# MINNESOTA MULTI-PURPOSE STADIUM MINNEAPOLIS, MINNESOTA



# **CCD-347**

**HKS PROJECT NUMBER: 16246.000** 

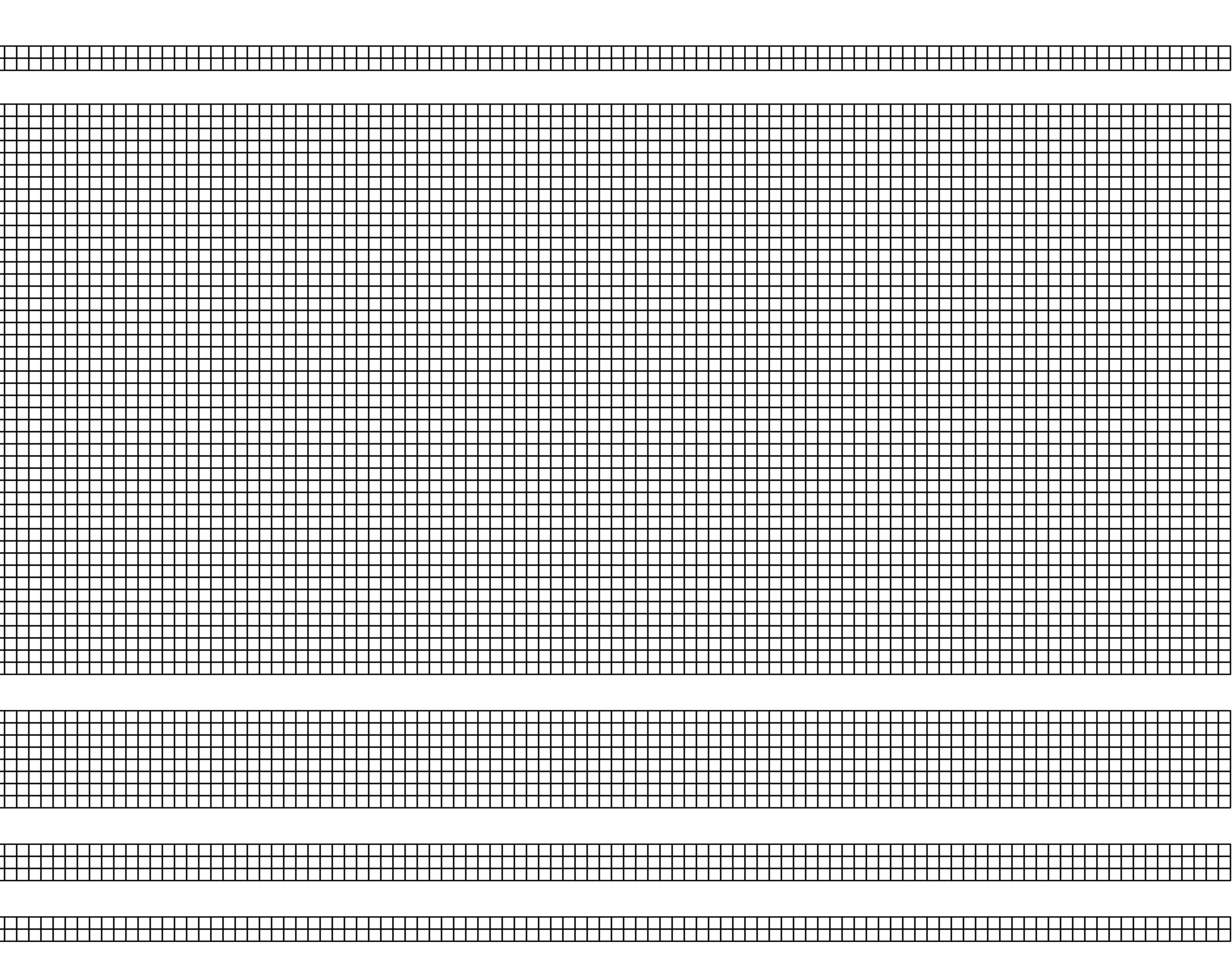
## **FEBRUARY 1, 2016**







	Image: Construction of the construc	CD SET
		SCHEMATIC DESIGN BESIGN DESIGN CCD-347 DTE WEST PLAZA
	VOLUME 01	11-13-2015 12-23-2015 02-01-2016
A9.01A	COVER SHEET INDEX SHEET - VOLUME 01	× × ■
	CIVIL	
C9.00	EXISTING CONDITIONS	X X 🔳
C9.01 C9.02	EXISTING CONDITIONS LEGEND AND NOTES	
C9.03	EXISTING UTILITIES	
C9.04 C9.10	EXISTING UTILITIES DEMOLITION PLAN	
C9.15	ADD ALTERNATES	
C9.16		
C9.20 C9.21	SITE PLAN SITE PLAN	
C9.25	SITE PAVING PLAN	
C9.26 C9.27	SITE PAVING PLAN SITE PAVING DETAILS	
C9.28	SITE PAVING DETAILS	
C9.29 C9.30	SITE PAVING DETAILS SITE STREET LIGHTING	
C9.35	GRADING PLAN	
C9.40	PLAZA LIGHTING DETAILS	
C9.41 C9.42	PLAZA LIGHTING DETAILS PLAZA LIGHTING DETAILS	─── <u>┤┤┤</u> ╋┤┤┤┤┤
C9.43	PLAZA LIGHTING	
C9.44 C9.50	PLAZA LIGHTING WIRING DIAGRAM EROSION AND SEDIMENT CONTROL PLAN	
C9.60	STORM SEWER PLAN	
C9.70 C9.71	CIVIL DETAILS STORM STRUCTURE DETAILS	
C9.71	STORM STRUCTURE DETAILS	
C9.80	SIGNAL PLAN	
C9.81 C10.01	SIGNAL PLAN SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	
C10.02	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	
C10.03 C10.04	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	╾╾╴┼┼┼╬┼┼┼┼┤
C10.05	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	
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C10.08	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	
C10.09 C10.1 <b>0</b>	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	───┼┼┼ <u></u> ╏┼┼┼┼╵
C10.12	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	
C10.13 C10.14	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	───┼┼┦ <u></u> ┫┤┤┤┤
C10.15	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	
C10.16 C10.17	SIGNALS/FLASHERS VOLUME 1 WEST PLAZA SIGNALS/FLASHERS VOLUME 1 WEST PLAZA	
E9.01	ELECTRICAL - SITE PLAN	
E9.02	LANDSCAPE	× × ■
L9.10		× × ■
L9.20	SITE MATERIALS PLAN	
L9.30 L9.40	FURNISHING PLAN PLANTING PLAN	X■
L9.40 L9.50	DETAILS	
L9.51 L9.52	DETAILS DETAILS	
L9.52 L9.53	DETAILS DETAILS	
	STRUCTURAL	
S9.00 S9.01	SITE STRUCTURAL NOTES SITE STRUCTURAL FOUNDATIONS	
S9.01 S9.02	SITE STRUCTURAL FOUNDATIONS SITE STRUCTURAL FOUNDATIONS	
	<b>GRAPHICS &amp; WAYFINDING</b>	





OWNER MINNESOTA SPORTS FACILITIES AUTHORITY 900 SOUTH 5th STREET, MINNEAPOLIS, MN 55415 OWNER MINNESOTA VIKINGS FOOTBALL, LLC

ARCHITECT

HKS, INC 350 N. ST. PAUL ST., SUITE 100, DALLAS, TX 75201 CIVIL ENGINEER

EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT OSLUND AND ASSOCIATES

SLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401 STRUCTURAL ENGINEER SEH INC.

10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 ELECTRICAL ENGINEER SEH INC.

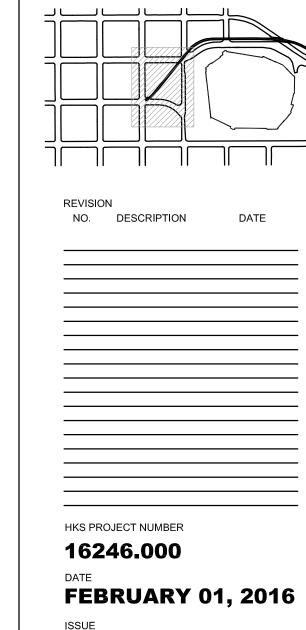
10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS

WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244

WAYFINDING SELBERT PERKINS DESIGN

432 CULVER BLVD., PLAYA DEL REY, CA 90293 CIVIL ENGINEERING SUBCONSULTANT COMPANY NAME, INC. COMPANY ADDRESS

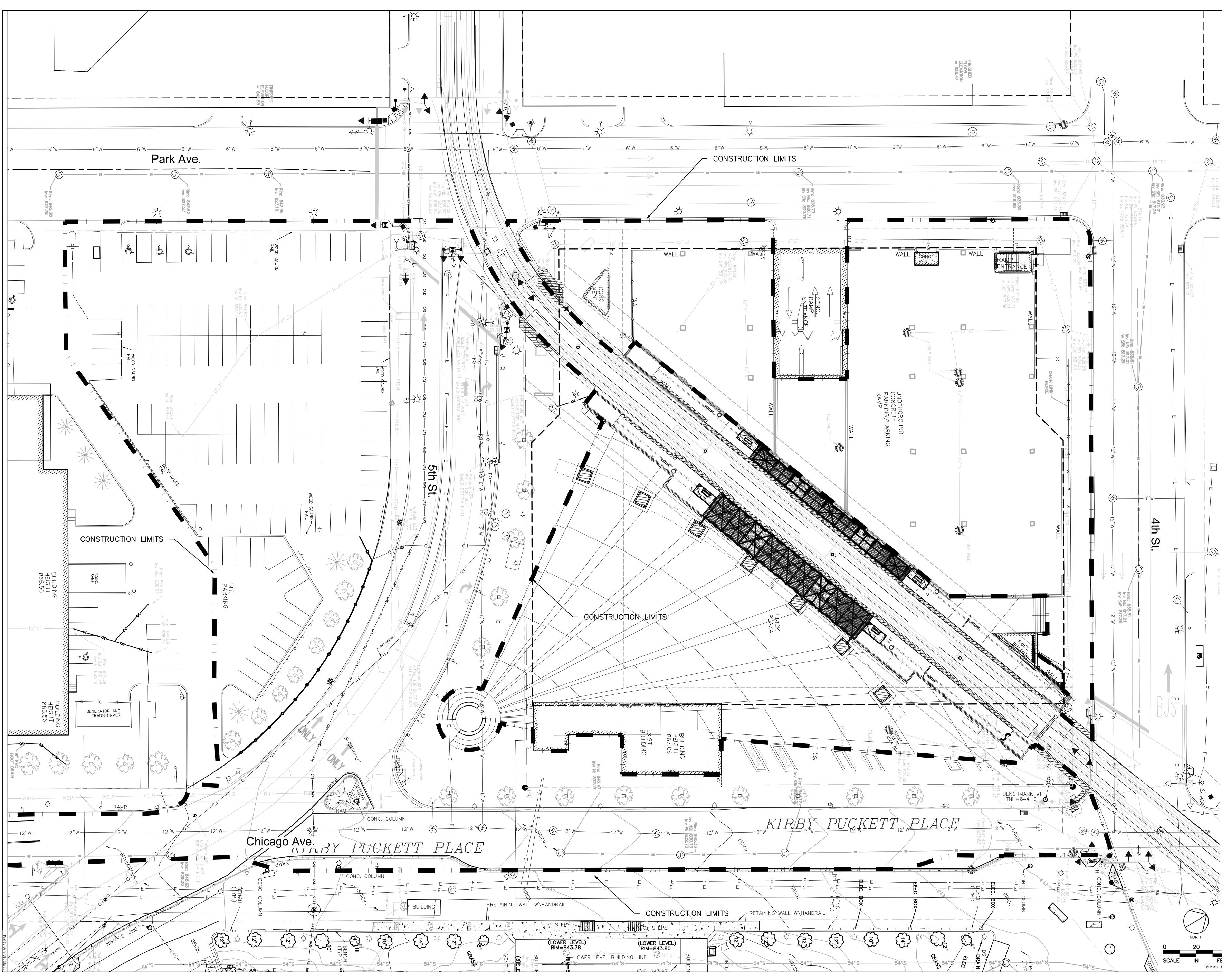




SHEET TITLE INDEX SHEET -VOLUME 1 WEST PLAZA SHEET NO.

