

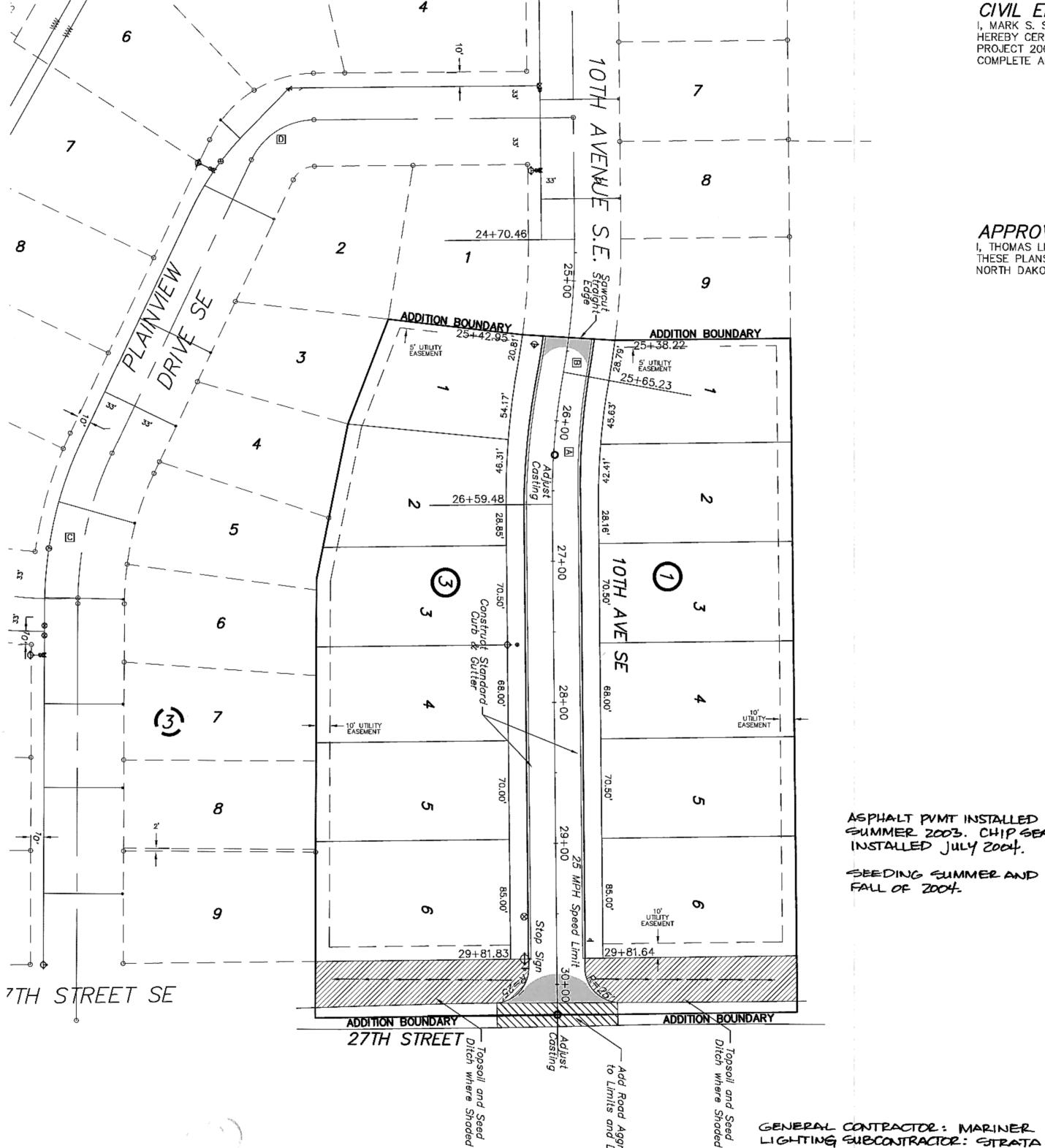
DRAWN BY: CHECK BY: MSS DATE: <u>5-9-03</u>

FILE DESC: -COMPUTER FILE:

SURVEY FILE:

SHEET 1 OF 4

CONSTRUCTION PLANS FOR STREET AND LIGHTING IMPROVEMENTS IN PLAINVIEW HEIGHTS 8TH ADDITION Mandan, North Dakota



CIVIL ENGINEER'S CERTIFICATE

I, MARK S. SWENSON, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NORTH DAKOTA, HEREBY CERTIFY THAT THE CIVIL PLANS FOR STREET PAVEMENT AND LIGHTING IMPROVEMENT PROJECT 2003—12, MANDAN, NORTH DAKOTA WERE PREPARED UNDER MY SUPERVISION AND ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ELECTRICAL ENGINEER'S CERTIFICATE
I, GREGORY R. DOCKTER, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NORTH DAKOTA,

HEREBY CERTIFY THAT THE ELECTRICAL PLANS FOR STREET PAVEMENT AND LIGHTING IMPROVEMENT PROJECT 2003—12, MANDAN, NORTH DAKOTA WERE PREPARED UNDER MY SUPERVISION AND ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED PROFESSIONAL ENGINEER NORTH DAKOTA REGISTRATION NO. 3620

REGISTERED PROFESSIONAL ENGINEE NORTH DAKOTA REGISTRATION NO. 2315

APPROVAL OF CITY ENGINEER

I, THOMAS LITTLE, CITY ENGINEER FOR THE CITY OF MANDAN, NORTH DAKOTA, HEREBY APPROVE THESE PLANS FOR STREET PAVEMENT & LIGHTING IMPROVEMENT PROJECT 2003-12, MANDAN, NORTH DAKOTA AS SHOWN ON THE ACCOMPANYING PLANS.

MANDAN, NORTH DAKOTA

OWNER

City of Mandan 205 2nd Avenue NW Mandan, ND 58554

SHEET INDEX TITLE PAGE SHEET : CIVIL - TENTH AVE SE SHEET 2 ELECTRICAL - 10TH AVE SE SHEET 3 ELECTRICAL DETAILS

ASPHALT PUMT INSTALLED SUMMER 2003. CHIP SEAL INSTALLED JULY 2004.

SEEDING SUMMER AND FALL OF 2004.

= 5 B

: ATLAS

GEEDING

CONCRETE

## WARRANTY / DISCLAIMER

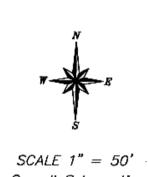
The designs represented in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Co. nor its personnel can or do warranty these plans as constructed except in the specific cases where Swenson, Hagen & Co personnel inspect and control the physical construction on a full time basis.

## SAFETY NOTICE TO CONTRACTOR

In accordance with generally accepted construction practices the Contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal business

