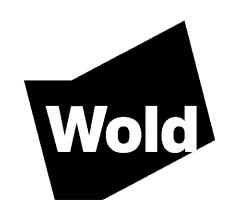


MN

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Independent School
District 271
1350 West 106th Street
Bloomington, MN 55431



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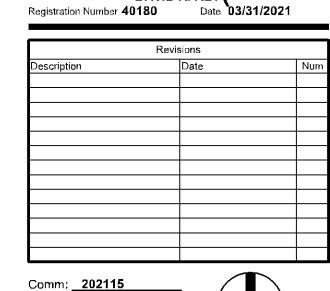
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed

PROFESSIONAL ENGINEER

under the laws of the State of MINNESOTA



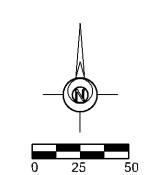
Comm: 202115

Date: 03/31/2021

Drawn: MET

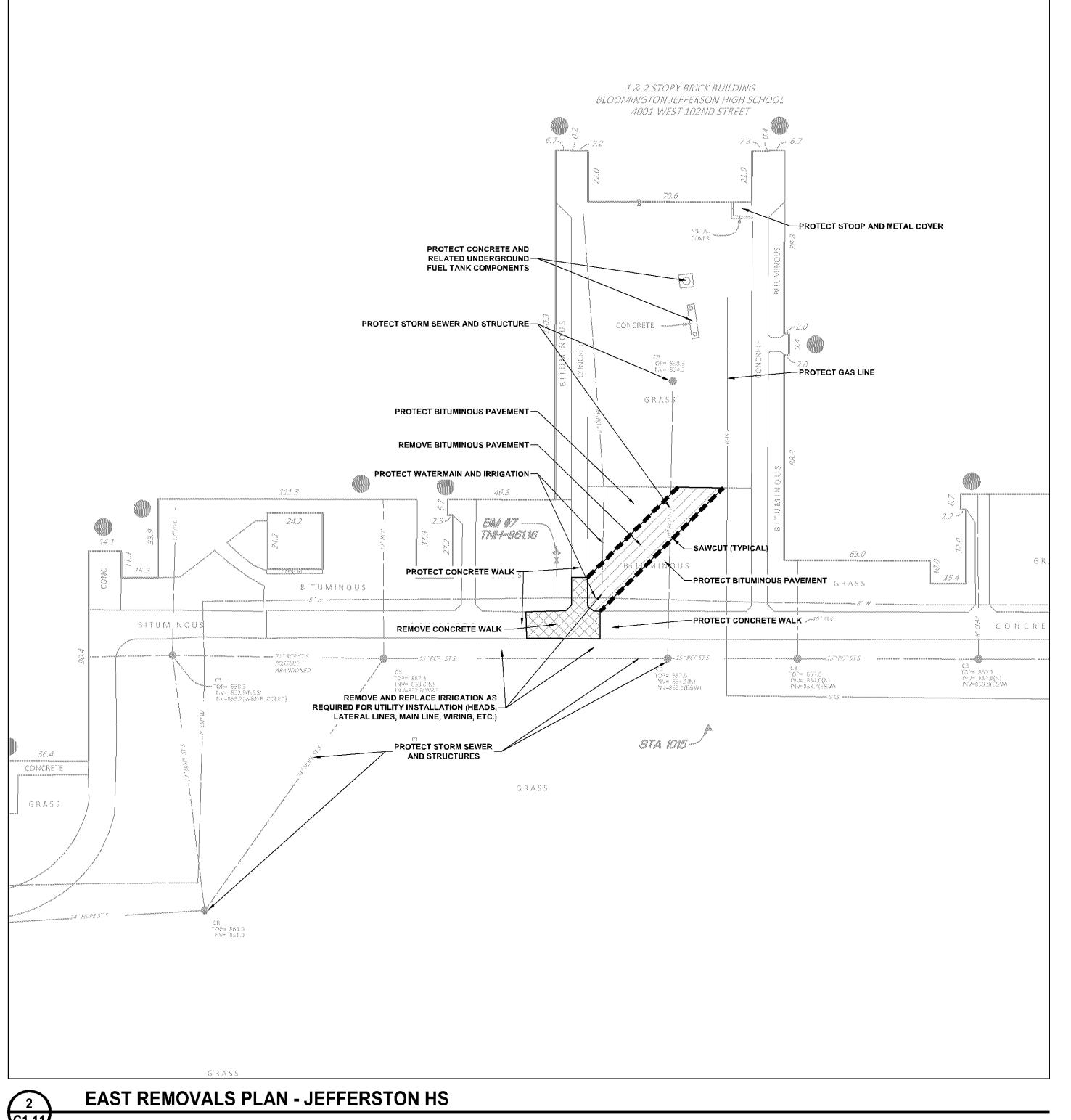
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OVERALLL SITE PLAN



Scale: 1" = 50'

• • POSSIBLE SIVITE HARD GROUND-VO CONTINCT YLDING HEIGHT = 14.9 FT. "" --- REFER TO UTILITY PLAN FOR TREATMENT -PROTECT STORM AND SANITARY SEWERS REFER TO UTILITY PLAN FOR TREATMENT REMOVE WATERMAIN REFER TO ELECTRICAL PLANS FOR TREATMENT REMOVE CONCRETE CURB AND GUTTER UNDERGROUND CABLE -- PROTECT CONCRETE CURB AND GUTTER SAWCUT (TYPICAL) BITUMINOUS PROTECT STORM AND SANITARY SEWERS PAVEMENT PROTECT CONCRETE AND RELATED UNDERGROUND — FUEL TANK COMPONENTS REMOVE BITUMINOUS
PAVEMENT REMOVE CONCRETE CURB AND GUTTER SALVAGE SIGN FOR REINSTALLATION REFER TO UTILITY PLAN FOR TREATMENT PROTECT CONCRETE CURB AND GUTTER -PROTECT CONCRETE WALK ITUMIE PROTECT BITUMINOUS PAVEMENT -- PROTECT CONCRETE CURB AND GUTTER -REMOVE CONCRETE WALK PROTECT STORM SEWER REMOVE CONCRETE CURB AND GUTTER PROTECT CONCRETE WALL -PROTECT FENCING, POSTS, BOLLARDS, ETC. THIS PORTION OF WATERMAIN TO PROTECT CONCRETE CURB AND GUTTER BE ABANDONED IN PLACE. BLOW —PROTECT CONCRETE WALK / FULL OF SAND AND CAP ENDS. PROTECT FIBER OPTIC LINE PROTECT Ø PROTECT LIGHT POLE ┼ BITUMINOUS REFER TO UTILITY PLAN FOR TREATMENT WEST REMOVALS PLAN - OLSON MS