A9.01A

CCD-347 - CD SET





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LANDSCAPE ARCHITECT OSLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401

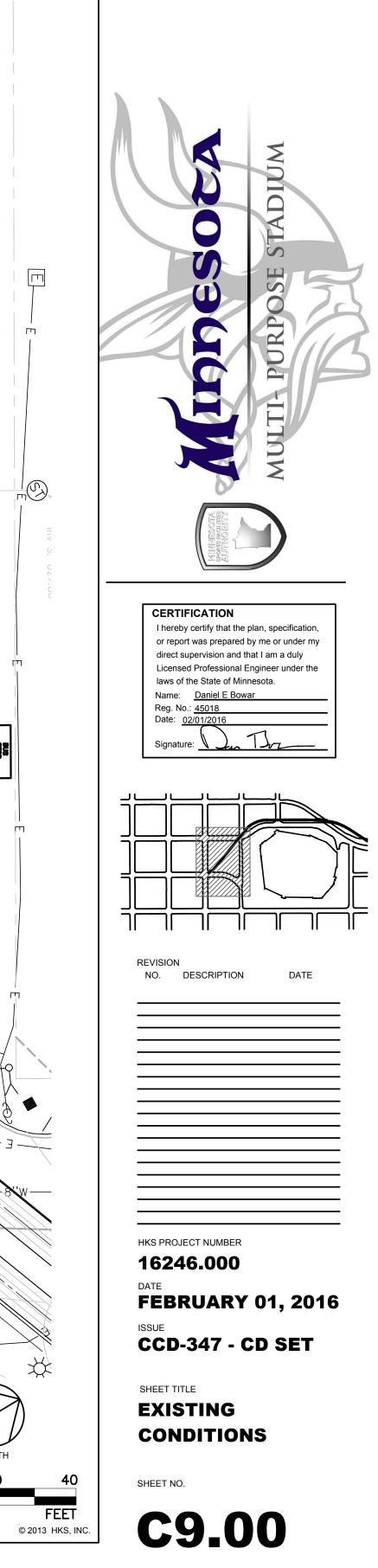
STRUCTURAL ENGINEER SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343

ELECTRICAL ENGINEER SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343

AUDIO VISUAL CONSULTANTS WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244

WAYFINDING

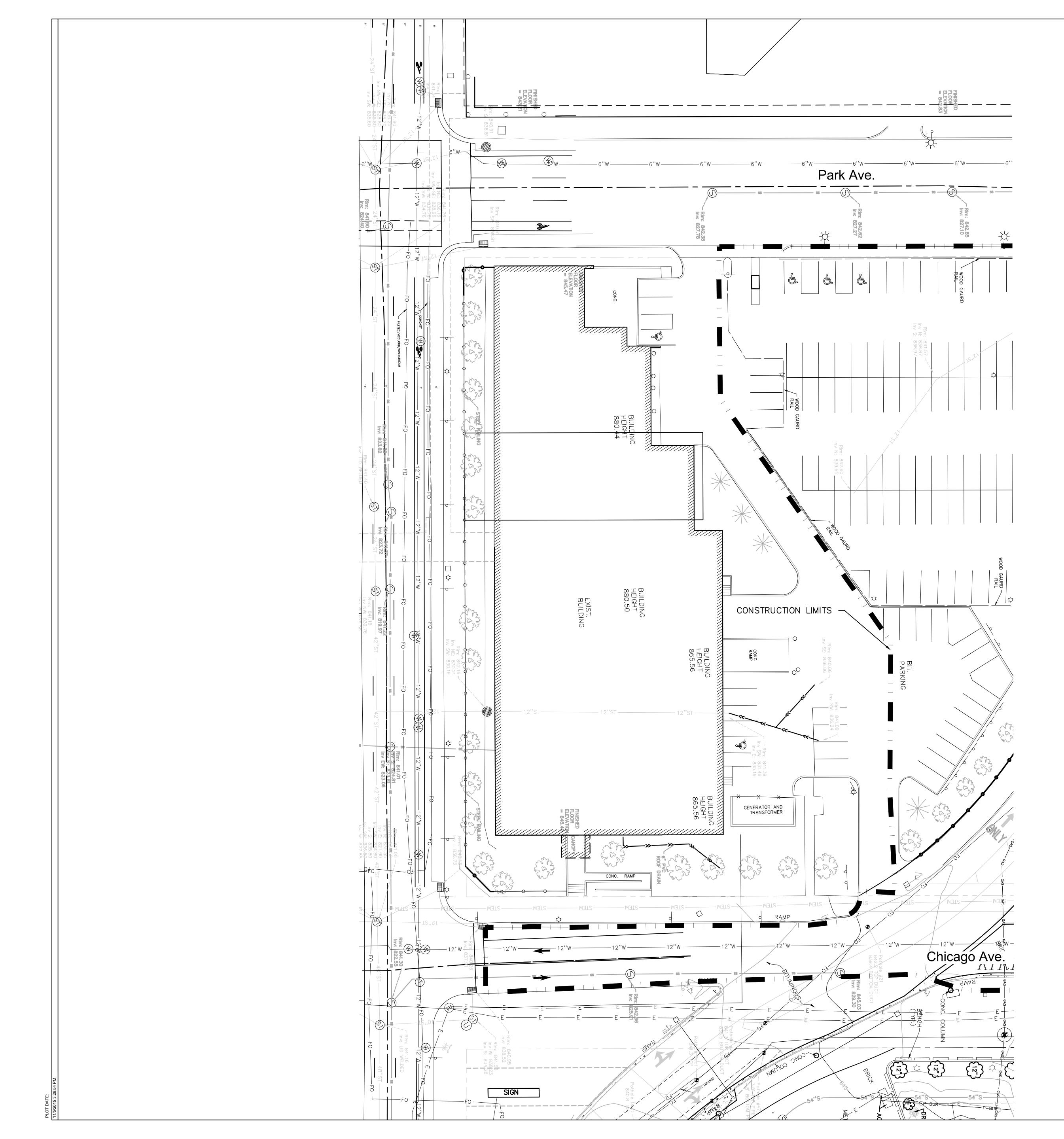
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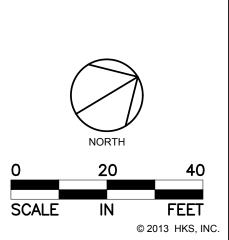


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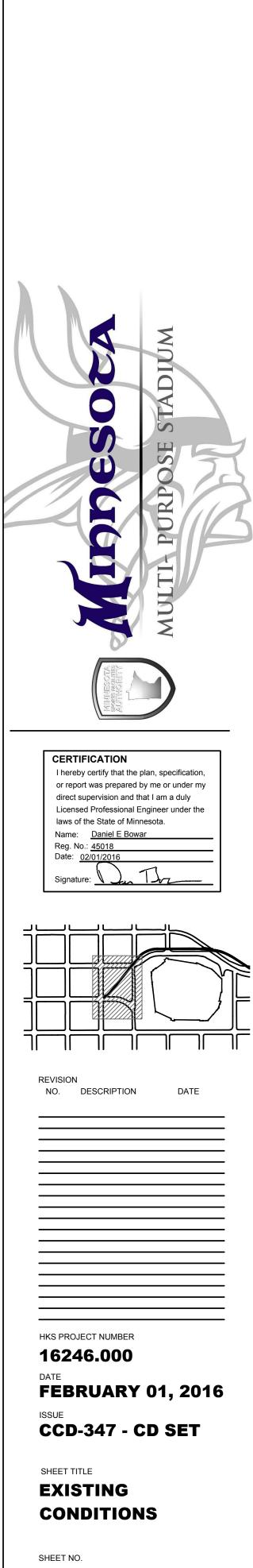
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WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244 WAYFINDING

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**C9.01** 

- MATERIAL AND ITEMS REMOVED AS PART OF THE DEMOLITION AND EXCAVATION SHALL BE DISPOSED OF OR RECYCLED AT LICENSED DISPOSAL OR RECYCLING FACILITIES COMPLYING WITH LOCAL, STATE AND FEDERAL **REGULATIONS. ALSO COMPLY WITH SPECIFICATION** SECTION 017420 "LEED CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL"
- UNDERGROUND UTILITIES TO BE REMOVED AS NOTED. SEE ELECTRICAL SITE DEMO PLAN FOR ELECTRICAL AND COMMUNICATION REMOVALS.
- GAS PIPE REMOVAL OR ABANDONMENT TO BE COORDINATED WITH GAS UTILITY PROVIDER.
- . CONTRACTOR SHALL REMOVE UTILITY POLES AFTER ALL
- UTILITIES HAVE BEEN RELOCATED OFF OF THE POLES REMOVE UTILITIES AS NOTED ON PLAN. STORM SEWER SHALL BE REMOVED TO THE STRUCTURE AND HOLE FILLED PER CITY REQUIREMENTS. PERMITS FROM THE CITY TO DISCONTINUE THE DOMESTIC AND FIRE WATER SERVICE CONNECTIONS WILL BE REQUIRED. PER CITY POLICY THE SERVICE TAPS WILL BE DISCONTINUED BY THE CITY AT CONTRACTOR EXPENSE. THE RESULTANT ABANDONED SERVICE LINES FROM THE DISCONTINUED TAP TO THE STRUCTURE SHALL BE.REMOVED BY THE CONTRACTOR REMOVAL OF THE TAP MANHOLES SHALL BE PER CITY REQUIREMENTS.
- XCEL ENERGY DISCONNECT: CONTACT DAN MESSNER @ (612)630-4167 TO SCHEDULE THE SECONDARY DISCONNECTS AND REMOVING THE PAD-MOUNT TRANSFORMER. A 2-3 WEEK LEAD TIME IS NEEDED. CALL BUILDERS' CALL LINE @ 1-800-628-2121 TO SCHEDULE REMOVAL OF THE METERS AT THE DOME. UNDERGROUND UTILITIES TO BE REMOVED AS NOTED.
- CENTER POINT ENERGY DISCONNECTS: CALL COMMERCIAL SERVICE HOT LINE NUMBER AT (612)321-5123. CALL 2-3 WEEKS PRIOR TO NEEDING THE WORK COMPLETED. THEIR FIELD SERVICES DEPARTMENT WILL TAKE CARE OF THE REQUIRED PERMITS FROM THE CITY. THE FIELD SERVICES DEPARTMENT WILL ABANDON THE SERVICE AND METERS AS NEEDED. GAS PIPE REMOVAL OR ABANDONMENT TO BE COORDINATED WITH CENTER POINT ENERGY. THERE ARE CURRENTLY 3 GAS SERVICES FEEDING THE EXISTING METRODOME. TWO ARE OFF 6TH ST AND ONE IS OFF CHICAGO (KIRBY PUCKETT PLACE). THE ONE OFF CHICAGO IS 1" STEEL OPERATING AT 90 PSIG. OFF 6TH ST THERE IS A 5/8" PLASTIC AND A 1" STEEL BOTH OPERATING AT 90 PSIG. THE OPTION EXISTS OF CUTTING THESE IN THE BOULEVARDS IF THERE'S A CHANCE THEY COULD BE USED AGAIN OR AT THE MAIN IF THEY WON'T BE USED FOR THE NEW STADIUM.
- PERMITS FROM THE CITY TO DISCONTINUE THE DOMESTIC AND FIRE WATER SERVICE CONNECTIONS WILL BE REQUIRED. PER CITY POLICY THE SERVICE TAPS WILL BE DISCONTINUED BY THE CITY AT CONTRACTOR EXPENSE. THE RESULTANT ABANDONED SERVICE LINES FROM THE DISCONTINUED TAP TO THE STRUCTURE SHALL BE.REMOVED BY THE CONTRACTOR. REMOVAL OF THE
- TAP MANHOLES SHALL BE PER CITY REQUIREMENTS. PERMITS FOR DOMESTIC AND FIRE WATER SERVICE DISCONNECTS ON 6TH STREET CAN BE OBTAINED FROM THE MINNEAPOLIS UTILITIES CONNECTIONS INSPECTION OFFICE. CONTACT BRAD BLACKHAWK AT 612-673-2451.THE WATER CONNECTIONS FOR FIRE AND DOMESTIC ON 6TH WILL REQUIRE EXCAVATION AND REMOVAL OF MANHOLE PLUS PREPARATION OF EXCAVATION FOR CITY TO FACILITATE REMOVAL OF THE TAP SLEEVE AND VALVE. THE MINNEAPOLIS WATER NIGHT CREW WILL SHUTDOWN THE WATER, CUT OUT THE TAP SLEEVE AND VALVE, AND SLEEVE IN A NEW PIECE OF PIPE. THE CONTRACTOR SHALL BACKFILL AND REPAIR STREET. THE COST FOR THIS WILL **BE INCLUDED IN THE PERMIT**

PERMIT FOR FIRE WATER SERVICE DISCONNECT ON 11TH AVENUE: CAN BE OBTAINED FROM THE MINNEAPOLIS UTILITIES CONNECTIONS INSPECTIONS OFFICE. CONTACT BRAD BLACKHAWK AT 612-673-2451. THE CONTRACTOR MUST EXCAVATE AND PULL THE MANHOLE TOP AND MINNEAPOLIS WATER WILL SHUT DOWN THE WATER MAIN, CUT OUT THE VALVE, AND PLUG THE TEE. THE CONTRACTOR WILL THEN ABANDON MANHOLES BY EXCAVATING AROUND MANHOLE AS REQUIRED AND USE