## UTILITY NOTICE TO CONTRACTOR

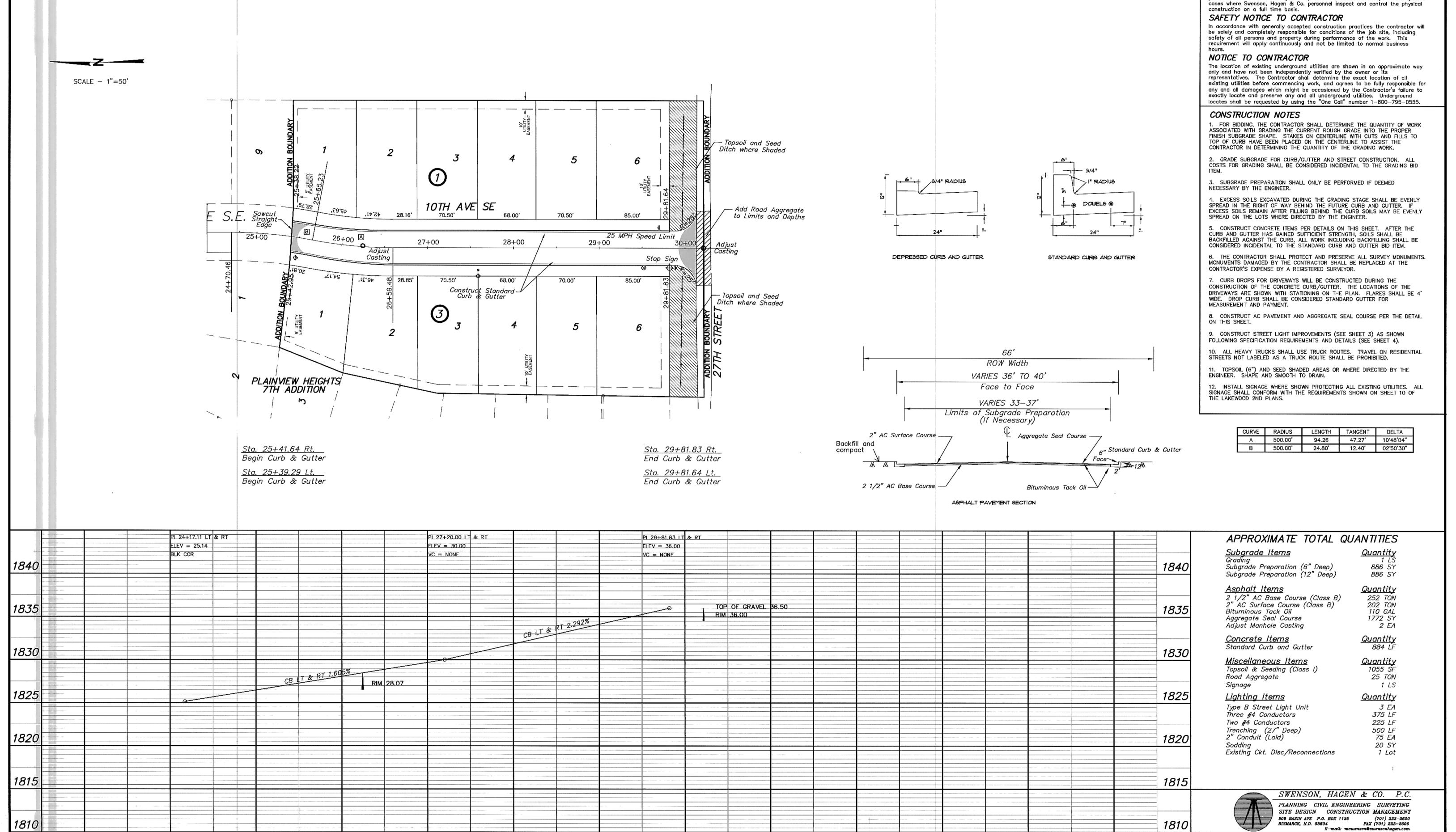
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the Owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. Underground locates can be made by using the "One Call" number 1-800-795-0555.



