Road Improvement Plans

for

CSAH 1 (East River Road Improvements) Fridley, Minnesota

GOVERNING SPECIFICATIONS:

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2014 EDITION OF THE "MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

NO.	DATE	REVISION	SHEETS
1	9/30/14	Response to County Comments	All
2	10/28/14	Response to County Comments	All
3	1/20/15	Response to County Comments	All
4	3/05/15	Response to County Comments	All
5	3/20/15	Response to County Comments	All
6	4/07/15	Pedestrian Crossing/Grades	19,23
7	4/09/15	Issue for Construction	All

Prepared for:

Fridley Land LLC 1350 Lagoon Avenue #920 Minneapolis, MN 55408 Contact: Paul Hyde Phone: (612)904-1513

Prepared by:

Project number: 0003183.00

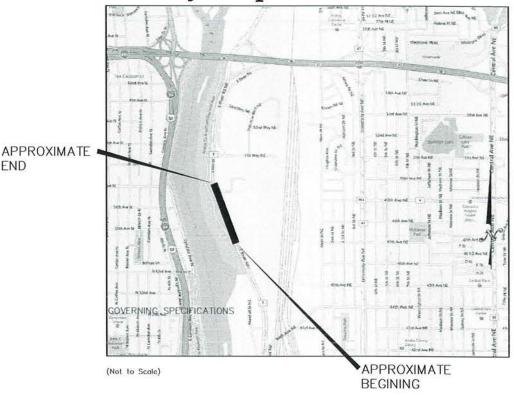
Contact: David T. Bade 952-697-5724

David.Bade@westwoodps.com

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	3	BAE Existing Conditions & Removals						
	4	North Existing Conditions & Removals						
	5	South Existing Conditions & Removals						
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40	North Southbound Shoulder Closure Traffic Control Plan				
41	South Center Area Closure Traffic Control Plan				
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Vicinity Map



I HEREBY CERTIFY THAT THIS PLAN 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.

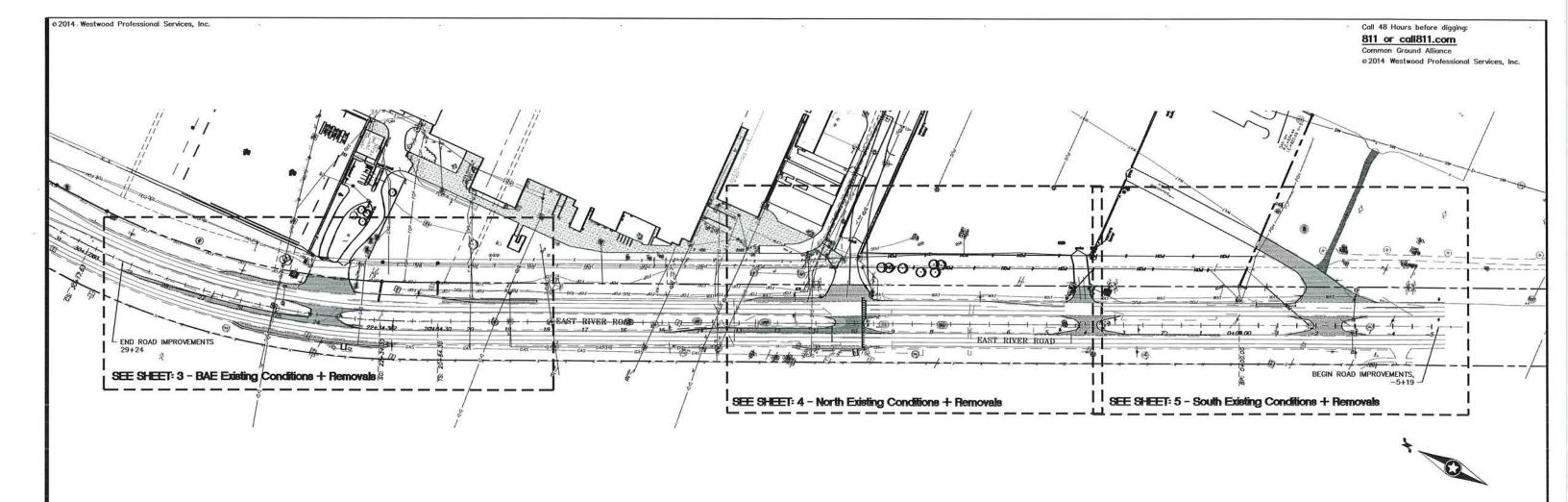
DATE: 4/09/15 DESIGN SQUAD GRETCHEN SCHROEDER

RECOMMENDED FOR APPROVAL

Road Improvement Plans

CSAH 1 (East River Road Improvements)

