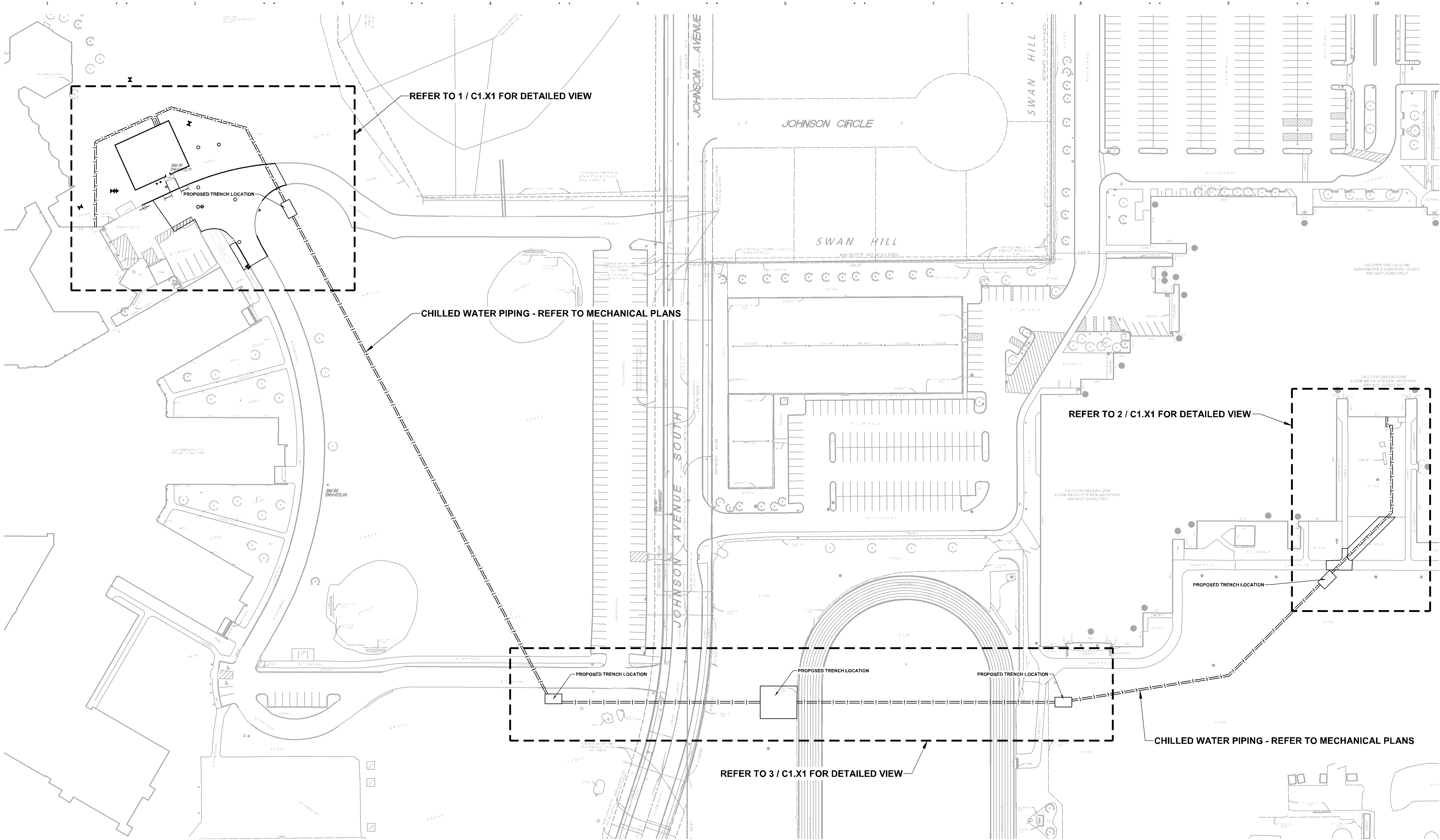


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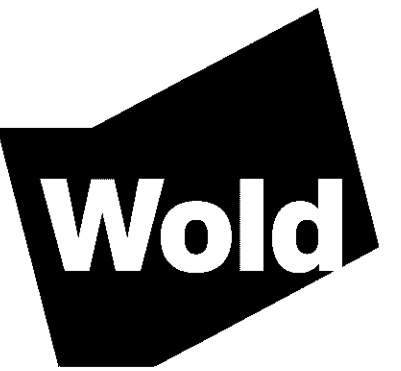
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- NOTES:**
- REFER TO SHEET C1.31, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
 - REFER TO MECHANICAL PLANS FOR CHILLED WATER PIPING INFORMATION.

**Jefferson-Olson
Mechanical Plant**
4001 West 102nd Street
Bloomington, MN 55437

**Independent School
District 271**
1350 West 106th Street
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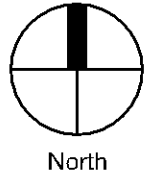


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the state of MINNESOTA

David A. Rey
DAVID A. REY
Registration Number 40189 Date 03/31/2021

Description	Revisions Date	Num

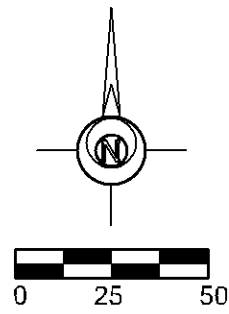
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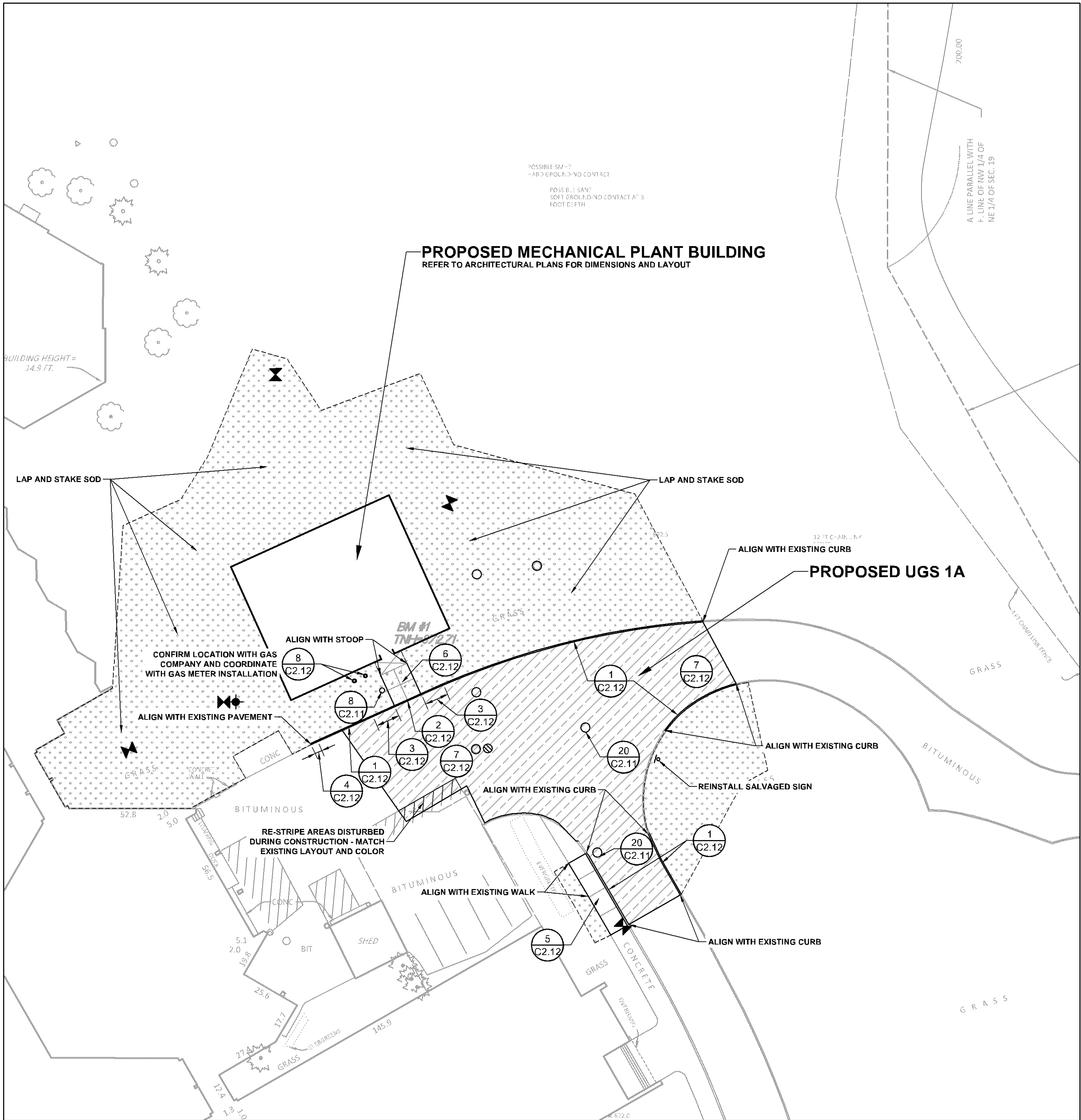
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SITE
PLAN**