NOTES:

1. REFER TO SHEET C1.31, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.

- 2. MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING VEGETATION AND SITE FEATURES (CURBS, WALKS, PAVEMENTS, OVERHEAD AND UNDERGROUND UTILITIES, SIGNAGE, FENCING, ROADWAYS, ETC.) WHICH ARE TO REMAIN.
- 3. REPAIR OR REPLACE EXISTING PROPERTY AND SITE FEATURES, INCLUDING GRASS AND VEGETATION, WHICH IS TO REMAIN THAT IS DAMAGED BY THE WORK, TO OWNER'S SATISFACTION AND AT NO ADDITIONAL COST TO THE OWNER.
- 4. VISIT THE SITE PRIOR TO BIDDING; BE FAMILIAR WITH ACTUAL CONDITIONS IN THE FIELD. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR CONDITIONS WHICH COULD HAVE BEEN DETERMINED OR ANTICIPATED BY EXAMINATION OF THE SITE, THE CONTRACT DRAWINGS AND THE INFORMATION AVAILABLE PERTAINING TO EXISTING SOILS, UTILITIES AND OTHER SITE CHARACTERISTICS.
- 5. THE CONTRACTOR SHALL HIRE THE SERVICES OF A UTILITY LOCATOR COMPANY TO LOCATE ALL PRIVATELY OWNED UTILITIES THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS.

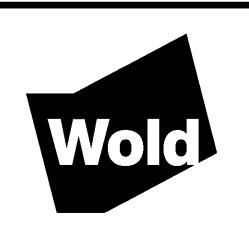
— — — — — SAWCUT

UTILITY REMOVALS

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ANDERSON - JOHNSON ASSOCIATES, INC.

A (1) BOLTON & MENK COMPANY

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Comm: 202115

Date: 03/31/2021

Drawn: MET

Date: 03/31/2021

Drawn: MET

Check: DAR

North

I hereby certify that this plan, specification or report was prepared by

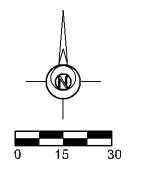
DAVID A. REY

Registration Number **40180** Date **03/31/2021** 

PROFESSIONAL ENGINEER

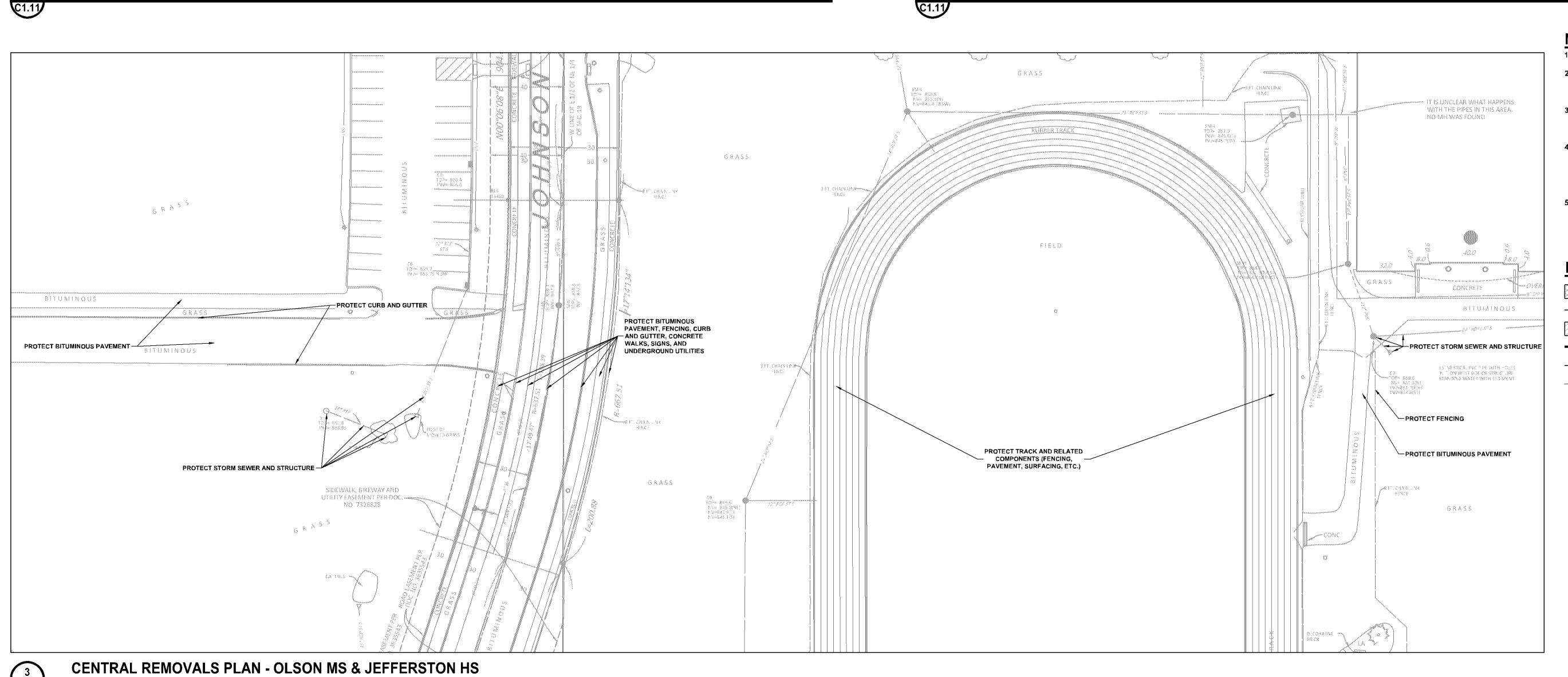
me or under my direct supervision and that I am a duly Licensed

