 1    | 5/11/2021  |
| 2    | 12/6/2021  |
| 3    | 1/14/2022  |
| 4    | 11/07/2022 |
| 5    | 10/25/2023 |
| 6    |            |

| REVISED PER VILLAGE COMMENTS |                              |
|------------------------------|------------------------------|
| 1                            | REVISED PER VILLAGE COMMENTS |
| 2                            | REVISED PER VILLAGE COMMENTS |
| 3                            | REVISED PER VILLAGE COMMENTS |
| 4                            | REVISED PER VILLAGE COMMENTS |
| 5                            | REVISED PER VILLAGE COMMENTS |
| 6                            |                              |

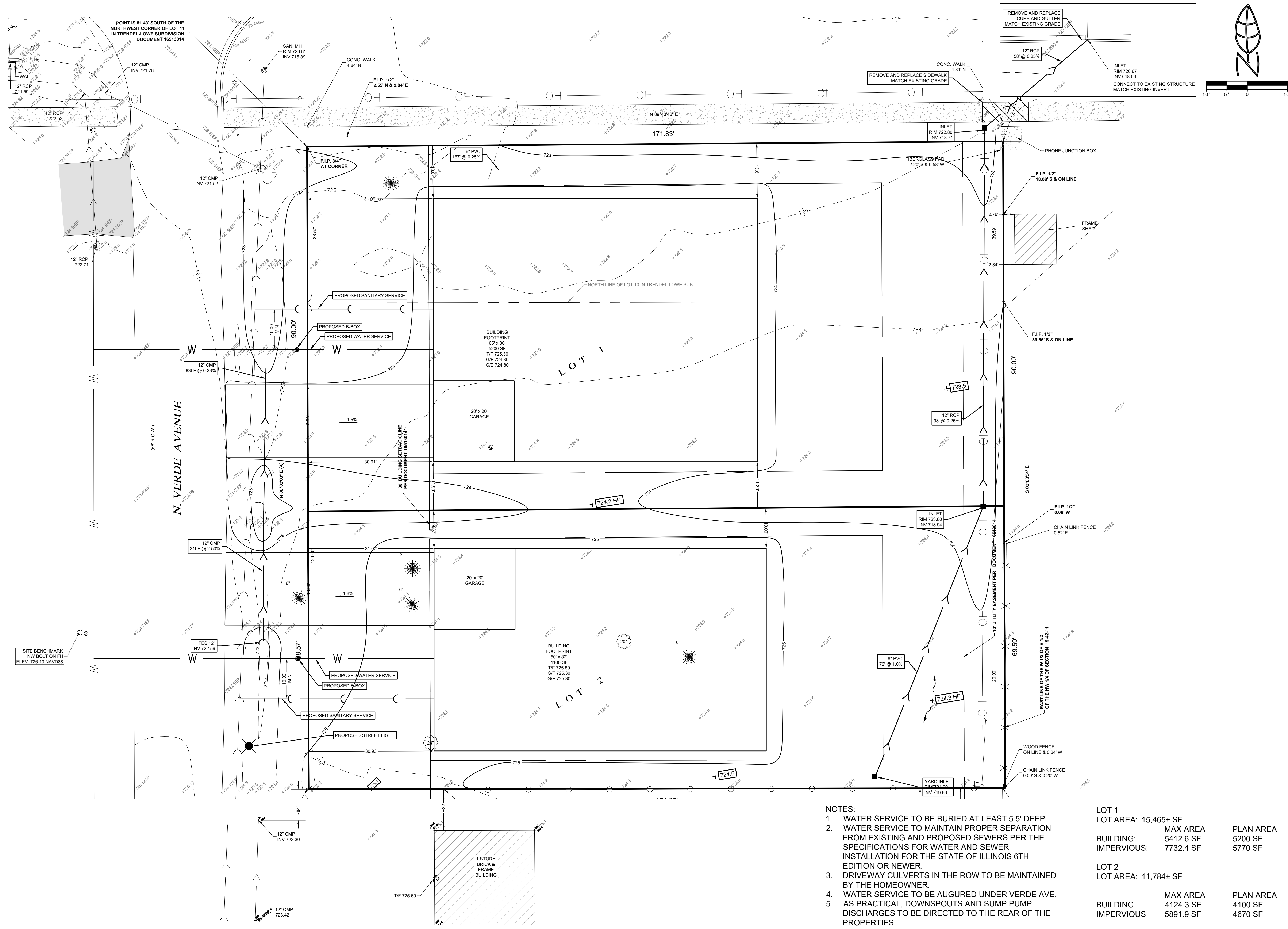
EXISTING CONDITIONS

1821 VERDE AVENUE  
ARLINGTON HEIGHTS, ILLINOIS

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| FIELD CREW:               | PW                     |
|---------------------------|------------------------|
| DRAWN BY:                 | CJS                    |
| CHECKED BY:               | AS                     |
| APPROVED BY:              | EF                     |
| DATE:                     | 01/29/2021             |
| SCALE:                    | HORIZ 1"=10'<br>VERT - |
| SHEET<br>2<br>OF 4 SHEETS |                        |
| PROJ # 20-10-1003         |                        |





- NOTES:
1. WATER SERVICE TO BE BURIED AT LEAST 5.5' DEEP.
  2. WATER SERVICE TO MAINTAIN PROPER SEPARATION FROM EXISTING AND PROPOSED SEWERS PER THE SPECIFICATIONS FOR WATER AND SEWER INSTALLATION FOR THE STATE OF ILLINOIS 6TH EDITION OR NEWER.
  3. DRIVEWAY CULVERTS IN THE ROW TO BE MAINTAINED BY THE HOMEOWNER.
  4. WATER SERVICE TO BE AUGURED UNDER VERDE AVE.