08/12/14 Sheet: 1 of 42



Removal Legend

EXISTING	REMOVALS	
		RIGHT OF WAY LINE
10		CSAH 1 ROAD STATIONING
	STREET, STREET, STREET,	LIMITS OF CONSTRUCTION
		CURB & GUTTER
		SAW CUT PAVEMENT
		SANITARY SEWER
#X)		WATER MAIN
967		HYDRANT
sp		STORM SEWER
545	as	GAS
49,25		UNDERGROUND ELECTRIC
CH		OVERHEAD ELECTRIC
		UNDERGROUND TELEPHONE
1/21		OVERHEAD TELEPHONE
1,50	rap	TELEPHONE FIBER OPTIC
25A		CABLE TELEVISION
4.1.1.1.1.1.1.	•	RETAINING WALL
	xx	FENCE
医700年7		CONCRETE
		BITUMINOUS
	\otimes	BUILDING
***	1833	TREE
Ø.	Q.	LIGHT POLE
~	700	TRAFFIC SIGN
		CONSTRUCTION BARRICADE

Removal Notes

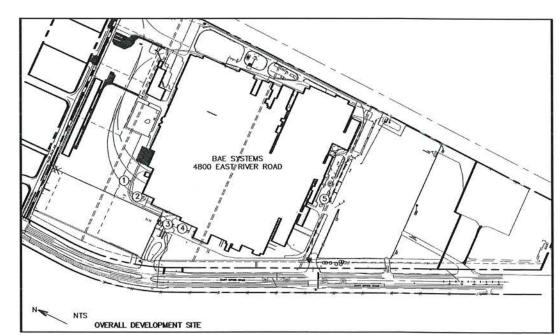
- LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE
- 2. CONTRACTOR SHALL COORDINATE LIMITS OF REMOVALS WITH PROPOSED IMPROVEMENTS AND FIELD VERIFY CONDITION OF EXISTING APPURTENANCES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OR REPLACING MISCELLANEOUS ITEMS (SUCH AS FENCES, SIGNS, IRRIGATION HEADS, ETC.)
 THAT MAY BE PARAGED BY CONSTBULCTION. THAT MAY BE DAMAGED BY CONSTRUCTION.
- CONTRACTOR SHALL PLACE ALL NECESSARY EROSION CONTROL MEASURES REQUIRED TO MAINTAIN SITE STABILITY PRIOR TO EXECUTING ANY SITE REMOVALS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY PROVIDERS FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES AFFECTED BY SITE DEVELOPMENT. ALL PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR/OWNER.
- 5. CONTRACTOR TO ABIDE BY ALL ANOKA COUNTY PERMIT CONDITIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY, REFER TO TRAFFIC CONTROL SHEETS 9 AND 10. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE ANOKA COUNTY STANDARDS.
- 7. SAWCUT ALL BITUMINOUS PAVEMENT PRIOR TO REMOVAL.
- 8. ALL REMOVALS TO BE DISPOSED OF OFF SITE, OUTSIDE OF ANOKA COUNTY RIGHT OF WAY.
- 9. SEE SIGNAGE LAYOUT SHEETS FOR SIGN REMOVALS.

Benchmarks

100207	ELEVATION	DESCIRIPTION
1	837.85	TNH, NORTH END OF BAE BUILDING, NORTHWEST OF
200000		ACCESSORY BUILDING AND CONCRETE LOADING DOCK
(2)	837.16	TNH, NORTH END OF BAE BUILDING, BETWEEN TRAIN TRACKS
0		AND WEST SIDE OF BAE BUILDING
(3)	837.05	TNH, WEST SIDE OF BAE BUILDING, 295' EAST OF BAE SYSTEM
(3)	837.03	BRICK SIGN

4 837.67 TNH, 128' SOUTH OF THE PREVIOUSLY MENTIONED HYDRANT

(5) 836.89 TNH, 132 SOUTH OF THE MIDDLE OF THE SOUTH SIDE OF THE BAE BUILDING



0003183EX.d

CSAH 1 (East River Road Improvements)