LOCATION MAP

LOT 1 OF AUD LOT A

Overall Schematic NOT FOR CONSTRUCTION



1810

1805

24+00

25+00

26+00

27+00

28+00

29+00

*30+00* 

31+00

RECORD DRAWING

FROM THE NORTH ADDITION LINE TO THE 1805 SOUTH ADDITION LINE-PLAINVIEW HEIGHTS 8TH

STREET IMPROVEMENT PROJECT 2003-12

SHEET NO. 2 OF 4

MAY 9, 2003

10TH AVE SE

DISTRICT #117 AREA F

1800 MANDAN, ND

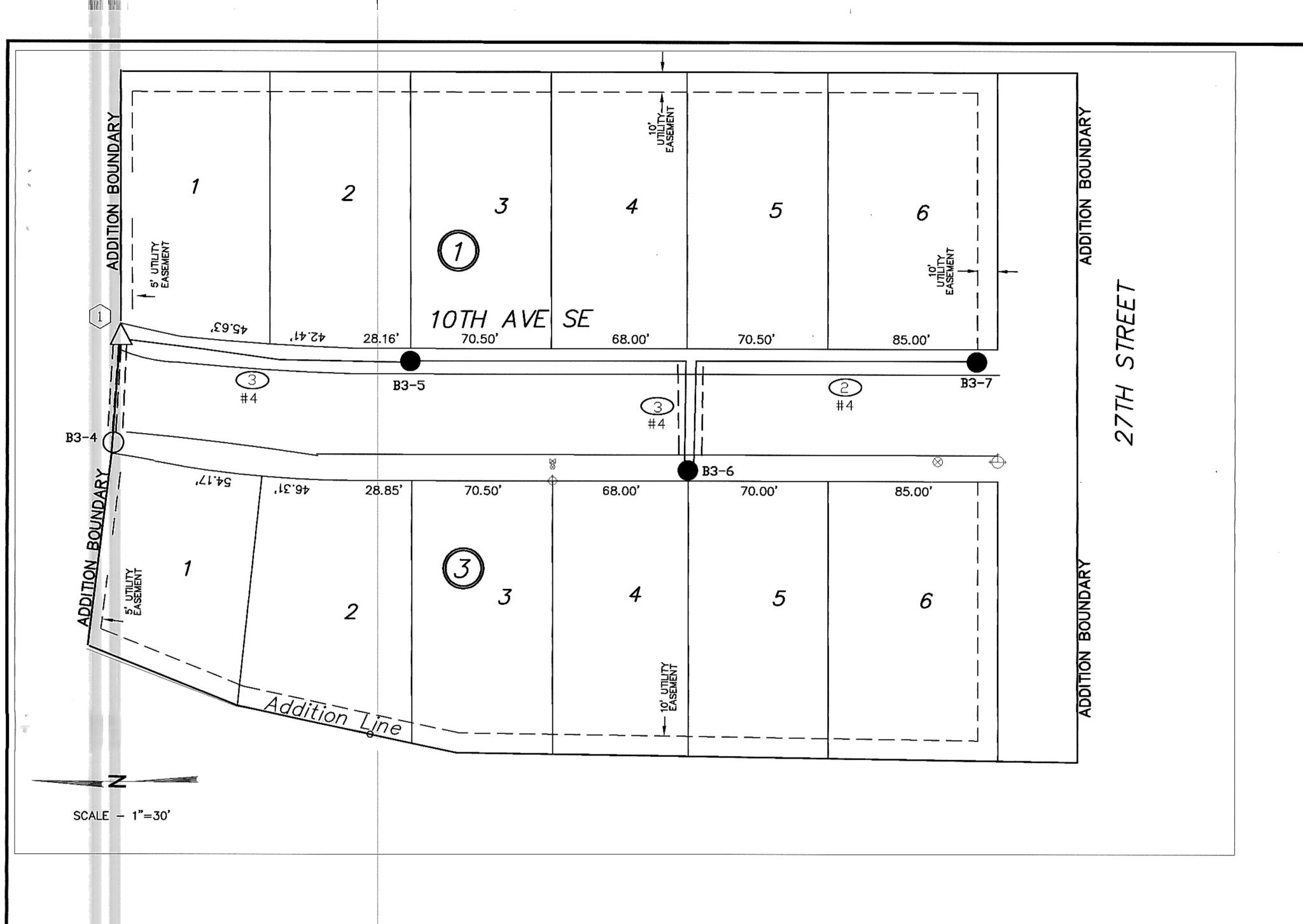
1810

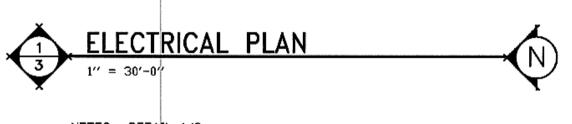
CUSTER!

ENGINEER'S STAMP

WARRANTY/ DISCLAIMER

The designs represented in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Co. nor its personnel can or do warranty these plans as constructed except in the specific





1 CONTINUE CIRCUIT 3 FROM EXISTING JUNCTION BOX TO NEW FIXTURES.

# SYMBOLS & LEGEND NEW STREET LIGHT UNIT. NOMENCLATURE: TYPE A, RELAY #1, FIXTURE #2. ODD NUMBERS PHASE A, EVEN NUMBERS PHASE B. EXISTING JUNCTION BOX JUNCTION BOX - NEW UNDERGROUND CONDUCTOR (DIRECT BURIAL) UNDERGROUND CONDUCTOR (CONDUIT ENCASED) NUMBER OF CONDUCTORS (PLUS GROUND CONDUCTOR) EXAMPLE 3 #4 AWG EXISTING UNDERGROUND CIRCUITRY (CONDUIT ENCASED)

## WARRANTY/ DISCLAIMER

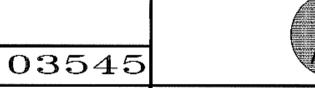
The designs represented in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Co. nor its personnel can or do warranty these plans as constructed except in the specific cases where Swenson, Hagen & Co. personnel inspect and control the physical construction on a full time basis.