  5. AS PRACTICAL, DOWNSPOUTS AND SUMP PUMP DISCHARGES TO BE DIRECTED TO THE REAR OF THE PROPERTIES.

|             |  |                      |           |
|-------------|--|----------------------|-----------|
| LOT 1       |  | LOT AREA: 15,465± SF |           |
|             |  | MAX AREA             | PLAN AREA |
| BUILDING:   |  | 5412.6 SF            | 5200 SF   |
| IMPERVIOUS: |  | 7732.4 SF            | 5770 SF   |
| LOT 2       |  | LOT AREA: 11,784± SF |           |
|             |  | MAX AREA             | PLAN AREA |
| BUILDING    |  | 4124.3 SF            | 4100 SF   |
| IMPERVIOUS  |  | 5891.9 SF            | 4670 SF   |

PRELIMINARY ENGINEERING

1821 VERDE AVENUE  
ARLINGTON HEIGHTS, ILLINOIS

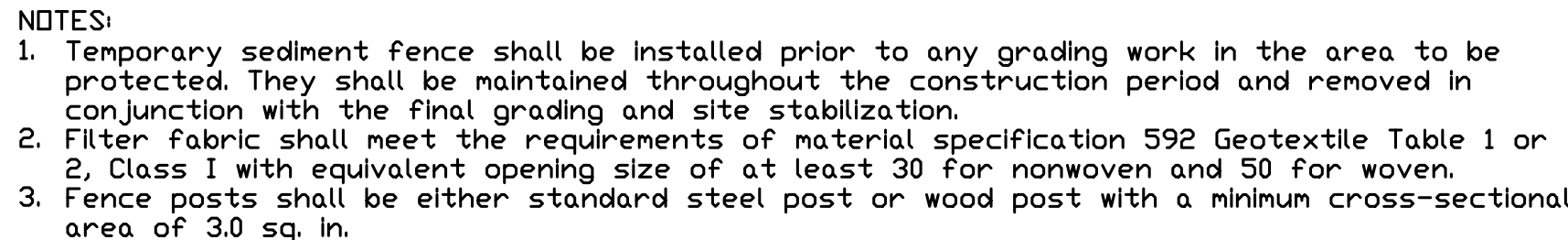
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BETTER INFRASTRUCTURE  
BETTER ENVIRONMENTS  
BETTER LIVES!

|      |   |            |                              |
|------|---|------------|------------------------------|
| DATE | 1 | 5/1/2021   | REVISED PER VILLAGE COMMENTS |
|      | 2 | 12/6/2021  | REVISED PER VILLAGE COMMENTS |
|      | 3 | 1/14/2022  | REVISED PER VILLAGE COMMENTS |
|      | 4 | 11/07/2022 | REVISED PER VILLAGE COMMENTS |
|      | 5 | 10/25/2023 | REVISED PER VILLAGE COMMENTS |
|      | 6 |            |                              |

|              |              |
|--------------|--------------|
| FIELD CREW:  | PW           |
| DRAWN BY:    | CJS          |
| CHECKED BY:  | AS           |
| APPROVED BY: | EF           |
| DATE:        | 01/29/2021   |
| SCALE:       | HORIZ 1"=10' |
|              | VERT -       |
| SHEET        | 3            |
| OF 4 SHEETS  |              |
| PROJ #       | 20-10-1003   |



