

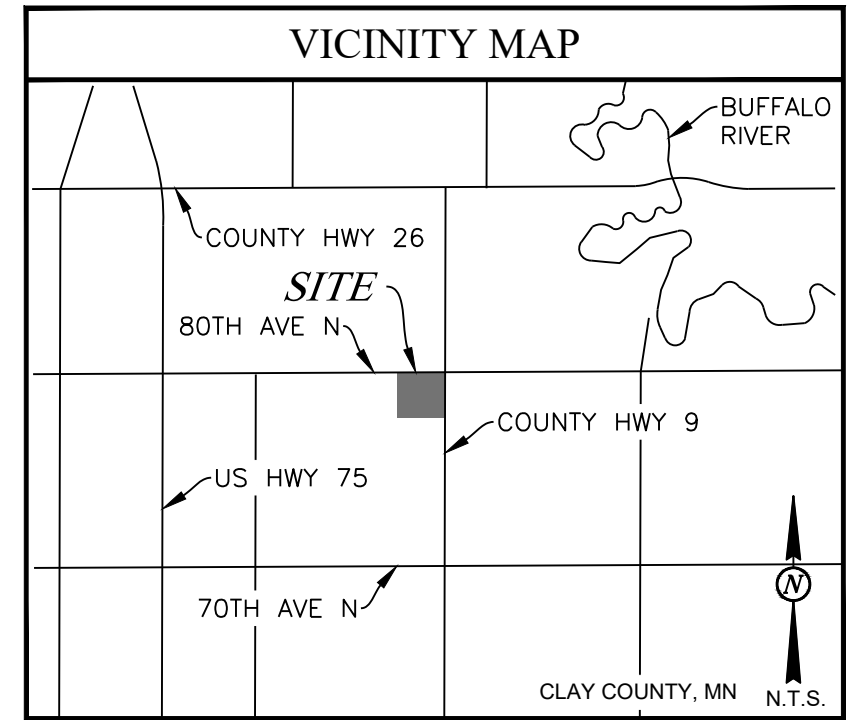
LINDEN TRAILS SUBDIVISION

NORTHEAST QUARTER OF THE NORTHEAST QUARTER SECTION 10 TOWNSHIP 140 N RANGE 48 W
CLAY COUNTY, MINNESOTA

OWNER
CV PROPERTIES
CHRIS VANDERLINDEN
2660 16TH AVENUE SOUTH
MOORHEAD, MN 56560
PH: 701-388-3648

CIVIL ENGINEER
LOWRY ENGINEERING
DANIELLE KUKOWSKI, P.E.
1111 WESTRAC DR., SUITE 108
FARGO, ND 58103
PH: 701-235-0199

LOWRY
ENGINEERING
1111 WESTRAC DRIVE - SUITE 108
FARGO, NORTH DAKOTA 58103



SHEET INDEX

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C-2	GENERAL NOTES & LEGEND
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C-8	DETAILS

ESTIMATED SITE QUANTITIES

ITEM	QUANTITY	UNIT
NEW TREE	493	EA
NEW SIGN	2	EA

- NOTES:**
- CHANGES TO APPROVED PLANS SHALL NOT BE MADE WITHOUT OWNER'S WRITTEN APPROVAL.
 - CHANGES TO APPROVED PLANS ON PUBLIC PROPERTY SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM THE COUNTY.
 - LANDSCAPING IN LANDSCAPE EASEMENT AT ENTRANCE TO SUBDIVISION SHALL BE BY OWNER.
 - CONTRACTOR SHALL COORDINATE WITH OWNER ON TREE SPECIES.
 - STOP SIGN SHALL BE R1-1 30"x30". SIGN SHEETING, STRINGERS, ANCHORS, SUPPORT, AND HARDWARE SHALL MEET MNDOT STANDARD SPECIFICATIONS. BID PRICE FOR NEW STOP SIGN SHALL INCLUDE SIGN PANEL, POST, ANCHOR, BASE, HARDWARE, AND ANY OTHER ITEMS REQUIRED TO INSTALL.
 - ROAD NARROWS SIGN SHALL BE W5-1 30"x30". SIGN SHEETING, STRINGERS, ANCHORS, SUPPORT, AND HARDWARE SHALL MEET MNDOT STANDARD SPECIFICATIONS. BID PRICE FOR NEW STOP SIGN SHALL INCLUDE SIGN PANEL, POST, ANCHOR, BASE, HARDWARE, AND ANY OTHER ITEMS REQUIRED TO INSTALL.
 - SIGN LOCATION, ORIENTATION, AND HEIGHT SHALL BE PER MNDOT AND MUTCD STANDARDS.

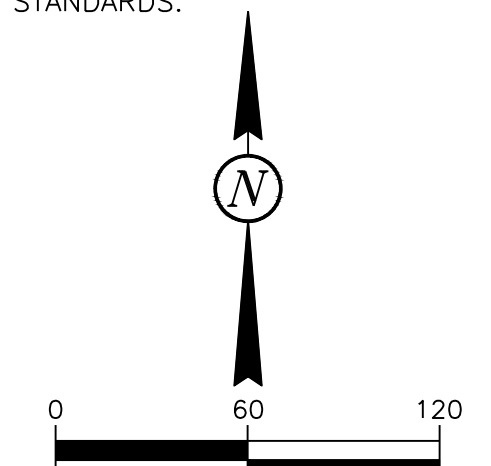
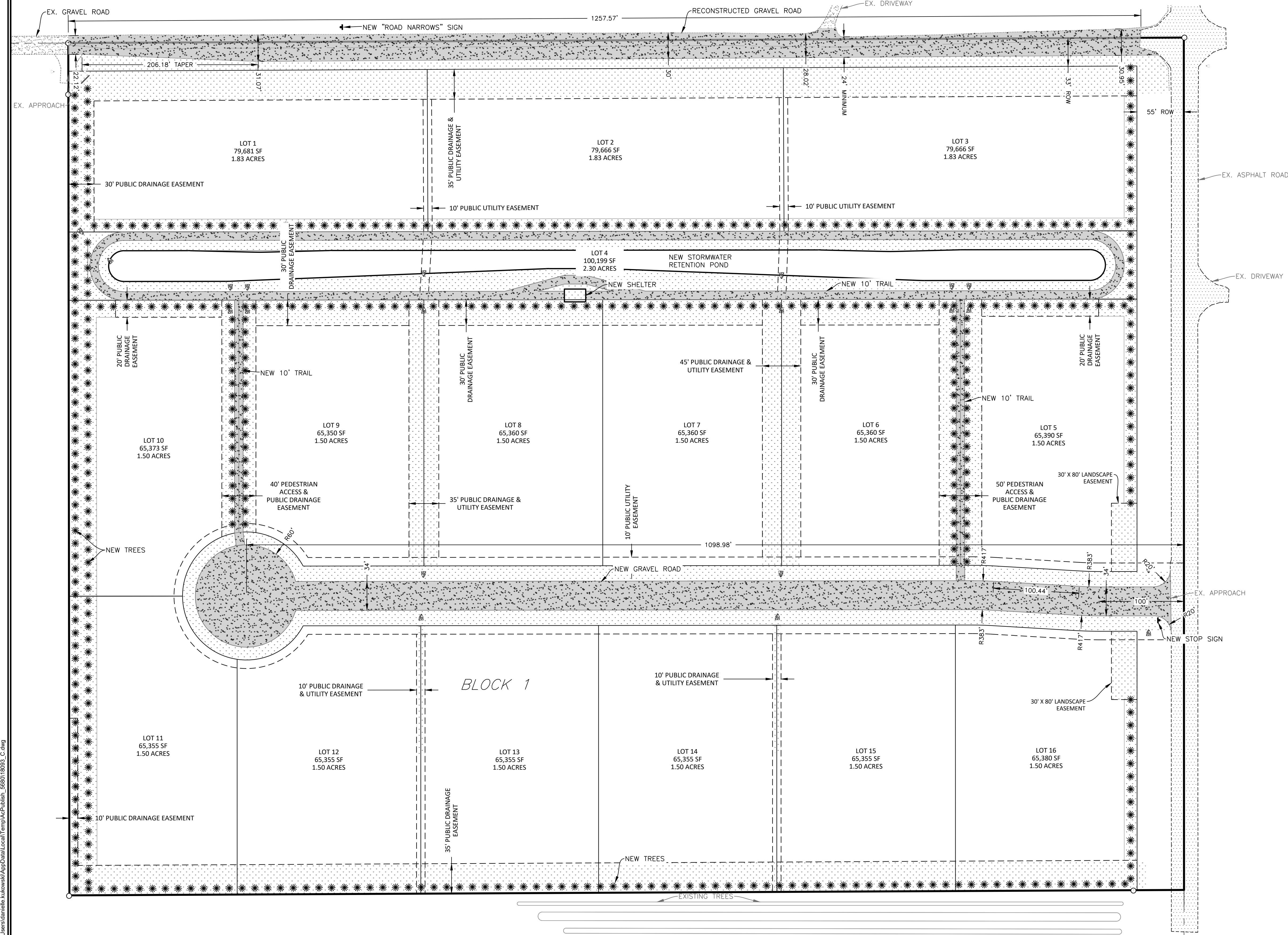
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Danielle Kukowski
DANIELLE KUKOWSKI
DATE: 04/30/2019
LICENSE #: 56061