REMOVALS PLAN

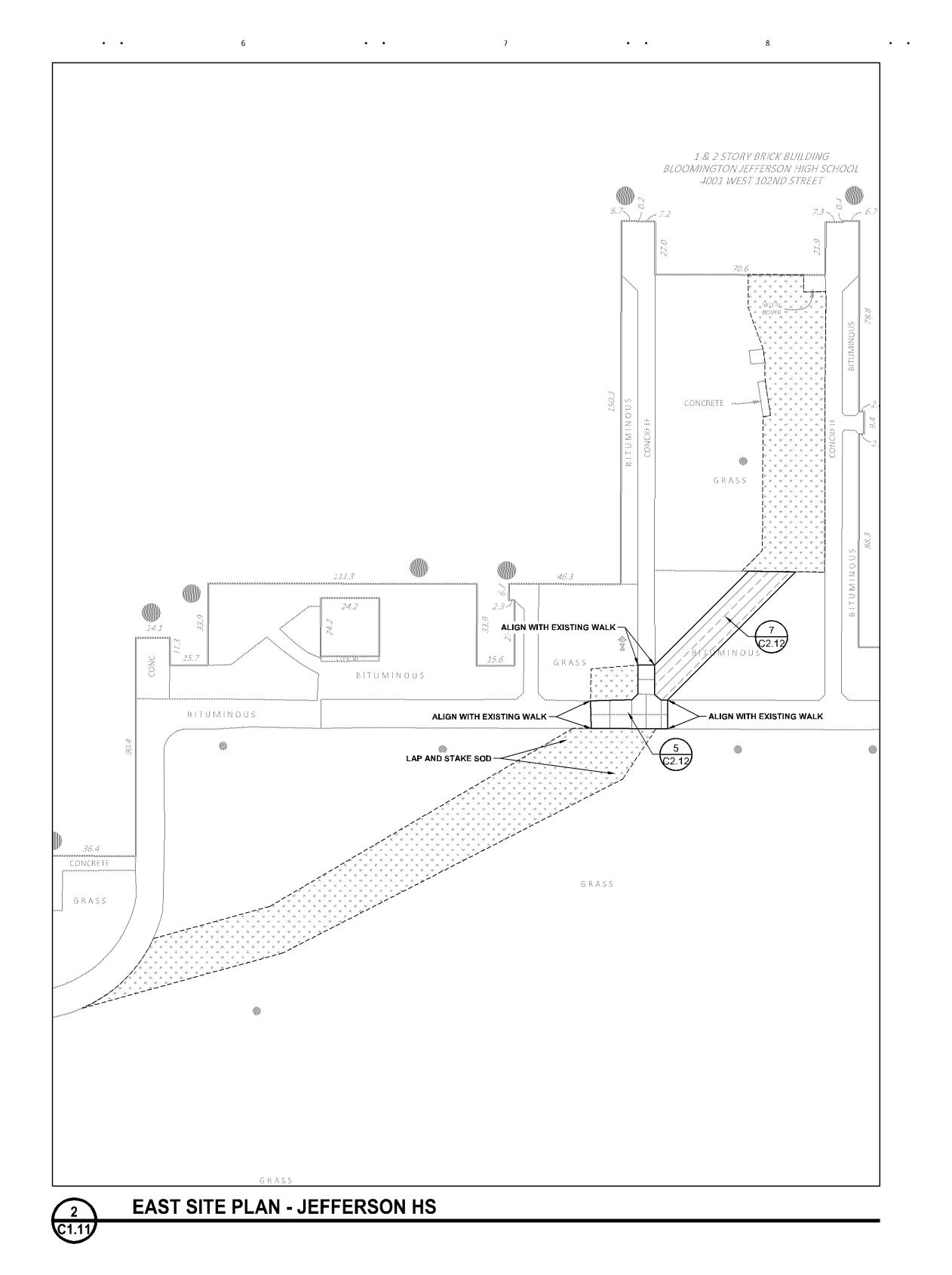


Scale: 1" = 30'

C1.11



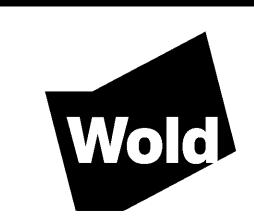
4 • • PROPOSED MECHANICAL PLANT BUILDING
REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND LAYOUT LDING HEIGHT = 14.9 FT. "" LAP AND STAKE SOD -TAP AND STAKE SOD \_\_ALIGN WITH EXISTING CURB -PROPOSED UGS 1A CONFIRM LOCATION WITH GAS COMPANY AND COORDINATE
WITH GAS METER INSTALLATION ALIGN WITH EXISTING CURB REINSTALL SALVAGED SIGN RE-STRIPE AREAS DISTURBED DURING CONSTRUCTION - MATCH EXISTING LAYOUT AND COLOR ALIGN WITH EXISTING WALK -ALIGN WITH EXISTING CURB WEST SITE PLAN - OLSON MS



CENTRAL SITE PLAN - OLSON MS & JEFFERSTON HS

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### NOTES:

1. REFER TO SHEET C1.31, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.

- 2. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
- 3. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
- 4. WHERE NEW SOD MEETS EXISTING TURF, EXISTING TURF EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
- 5. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.