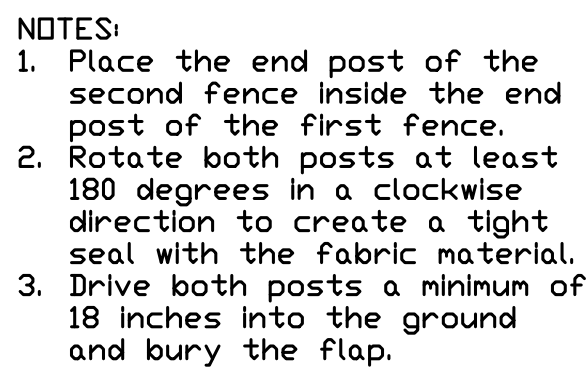


|                |            |
|----------------|------------|
| REFERENCE      |            |
| Project _____  |            |
| Designed _____ | Date _____ |
| Checked _____  | Date _____ |
| Approved _____ | Date _____ |



STANDARD DWG. NO.  
IL-620  
SHEET 1 OF 2  
DATE 11-20-01

SILT FENCE  
PLAN  
SHEET 1 OF 2



REFERENCE

Project \_\_\_\_\_

Designed \_\_\_\_\_ Date \_\_\_\_\_

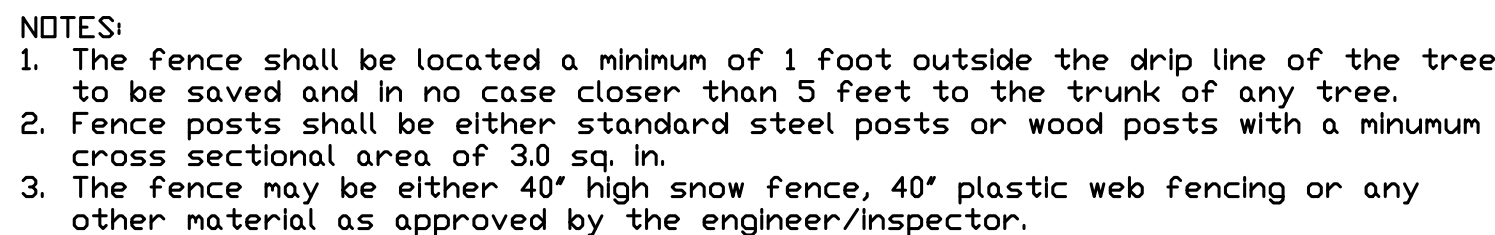
Checked \_\_\_\_\_ Date \_\_\_\_\_

Approved \_\_\_\_\_ Date \_\_\_\_\_



STANDARD DVG. NO.  
IL-620(W)  
SHEET 2 OF 2  
DATE 1-29-99

SILT FENCE  
PLAN  
SHEET 2 OF 2



|           |                  |
|-----------|------------------|
| REFERENCE |                  |
| Project   | _____            |
| Designed  | _____ Date _____ |
| Checked   | _____ Date _____ |
| Approved  | _____ Date _____ |