LE JOB #	18093
PROJECT DATE:	04/30/2019
CHECKED BY:	JML
DRAWN BY:	DJK
APPROVED BY:	DJK
SHEET:	1 OF 8

OVERALL
SITE
PLAN

C-1

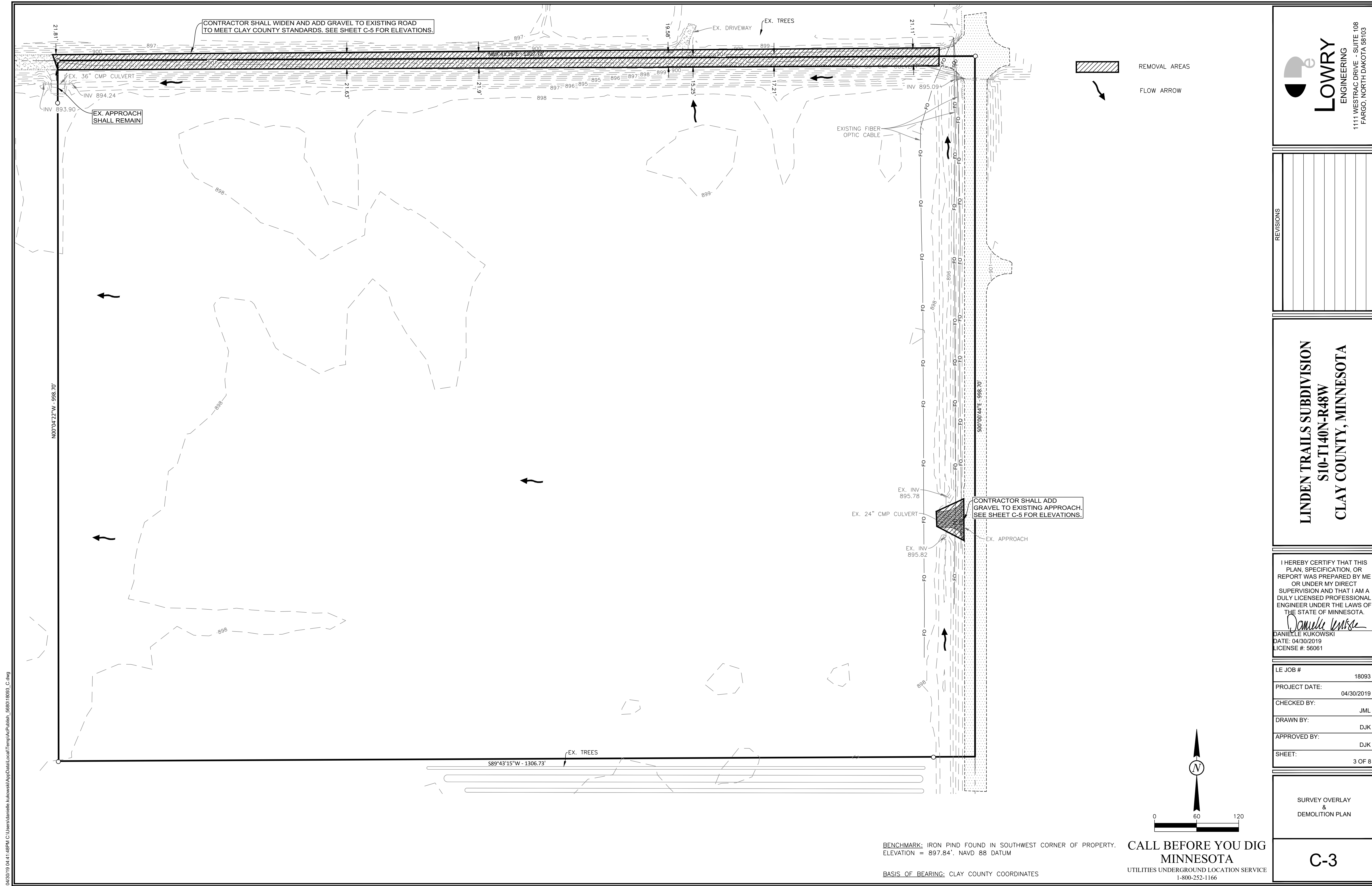


BENCHMARK: IRON PIND FOUND IN SOUTHWEST CORNER OF PROPERTY.
ELEVATION = 897.84'. NAVD 88 DATUM

BASIS OF BEARING: CLAY COUNTY COORDINATES

CALL BEFORE YOU DIG
MINNESOTA
UTILITIES UNDERGROUND LOCATION SERVICE
1-800-252-1166

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CONTRACTOR SHALL WIDEN AND ADD GRAVEL TO EXISTING ROAD TO MEET CLAY COUNTY STANDARDS. SEE SHEET C-5 FOR ELEVATIONS.

EX. APPROACH SHALL REMAIN

EXISTING FIBER OPTIC CABLE

CONTRACTOR SHALL ADD GRAVEL TO EXISTING APPROACH. SEE SHEET C-5 FOR ELEVATIONS.

REMOVAL AREAS
FLOW ARROW

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REVISIONS

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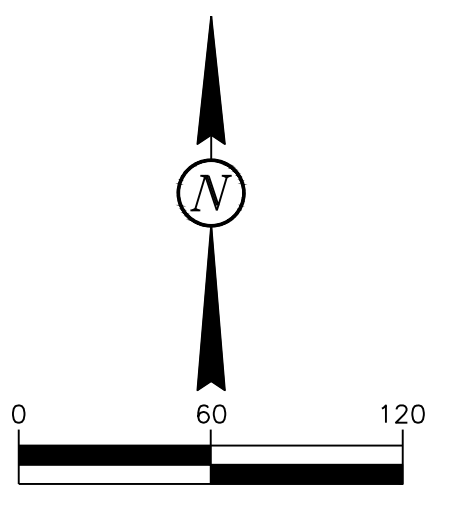
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SURVEY OVERLAY & DEMOLITION PLAN