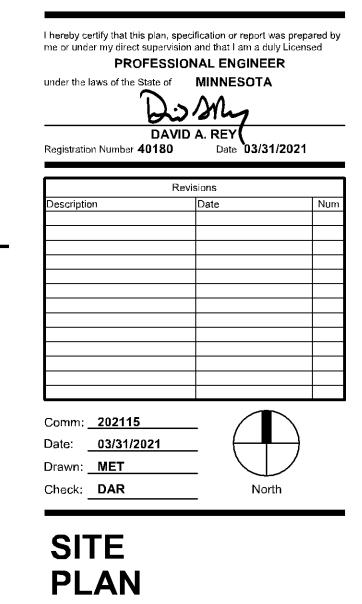
# LEGEND

1 C2.11	REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)
	PROPOSED CONCRETE WALK (5)
	PROPOSED CONCRETE SLAB 6 C2.12
	PROPOSED BITUMINOUS PAVEMENT (7)
	APPROXIMATE SOD LIMITS
•	PROPOSED BOLLARD (8)
0	PROPOSED MANHOLE (MH) 12 14 C2.11 C2.11
8	PROPOSED CATCH BASIN (CB) (2.11)
+	PROPOSED HYDRANT (HYD)

PROPOSED GATE VALVE (GV)

PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS

PROPERTY LINE



Scale: 1" = 30'

C1.21

С



**CENTRAL GRADING AND DRAINAGE PLAN - OLSON MS & JEFFERSTON HS** 

- 1. ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES. 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION
- 3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS, INCLUDING THE NPDES PERMIT FROM THE MPCA. SUBMIT A COPY OF ALL PERMITS TO THE
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.
- 5. INSTALL CONTROL FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC.
- 6. INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF DISTRICT 271
- 7. REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.

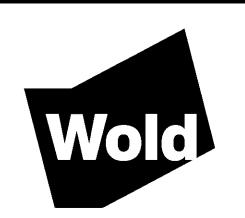
MATERIALS TO BE HANDLED.

- 8. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
- 9. REFER TO ARCHITECTURAL PLANS FOR BUILDING AND STOOP DIMENSIONS AND LAYOUT. 10. REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, PART OF
- SECTION 01 89 13, FOR EROSION CONTROL REQUIREMENTS. SECTION 31 00 00 SHALL BE RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.
- 11. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
- 12. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
- 13. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.
- 14. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.
- 15. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS
- 16. PROPOSED ELEVATIONS SHOWN TYPICALLY AS 60.1 OR 60 SHALL BE UNDERSTOOD TO MEAN
- 17. SPOT ELEVATIONS SHOWN IN PARKING LOTS, DRIVES AND ROADS INDICATE GUTTER GRADES, UNLESS NOTED OTHERWISE. SPOT ELEVATIONS WITH LABELS OUTSIDE THE BUILDING PERIMETER INDICATE PROPOSED GRADES OUTSIDE THE BUILDING. SPOT ELEVATIONS WITH LABELS INSIDE THE BUILDING PERIMETER INDICATE PROPOSED FINISH FLOOR ELEVATIONS.
- 18. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL AS REQUIRED. ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL
- 19. NO FINISHED SLOPES SHALL EXCEED 3' HORIZONTAL TO 1' VERTICAL (3:1), UNLESS
- 20. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
- 21. WHERE NEW SOD MEETS EXISTING SOD, EXISTING SOD EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
- 22. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
- 23. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
- 24. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE **BEGINNING CONSTRUCTION.**

## Jefferson-Olson **Mechanical Plant**

4001 West 102nd Street Bloomington, MN 55437

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LEGEND

REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) **DETAIL SHEET NUMBER (BOTTOM)** EXISTING CONTOUR

**EXISTING SPOT ELEVATION** 

> 855 ---- PROPOSED CONTOUR PROPOSED SPOT ELEVATION ME = MATCH EXISTING EOF = EMERGENCY OVERFLOW

— — — — — PROPOSED GRADING LIMITS

PROPOSED SAND SUBBASE AT FROST FOOTED STOOPS  $\binom{5}{C2.11}$ 

APPROXIMATE SOIL BORING LOCATION

PROPOSED MANHOLE (MH) 12 14 (C2.11/C2.11

PROPOSED CATCH BASIN (CB)

PROPOSED HYDRANT (HYD) PROPOSED GATE VALVE (GV)  $\frac{10}{C2.11}$ 

PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS

#### BENCHMARKS - OLSON MS (FIELD VERIFY BEFORE USING)

- 1.) Top of top nut of fire hydrant northeast of loading dock, north of ring road, 120± feet from Olson Middle School. Elevation = 872.71 feet
- 2.) Top of top nut of fire hydrant on east side of ring road, 50± feet east of Olson Middle School, north of southwest baseball diamond. Elevation = 872.96 feet
- 3.) Top of top nut of fire hydrant west side of Johnson Avenue South near west drive entrance to Jefferson High School. Elevation = 865.87 feet

#### BENCHMARKS - JEFFERSON HS (FIELD VERIFY BEFORE USING)

- 1.) Top of top nut of fire hydrant 45 feet +/- westerly of a northwest corner of Jefferson High School. Elevation = 874.47 feet
- 2.) Top of top nut of fire hydrant west of Jefferson High School and northeast of track. Elevation = 866.37 feet
- Elevation = 865.87 feet 4.) Top of top nut of fire hydrant south of the southwest corner of the northeast parking lot and 95 feet

3.) Top of top nut of fire hydrant west side of Johnson Avenue South near west drive entrance to Jefferson