Scale: 1" = 50'

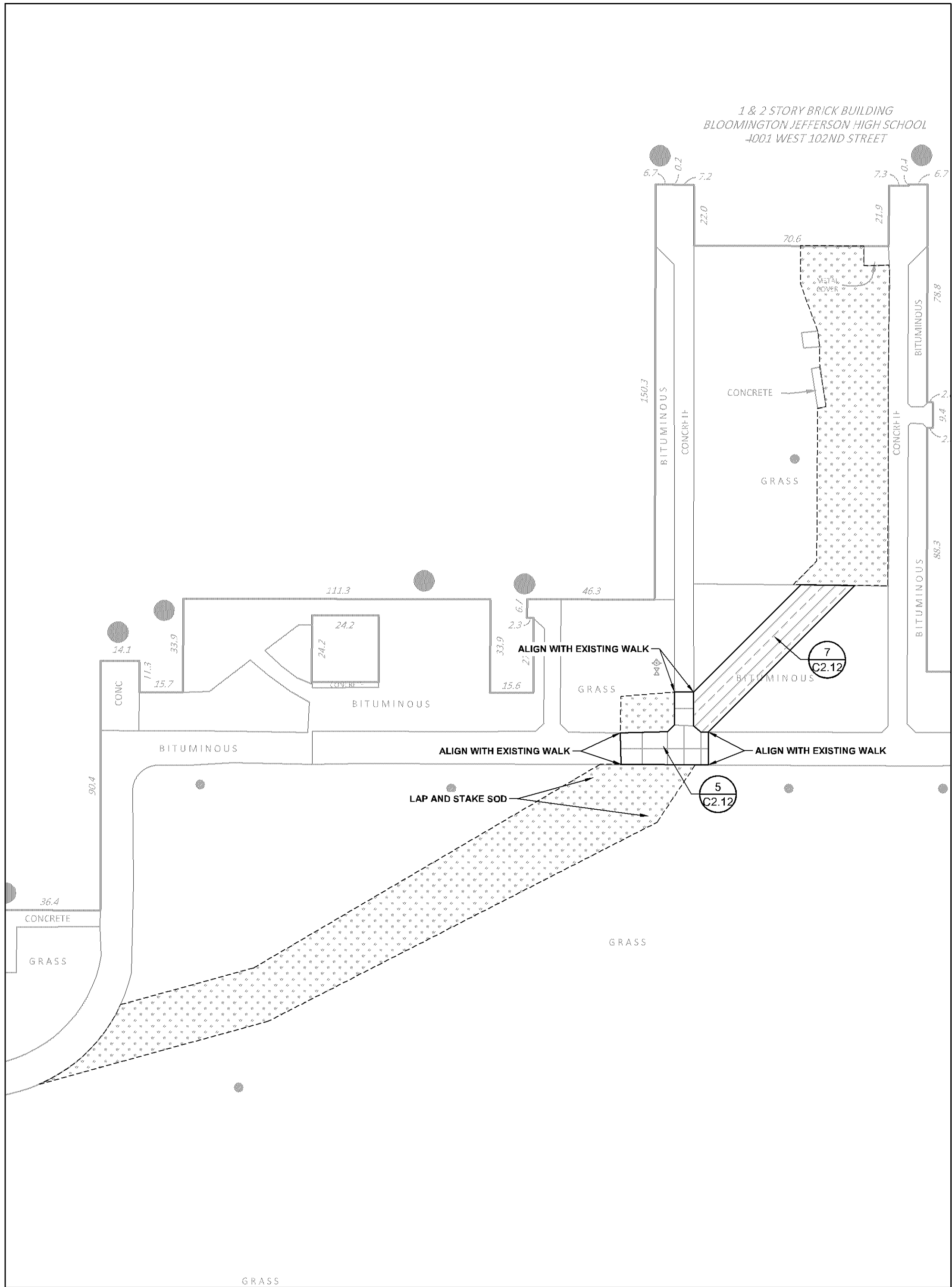
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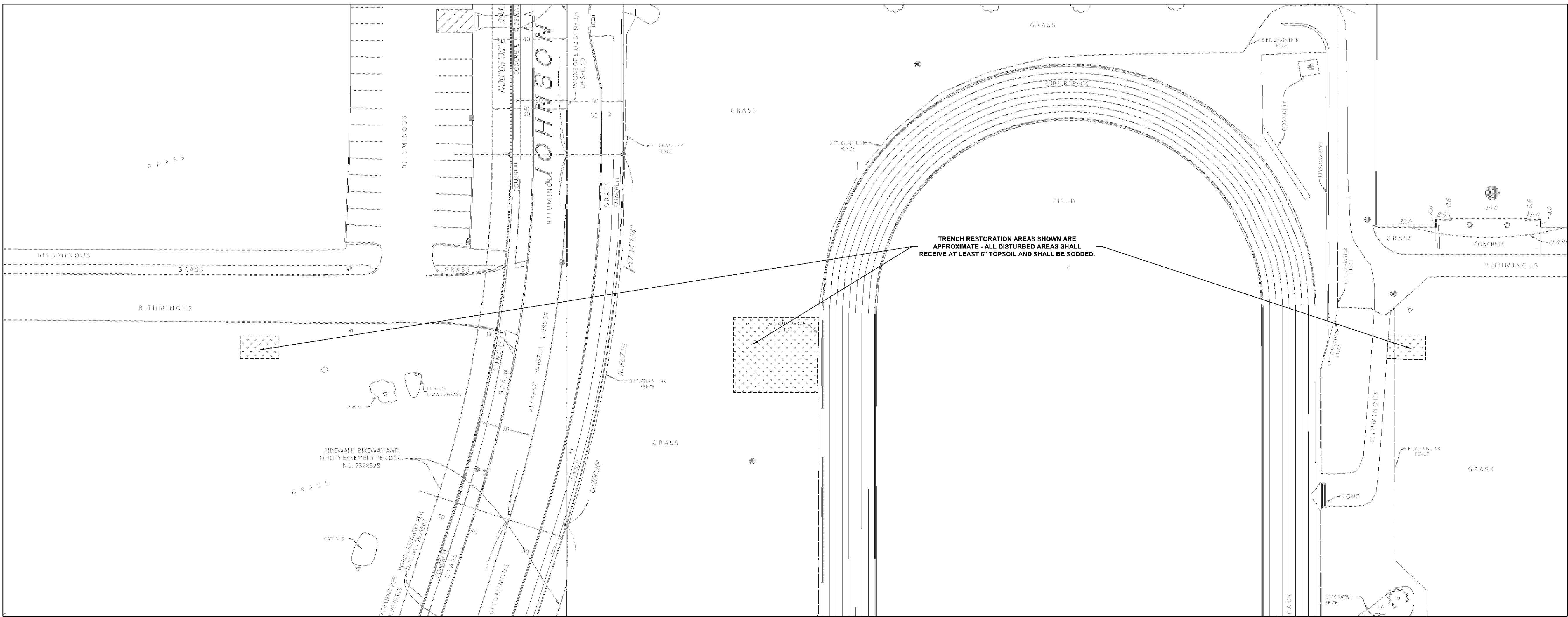
MN