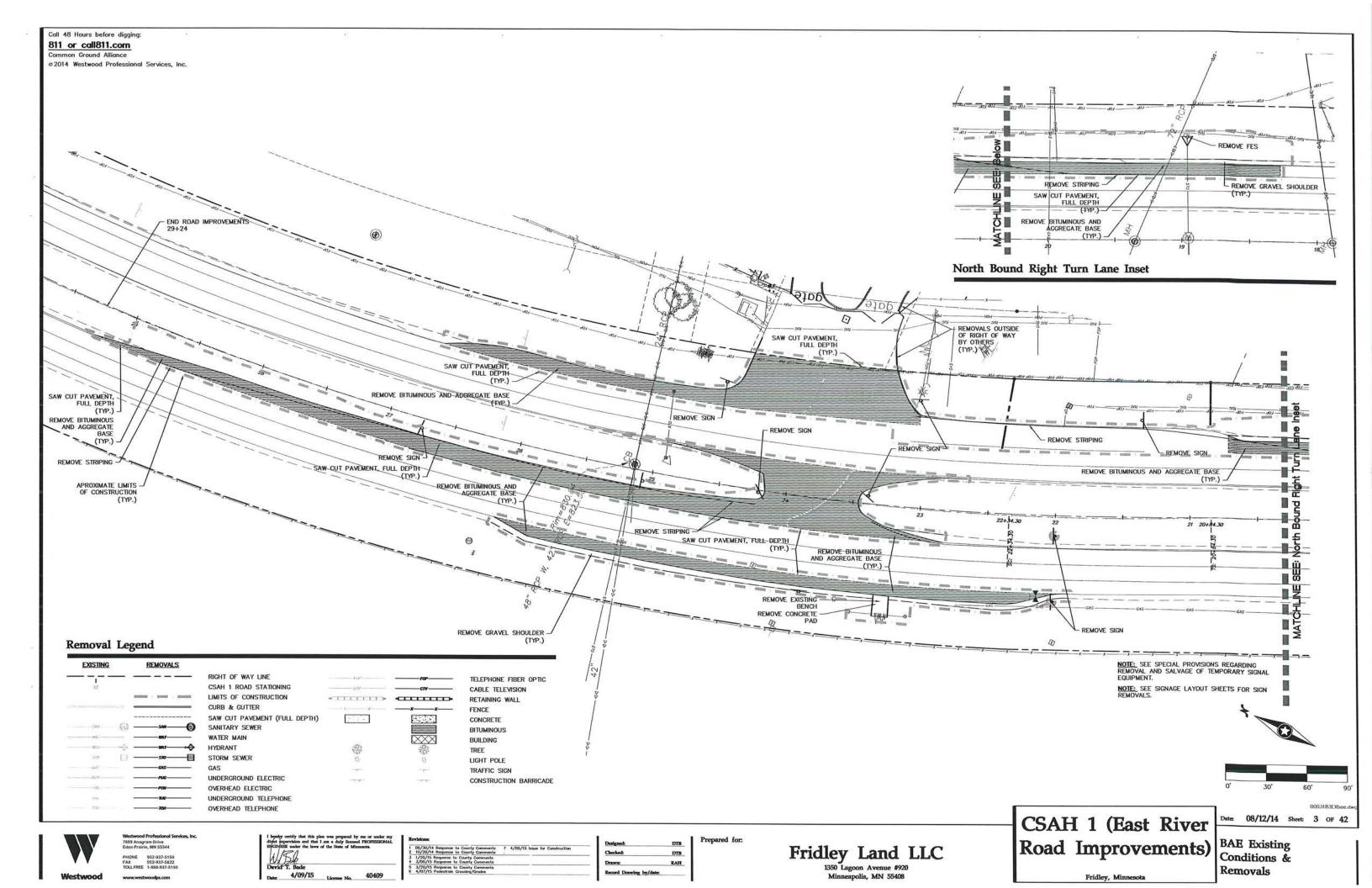
Fridley, Minnesota

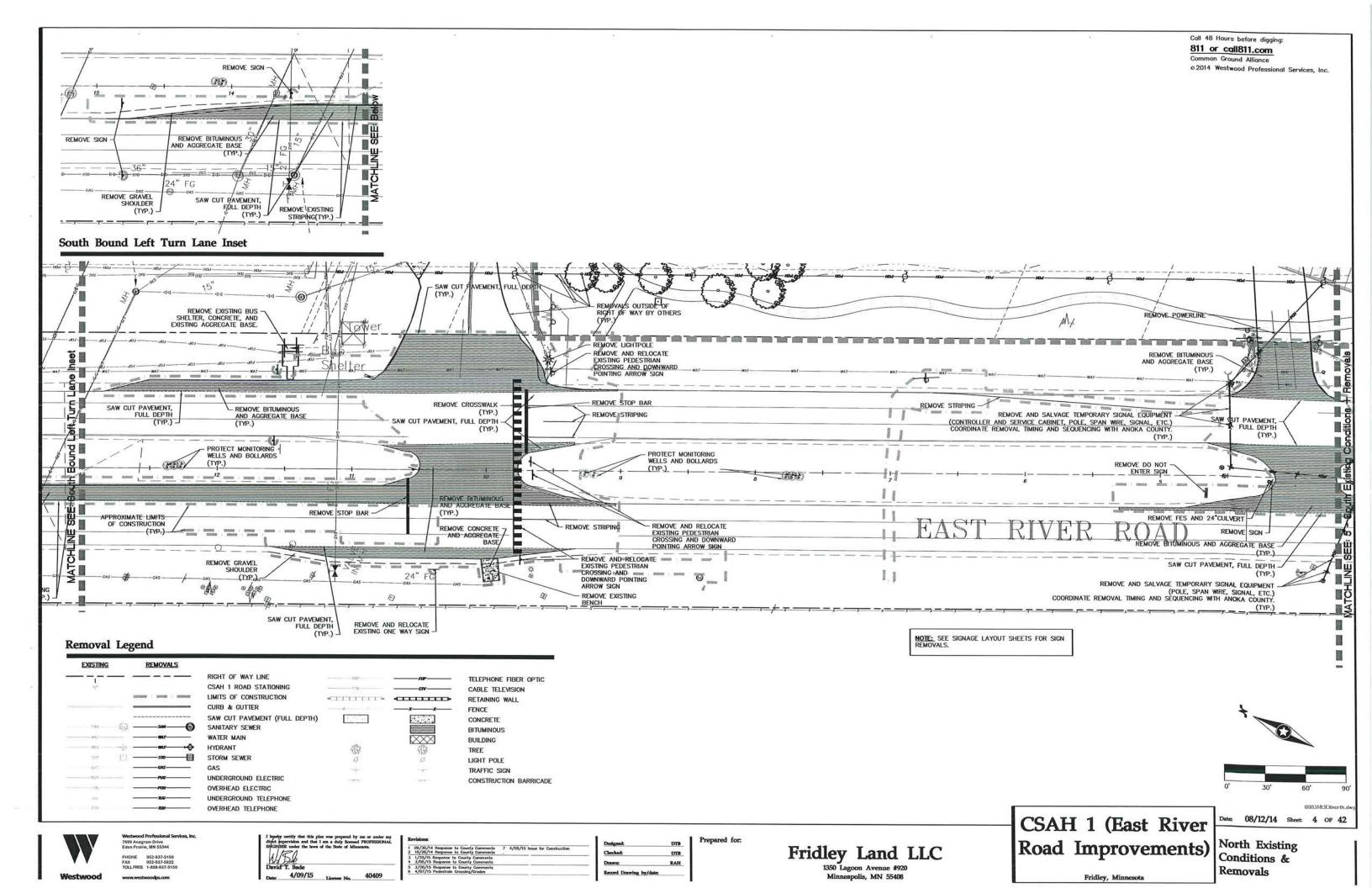
08/12/14 Sheet 2 OF 42

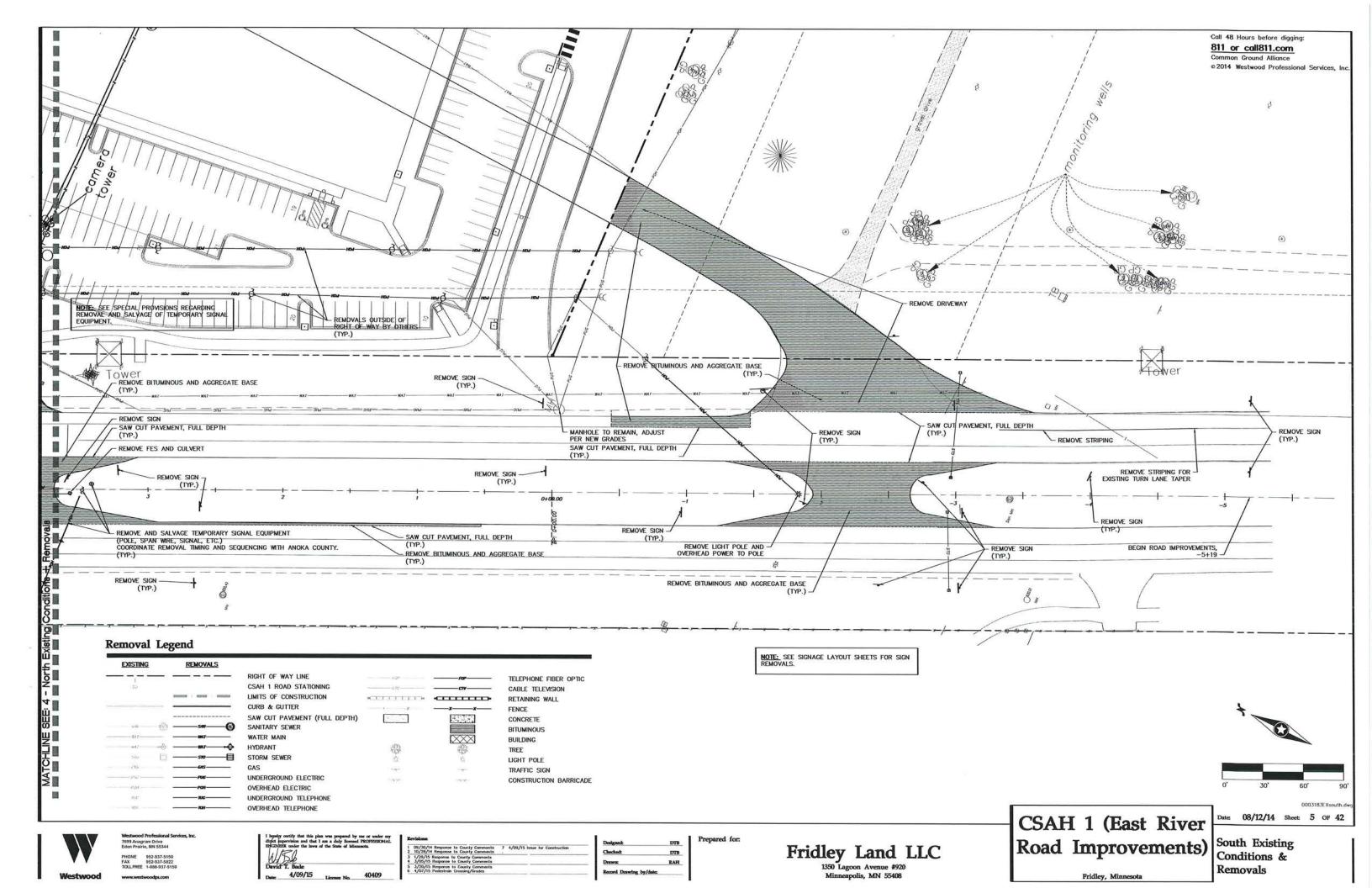
7 4/09/15 Issue for Construction

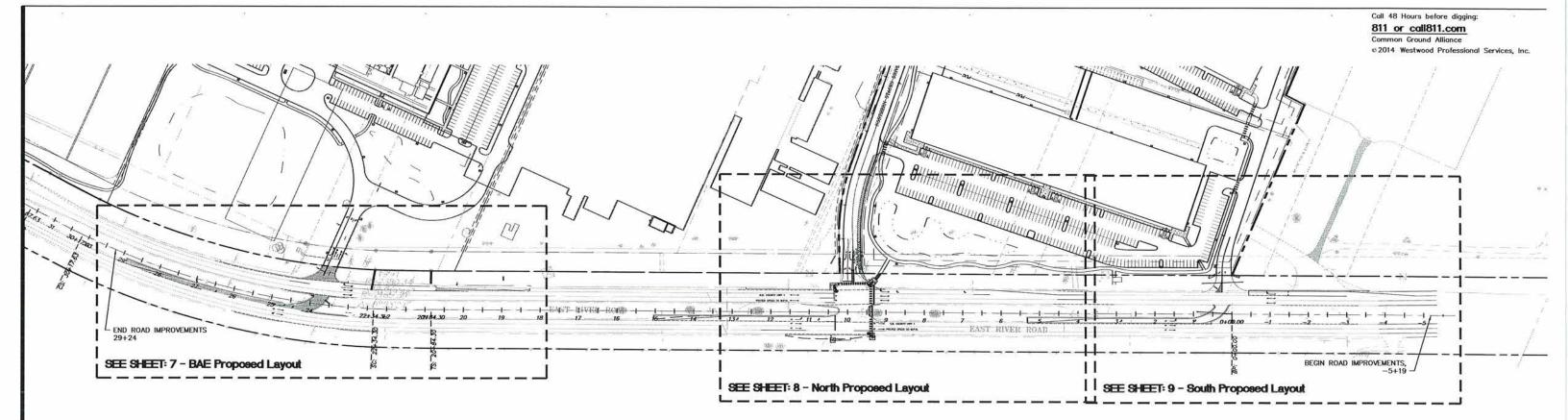
Fridley Land LLC 1350 Lagoon Avenue #920 Minneapolis, MN 55408

Overall Existing Conditions & Removals









Site Legend

EXISTING	PROPOSED	
		RIGHT OF WAY LINE
10	•	CSAH 1 ROAD STATIONING
		EASEMENT LINE
		CURB AND GUTTER
		SAW CUT PAVEMENT
	A	POND NORMAL WATER LEVEL
-11111		RETAINING WALL
* * *	xx	FENCE
*	21 24	CONCRETE PAVEMENT
		CONCRETE SIDEWALK
		BITUMINOUS PAVEMENT
	10074700301	BITUMINOUS TRAIL
	T	TRANSFORMER
40	*	SITE LIGHTING
T-MIT	-	TRAFFIC SIGN
1474	101	POWER POLE
50	.0	BOLLARD / POST