C-3

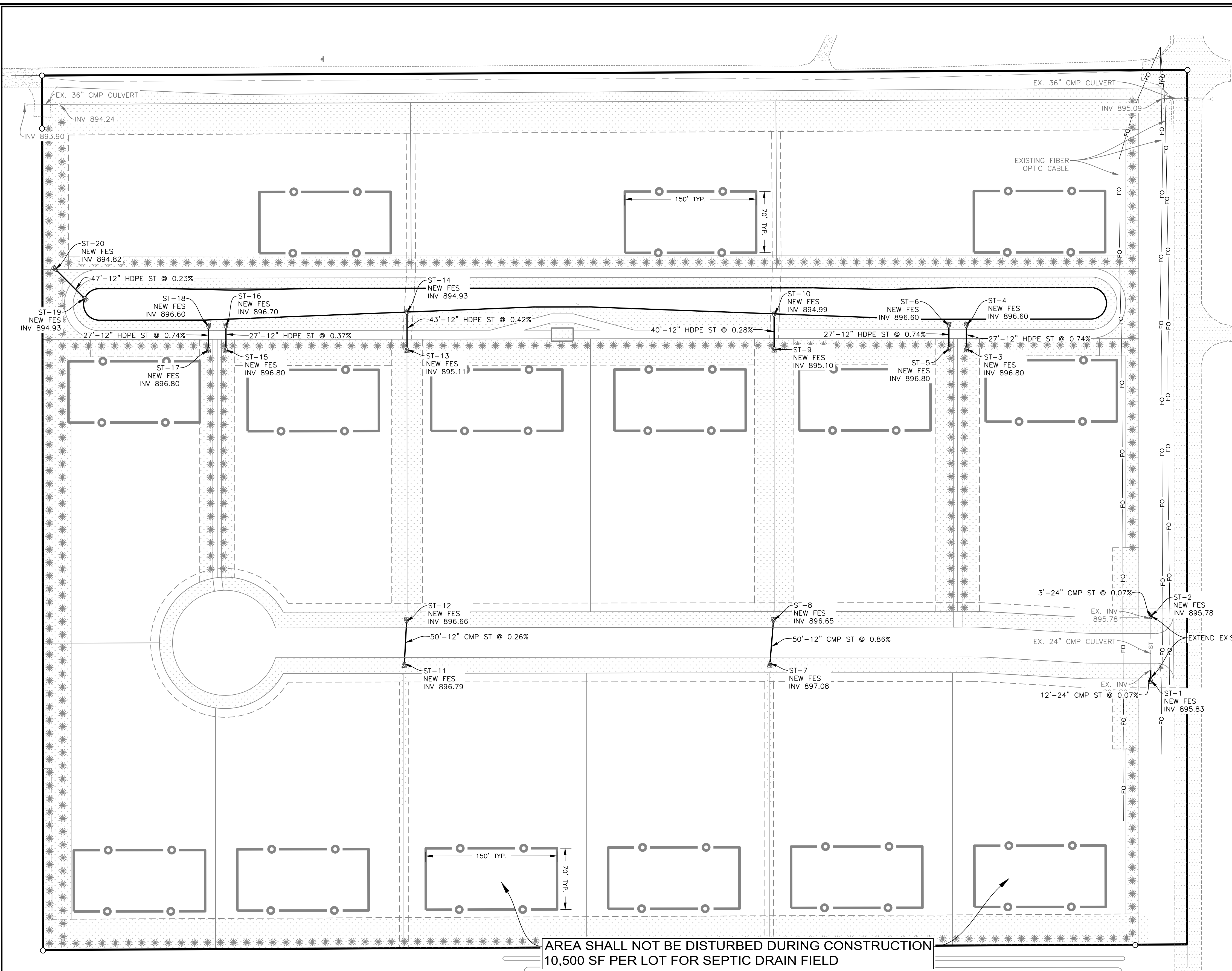


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ESTIMATED STORM QUANTITIES		
ITEM	QUANTITY	UNIT
12" HDPE STORM PIPE	238	LF
12" CMP STORM PIPE	100	LF
24" CMP STORM PIPE	15	LF
12" FLARED END SECTION	18	EA
24" FLARED END SECTION	2	EA
RIP-RAP	12	CY

NOTES:
 1. MnDOT CLASS III RIP-RAP SHALL BE INSTALLED AT EACH NEW FLARED END SECTION PER DETAIL.

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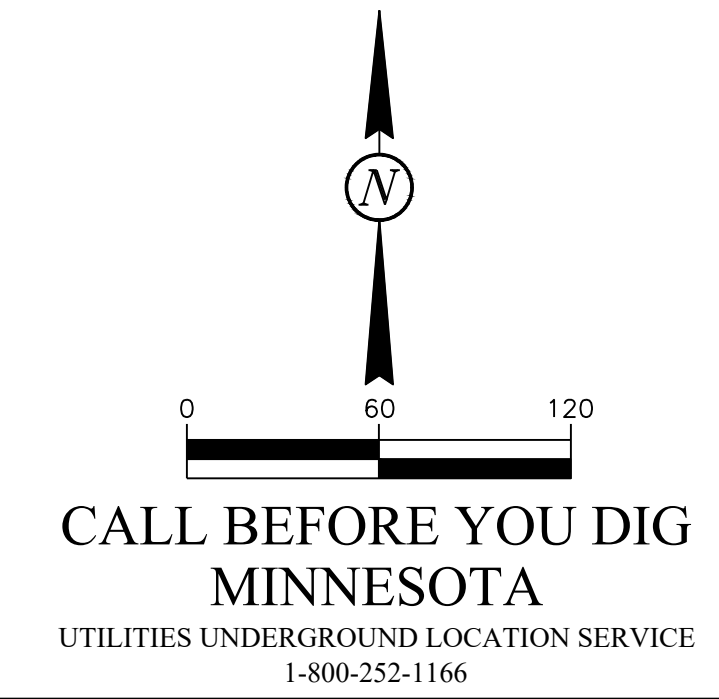
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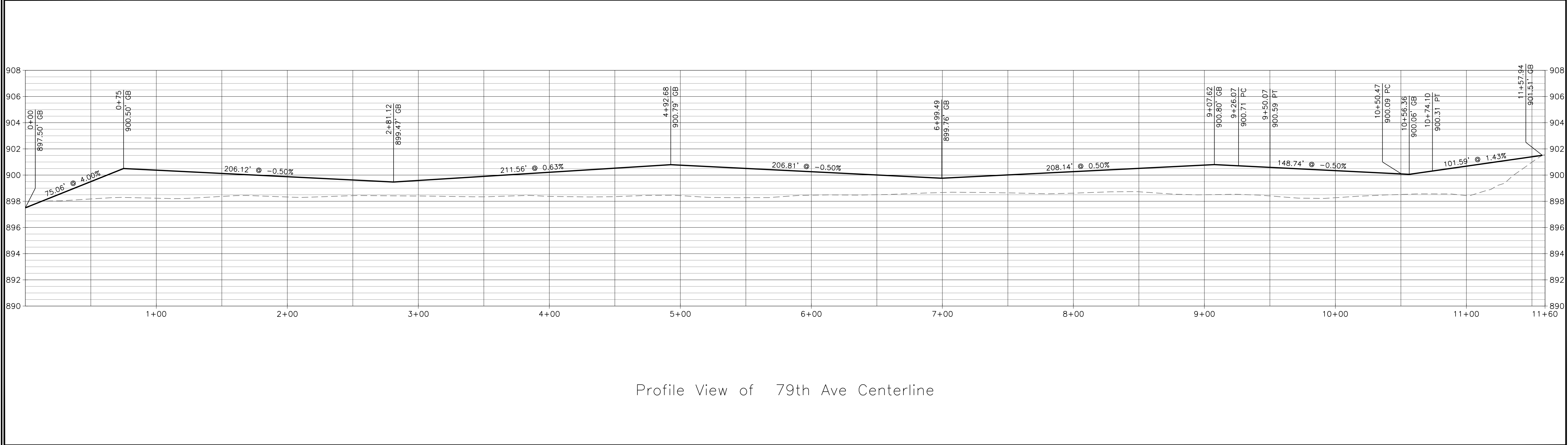
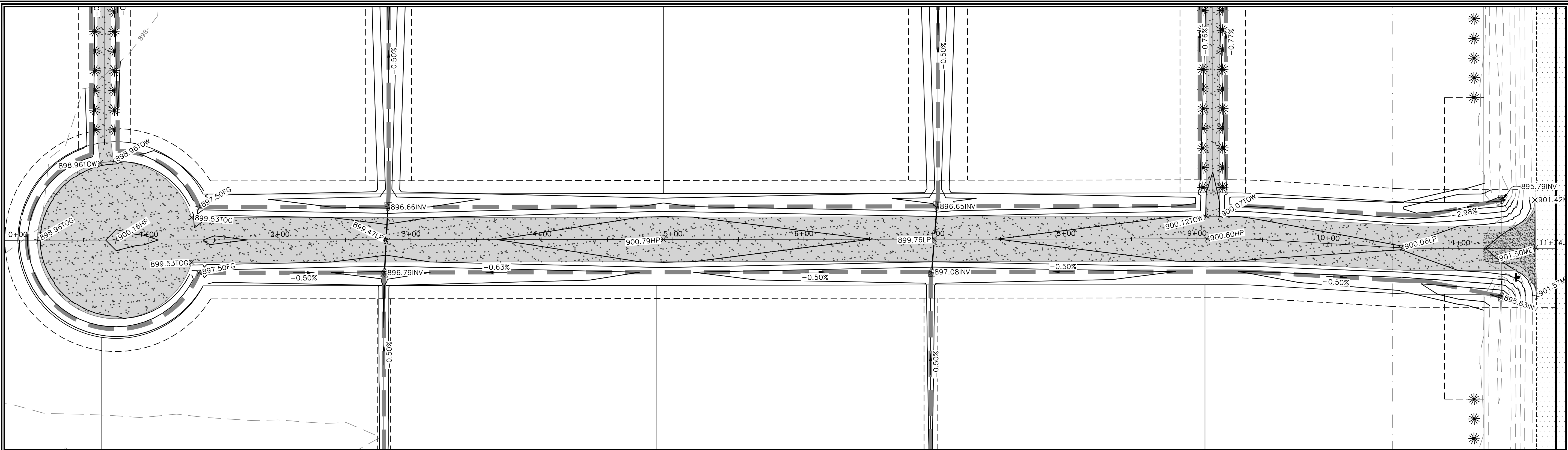
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SHEET:	4 OF 8