## SAFETY NOTICE TO CONTRACTOR

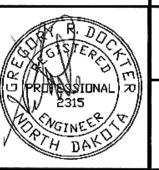
In accordance with generally accepted construction practices the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal business

#### NOTICE TO CONTRACTOR

The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. Underground locates shall be requested by using the "One Call" number 1-800-795-0555.



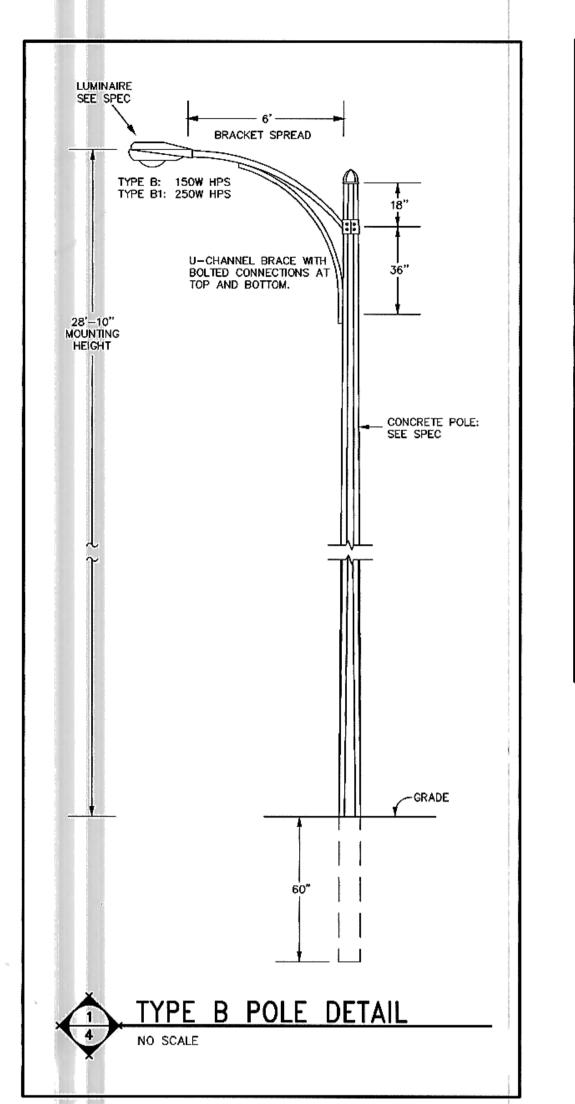
SWENSON, HAGEN & CO. P.C. PLANNING CIVIL ENGINEERING SURVEYING
SITE DESIGN CONSTRUCTION MANAGEMENT
909 BASIN AVE P.O. BOX 1135 (701) 223-2606
BISMARCK, N.D. 58504 FAX (701) 223-2606
E-mail: sheng@btigate.com