Pavement Marking Legend

REFE	RENCE	DESCRIPTION	COLOR
T.1	SYMBOL	RIGHT ARROW	WHITE
T.2	SYMBOL	LEFT ARROW	WHITE
T.3	SYMBOL	THRU ARROW	WHITE
T.4	SYMBOL	24" SOLID STOP BAR	WHITE
T.5	SYMBOL	CROSSWALK	WHITE
T.6	LINE	4" DOUBLE SOLID	YELLOW
T.7	LINE	4" SOLID	YELLOW
T.8	LINE	4" SOLID	WHITE
T.9	LINE	8" DOTTED (3' LONG, 12' GAP)	WHITE
T.10	LINE	8" DASHED (10' LONG, 40' GAP)	YELLOW
T.11	LINE	4" SOLID CROSS HATCH	YELLOW
		(2° O.C. ⊕ 45°)	

General Notes

- BACKGROUND INFORMATION FOR THIS PROJECT PROVIDED BY WESTWOOD PROFESSIONAL SERVICES. EDEN PRAIRIE MN, 2014 AND RLK INC., MINNETONKA, MN.
- LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
- 3. ALL CURB AND GUTTER SHALL BE B612 UNLESS OTHERWISE NOTED.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY ANOKA COUNTY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
- CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.

Striping Notes

 ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE STANDARDS OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD).



0003183SP.dwg

Date: 08/12/14 Sheet: 6 OF 42

wood Professional Services, Inc. Anagram Drive Prairie, MN 55344 NE 952-937-5150 952-937-5822 pely certify that this plan was propored by me or under my ct supervision and that I am a duly licensed PECPINSIONAL 20/EDR under the laws of the State of Minnesota.

1 09/30/14 Response to County Comments 7 4/09/15 Issue for Construction 2 10/29/14 Response to County Comments 3 1/20/15 Response to County Comments 4 3/t05/15 Response to County Comments 5 3/20/15 Response to County Comments 6 4/07/15 Pedestrain Crossing/Condes