UTILITY PLAN

C-4



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Profile View of 79th Ave Centerline

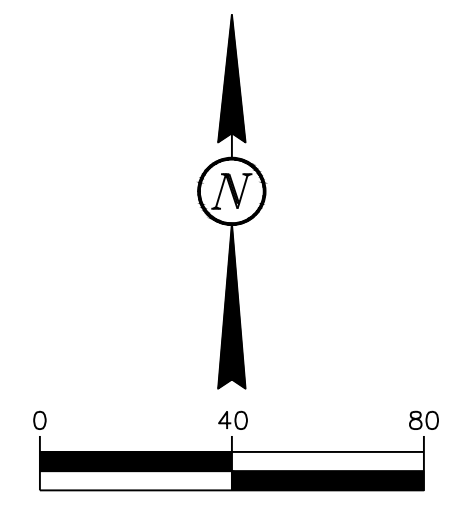
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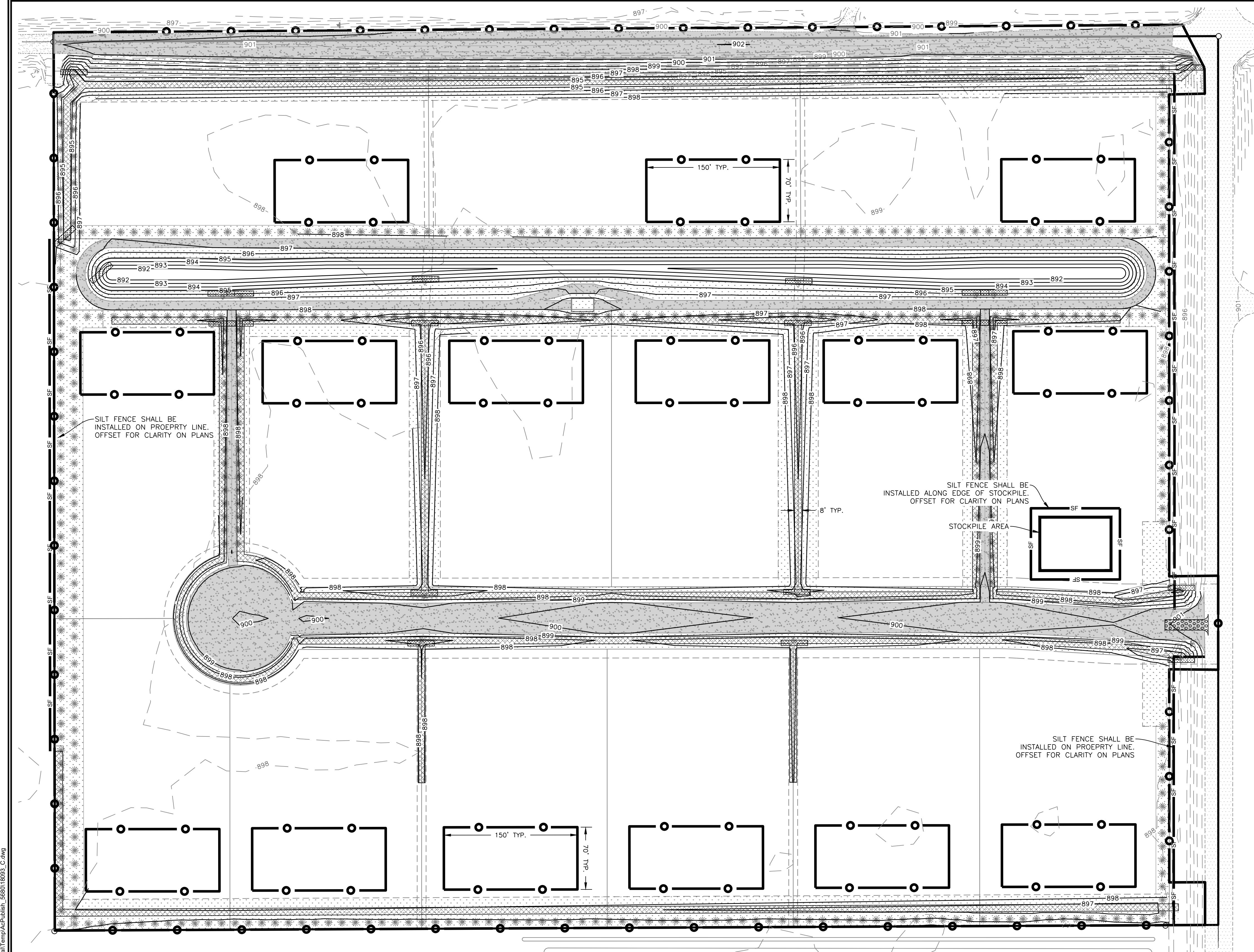


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PLAN & PROFILE

C-6

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EROSION CONTROL LEGEND			
	LIMITS OF CONSTRUCTION		
	SILT FENCE	1,879	LF
	FIBER ROLL PROTECTION (STRAW WATTLE)	216	LF
	SEEDING & HYDROMULCH	35,536	SY
	EROSION CONTROL BLANKET	7,448	SY
	VEHICLE TRACKING PAD	1	EA

- NOTES:
- CONTRACTOR SHALL FOLLOW MPCA STORMWATER POLLUTION PREVENTION STANDARDS FOR ALL EROSION CONTROL DURING CONSTRUCTION.
 - CONTRACTOR SHALL SEED & MULCH ALL DISTURBED AREAS WITHIN 14 DAYS.
 - CONTRACTOR SHALL INSTALL STRAW WATTLE AROUND FLARED END SECTIONS UNTIL RIP-RAP IS INSTALLED AND SITE IS STABILIZED.