1 WEST SITE PLAN - OLSON MS



2 EAST SITE PLAN - JEFFERSON HS



3 CENTRAL SITE PLAN - OLSON MS & JEFFERSTON HS

- NOTES:**
- REFER TO SHEET C1.31, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
 - CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
 - 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.
 - 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.
 - 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.

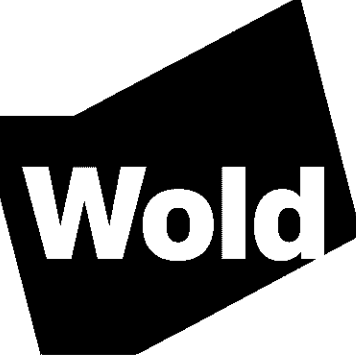
LEGEND

REFERENCE KEY TO SITE DETAILS
DETAIL ID NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)

PROPOSED CONCRETE WALK	PROPOSED CONCRETE SLAB	PROPOSED BITUMINOUS PAVEMENT	APPROXIMATE SOD LIMITS	PROPOSED BOLLARD	PROPOSED MANHOLE (MH)	PROPOSED CATCH BASIN (CB)	PROPOSED HYDRANT (HYD)	PROPOSED GATE VALVE (GV)	PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS	PROPERTY LINE
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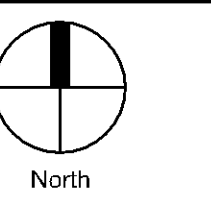


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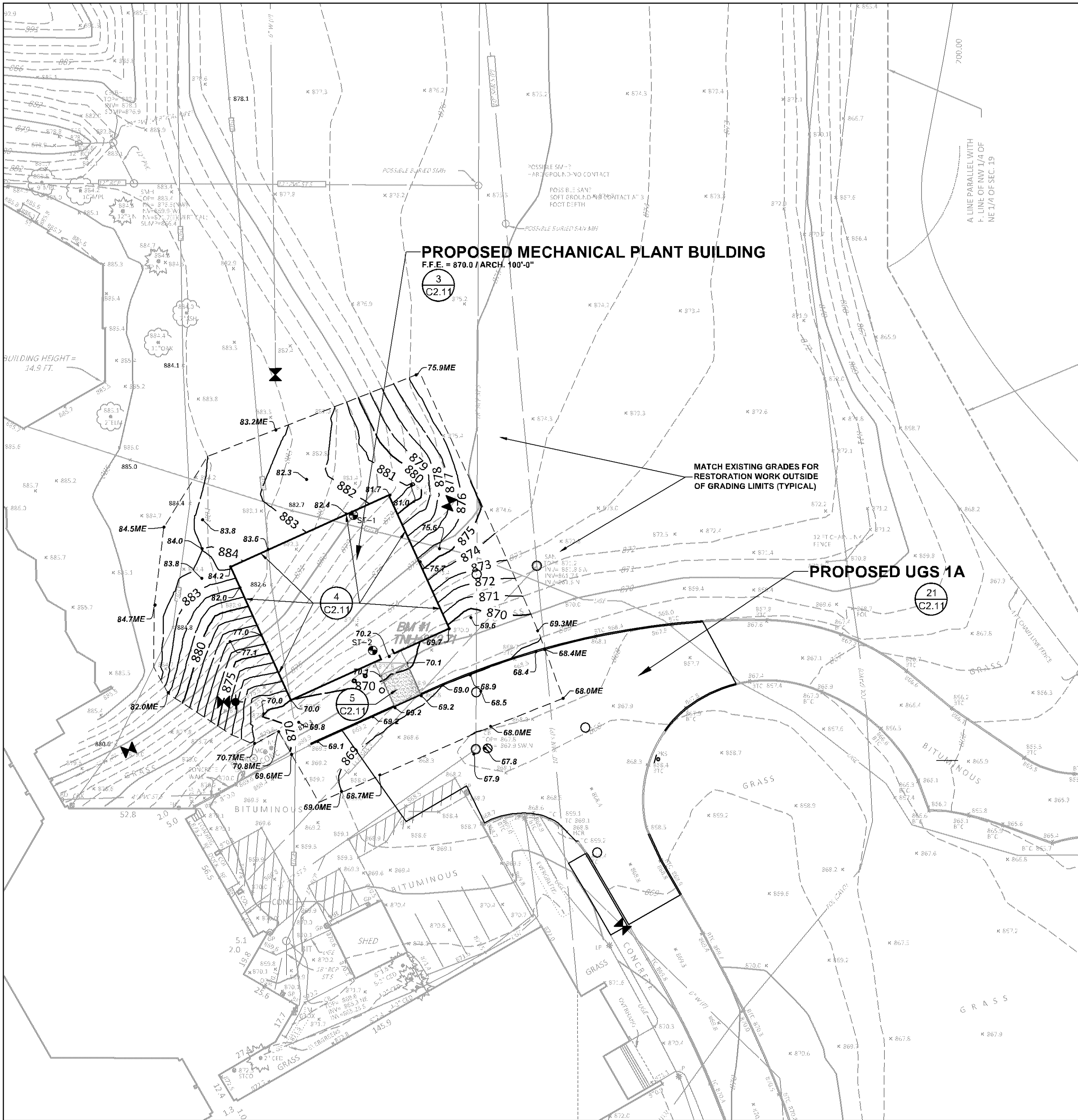
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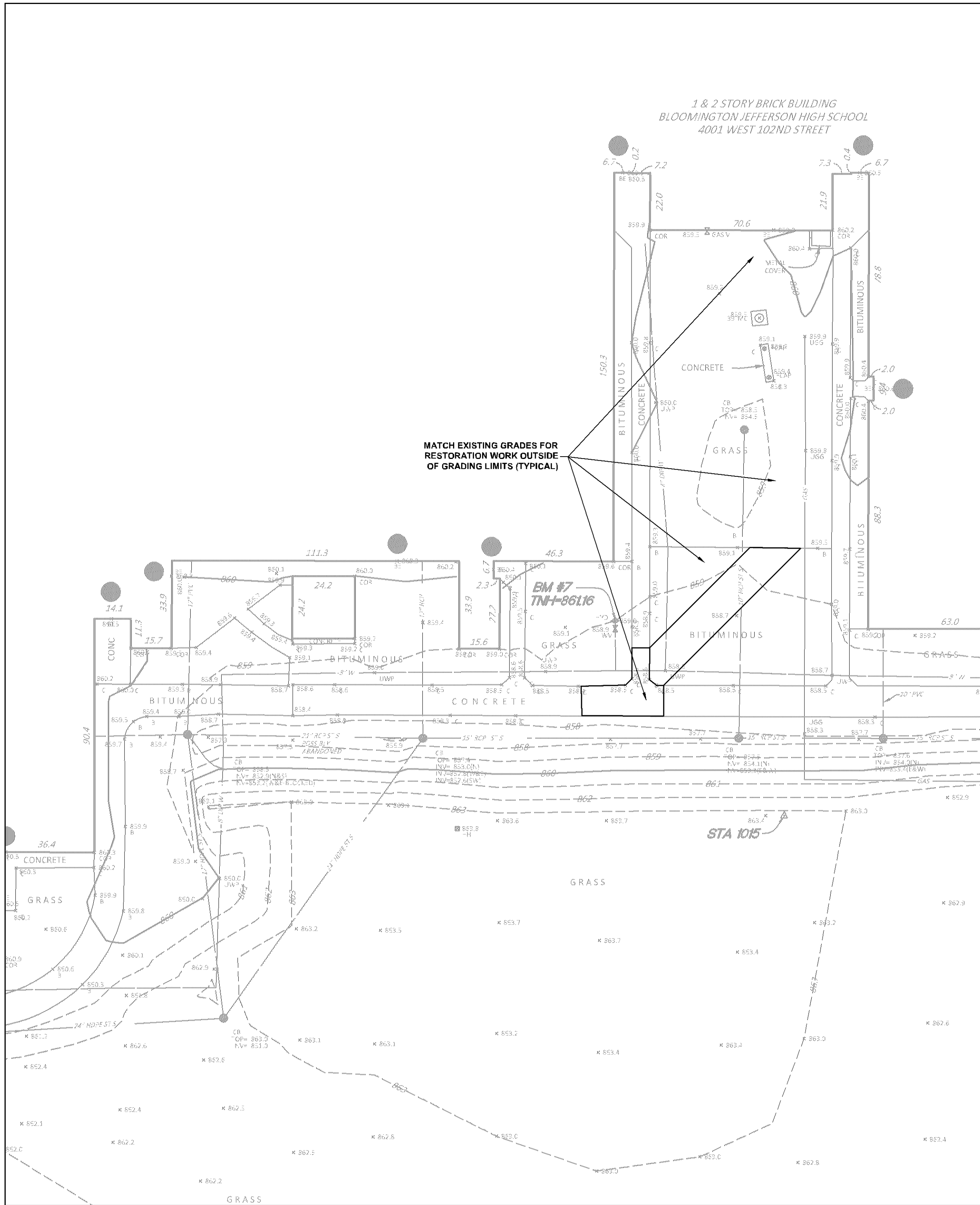
**SITE
PLAN**