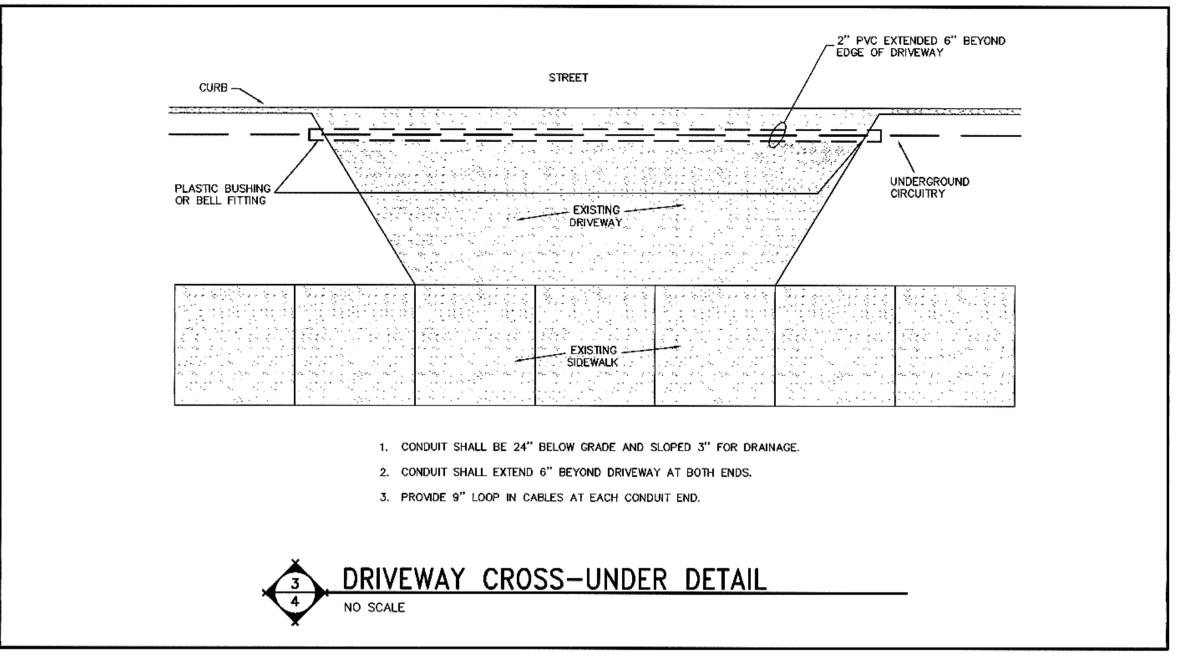


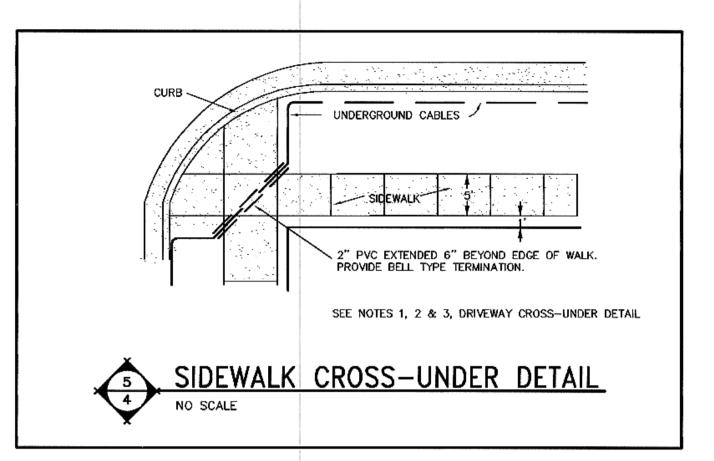
## Plainview Heights 8th Addition STREET LIGHTING PLAN