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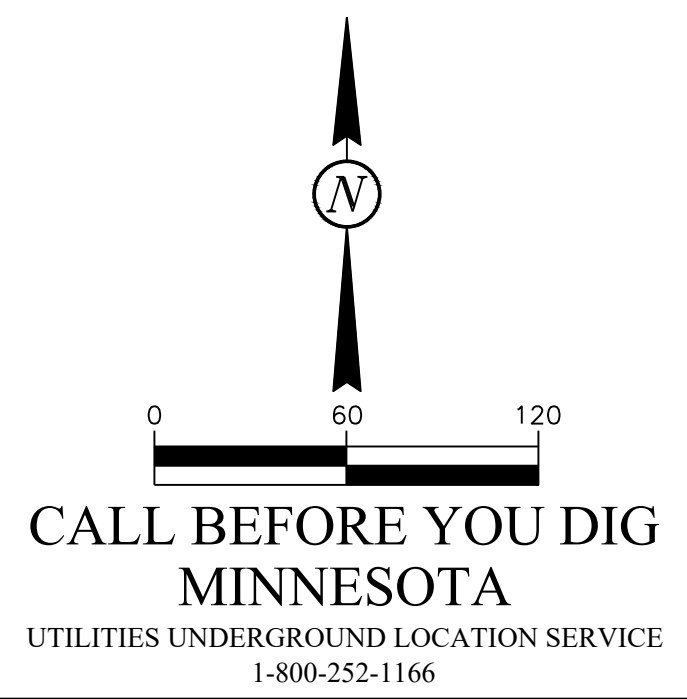
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EROSION & SEDIMENT CONTROL PLAN

C-7



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NO.	REVISIONS

**LINDEN TRAILS SUBDIVISION
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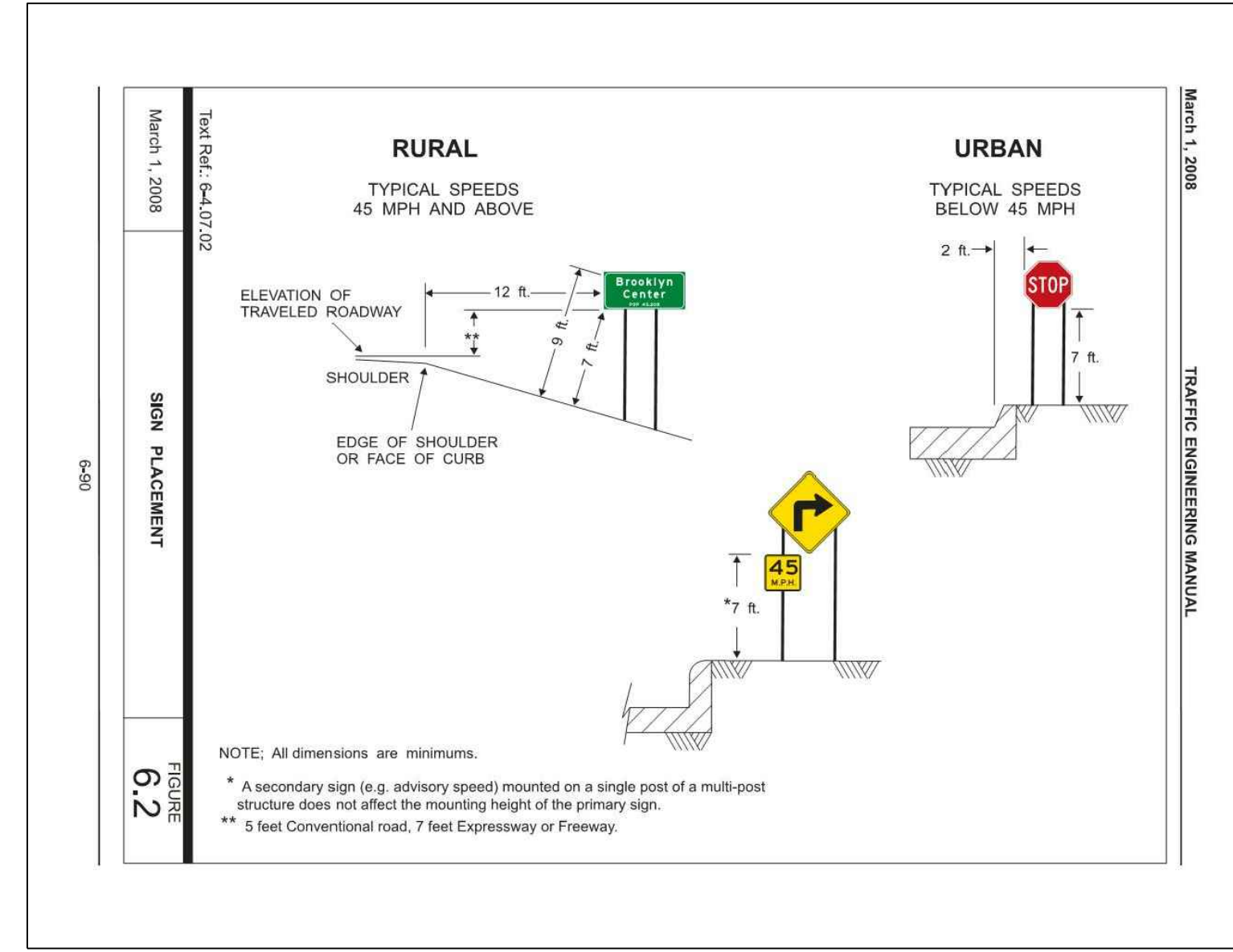
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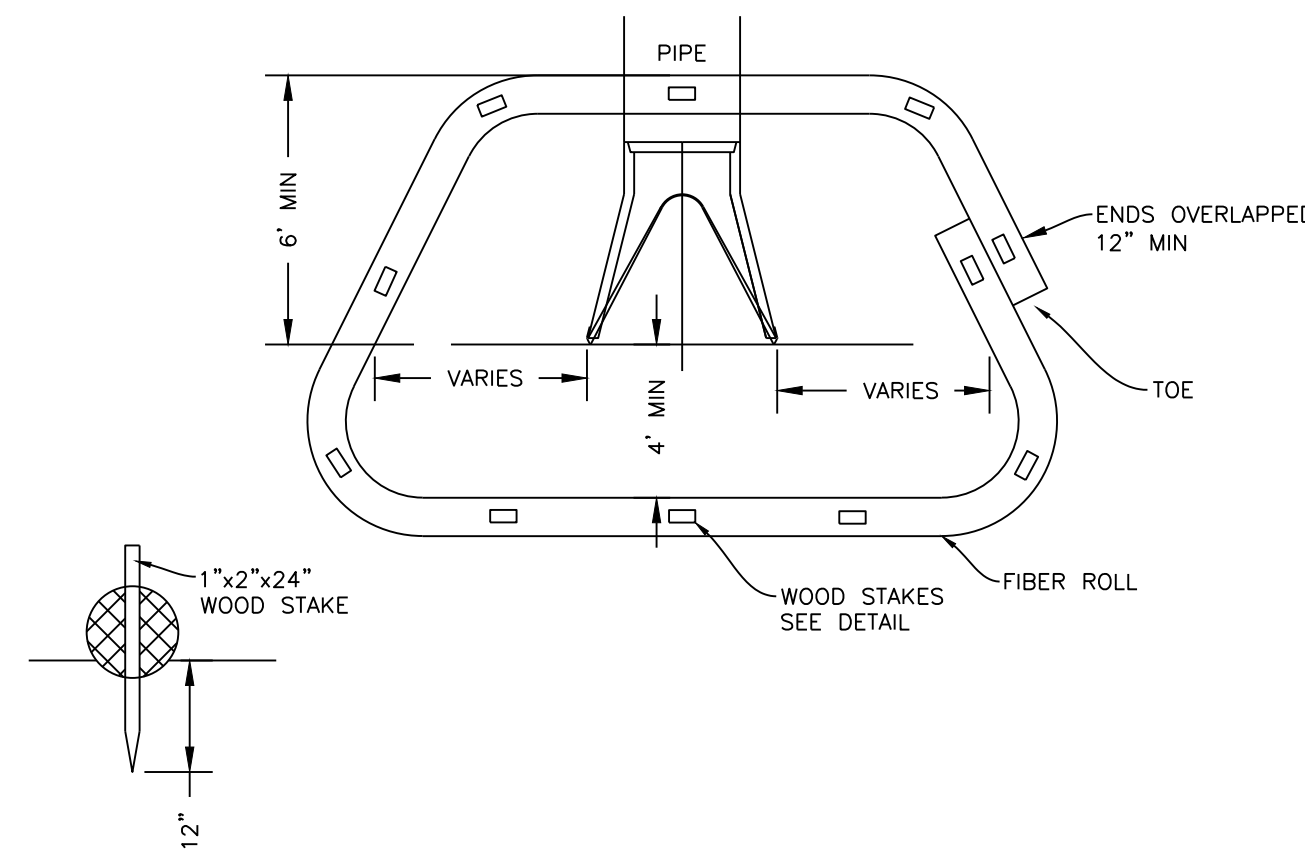
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DETAILS