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C1.21

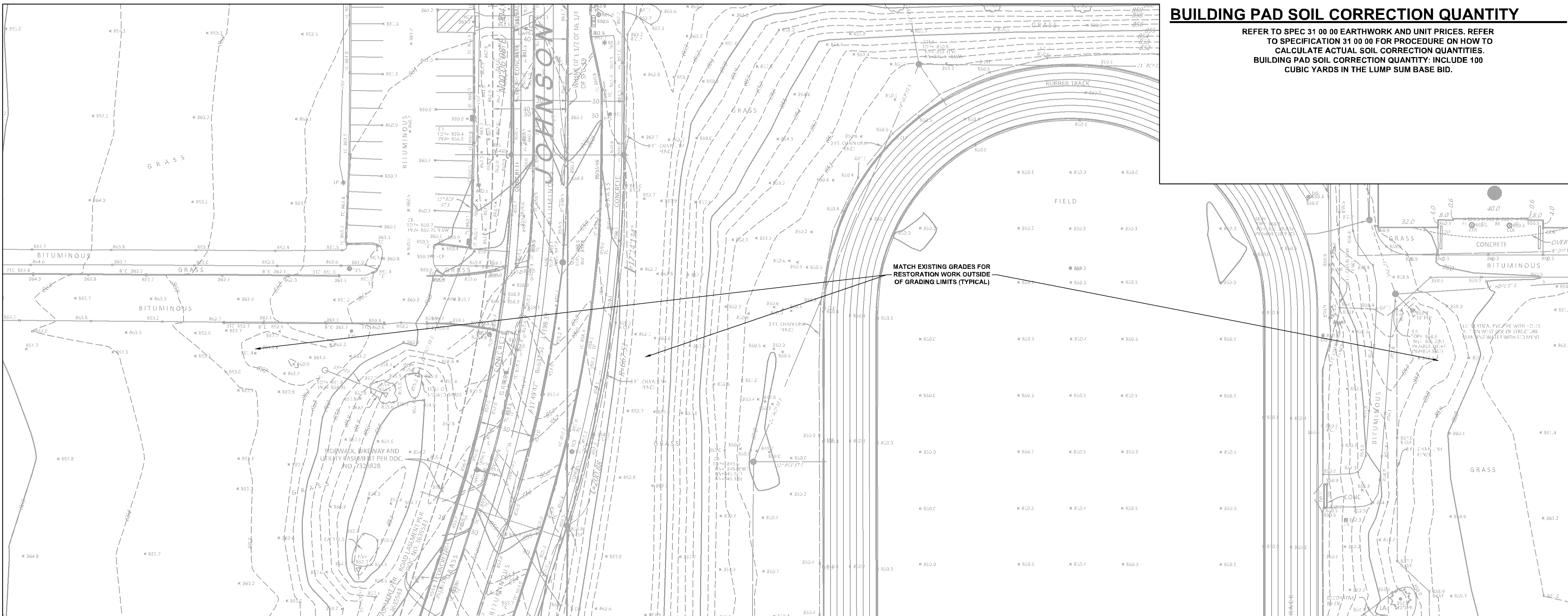
MN



WEST GRADING AND DRAINAGE PLAN - OLSON MS



EAST GRADING AND DRAINAGE PLAN - JEFFERSON HS



CENTRAL GRADING AND DRAINAGE PLAN - OLSON MS & JEFFERSTON HS

GENERAL NOTES

- ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION STAKING LAYOUT.
- 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 CITY.
- 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.
- INSTALL CONSTRUCTION FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC.
- INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.
- REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.
- CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
- REFER TO ARCHITECTURAL PLANS FOR BUILDING AND STOOP DIMENSIONS AND LAYOUT.
- 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.
- 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.
- MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
- ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.
- PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS OTHERWISE NOTED.
- PROPOSED ELEVATIONS SHOWN TYPICALLY AS 60.1 OR 60.9 SHALL BE UNDERSTOOD TO MEAN 60.1 OR 60.9.
- 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.
- 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 TO THE CONTRACT.
- NO FINISHED SLOPES SHALL EXCEED 3' HORIZONTAL TO 1' VERTICAL (3:1), UNLESS OTHERWISE NOTED.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL, AND SHALL BE SODED.
- 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.
- 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.
- ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE 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).
- LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.