- EITHER PROCEDURE BELOW: a. REMOVE MANHOLE AND FILL TO WITHIN 12-INCHES (300 MM) OF TOP WITH AN APPROVED MATERIAL AND COMPACTED TO MEET DENSITY REQUIREMENTS OF MN/DOT SPECIFICATION 2105. FILL TO TOP WITH
- CONCRETE REMOVE TOP OF MANHOLE DOWN TO AT LEAST 60 INCHES (1524 MM) BELOW FINAL GRADE. FILL TO WITHIN 12-INCHES (300 MM) OF TOP WITH AN APPROVED MATERIAL AND COMPACTED TO MEET DENSITY REQUIREMENTS OF MN/DOT SPECIFICATION 2105. FILL TO TOP WITH CONCRETE.
- 11. SANITARY SEWER DISCONNECTS: OBTAIN PERMITS FROM MINNEAPOLIS UTILITY CONNECTION INSPECTIONS OFFICE. CONTACT BRAD BLACKHAWK AT (612)673-2451. ALL SANITARY SEWER LINES AND MANHOLES ABANDONED AS PART OF THE PROJECT WITHIN THE CITY RIGHT OF WAY ARE TO BE COMPLETELY REMOVED BY THE CONTRACTOR IN LIEU OF COMPLETELY REMOVING THE STRUCTURE, THE CONTRACTOR MAY ABANDON THE STRUCTURE IN PLACE IF APPROVED BY THE CITY. ABANDONMENT OF A MANHOLE INCLUDES INSTALLING BULKHEADS IN ALL INLET AND OUTLET PIPES AND REMOVAL OF THE BOTTOM OF THE MANHOLE. IN ADDITION. THE TOP FIVE FEET MUST BE FILLED WITH AN APPROVED MATERIAL AND COMPACTED TO MEET THE DENSITY REQUIREMENTS OF MN/DOT **SPECIFICATION 2105**
- 12. COMCAST DISCONNECTS: TWO WEEK NOTICE FOR THE REMOVAL OF COMCAST EQUIPMENT IN VARIOUS LOCATIONS AROUND THE METRODOME IS REQUIRED. THE REMOVAL WILL TAKE ABOUT ONE DAY. THE FIBER OPTIC CABLE FEEDING TO THE DOME WILL EITHER BE DISCONNECTED AT A SPLICE CASE ON 6TH ST S. AND THE DEAD FIBER CUT OFF WHERE IT LEAVES THE METRODOME OR CUT OFF AT THE FIBER OPTIC NODE IN THE METRODOME AND PULLED BACK OUT OF THE DEMOLITION AREA.
- 13. CENTURYLINK DISCONNECTS: CONTACT ERIC FREESE, AT (612)381-5940 TO ARRANGE THE COMMUNICATIONS SERVICE DISCONNECTIONS. TWO WEEKS LEAD TIME IS REQUIRED. THEY HAVE EQUIPMENT IN THE BUILDING THAT WILL NEED TO BE ACCOUNTED FOR IN THEIR SYSTEMS AND ALL OF THE CUSTOMER NUMBERS AND CIRCUITS HAVE TO BE DISCONNECTED IN THEIR SYSTEMS AS WELL
- 14. MIDWEST FIBER NETWORKS (MWFN). AKA GROUP TELECOM, AKA MIDWEST NETWORK DEVELOPMENT **REQUIRES 2 WEEK MINIMUM NOTICE TO REMOVE AND** SECURE FACILITIES PRIOR TO DEMOLITION. CONTACT IS RICHARD TRGOVEC AT 414-459-3554 OR 414-672-5612 RTRGOVEC@MIDEWSTFIBERNETWORKS.COM GROUP TELECOM CAN BE REACHED AT 1-866-760-9201

- 15. STEAM LINES DISCONNECT: CONTACT THE N CENTER MINNEAPOLIS FOR EMERGENCIES C **OPERATIONAL QUESTIONS 24 HOURS A DAY** (612)349-6087. NRG OWNS THE PIPING INTO T UP TO THE SERVICE ISOLATION VALVES.ALTH ALSO OWNS THE METERS, INSTRUMENTS AN EQUIPMENT IN THE BUILDING, TAGS AND STIC PLACED ON NRG OWNED EQUIPMENT FOR ID THE TAG ALSO INCLUDES THE 24 HOUR CON ALL PIPING WITHIN THE BUILDING, DOWNSTR SERVICE ISOLATION VALVES IS OWNED BY TH IF PLANNED WORK WILL AFFECT THE NRG PIF THE BUILDING, CONTRACTOR IS REQUESTED MR. CARL JAUCH AT 612-436-4112. ALSO CON JAUCH FOR REMOVAL OF THE STEAM PIPING.
- 16. CHILL LINES DISCONNECT: CONTACT CRAIG I 612-596-7503 OR E-MAIL AT CRAIG.R.LUNDMARK@CO.HENNEPIN.MN.US N COUNTY 4 WEEKS IN ADVANCE OF START OF

## GENERAL UTILITY NOTES

- 1. COMPLIANCE WITH MN STATUTE 216.D FOR L LOCATIONS AND SAFETY SHALL BE REQUIRE 2. PERMITS FROM THE CITY OF MINNEAPOLIS F WATER AND SANITARY SEWER SERVICES SH REQUIRED. CONTACT BRAD BLACKHAWK, MI UTILITIES CONNECTIONS INSPECTIONS OFFIC (612)673-2451.COMPLIANCE WITH, OR AN APP VARIANCE OF, CITY REQUIREMENTS FOR SEF CONNECTIONS SHALL BE REQUIRED. THE 16' DOMESTIC AND 16"X8" FIRE TAPS MUST EACH IN A 60" CONCRETE PRECAST MANHOLE IN A WITH MINNEAPOLIS STANDARD PLATE WATR CONTRACTOR MUST OBTAIN THE PERMITS, I PURCHASE AND SET THE MANHOLES, BACKF RESTORE SURFACE IF NECESSARY. MINNEAF WILL SUPPLY THE TAPPING SLEEVES AND VAI INSTALL THE SAME AFTER THE CONTRACTOR THE HOLES.
- COMPLIANCE WITH CITY SPECIFICATIONS FO VALVES, PIPES, MANHOLES AND OTHER WAT SEWER APPURTENANCES SHALL BE REQUIRE 4. COMPLIANCE WITH, OR APPROVED VARIANCE
- PROVIDER COMPANIES SERVICE CONNECTIO REQUIREMENTS SHALL BE REQUIRED. COORDINATION, BEFORE AND DURING CONS WITH UTILITIES IMPACTED OR POTENTIALLY
- CONSTRUCTION ACTIVITIES IS REQUIRED TO PROTECTION OF THE FACILITIES. 6. NEW GAS SERVICE: CONTACT CENTER POINT **REPRESENTATIVE, MARK SPANTON AT (612)8** SEND E-MAIL TO
- MARK.SPANTON@CENTERPOINTENERGY.CO POINT ENERGY WILL INSTALL THE NATURAL ( LINE(S) AND METER(S) TO THE NEW STADIUM EXISTING NATURAL GAS MAINS. THEY WILL IN METER ON AN OUTSIDE WALL OF THE STADIL POSSIBLY INSTALL THE METER ON THE INSID THE STADIUM PROVIDED THERE IS SUFFICIEN THE WALL THAT THEY WOULD PENETRATE FOR THE METER INSTALLATION WOULD NEED TO BE AN OUTSIDE WALL. THE MECHANICAL CONTRACTOR WOULD THEN PIPE FROM THEIR NATURAL GAS METER TO THE
- EQUIPMENT/APPLIANCES NEEDED FOR THE STADIUM. HYDRANT USE PERMITS MUST BE OBTAINED BY THE CONTRACTOR FROM THE CITY OF MINNEAPOLIS WATER DEPARTMENT FOR USING WATER FROM A HYDRANT FOR DEMOLITION OR OTHER PURPOSES. CALL (612) 673-2865 TO OBTAIN A PERMIT

	EXIST	ING SURV	/EY NOTES				STO
NRG ENERGY OR AT THE BUILDING	<ol> <li>BACKGROUND INFORMATION TAKEN FROM TOPOGRAPHIC SURVEY PERFORMED BY EVS, EDEN PRAIRIE MN, ON APRIL 15, 2013, EXPRESSLY FOR THIS PROJECT. ADDITIONAL INFORMATION WAS PROVIDED BY RECORD DRAWINGS.</li> </ol>					1.	
HOUGH NRG ND TELEMETRY ICKERS ARE DENTIFICATION.	UTILITY LOCATIONS TO BE FIELD VERIFIED PRIOR TO EXCAVATION / CONSTRUCTION. IF ANY DISCREPANCIES ARE NOTED, THE ENGINEER SHOULD BE IMMEDIATELY NOTIFIED FOR RESOLUTION.						
ITACT NUMBER. REAM OF THE THE BUILDING. IPING OUTSIDE D TO CONTACT	<ol> <li>UNDERGROUND UTILITIES SHOWN TO BE REMOVED, BUT ARE NOT IN CONFLICT WITH NEW CONSTRUCTION, MAY BE ABANDONED IN PLACE, PLUGGED AND GROUTED FULL IN LIEU OF REMOVAL.</li> </ol>						3. 4.
NTACT CARL	LI		INOVAL.				4.
g. Lundmark	<ol> <li>ADDITIONAL EASEMENTS MAY BE REQUIRED FOR UTILITIES, ROADS, PATHS, ETC.</li> </ol>				ILITIES,	5.	
NOTIFY THE F DEMOLITION.	<ol> <li>BASIS OF BEARINGS: FOR THE PURPOSES OF THIS SURVEY THE SOUTH LINE OF BLOCK 74, TOWN OF MINNEAPOLIS, IS ASSUMED TO HAVE A BEARING OF S59°08'56"E.</li> </ol>				6.		
UTILITY ED. FOR NEW HALL BE IINNEAPOLIS ICE AT PROVED ERVICE 6"X12" H BE HOUSED	HC N/ M VI <u>BE</u> NI SI	AD83 (200 INNESOT ERTICAL: <u>ENCH MA</u> E QUAD @ E QUAD @		DNFORMAL ERIDIAN. GR	CONIC,	ANCE. 841.71 832.24	7.
CCORDANCE R-2005A-R1. THE	CONTROL POINT DATA						
DIG THE HOLES, FILL, AND	POINT	NUMBER	FULL DESCRIPTION	NORTHING	EASTING	ELEVATION	
		102	CP 102	166581.880	533275.315	831.530	
ALVES AND R EXCAVATES		103	CP 103	165844.431	532810.893	834.950	8.
		106	CP 106	167174.351	532438.040	840.740	
OR HYDRANTS, TER AND		110	CP 110	166357.245	533216.642	831.520	9.
RED.		111	CP 111	166102.683	533087.806	835.320	
CE OF, UTILITY ON		112	CP 112	165950.121	532975.896	833.790	10.
		113	CP 113	166174.789	532152.402	838.660	
STRUCTION, IMPACTED BY		114	CP 114	165952.463	532503.257	836.630	
DENSURE		115	CP 115	166444.328	531831.559	841.510	
T SALES		116	CP 116		531943.667		
861-8474 OR				166784.580		847.700	11.
DM. CENTER		117	CP 117	166967.143	532047.457	845.230	
GAS SERVICE		118	CP 118	167108.023	532132.936	841.800	12.
M FROM THEIR		119	CP 119	167057.146	532679.333	835.350	
NSTALL THE UM, AND OR,		120	CP 120	166859.395	532982.556	833.220	10
DE WALL OF		121	CP 121	166484.792	531767.425	840.980	13.
ENT SPACING. FOR THE METER		201	CP ABBOT (MNDOT)	163570.854	529491.828	856.530	

CP CHOP (MNDOT)