STREET IMPROVEMENT PROJECT 2003-12 DISTRICT # 117 AREA "F" SHEET 3 OF 4 MANDAN, ND APRIL 30, 2003

PRAIRIE ENGINEERING, P.C. | DESIGN: JJB | DRAFT: JJB







## WARRANTY/ DISCLAIMER

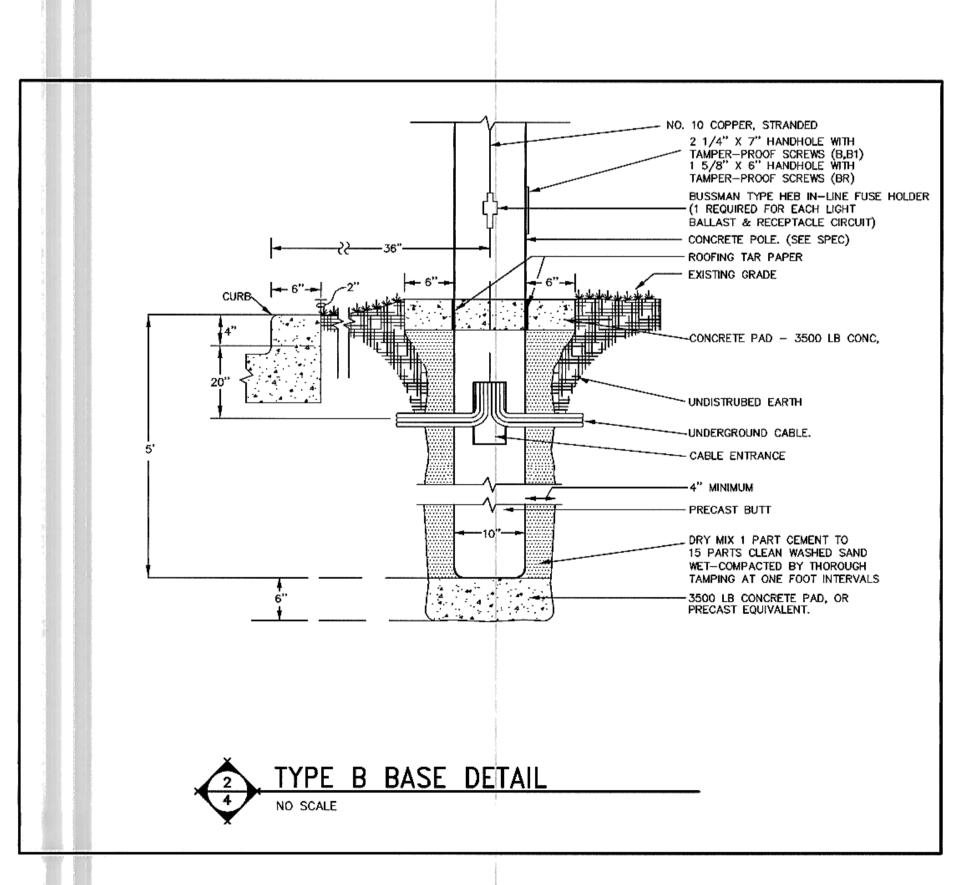
The designs represented in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Co. nor its personnel can or do warranty these plans as constructed except in the specific cases where Swenson, Hagen & Co. personnel inspect and control the physical construction on a full time basis.