LEGEND

- REFERENCE KEY TO SITE DETAILS
DETAIL ID NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
EXISTING SPOT ELEVATION
PROPOSED CONTOUR
PROPOSED SPOT ELEVATION
ME = MATCH EXISTING
EO = EMERGENCY OVERFLOW
- PROPOSED GRADING LIMITS
PROPOSED SAND SUBBASE AT FROST FOOTED STOOPS
APPROXIMATE SOIL BORING LOCATION
PROPOSED MANHOLE (MH)
PROPOSED CATCH BASIN (CB)
PROPOSED HYDRANT (HYD)
PROPOSED GATE VALVE (GV)
PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
PROPERTY LINE

BENCHMARKS - OLSON MS (FIELD VERIFY BEFORE USING)

- Top of top nut of fire hydrant northeast of loading dock, north of ring road, 120± feet from Olson Middle School. Elevation = 874.71 feet
- 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
- 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)

- Top of top nut of fire hydrant 45 feet +/- westerly of a northwest corner of Jefferson High School. Elevation = 874.47 feet
- Top of top nut of fire hydrant west of Jefferson High School and northeast of track. Elevation = 866.37 feet
- 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
- Top of top nut of fire hydrant south of the southwest corner of the northeast parking lot and 95 feet +/- northwesterly of building entrance #2. Elevation = 877.62 feet
- Top of top nut of the first fire hydrant south of West 102nd Street on the west side of France Avenue South. Elevation = 875.58 feet
- Top of top nut of fire hydrant 10 feet +/- south of the southeast corner of Jefferson High School. Elevation = 861.13 feet
- Top of top nut of fire hydrant lying 50 feet +/- southeast of building entrance #18. Elevation = 861.16 feet

Jefferson-Olson Mechanical Plant

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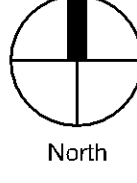
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DAVID A. REY
Registration Number 40189 Date 03/31/2021

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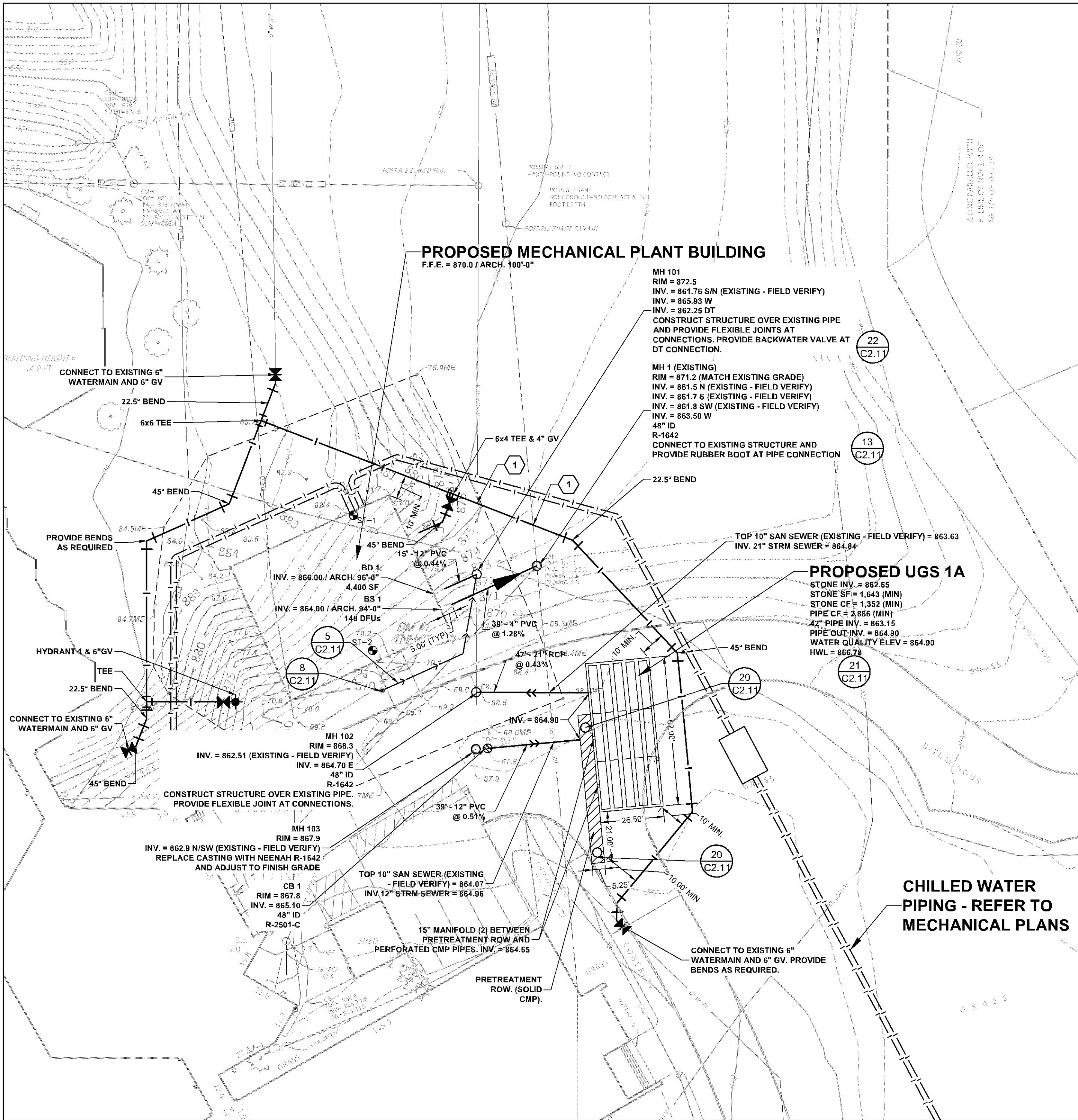