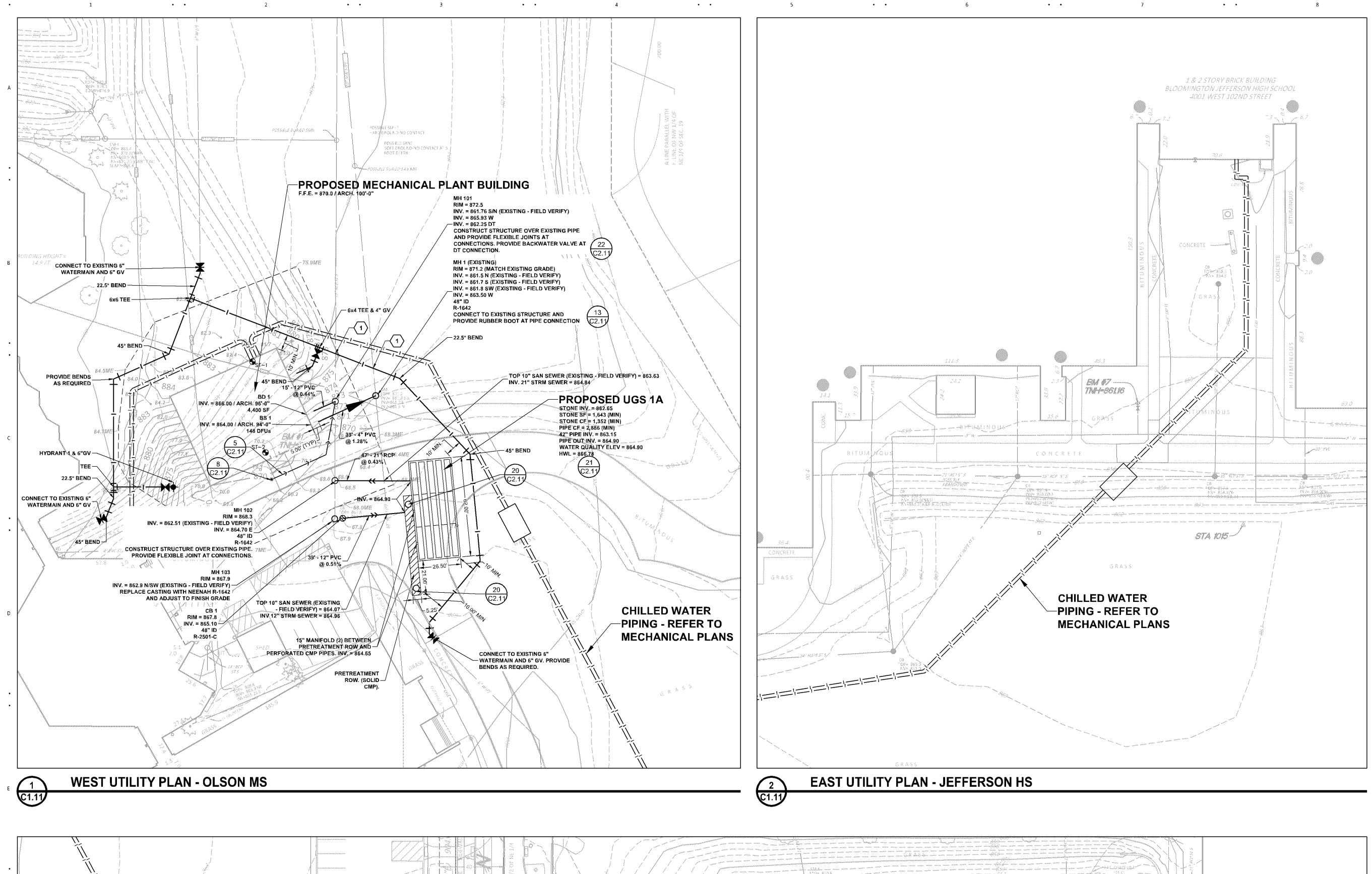
- +/- northwesterly of building entrance #2. Elevation = 872.62 feet 5.) Top of top nut of the first fire hydrant south of West 102nd Street on the west side of France Avenue
- Elevation = 875.58 feet
- 6.) Top of top nut of fire hydrant 10 feet +/- south of the southeast corner of Jefferson High School. Elevation = 861.13 feet
- 7.) Top of top nut of fire hydrant lying 50 feet +/- southeast of building entrance #18. Elevation = 861.16 feet

PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA DAVID A. REY Registration Number **40180** Date **03/31/2021** Revisions

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**GRADING AND DRAINAGE PLAN** 

Scale: 1" = 30'

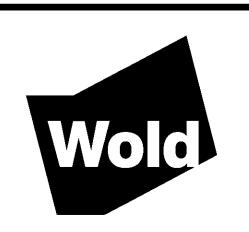


CHILLED WATER
PRING, REFER TO
SIECHANICAL PLANS

CHILLED WATER
Prinds, REFER TO
SIECHANICAL PLANS

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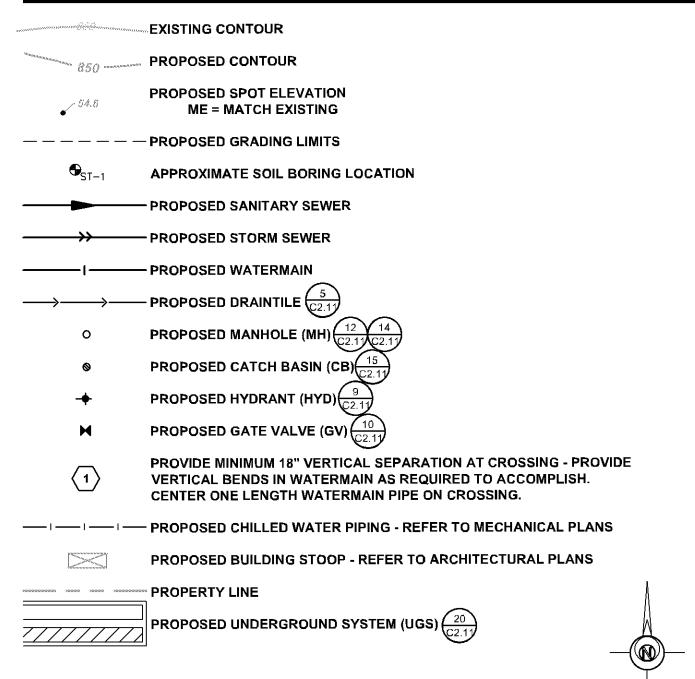
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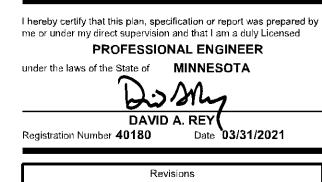