202

203

170395.059 524490.486

CP TEATER (MNDOT) | 166752.969 | 534551.756

833.299

839.455

FORM SEWER NOTES

- APPLY AND ACQUIRE NPDES PERMIT. CONTRACT FOLLOW ALL REQUIREMENTS WITHIN STORM WAT POLLUTION PREVENTION PLAN (SWPPP).
- INSTALL EROSION CONTROL AND TREE PROTECT PERIMETER OF SITE. SEE EROSION CONTROL PLAI TYPICAL.
- INSTALL EROSION CONTROL AND TREE PROTECT PERIMETER OF SITE. SEE EROSION CONTROL PLAI TYPICAL.
- PROCEED WITH SITE DEMOLITION, GRADING AND CONSTRUCTION.
- MAINTAIN EROSION CONTROL BMP'S AND CONTRO REQUIREMENTS AS OUTLINED ON DRAWING AND SWPPP.
- SHOP DRAWINGS OF ALL SYSTEMS NEED TO BE A PRIOR TO CONSTRUCTION. ALL SOIL MATERIAL T SHALL BE DONE PRIOR TO INSTALLATION TO ENSU MIXTURE IS ADEQUATE FOR INFILTRATION. TESTS SUBMITTED TO ENGINEER AND APPROVED PRIOR INSTALLATION. SPECIFICATIONS INDICATE MATER REQUIRED FOR EACH SYSTEM.
- NOTIFY CIVIL ENGINEER AND OWNER OF WORK BE ON STORMWATER SYSTEMS AND THE SCHEDULE CONSTRUCTION. ALLOW A MINIMUM OF FIVE WOR FOR NOTIFICATION, SO ENGINEER CAN CONDUCT MEETING TO DISCUSS THE INTENT OF THE SYSTE CONSTRUCTION OBSERVATION CAN BE SCHEDUL ACCORDINGLY. SITE MEETING TO REVIEW THE IN THE DESIGN AND THE CONSTRUCTION OF THE SY NEEDS TO OCCUR PRIOR TO STARTING CONSTRU THE SYSTEM.
- MAINTAIN EROSION AND SEDIMENT CONTROL ON CONTRIBUTING AREAS TO AVOID CLOGGING OF S
- CONSTRUCT STORMWATER SYSTEMS PER DRAW SPECIFICATIONS.
- COMPLETE CONSTRUCTION OF PARKING AND SIDI AFTER STORMWATER SYSTEM IS INSTALLED. AFT PAVEMENT IS INSTALLED, VERIFY THAT SYSTEMS AND FULLY FUNCTIONAL. VACUUM AND CLEAN S' NEEDED SO THEY ARE FULLY FUNCTIONAL AT PRO CLOSEOUT.
- INSTALL LANDSCAPING AND PLANTING MATERIAL DRAWINGS AND SPECIFICATIONS.
- REMOVE ALL TEMPORARY EROSION CONTROL BM PAVING AND INFILTRATION AREAS ARE COMPLETE AFTER TURF HAS BEEN ESTABLISHED.
- CONTRACTOR SHALL TAKE PHOTOGRAPHS AND MEASUREMENTS OF ALL STORMWATER MANAGEN SYSTEMS THROUGHOUT CONSTRUCTION. DOCUM OF CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER AT THE CLOSEOUT OF THE PROJECT. DOCUMENTATION SHALL INCLUDE PHOTOGRAPH MEASUREMENTS OF SYSTEM DURING CONSTRUC TESTING REPORTS AND OBSERVATIONS AND RED DRAWINGS OF ANY FIELD MODIFICATIONS MADE [ CONSTRUCTION.
- 14. A LETTER WRITTEN ON COMPANY LETTERHEAD T STORMWATER MANAGEMENT PRACTICES HAVE E PER THE CIVIL PLANS. OR PER REDLINE FIELD DRA SHALL BE SUBMITTED TO THE CIVIL ENGINEER AT CLOSEOUT OF THE PROJECT.
- 15. THE CONTRACTOR SHALL SUBMIT AN AS-BUILT SU THE COMPLETED SITE PREPARED AND SIGNED BY LICENSED SURVEYOR TO THE CIVIL ENGINEER AT OF THE PROJECT. AS-BUILT SURVEY SHALL INCLU ENOUGH INFORMATION TO VERIFY THE CONSTRU TOPOGRAPHY, UTILITY AND SITE ELEMENTS. COC WITH OWNER AND CIVIL ENGINEER FOR SCHEDUL WHEN THIS SHALL BE COMPLETED.
- 16. REMOVE ALL TEMPORARY EROSION CONTROL BM PAVING AND INFILTRATION AREAS ARE COMPLETE AFTER TURF HAS BEEN ESTABLISHED.
- 17. FILE NOTICE OF TERMINATION (NOT) WITH THE MPCA UPON COMPLETION OF PROJECT. SUBMIT COPY TO OWNER AND ENGINEER.

	GRADING NOTES
TOR SHALL TER	1. PROPOSED CONTOURS ARE TO FINISHED SURFACE ELEVATION. SPOT ELEVATIONS ALONG PROPOSED CURB DENOTE GUTTER GRADE.
TION ALONG ANS,	<ol> <li>CONTRACTOR SHALL REVIEW PAVEMENT GRADIENT AND CONSTRUCT "GUTTER OUT" CURB WHERE WATER DRAINS AWAY FROM CURB. ALL OTHER AREAS SHALL BE CONSTRUCTED AS "GUTTER IN" CURB.</li> </ol>
TION ALONG ANS,	3. ALL GRADIENTS ON SIDEWALKS ALONG THE ADA ROUTE SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20),
	EXCEPT AT CURB RAMPS (1:12), AND A MAXIMUM CROSS SLOPE OF 2.08% (1:48). THE MAXIMUM SLOPE IN ANY DIRECTION ON AN ADA PARKING STALL OR ACCESS ISLE SHALL BE 2.08% (1:48). THE CONTRACTOR SHALL REVIEW AND VERIFY THE GRADIENT IN THE FIELD ALONG THE ADA
	ROUTES PRIOR TO PLACING CONCRETE OR BITUMINOUS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE IS A DISCREPANCY BETWEEN THE GRADIENT IN THE FIELD VERSUS THE DESIGN GRADIENT.
SURE SOIL IS SHALL BE R TO RIALS	4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO PROPERTIES ADJACENT OR BELOW DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT
BEING DONE	PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
E OF RKING DAYS	
T SITE	5. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE
EM AND SO LED	CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE,
ITENT OF	INCLUDING SAFETY OF ALL PERSONS AND PROPERTY
YSTEM JCTION ON	DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF
	THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO
SYSTEM.	INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE
/INGS AND	CONSTRUCTION SITE.
DEWALKS TER S ARE CLEAR	6. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION IN
SYSTEMS AS ROJECT	ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
S PER	7. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE STREET AND PARKING AREA SUBGRADE, DO NOT TEST ROLL AREAS ABOVE
MP'S AFTER E AND	EXISTING PARKING GARAGE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS
MENT MENTATION E CIVIL CLOSEOUT IS AND	ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS OF THE STREET OR PARKING AREA ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
CTION, DLINE	
DURING	8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL
	THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC
BEEN BUILT RAWINGS, T THE	CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION (MN/DOT) STANDARDS.
	9. ALL RETAINING WALLS SHALL BE CONSTRUCTED PER THE DIRECTION OF THE PROJECT STRUCTURAL ENGINEER.
T THE END .UDE JCTED ORDINATE LE FOR	
MP'S AFTER E AND	

## SITE PERMITS

- 1. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT AND
- SUBMITTAL OF ALL NECESSARY PERMITS. 2. REVIEW PROJECT SPECIFICATIONS FOR ADDITIONAL
- SUBMITTAL INFORMATION.
- 3. THE BELOW PERMIT LIST IS TO AID THE CONTRACTOR BUT THE LIST IS NOT EXHAUSTIVE. 3.1. MPCA
- 3.5.1. GENERAL PERMIT FOR CONSTRUCTION ACTIVITY 3.6. CITY OF MINNEAPOLIS
- 3.6.1. DEMOLITION PERMIT
- 3.6.2. BUILDING PERMIT 3.6.3. EROSION CONTROL PERMIT
- 3.6.4. TEMPORARY ROAD CLOSURE PERMIT
- 3.6.5. LANE CLOSURE PERMIT
- 3.6.6. OBSTRUCTION PERMIT
- 3.6.7. UTILITY CONNECTION PERMITS
- 3.6.8. TEMPORARY WATER DISCHARGE PERMIT
- 3.6.9. AFTER HOURS WORK 3.6.10. RIGHT OF WAY EXCAVATION PERMIT
- 3.6.11. ENCROACHMENT PERMIT
- 3.6.12. UTILITY REPAIR PERMIT
- 3.7. MN DEPARTMENT OF TRANSPORTATION
- 3.7.1. WORK IN RIGHT OF WAY
- 3.7. MN DEPARTMENT OF NATURAL RESOURCES (DNR)
- 3.7.1. CONSTRUCTION DEWATERING DISCHARGE
- 3.8. METROPOLITAN COUNCIL 3.8.1. FOR ANY WORK ADJACENT TO THE LIGHT RAIL
- 3.9. HENNEPIN COUNTY

- 3.9.1. WORK IN RIGHT OF WAY

## 

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ð	WOOD HUB	COMM	COMMUNICAT
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TV ⊡	TELEVISION PEDESTAL		
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$\bigcirc$	SOIL BORING		
Ē	ELECTRIC MH		
ELEC	ELECTRIC PEDESTAL		
EM	ELECTRIC METER		
$\boxtimes$	TRANSFORMER		
□∞□	PARKING LIGHT		
¢	LIGHT		
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C)	UTILITY POLE		
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x<sup>910</sup> SPOT ELEVATION

**V** DECIDUOUS TREE

CONIFEROUS TREE

STUMP



MINNESOTA SPORTS FACILITIES AUTHORITY 900 SOUTH 5th STREET, MINNEAPOLIS, MN 55415 OWNER MINNESOTA VIKINGS FOOTBALL, LLC 9500 VIKING DR., EDEN PRAIRIE, MN 55344

ARCHITECT

HKS INC 350 N. ST. PAUL ST., SUITE 100, DALLAS, TX 75201 CIVIL ENGINEER

EVS INC 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT OSLUND AND ASSOCIATES

115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401 STRUCTURAL ENGINEER SEH INC.

10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 ELECTRICAL ENGINEER SEH INC

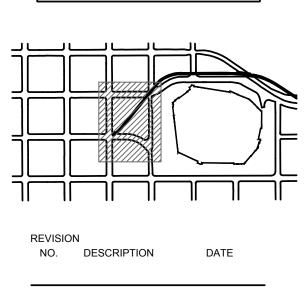
10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS W.IHW

4801 SPRING VALLEY RD., DALLAS, TX 75244 WAYFINDING SELBERT PERKINS DESIGN

432 CULVER BLVD., PLAYA DEL REY, CA 90293



Signature:



HKS PROJECT NUMBER 16246.000 **FEBRUARY 01, 2016 CCD-347 - CD SET** 

SHEET TITLE LEGEND AND NOTES

SHEET NO.