GRADING AND DRAINAGE PLAN

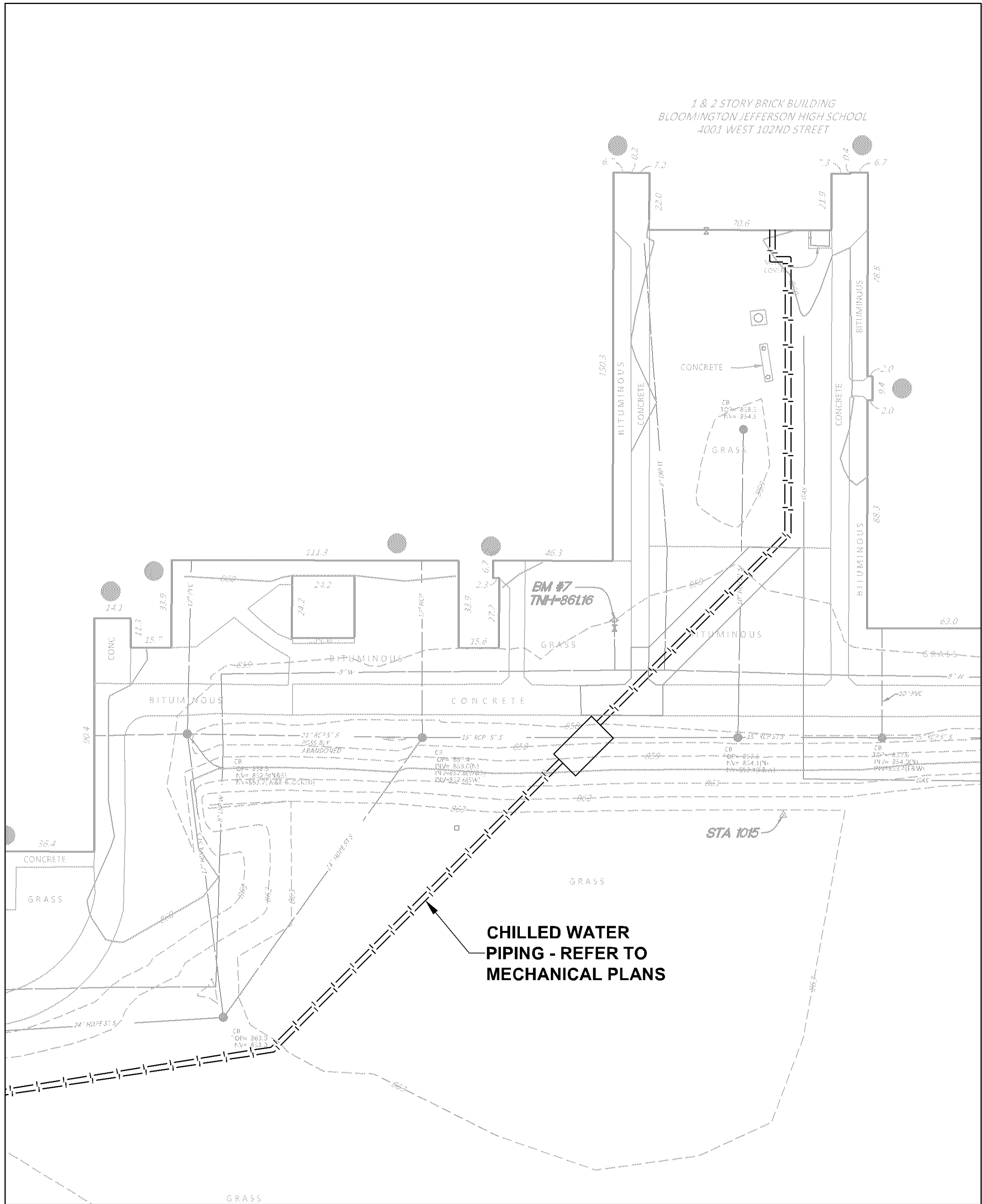
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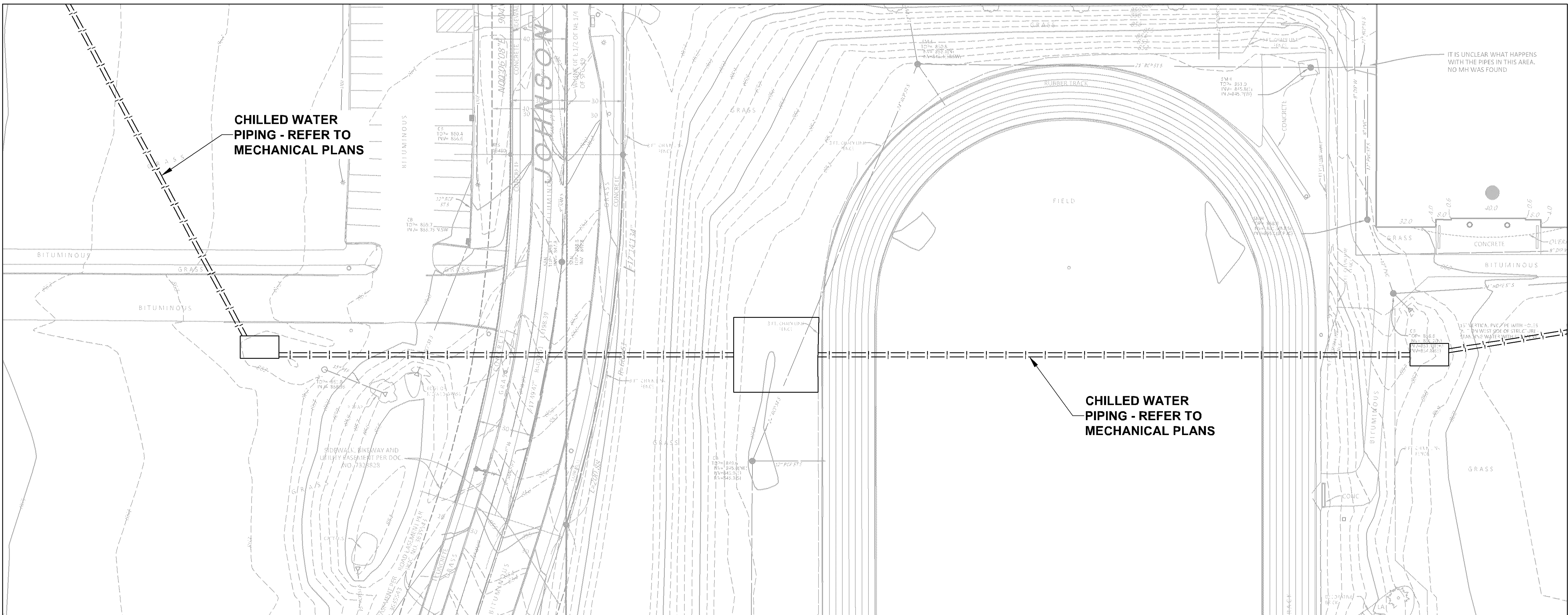
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1 WEST UTILITY PLAN - OLSON MS



2 EAST UTILITY PLAN - JEFFERSON HS



3 CENTRAL UTILITY PLAN - OLSON MS & JEFFERSON HS

- NOTES**
- REFER TO SHEET C1.31, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
 - 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 1248-88B.
 - 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.
 - ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATER TIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3334, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
 - FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
 - IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
 - ACCEPTABLE MANUFACTURERS' PRODUCTS:
 - FERROCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
 - PRESS-SEAL, WATERSTOP GROUTING RINGS"
 - OR APPROVED EQUAL.
 - WATERMAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE 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).
 - ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE 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).
 - LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
 - 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.
 - 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

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- ME = MATCH EXISTING
- PROPOSED GRADING LIMITS
- APPROXIMATE SOIL BORING LOCATION
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED DRAIN TILE
- PROPOSED MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- PROPOSED HYDRANT (HYD)
- PROPOSED GATE VALVE (GV)
- PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH. CENTER ONE LENGTH WATERMAIN PIPE ON CROSSING.
- PROPOSED CHILLED WATER PIPING - REFER TO MECHANICAL PLANS
- PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
- PROPERTY LINE
- PROPOSED UNDERGROUND SYSTEM (UGS)

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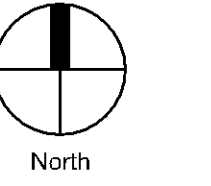
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PROFESSIONAL ENGINEER
MINNESOTA

David A. Rey
DAVID A. REY
Registration Number 40189 Date 03/31/2021

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**UTILITY
PLAN**

Scale: 1" = 30'