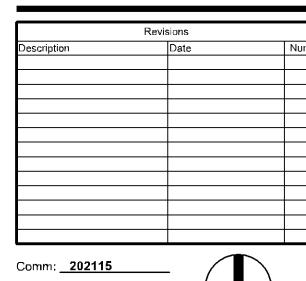
#### **NOTES**

- 1. REFER TO SHEET C1.31, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
- 2. ALL WATERMAIN PIPE SHALL BE DIP, CLASS 52. ALL WATERMAIN SHALL HAVE MINIMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE). DIP SHALL BE ENCASED WITH POLYETHYLENE FILM CONFORMING TO ASTM D 1248-889.
- 3. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 26), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
- 4. ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
- 5. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
- a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
   b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
   EERNOO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE DIAMETER WATERSTORS"
- i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
   ii. PRESS-SEAL, WATERSTOP GROUTING RINGS"
   iii. OR APPROVED EQUAL.
- 6. WATERMAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
- 7. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
- 8. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
- 9. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
- 10. CONTRACTOR SHALL STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS AND MANHOLES. GATE VALVE AND MANHOLE LOCATIONS SHALL BE ADJUSTED TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. CURB AND GUTTER SHALL BE STAKED TO ALLOW CURB INLET TYPE CATCH BASINS TO BE PROPERLY LOCATED IN LINE WITH CURBING.