**C9.02** 

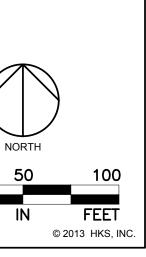
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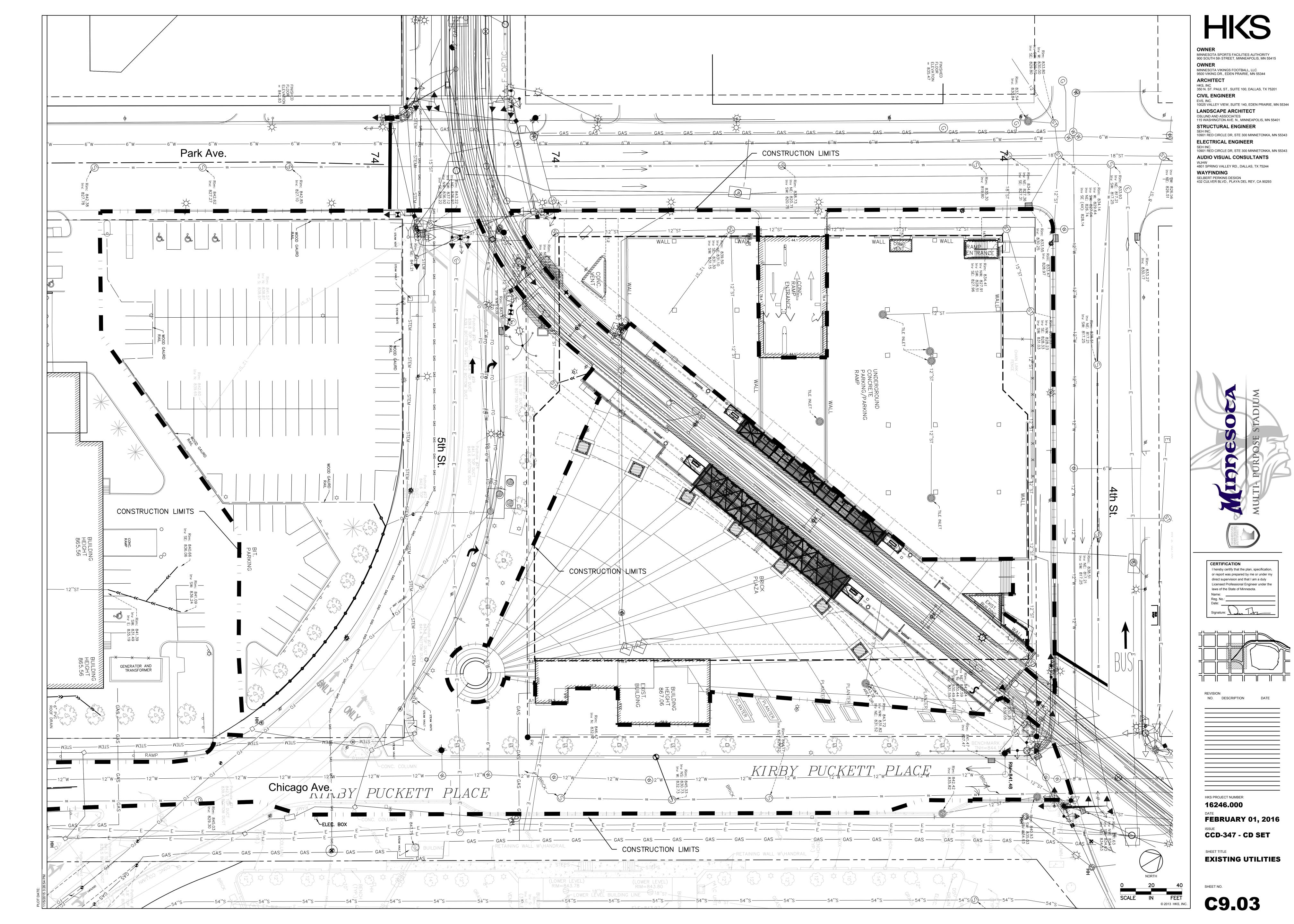
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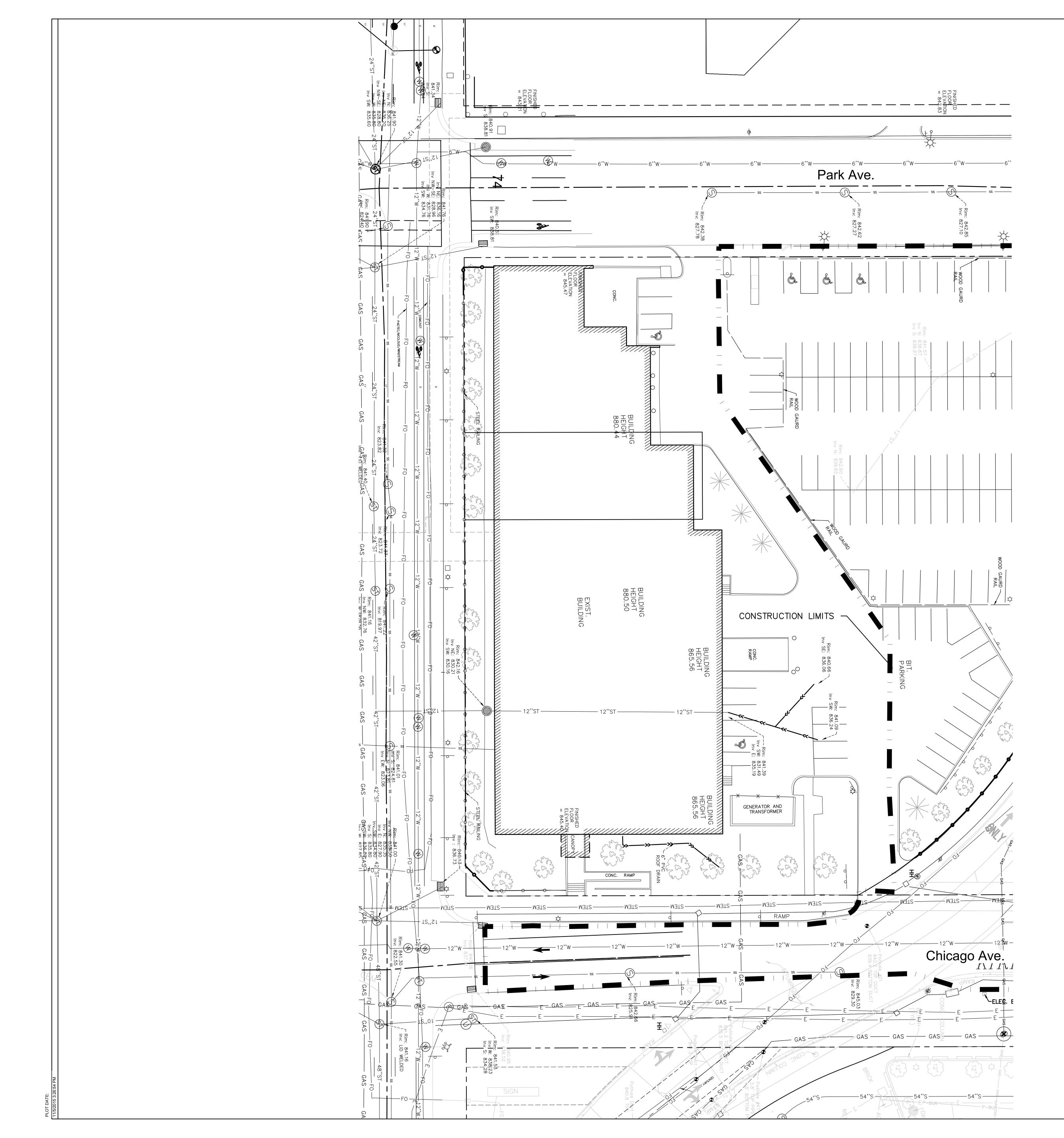
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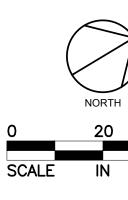
POWER UND POWER UTILITY

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ARCHITECT

HKS, INC 350 N. ST. PAUL ST., SUITE 100, DALLAS, TX 75201 **CIVIL ENGINEER** 

EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT OSLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401

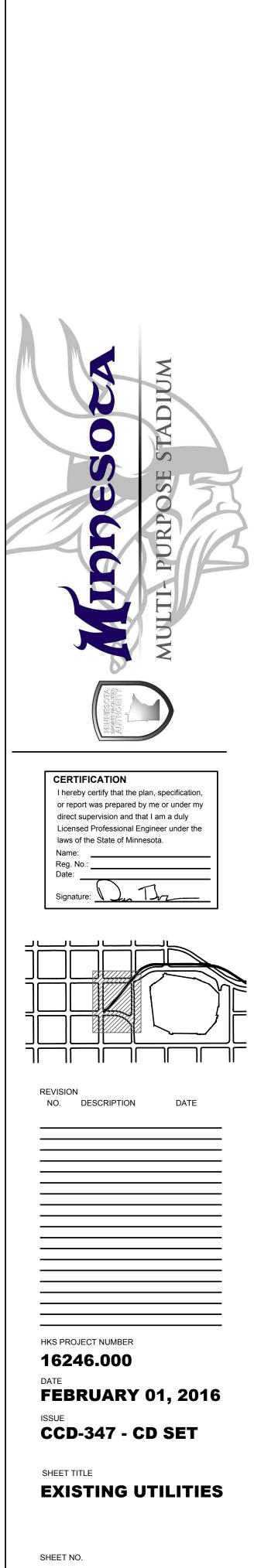
STRUCTURAL ENGINEER

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 ELECTRICAL ENGINEER

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS

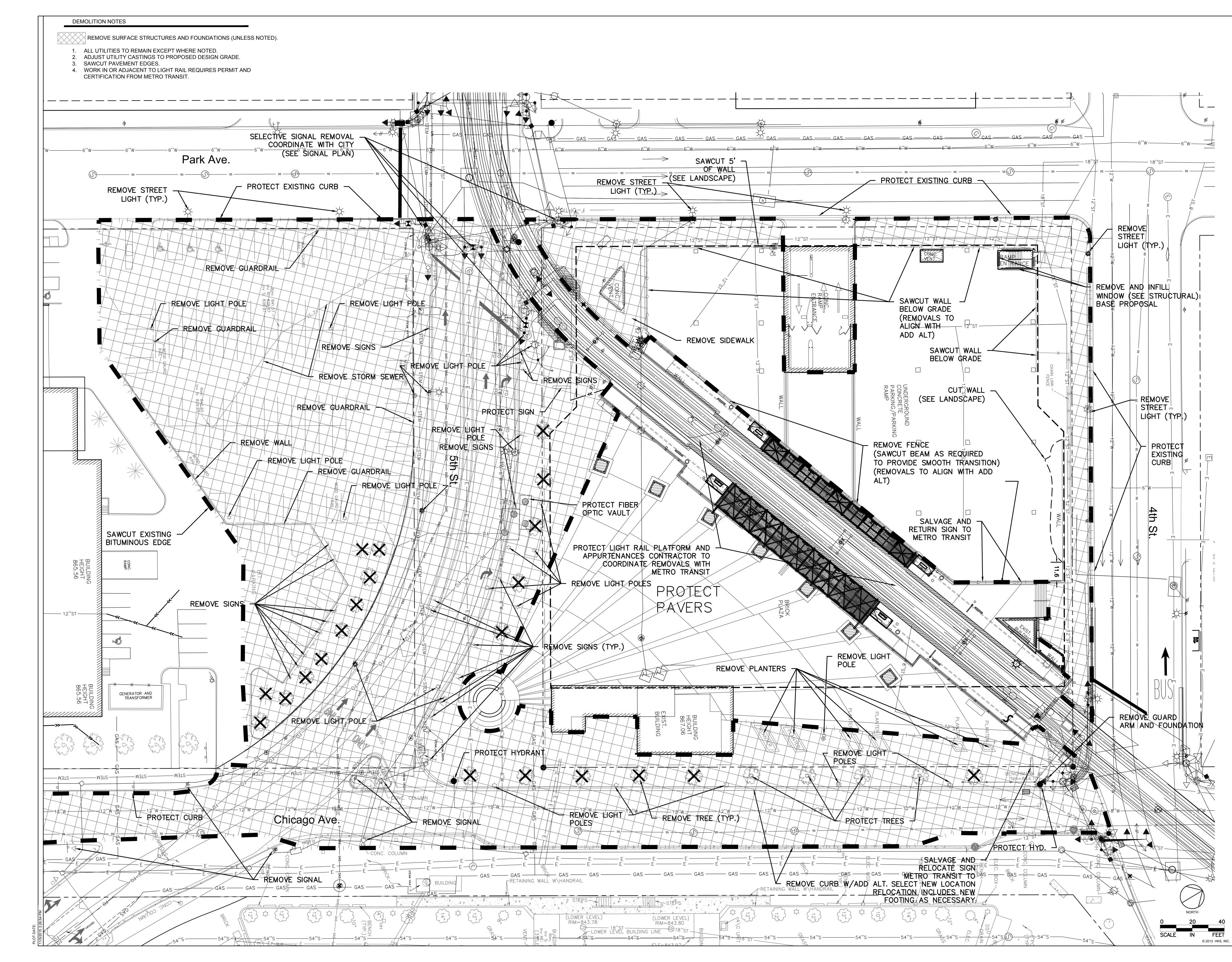
WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244 WAYFINDING

SELBERT PERKINS DESIGN 432 CULVER BLVD., PLAYA DEL REY, CA 90293



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9500 VIKING DR., EDEN PRAIRIE, MN 5534 ARCHITECT

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EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 **LANDSCAPE ARCHITECT** OSLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401

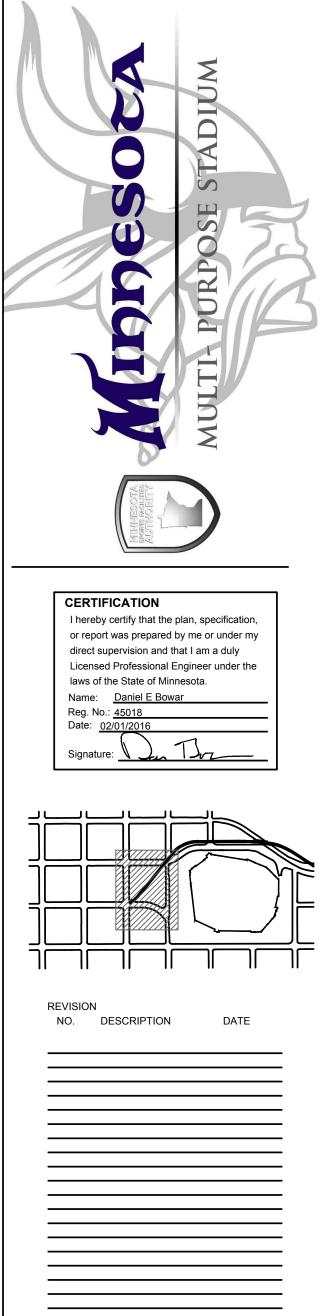
115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401 STRUCTURAL ENGINEER SEH INC.