STANDARD DWG. NO.  
IL-690  
SHEET 1 OF 1  
DATE 4-7-84

## TREE PROTECTION FENCING

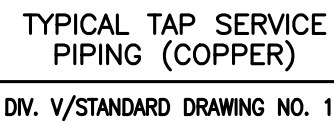
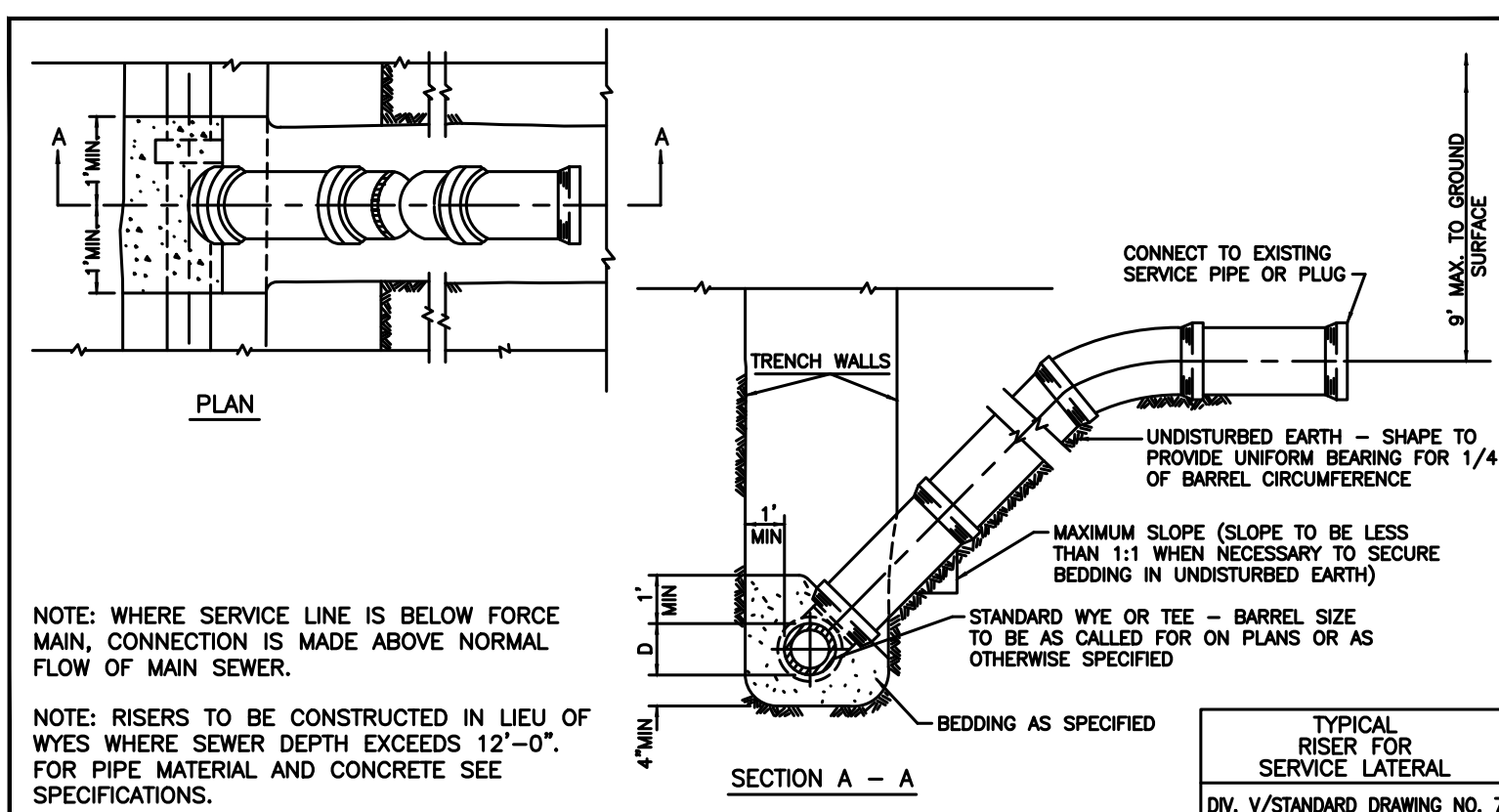


Diagram illustrating the minimum clearance between a proposed or existing water main and a proposed or existing sewer line. The diagram shows a cross-section of the ground with a water main (top) and a sewer line (bottom). The horizontal clearance is labeled as less than 10 feet. The vertical clearance is labeled as 18 inches minimum. The ground is labeled as undisturbed soil.

# WATER AND SEWER SEPARATION REQUIREMENTS

## HORIZONTAL SEPARATION

STANDARD DRAWING NO.18

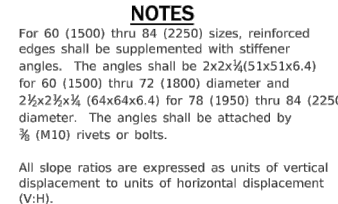


NOTE: WHERE SERVICE LINE IS BELOW FORCE  
MAIN, CONNECTION IS MADE ABOVE NORMAL  
FLOW OF MAIN SEWER.

NOTE: RISERS TO BE CONSTRUCTED IN LIEU OF  
WYES WHERE SEWER DEPTH EXCEEDS 12'-0".  
FOR PIPE MATERIAL AND CONCRETE SEE  
SPECIFICATIONS.