#### **LEGEND**







Date: 03/31/2021

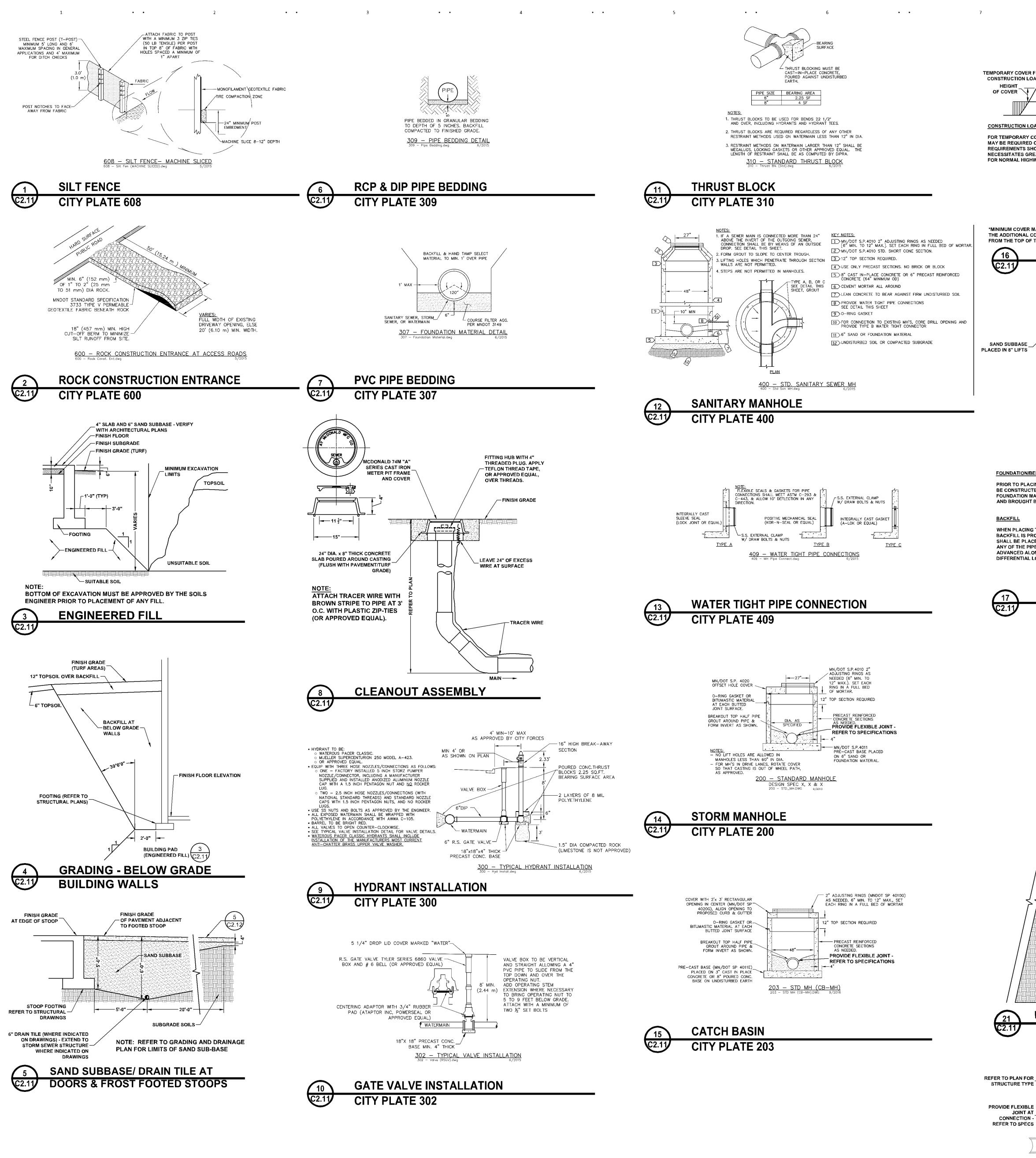
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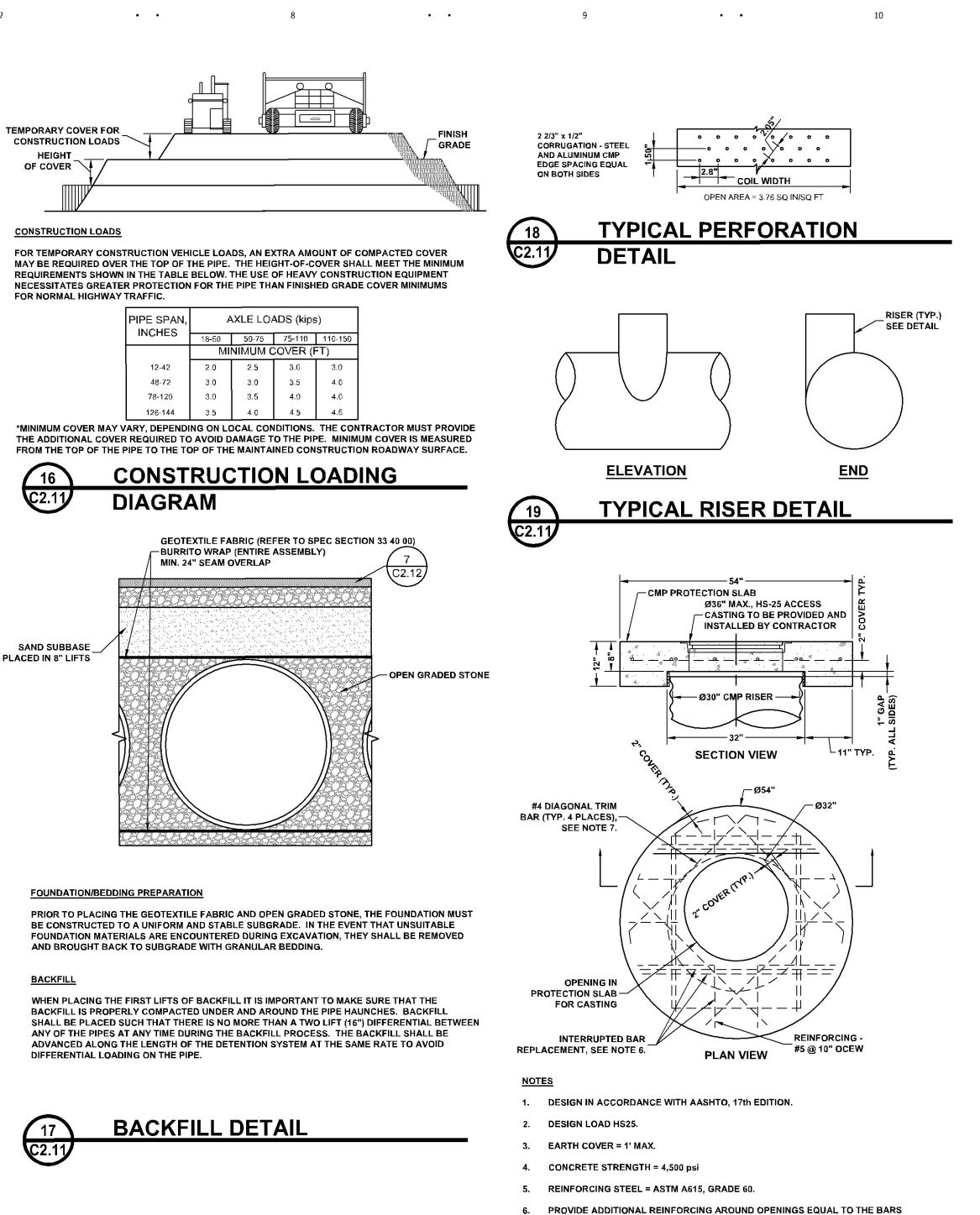
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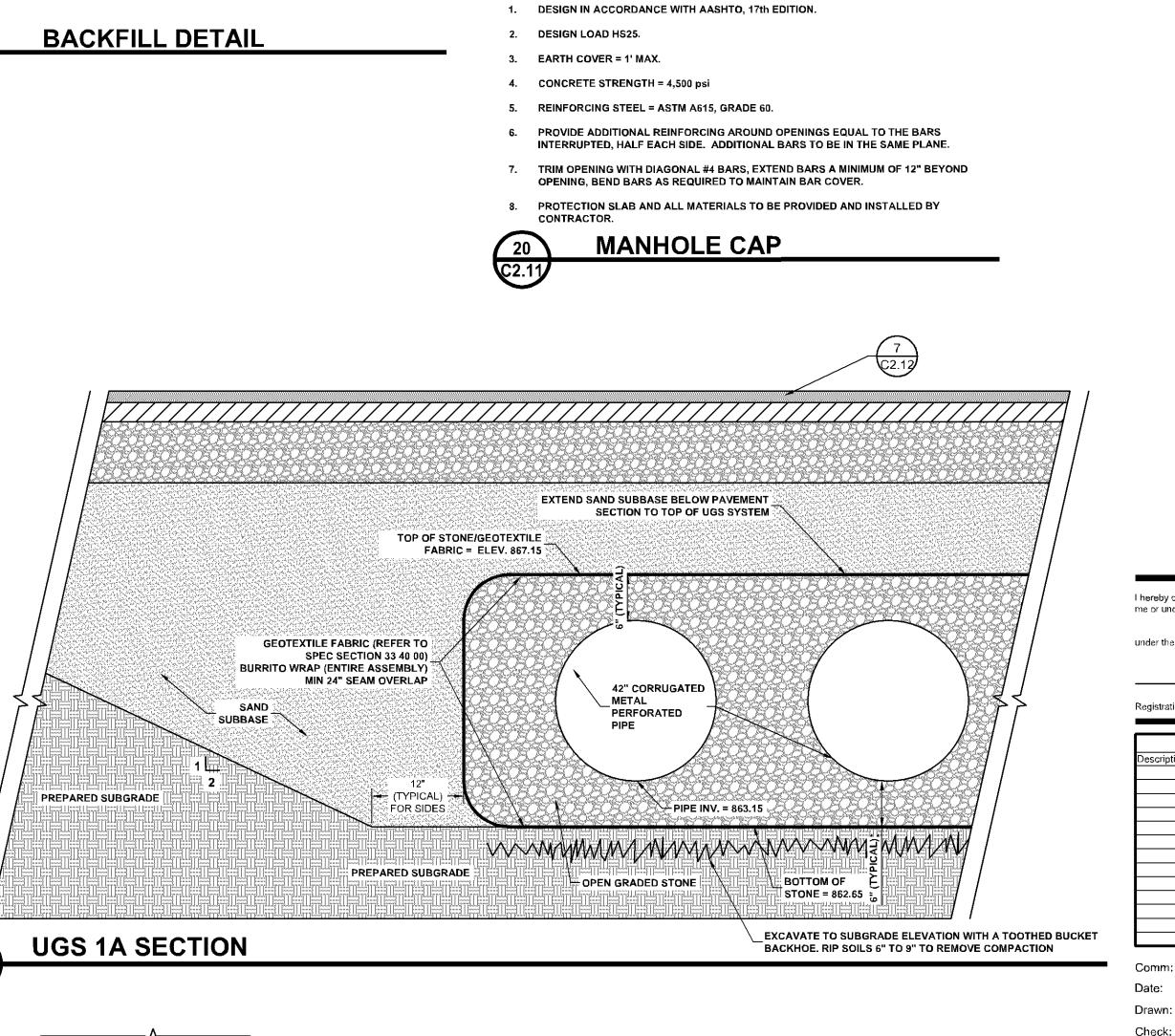
UTILITY PLAN