C1.41

MN

A

B

C

D

E

F

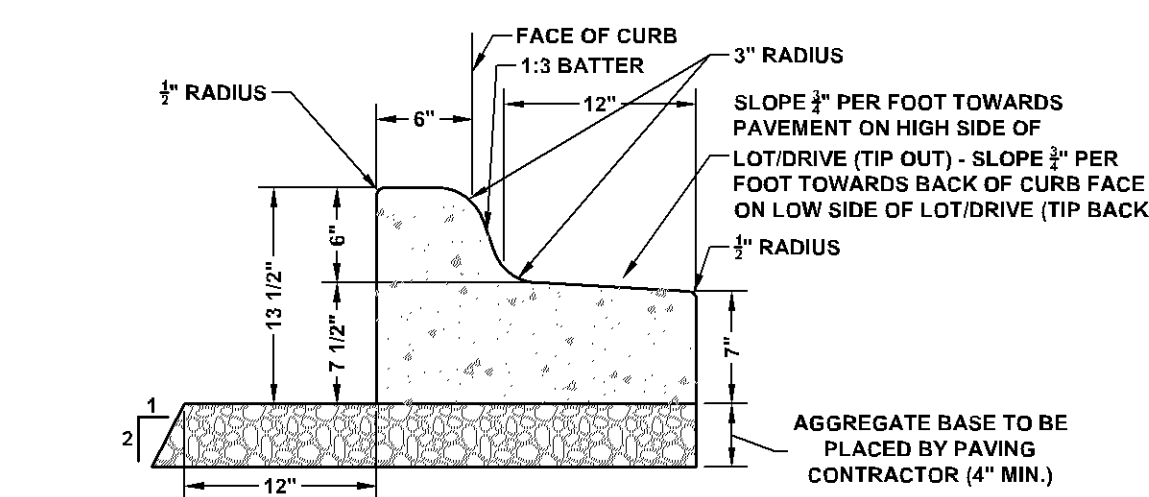
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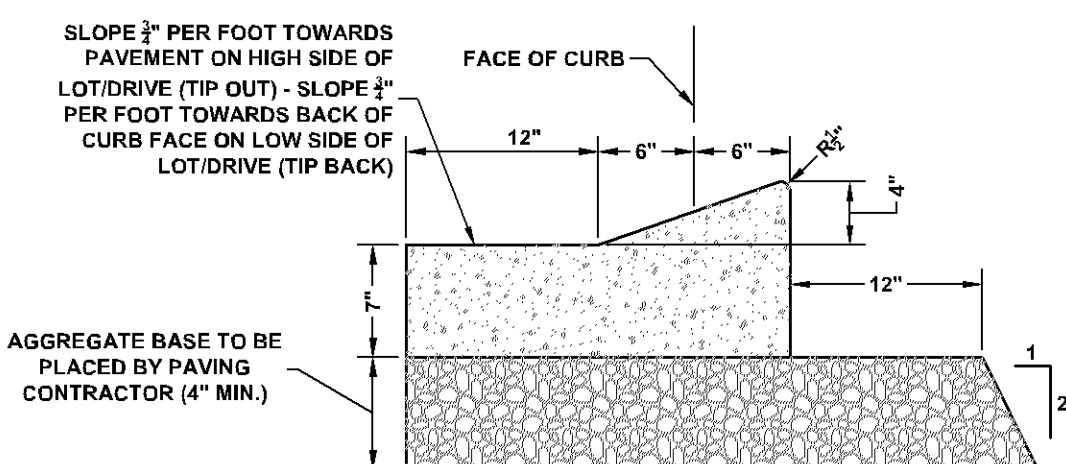
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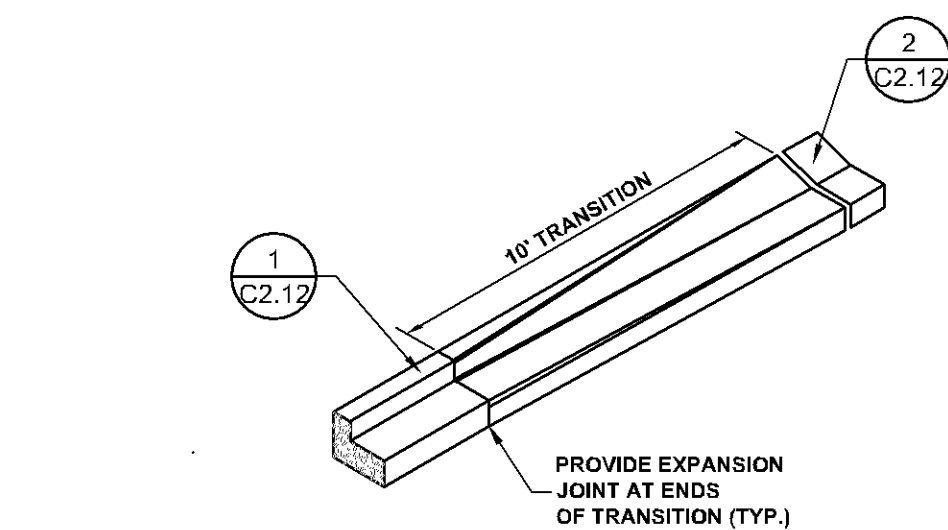
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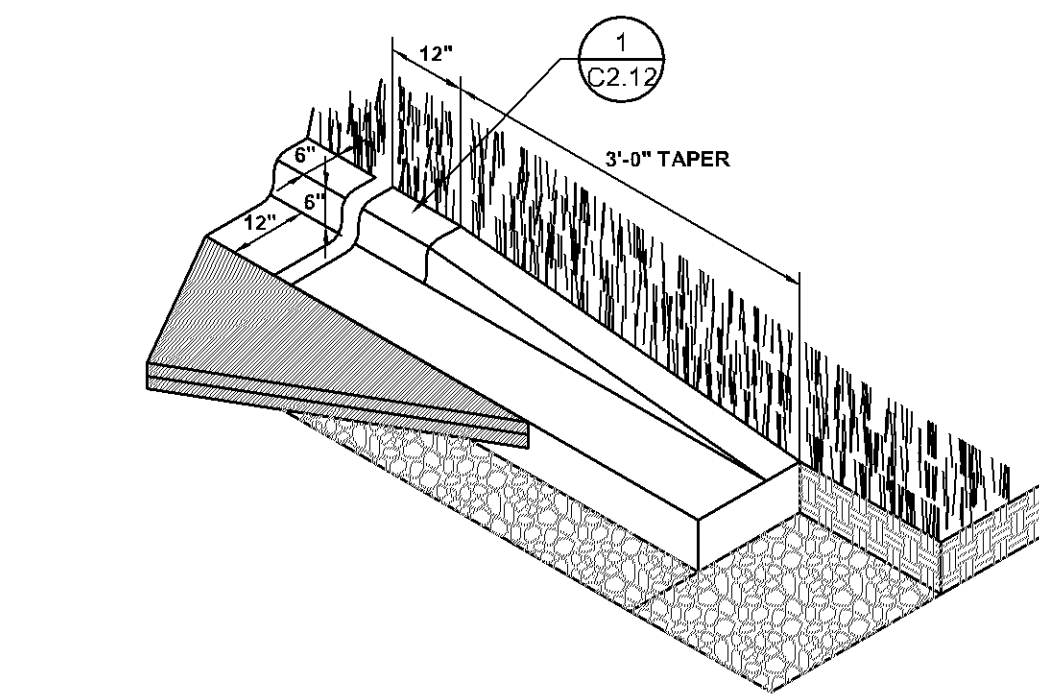
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C2.12 B-612 CURB AND GUTTER



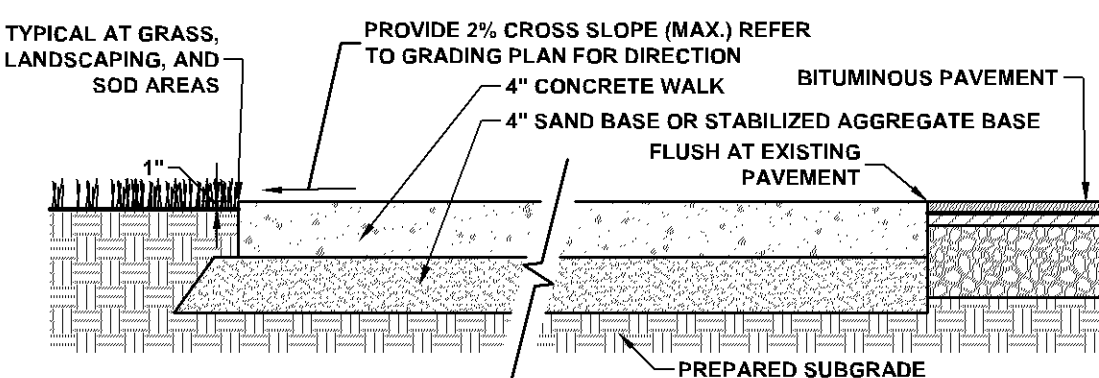
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C2.12 D-412 CURB & GUTTER