TYPICAL  
RISER FOR  
SERVICE LATERAL

STANDARD DRAWING NO. 7

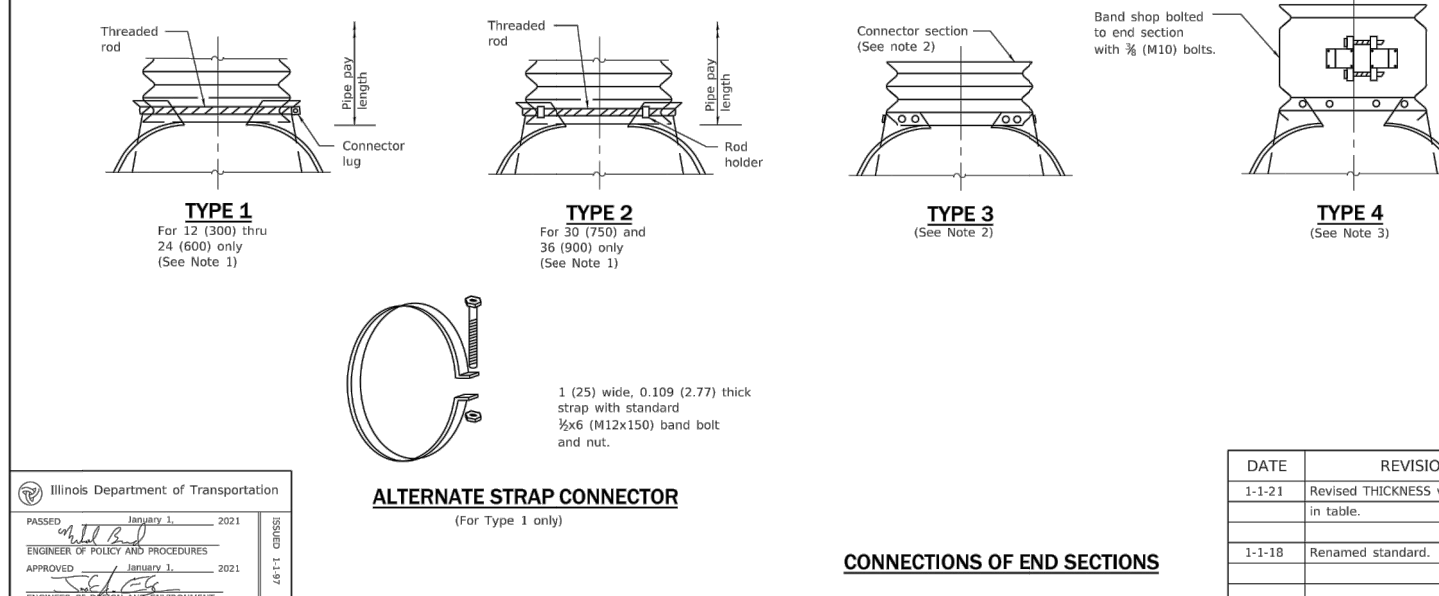
[illegible]

**NOTES**

Types 1 and 2 for pipes with annular ends only.

Type 3 connection may be used for all pipe sizes and includes 12 (300) of the pipe length. The connector section shall be attached to the end section by rivets or bolts and shall be the same metal thickness as the end section. Stud shall be either 2½ (64) pitch x ½ (13) depth or 3 (75) pitch x 1 (25) depth annular corrugated pipe.