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 **ELECTRICAL ENGINEER** SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343

10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244

4801 SPRING VALLEY RD., DALLAS, " WAYFINDING

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HKS PROJECT NUMBER

16246.000

SHEET TITLE

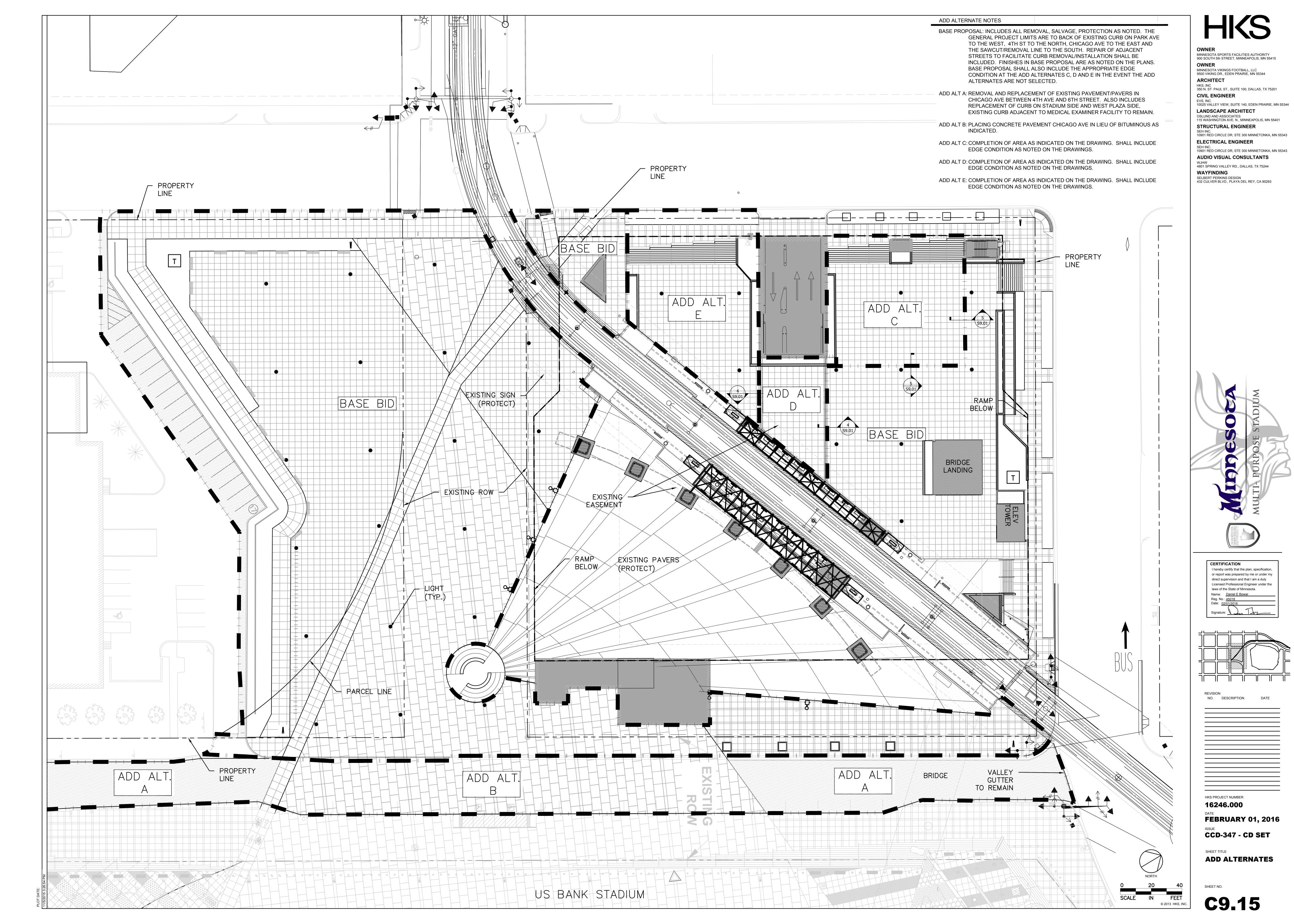
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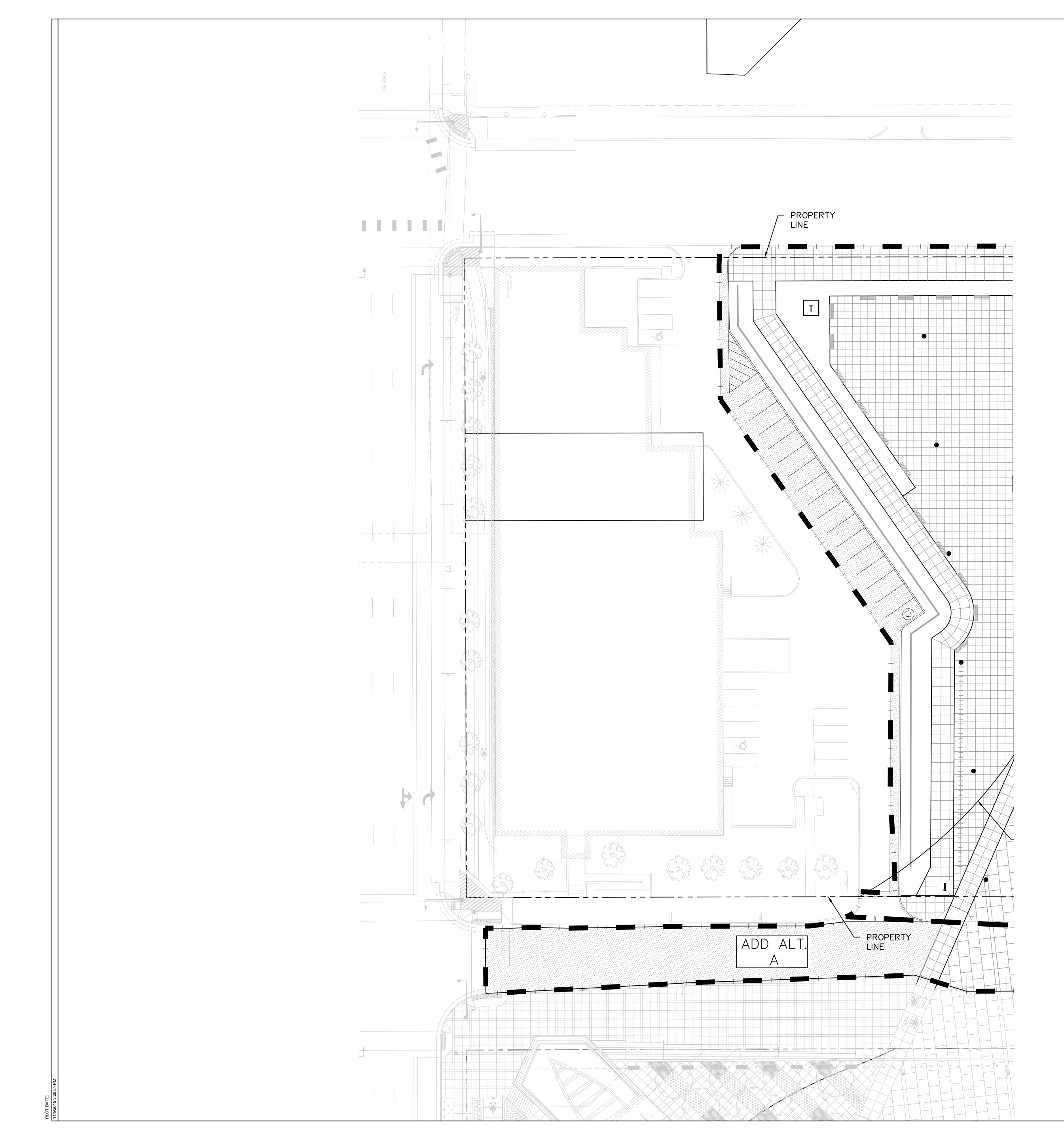
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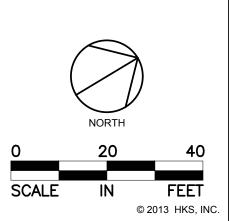
CCD-347 - CD SET

**DEMOLITION PLAN** 

**C9.10** 









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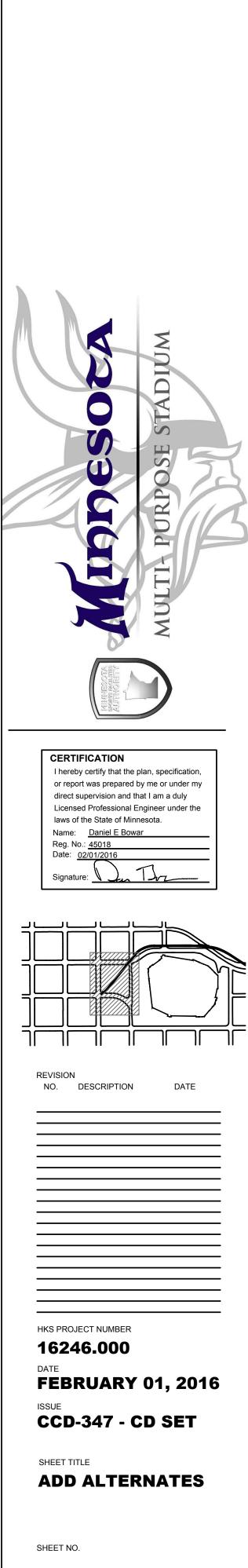
EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT OSLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401

STRUCTURAL ENGINEER

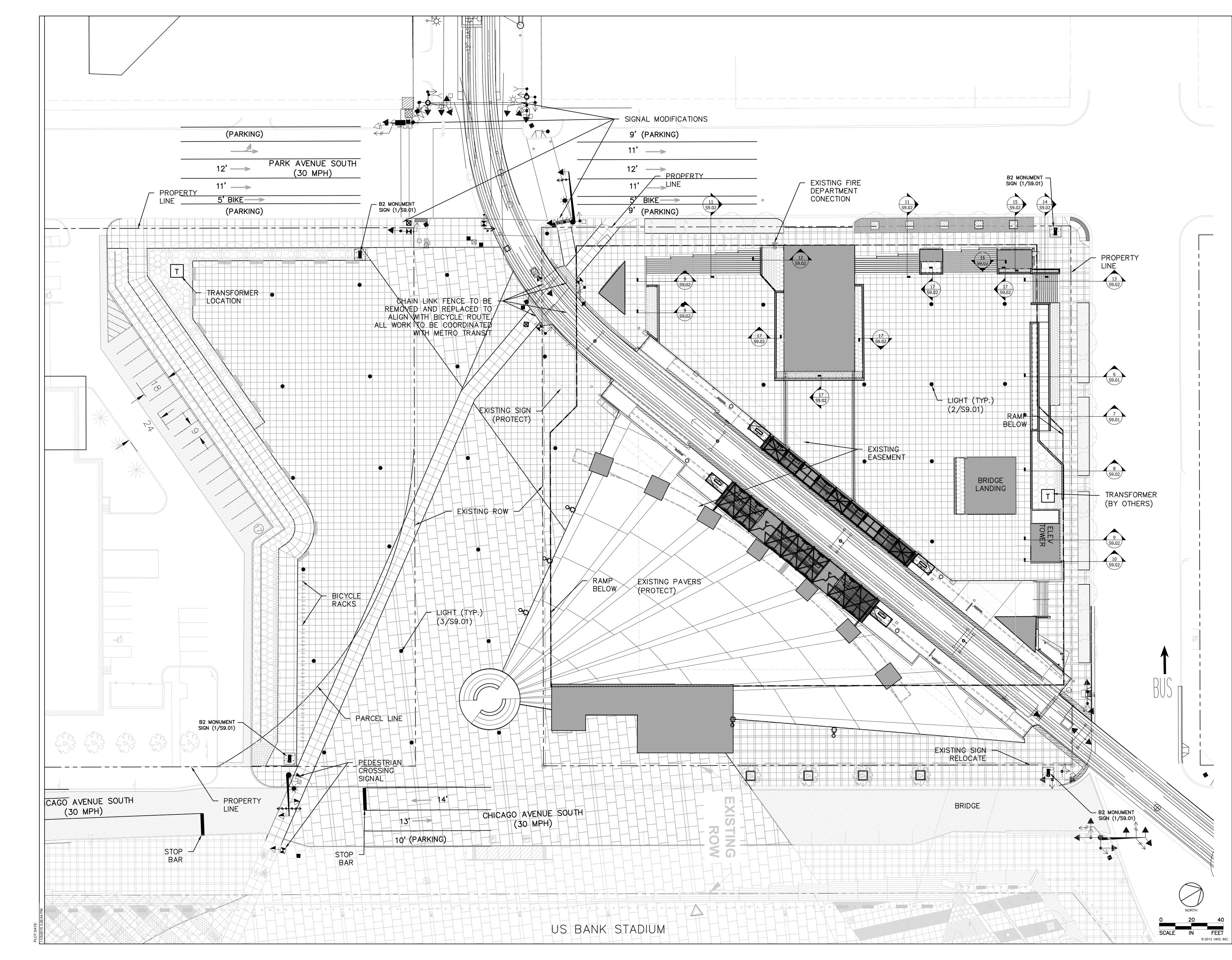
SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 ELECTRICAL ENGINEER

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244

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**C9.16** 





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EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT OSLUND AND ASSOCIATES

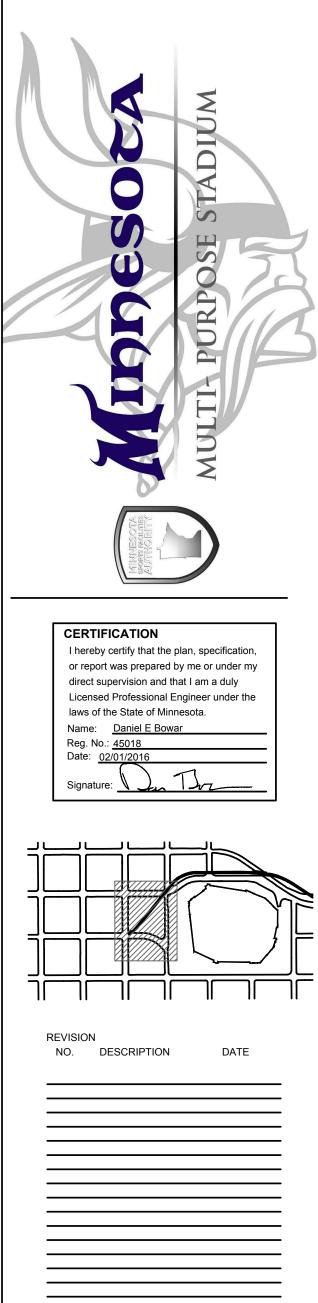
OSLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401 STRUCTURAL ENGINEER SEH INC

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 ELECTRICAL ENGINEER SEH INC.