C-8

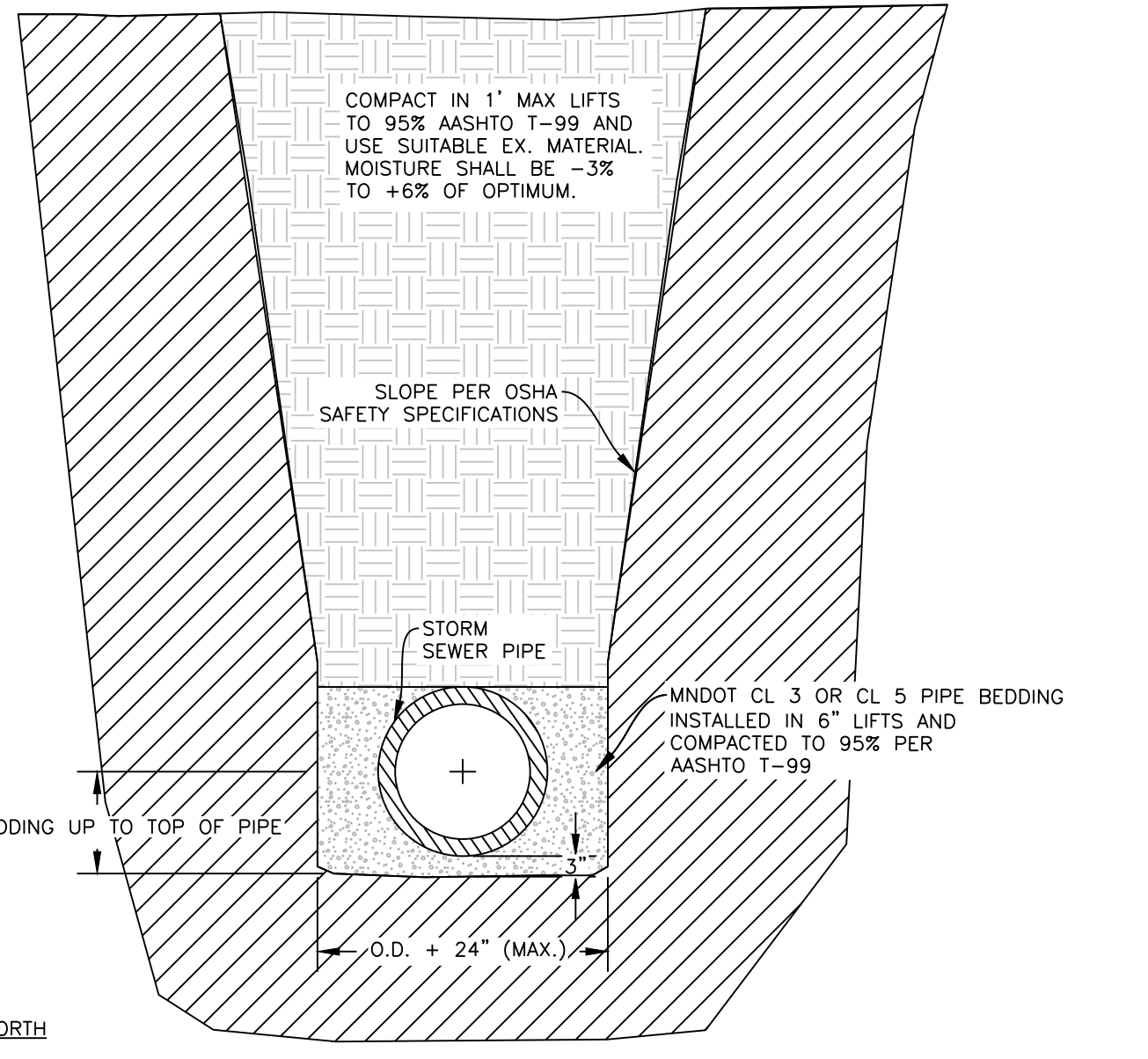


4 STOP SIGN PLACEMENT
N.T.S.



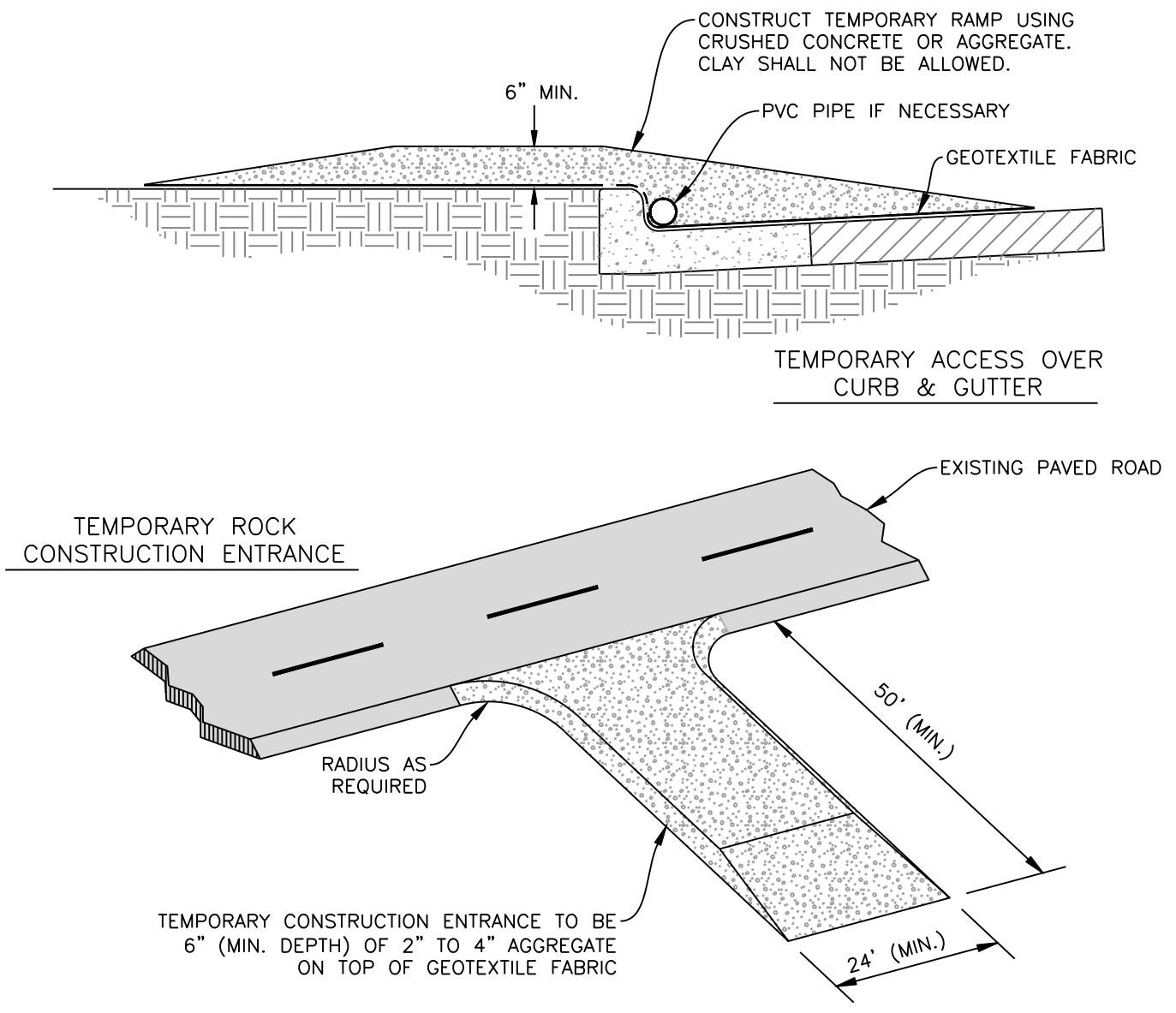
- NOTES:**
- FIBER ROLLS SHALL BE COMPOSED OF DEGRADABLE NETTING THAT CONTAINS COMPRESSED HAY OR STRAW THAT IS FREE OF SEEDS AND NOXIOUS WEEDS, OR WOOD EXCELSIOR.
 - REMOVE SEDIMENT FROM FIBER ROLL WHEN IT REACHES 1/3 OF THE EXPOSED HEIGHT OF ANY SECTION, OR AS DIRECTED BY THE ENGINEER. THE ENGINEER MAY DIRECT THE INSTALLATION OF A SECOND FIBER ROLL IF REMOVING THE SEDIMENT DEPOSIT IS NOT FEASIBLE.
 - FIBER ROLL SHALL BE INSPECTED EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF ANY STORM EVENT GREATER THAN 1/4" OF RAIN PER 24 HOUR PERIOD.