Scale: 1" = 30'

C1.41







-BACKWATER VALVE

VALVE TO DRAINTILE

REFER TO SPECS

-6" DRAINTILE

**BACKWATER VALVE** 

JOINT AT

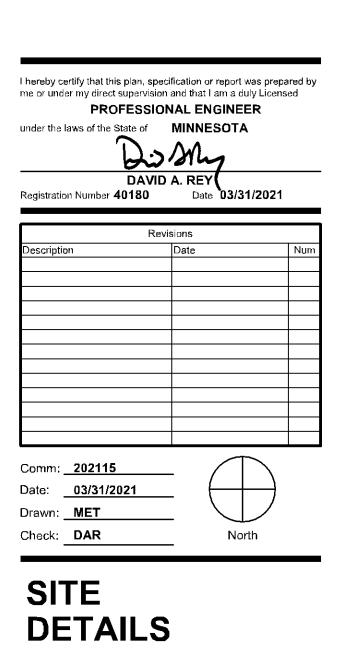
PROVIDE FLEXIBLE JOINT

CONNECT DRAINTILE TO STRUCTURE AT ELEVATION SHOWN ON THE DRAWING. **GROUT SECURE TO STRUCTURE** 

MINIMIZE STUB THROUGH WALL STUB ONLY AS REQUIRED TO ALLOW BACKWATER VALVE

TO BE CONNECTED TO DRAINTILE

SOLVENT WELD BACKWATER



Jefferson-Olson

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A M BOLTON & MENK COMPANY

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District 271

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Scale: Not To Scale

PAVEMENT ON HIGH SIDE OF LOT/DRIVE (TIP OUT) - SLOPE 3" PER FOOT TOWARDS BACK OF CURB FACE ON LOW SIDE OF LOT/DRIVE (TIP BACK) AGGREGATE BASE TO BE PLACED BY PAVING CONTRACTOR (4" MIN.) 1. DIRECTION OF TRANSVERSE GUTTER SLOPE TO MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE. CONSTRUCT WITH CURBING MACHINE.

2. AT CURB INLET CATCH BASINS, ADJUST CASTING TO BE 1" BELOW GUTTER GRADE. SLOPE GUTTER 5' EACH SIDE OF CATCH BASIN. PROVIDE POSITIVE DRAINAGE TO CATCH BASINS. B-612 CURB AND GUTTER SLOPE 3" PER FOOT TOWARDS PAVEMENT ON HIGH SIDE OF LOT/DRIVE (TIP OUT) - SLOPE 3"\_ PER FOOT TOWARDS BACK OF 12" - 6" - 6" - 6" CURB FACE ON LOW SIDE OF LOT/DRIVE (TIP BACK) AGGREGATE BASE TO BE PLACED BY PAVING CONTRACTOR (4" MIN.) NOTE:
1. DIRECTION OF TRANSVERSE GUTTER SLOPE TO MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE. CONSTRUCT WITH CURBING MACHINE. D-412 CURB & GUTTER PROVIDE EXPANSION
JOINT AT ENDS
OF TRANSITION (TYP.) **CURB TRANSITION D-412 TO B-612 CURB TERMINATOR** \_PROVIDE 2% CROSS SLOPE (MAX.) REFER
TO GRADING PLAN FOR DIRECTION TYPICAL AT GRASS, LANDSCAPING, AND — SOD AREAS 4" CONCRETE WALK BITUMINOUS PAVEMENT -\_\_4" SAND BASE OR STABILIZED AGGREGATE BASE CONCRETE WALK 6" STABILIZED AGGREGATE BASE TO BE PLACED BY PAVING CONTRACTOR 6" (MIN.) STABILIZED AGGREGATE
BASE TO BE PLACED BY PAVING CONCRETE FLUSH WITH BITUMINOUS PAVEMENT THICKENED SLAB AT ALL SIDES NOT ADJACENT TO BUILDING PREPARED SUBGRADE

**CONCRETE SLAB** 

FACE OF CURB

1:3 BATTER 3" RADIUS

12" SLOPE 3" PER FOOT TOWARDS

• •

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∕ 2" BITUMINOUS WEAR COURSE

~ 2" BITUMINOUS BINDER COURSE

TACK COAT

10" AGGREGATE BASE COURSE 12" SUBGRADE PREPARATION

5" O.D. STEEL PIPE WITH TWO COATS SIGN ENAMEL (COLOR SHALL BE OPTIC YELLOW AND SHALL BE APPROVED BY OWNER).

CONCRETE MIX

(MN/DOT) 3A32 OR EQUAL

FILL POST WITH CONCRETE

**BITUMINOUS PAVEMENT** 

5" PIPE CAP

/--10° SLOPE

Independent School District 271 1350 West 106th Street Bloomington, MN 55431







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 Registration Number **40180** Date **03/31/2021** 

SITE DETAILS

Scale: Not To Scale