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS WJHW

WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244 **WAYFINDING** 

SELBERT PERKINS DESIGN 432 CULVER BLVD., PLAYA DEL REY, CA 90293

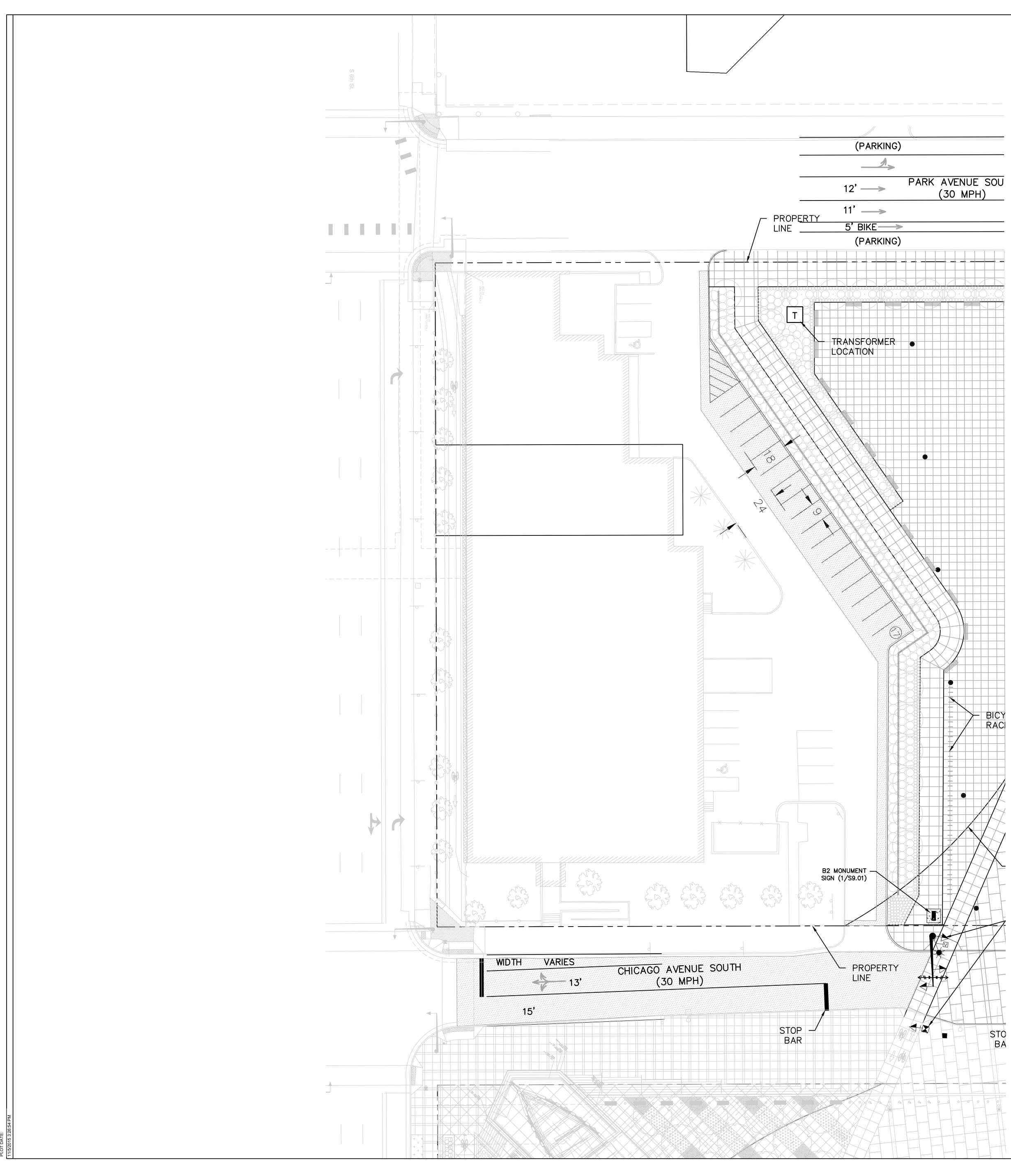


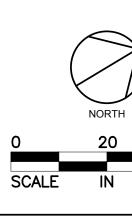
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SHEET TITLE SITE PLAN

SHEET NO.









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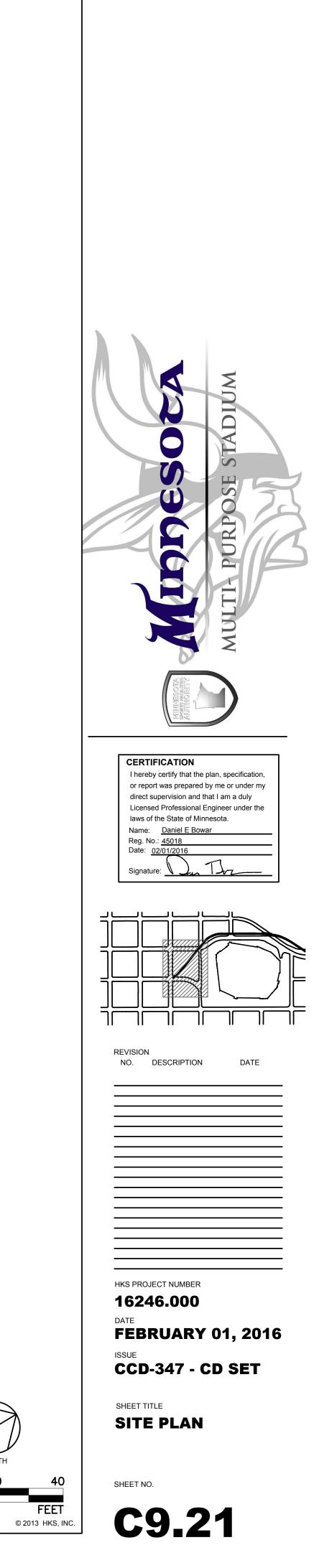
EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT OSLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401

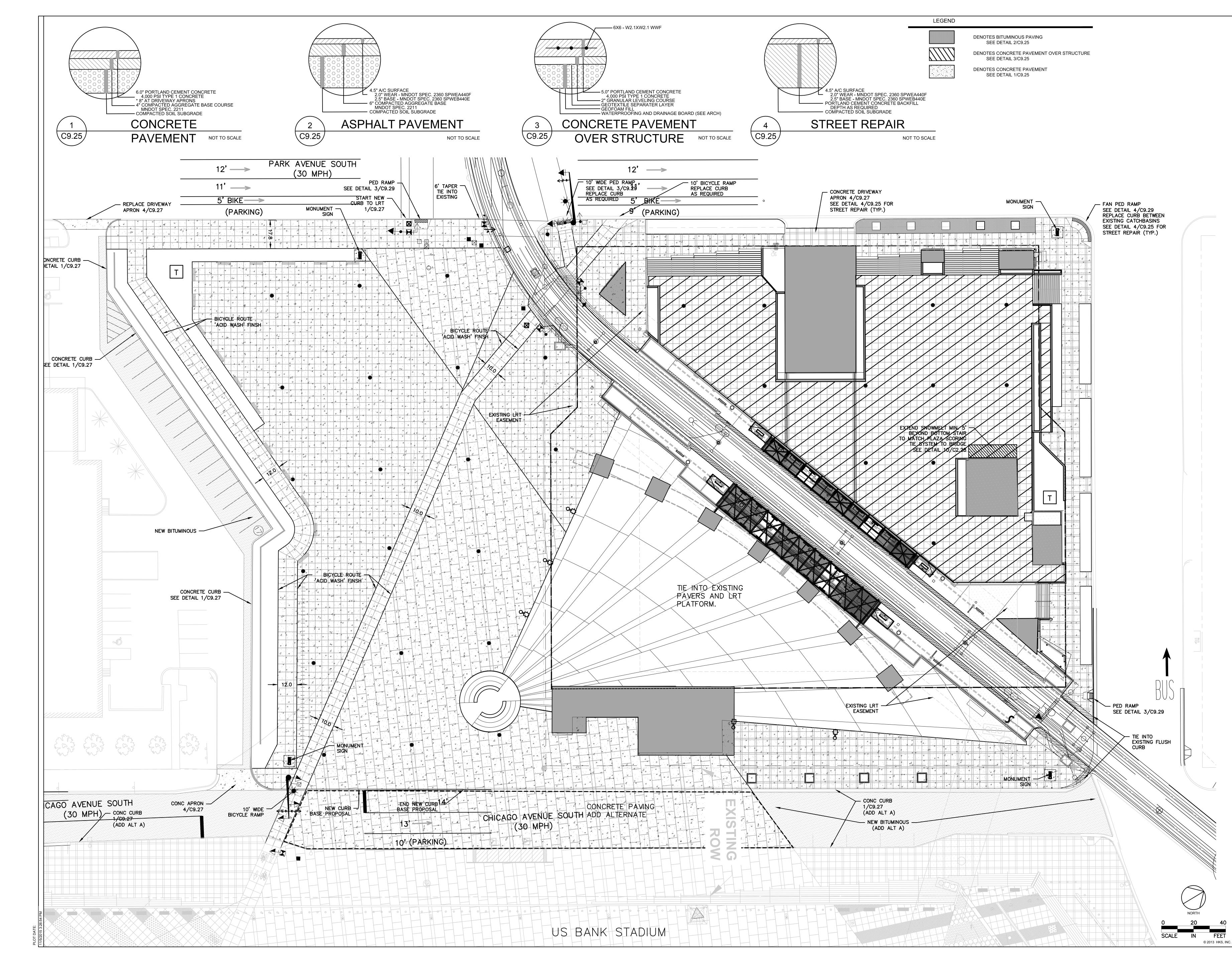
STRUCTURAL ENGINEER

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 ELECTRICAL ENGINEER

SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244

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EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT

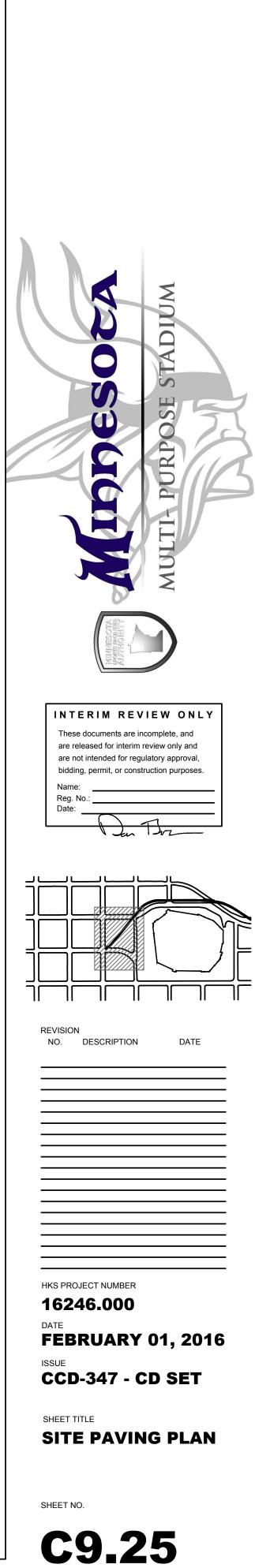
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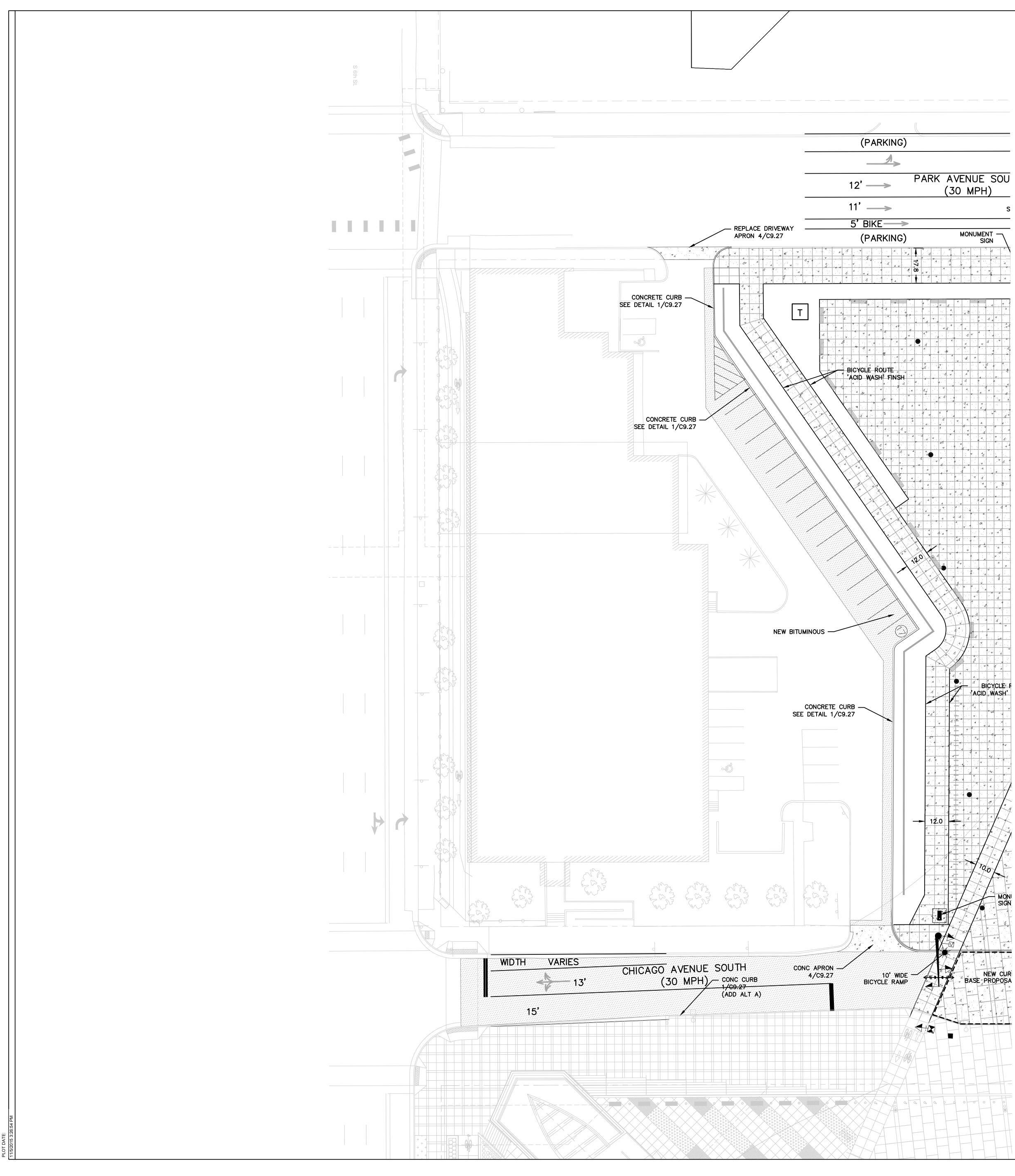
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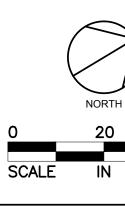
SEH INC. 10901 RED CIRCLE DR, STE 300 MINNETONKA, MN 55343 AUDIO VISUAL CONSULTANTS

WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244 **WAYFINDING** 

SELBERT PERKINS DESIGN 432 CULVER BLVD., PLAYA DEL REY, CA 90293









ARCHITECT

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EVS, INC. 10025 VALLEY VIEW, SUITE 140, EDEN PRAIRIE, MN 55344 LANDSCAPE ARCHITECT

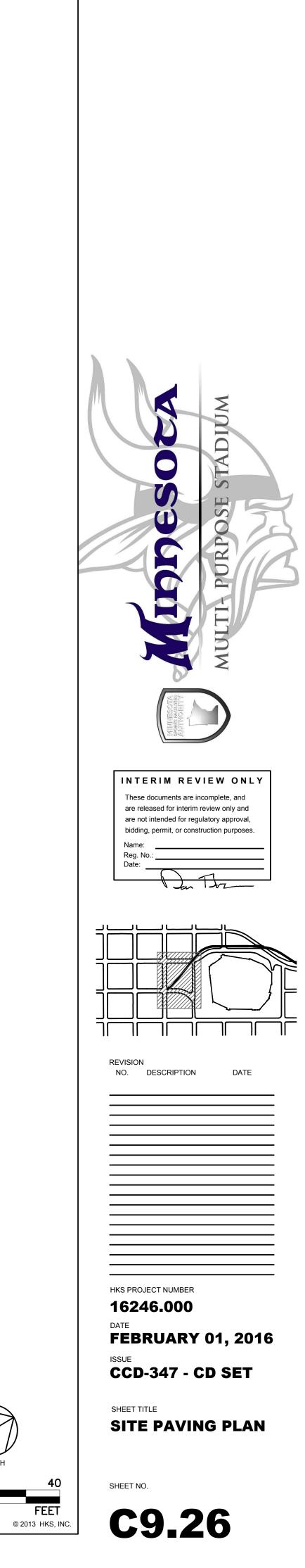
OSLUND AND ASSOCIATES 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401 STRUCTURAL ENGINEER

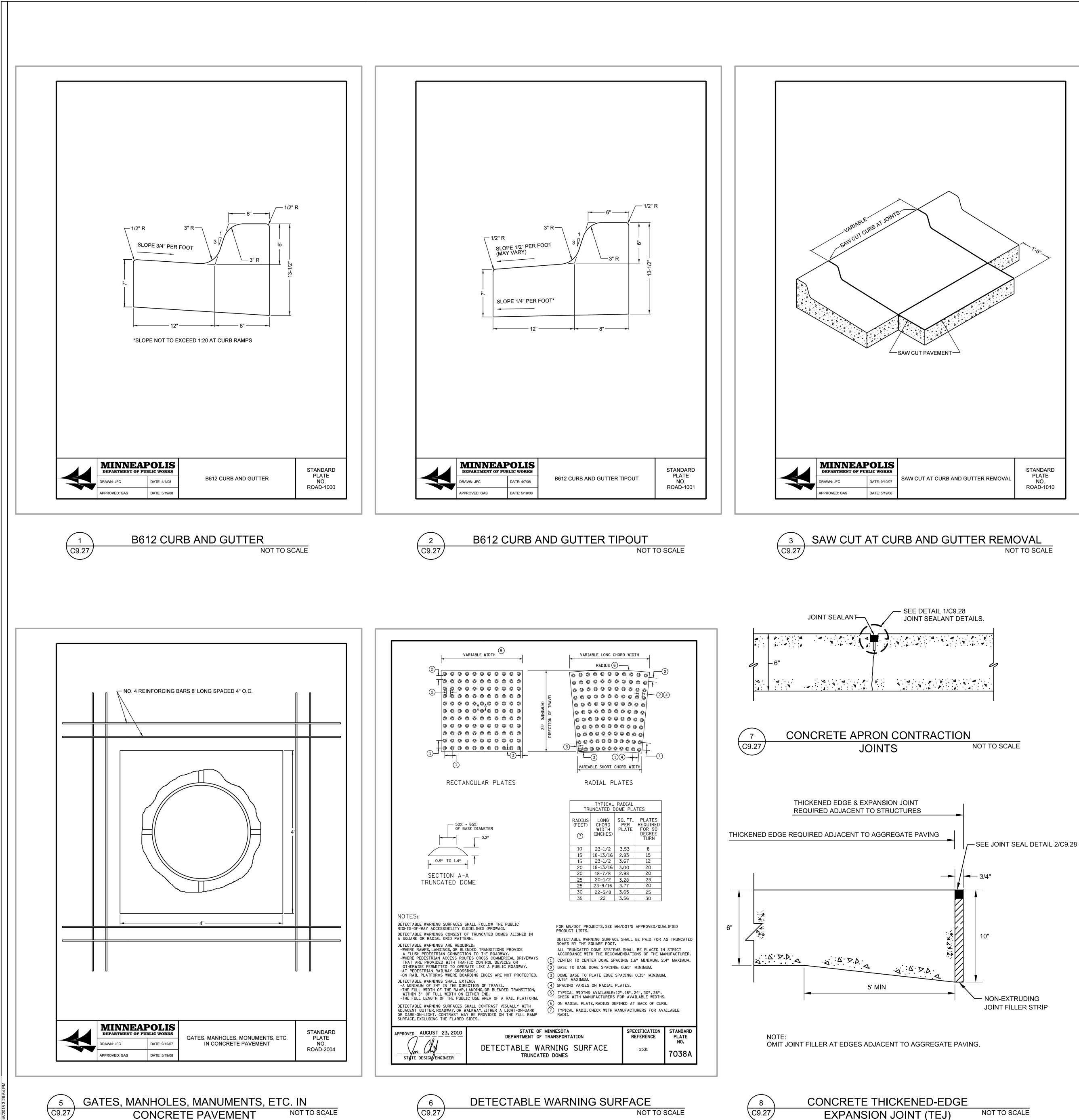
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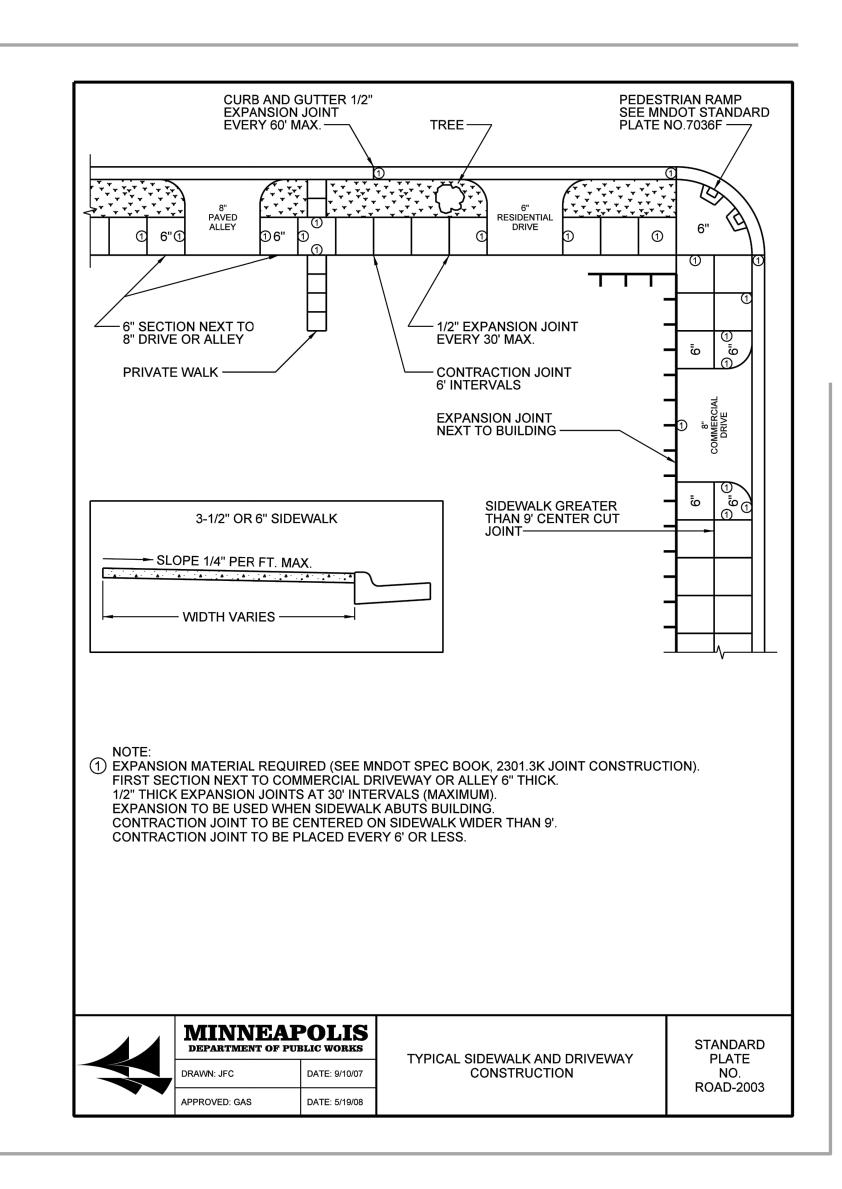
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WJHW 4801 SPRING VALLEY RD., DALLAS, TX 75244 WAYFINDING

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### OWNER MINNESOTA SPORTS FACILITIES AUTHORITY 900 SOUTH 5th STREET, MINNEAPOLIS, MN 55415 OWNER

MINNESOTA VIKINGS FOOTBALL, LLC 9500 VIKING DR., EDEN PRAIRIE, MN 55344 ARCHITECT

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