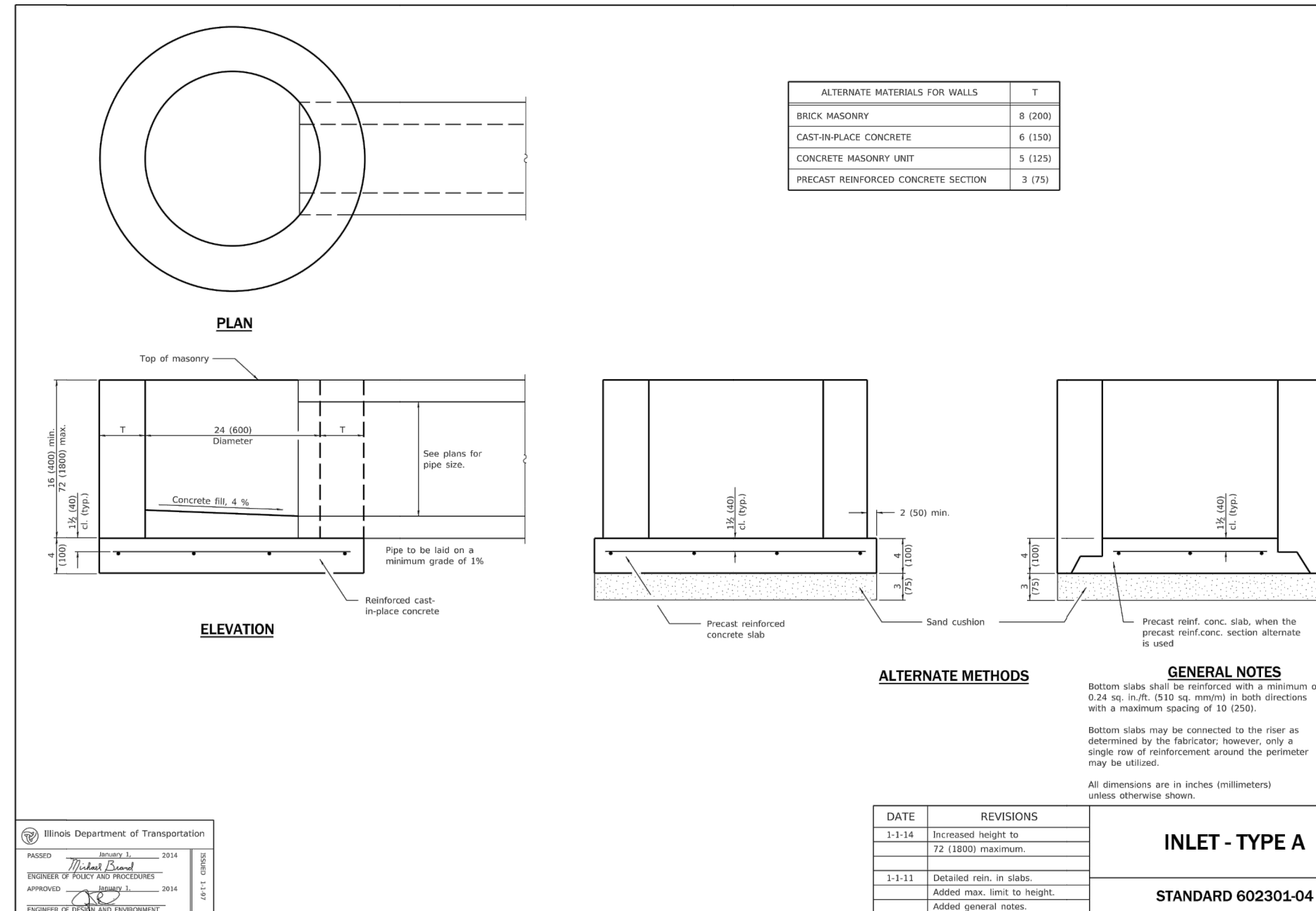
Type 4 connection can be used for all pipe sizes.



**METAL FLARED END  
SECTION FOR  
PIPE CULVERTS**

**STANDARD 542401-04**

| DATE   | REVISIONS                          |
|--------|------------------------------------|
| 1-1-21 | Revised THICKNESS values in table. |
| 1-1-18 | Remained standard.                 |



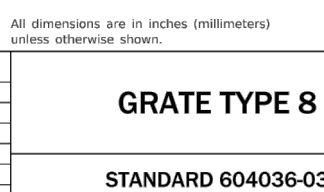
| ALTERNATE METHODS | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <p>Bottom slabs shall be reinforced with a maximum of 0.24 sq. in./ft. (510 sq. mm/m) in both directions with a maximum spacing of 10 (250).</p> <p>Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.</p> <p>All dimensions are in inches (millimeters) unless otherwise shown.</p> |

INLET - TYPE A

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STANDARD 602301-04

STANDARD 602301-04



**GRATE TYPE 8**

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**STANDARD 604036-0**

DETAIL SHEET

1821 VERDE AVENUE  
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FIELD CREW: PW  
DRAWN BY: CJS  
CHECKED BY: AS  
APPROVED BY: EF  
DATE: 01/29/2021  
SCALE: HORIZ -

SHEET  
**4**  
OF 4 SHEETS  
**PROJ # 20-10-1003**