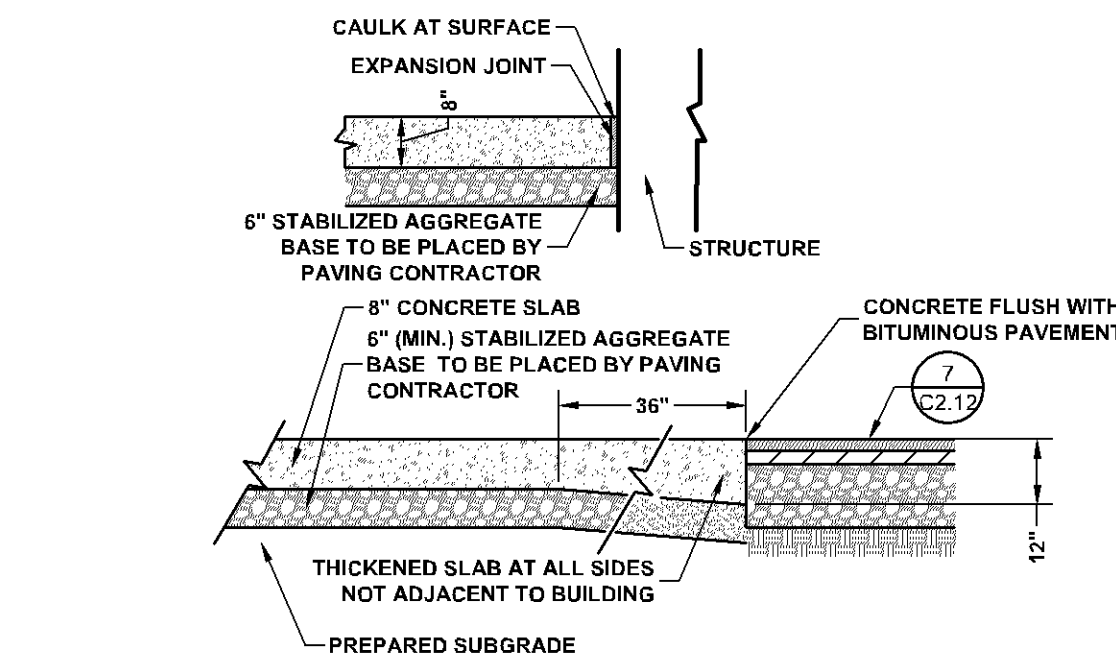
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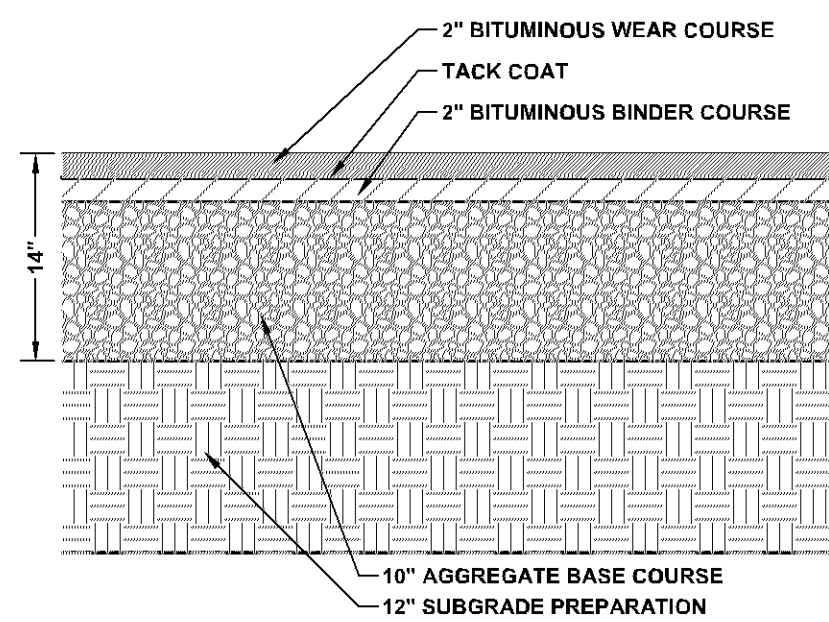
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C2.12 B-612 CURB TERMINATOR



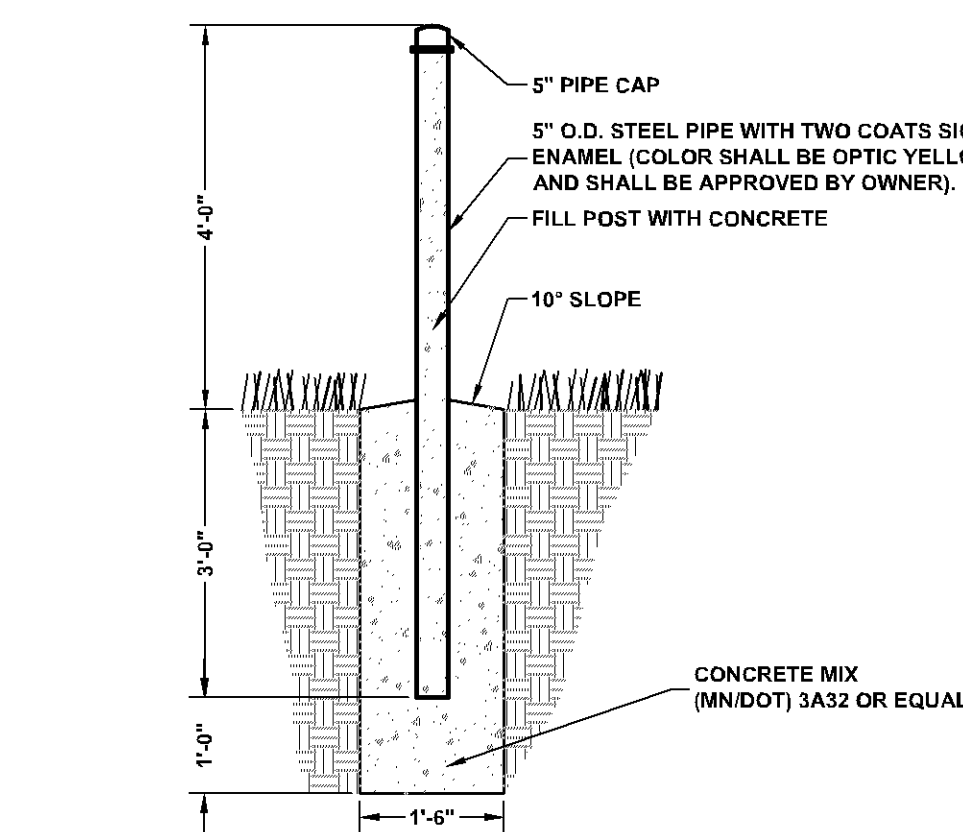
5
C2.12 CONCRETE WALK



6
C2.12 CONCRETE SLAB



7
C2.12 BITUMINOUS PAVEMENT



8
C2.12 BOLLARD

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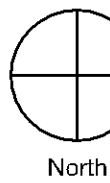
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SITE
DETAILS

Scale: Not To Scale

C2.12