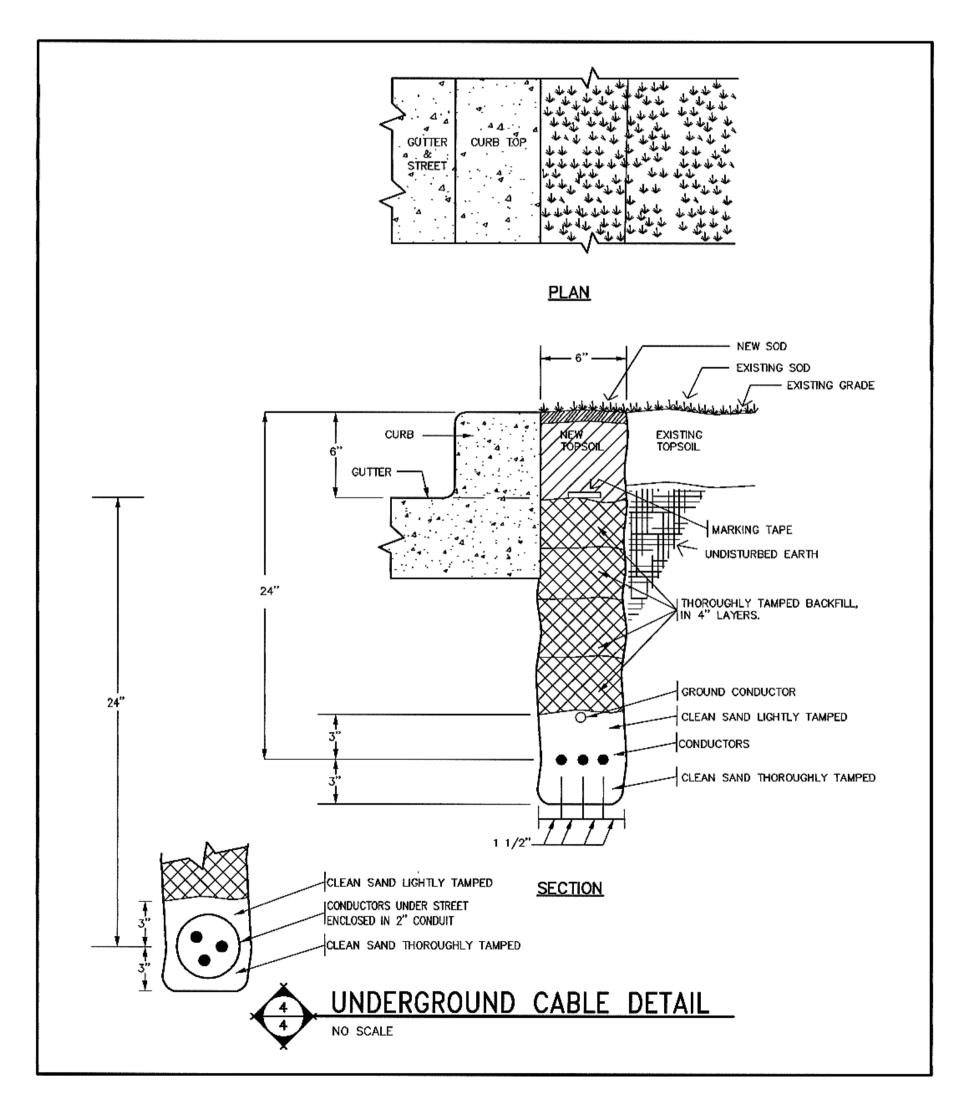
#### SAFETY NOTICE TO CONTRACTOR

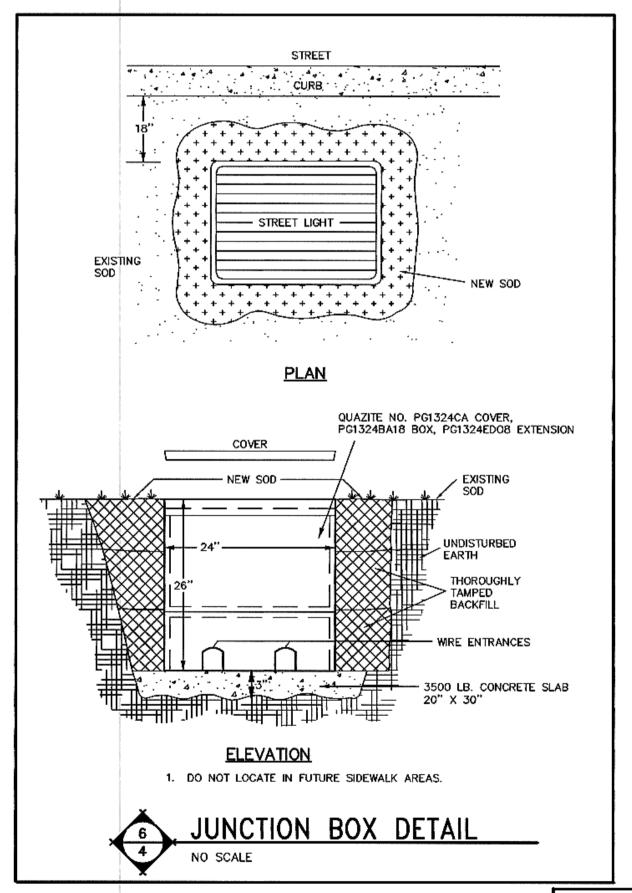
In accordance with generally accepted construction practices the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal business

#### NOTICE TO CONTRACTOR

The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. Underground locates shall be requested by using the "One Call" number 1-800-795-0555.









SWENSON, HAGEN & CO. P.C. PLANNING CIVIL ENGINEERING SURVEYING SITE DESIGN CONSTRUCTION MANAGEMENT 909 BASIN AVE P.O. BOX 1136 BISWARCK, N.D. 58504 135 (701) 223–2600 FAX (701) 223–2606 E-mail: sheng**9**btigate.com

Plainview Heights 8th Addition STREET LIGHTING PLAN

STREET IMPROVEMENT PROJECT 2003-12 DISTRICT # 117 AREA "F" SHEET 4 OF 4 MANDAN, ND APRIL 30, 2003

PRAIRIE ENGINEERING, P. DESIGN: JJB DRAFT: JJB