3 FIBER ROLL PROTECTION FLARED END SECTION
N.T.S.



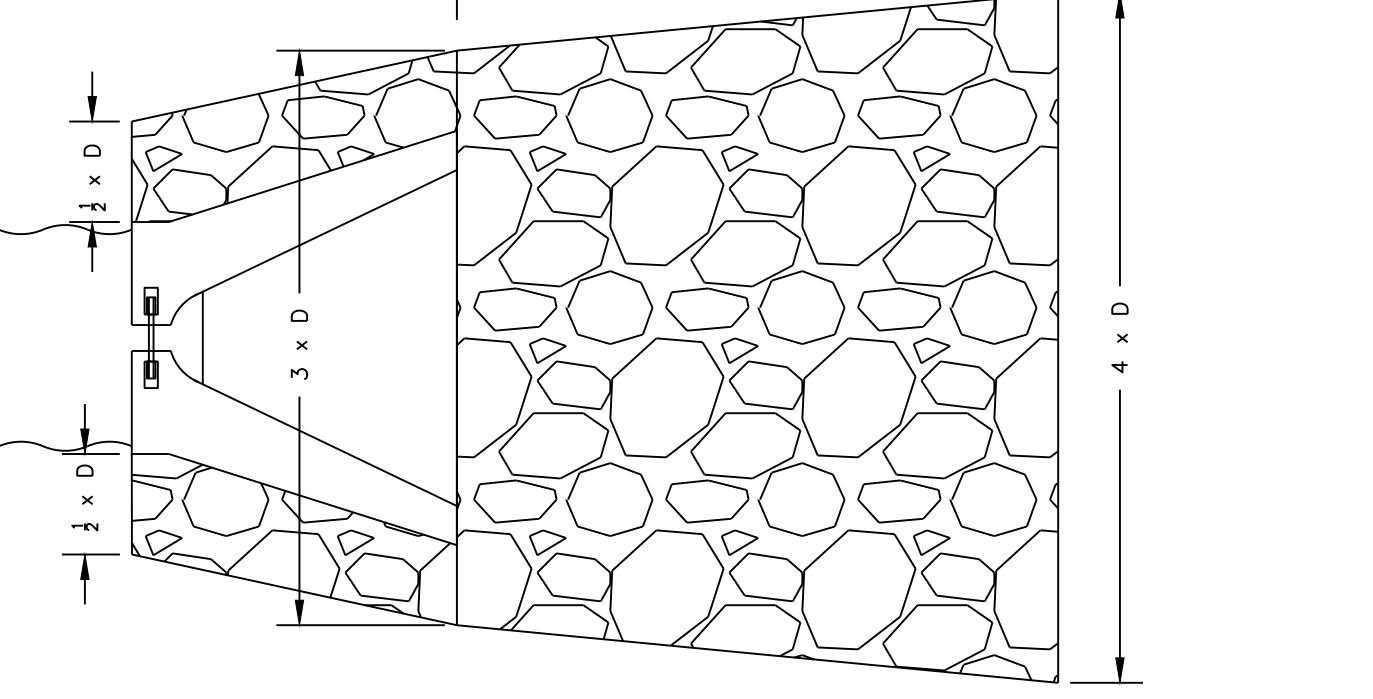
- NOTES:**
- MAXIMUM TRENCH WIDTH FOR 60", 66" & 72" NOT TO EXCEED OUTSIDE DIAMETER OF PIPE + 12" FROM BOTTOM OF TRENCH TO A POINT 2' ABOVE PIPE.
 - LAST 3' OF PIPE MEASURE FROM BACK OF FLARED END SECTION TO BE BEDDED IN CLAY AND NOT CLASS 5 OR CLASS 3 TO PREVENT SCOUR.

8 CULVERT TRENCH
N.T.S.



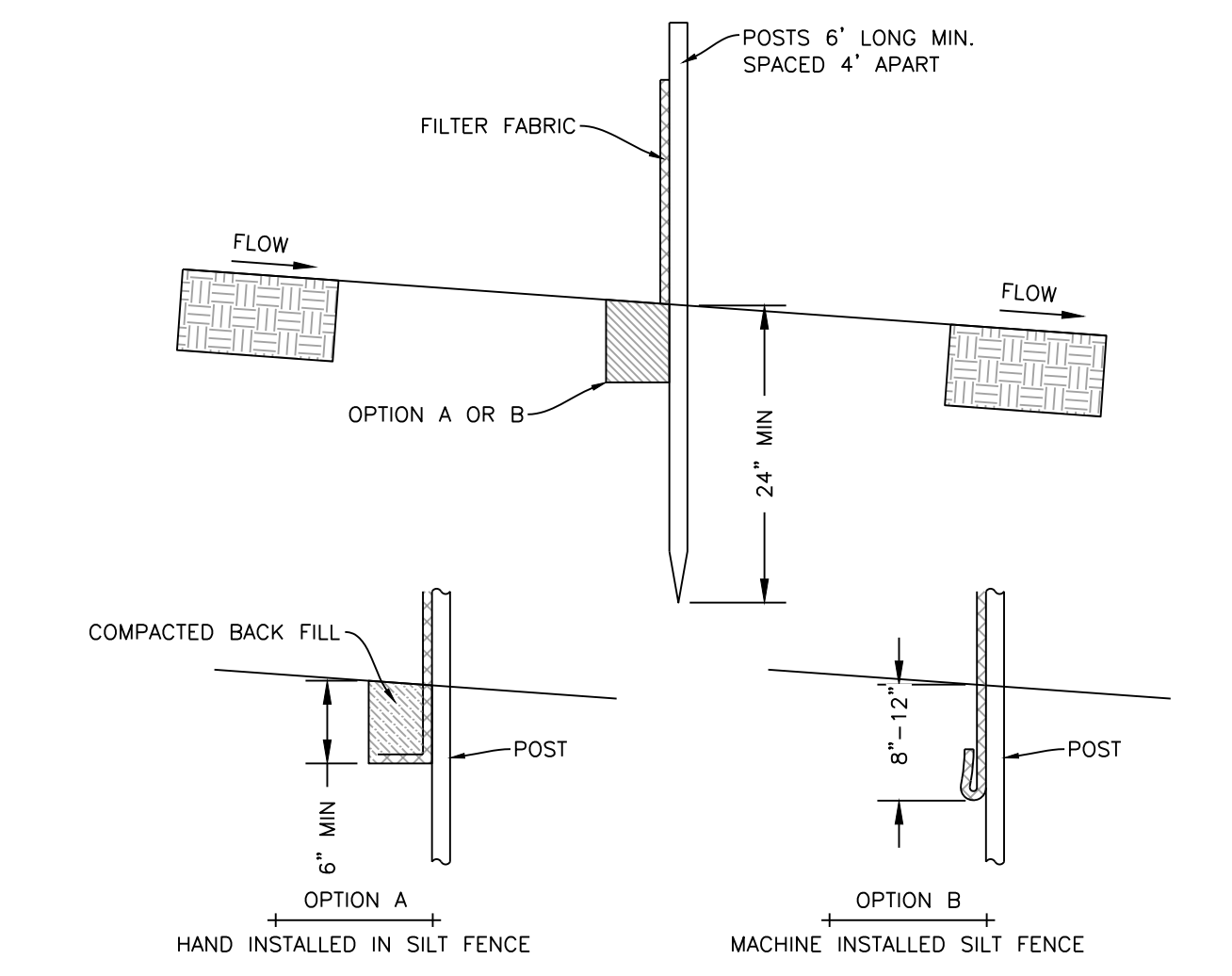
- NOTES:**
- A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES OR EQUIPMENT ENTER OR EXIT THE CONSTRUCTION SITES.
 - UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE THE TEMPORARY CONSTRUCTION ENTRANCE UNLESS NOTED OTHERWISE, AND THE SITE SHALL BE RESTORED TO ITS PREVIOUS CONDITION.
 - ENTRANCES SHALL BE MAINTAINED IN A MANNER TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PAVED SURFACES.
 - TEMPORARY ACCESS OVER EXISTING CURB AND GUTTER SHOULD BE LOCATED AT HIGH POINTS IN THE STREET IF POSSIBLE TO MAINTAIN STREET DRAINAGE.
 - REMOVE TOPSOIL BEFORE CONSTRUCTION OF STABILIZED CONSTRUCTION ACCESS.

2 VEHICLE TRACKING PAD
N.T.S.



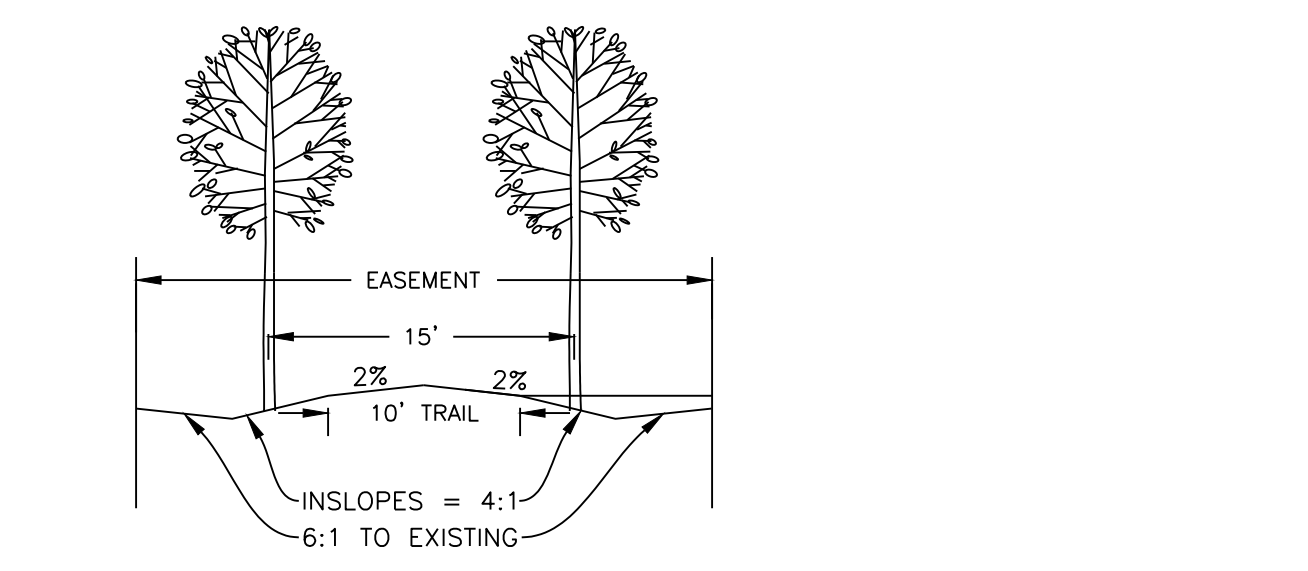
- NOTES:**
- RIPRAP SHALL MEET MnDOT SPECIFICATIONS AND/OR APPROVED BY THE ENGINEER.
 - MnDOT TYPE 4 FABRIC SHALL BE INSTALLED UNDER RIP RAP.
 - RIPRAP DEPTH SHALL BE 18".
 - RIPRAP GRADATION PER PLANS

6 FES RIPRAP
N.T.S.

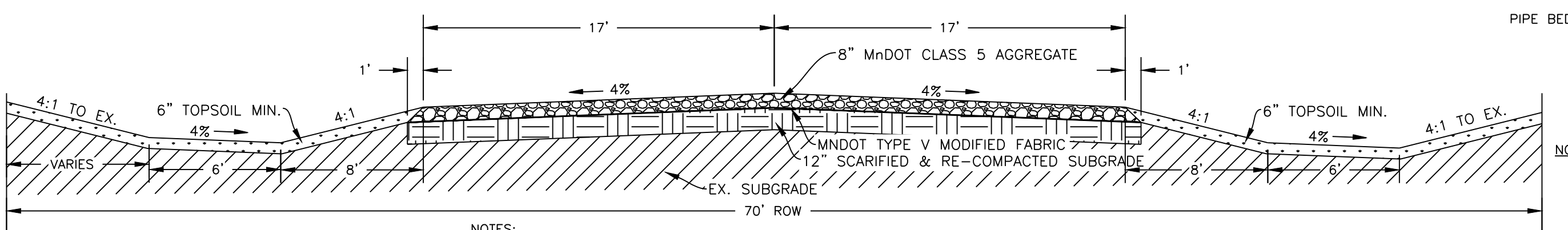


- NOTES:**
- POSTS SHALL BE 2 INCH DIAMETER ROUND WOOD, 1.5 INCH RECTANGULAR WOOD, OR STEEL WITH A MINIMUM OF 0.95 POUNDS PER FOOT AND HAVE PROJECTIONS FOR FASTENING WIRE OR FABRIC.
 - FILTER FABRIC SHALL BE AS SPECIFIED IN AASHTO M 288 WITH A MINIMUM WIDTH OF 36 INCHES.
 - SILT FENCE SHALL BE INSTALLED ALONG THE CONTOURS OF THE SITE SO WATER CANNOT FLOW AROUND THE END OF THE FENCE.
 - IF JOINING TWO SECTIONS OF FILTER FABRIC, OVERLAP AT SUPPORT POSTS A MINIMUM OF 18 INCHES IN SUCH A MANNER THAT PREVENTS SILT FROM PASSING THROUGH THE FENCE.
 - REMOVE SEDIMENT FROM SILT FENCE WHEN IT REACHES 1/3 OF THE EXPOSED HEIGHT OF ANY SECTION, OR AS DIRECTED BY THE ENGINEER. THE ENGINEER MAY DIRECT THE INSTALLATION OF ADDITIONAL SILT FENCE IF REMOVING THE SEDIMENT DEPOSIT IS NOT FEASIBLE.
 - SILT FENCE SHALL BE INSPECTED EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF ANY STORM EVENT GREATER THAN 1/4" OF RAIN PER 24 HOUR PERIOD.

1 SILT FENCE INSTALLATION
N.T.S.

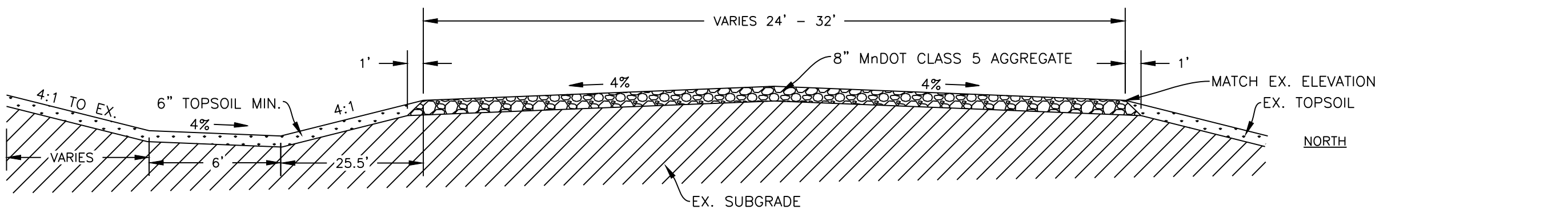


5 PEDESTRIAN ACCESS EASEMENT CROSS SECTION
N.T.S.



- NOTES:**
- CONTRACTOR SHALL SCARIFY AND RE-COMPACT 12" OF SUBGRADE MATERIAL BELOW AGGREGATE

7 PROPOSED TYPICAL SECTION 79TH AVENUE NORTH
N.T.S.



9 PROPOSED TYPICAL SECTION 80TH AVENUE NORTH
N.T.S.

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