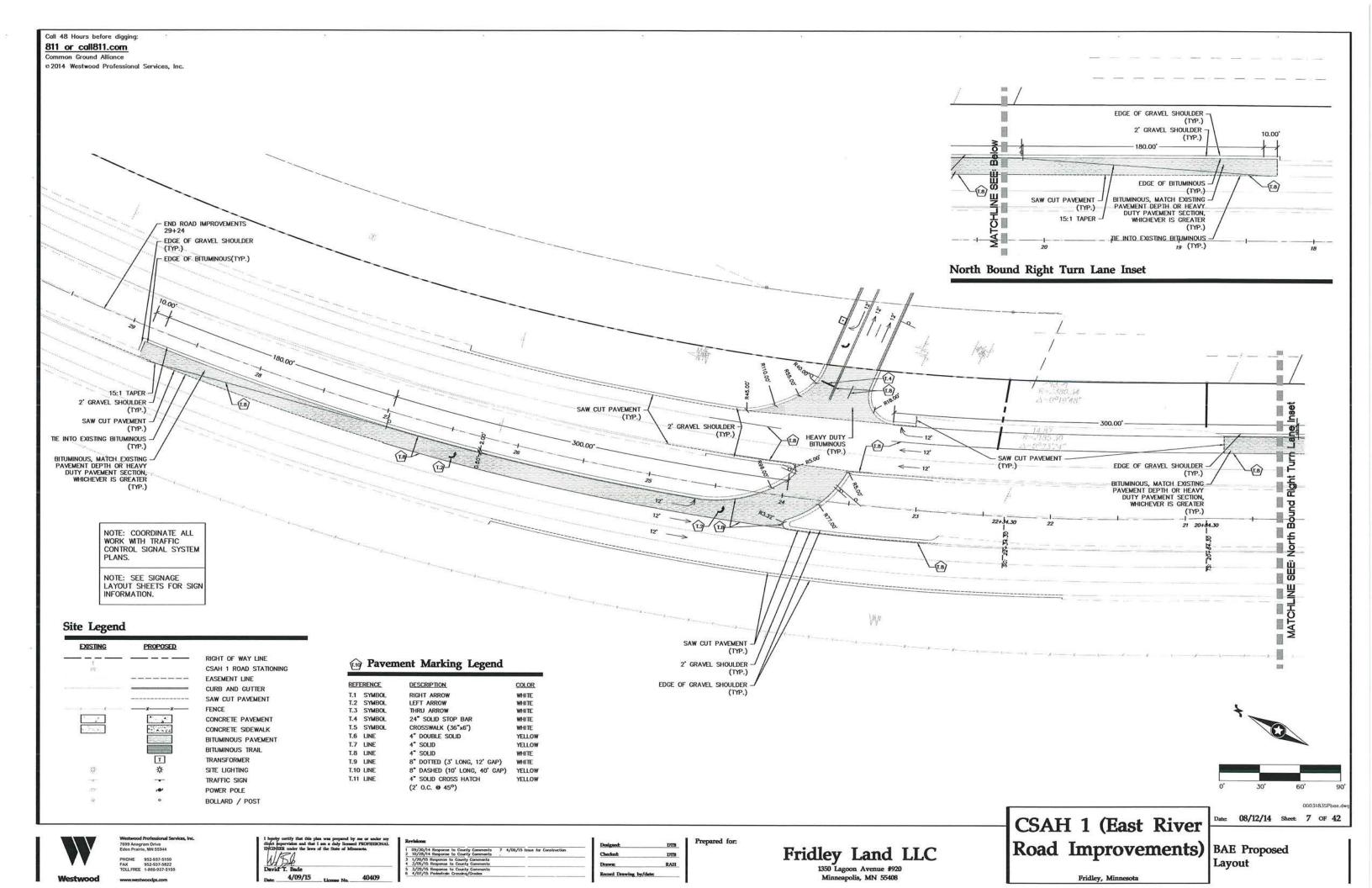
DIB Prep

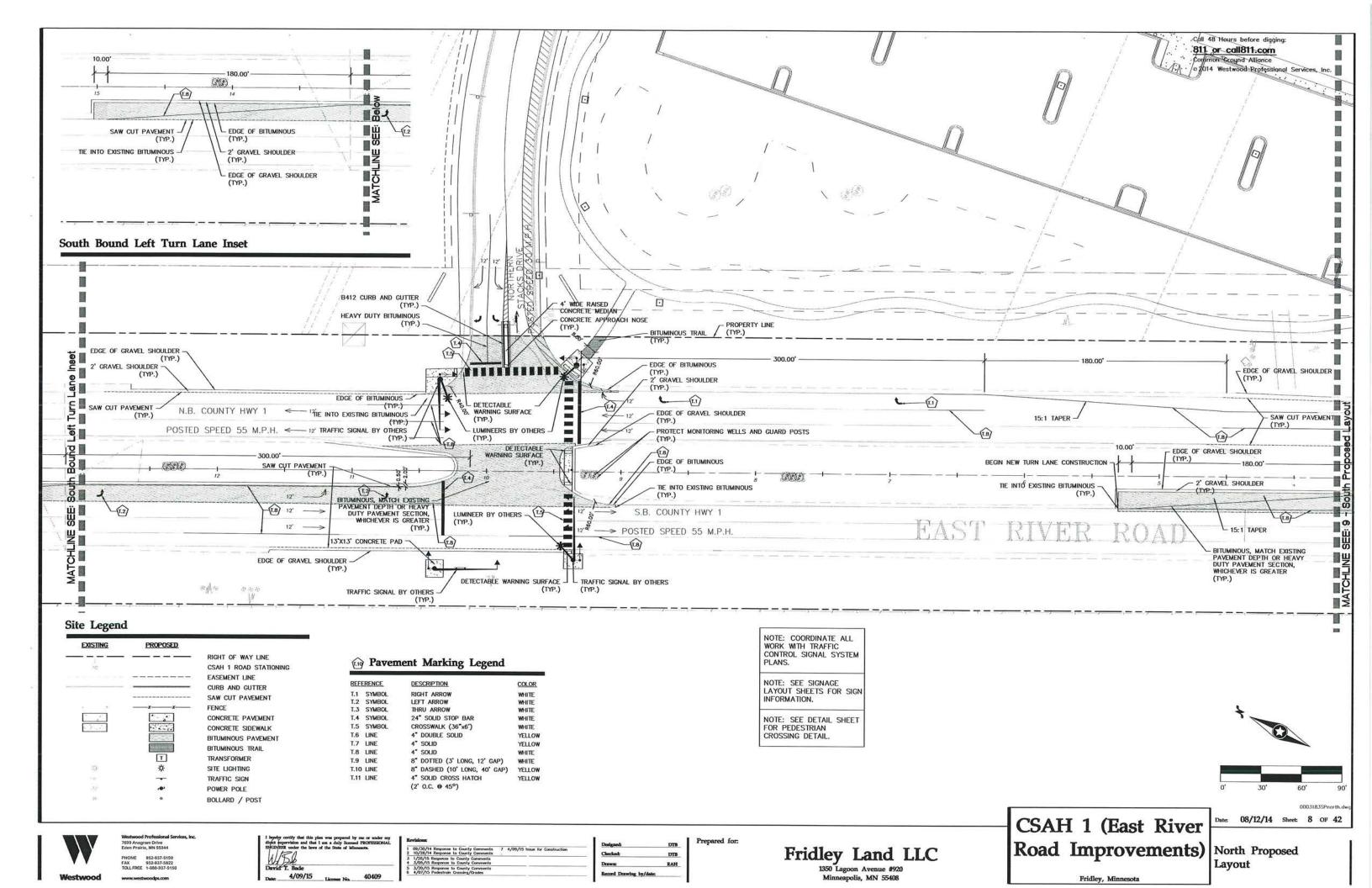
Fridley Land LLC

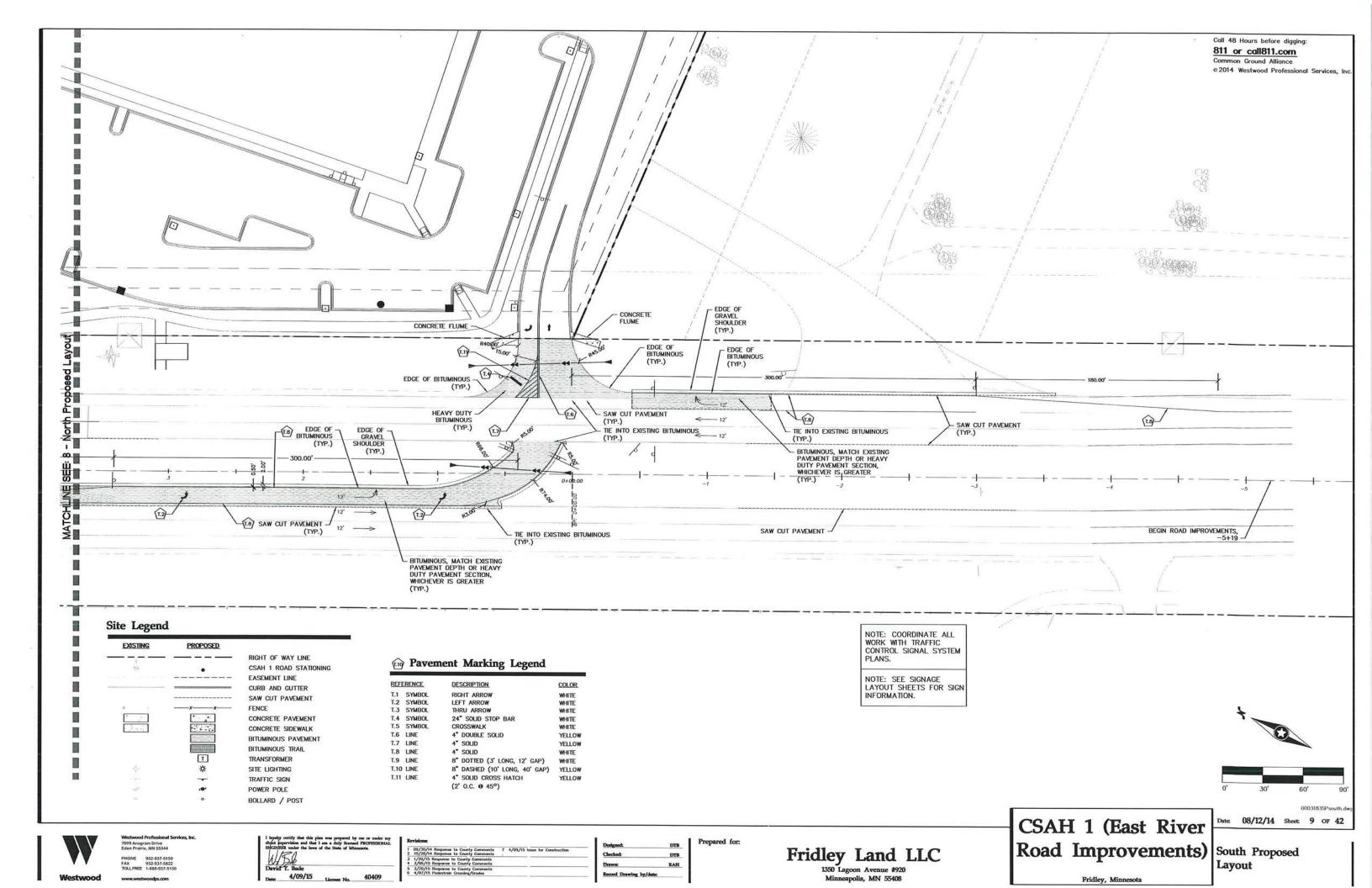
1350 Lagoon Avenue #920 Minneapolis, MN 55408 CSAH 1 (East River Road Improvements)

Fridley, Minnesota

Overall Proposed Layout







Commo	n Ground	Alliance			
02014	Westwood	Professional	Services,	Inc.	

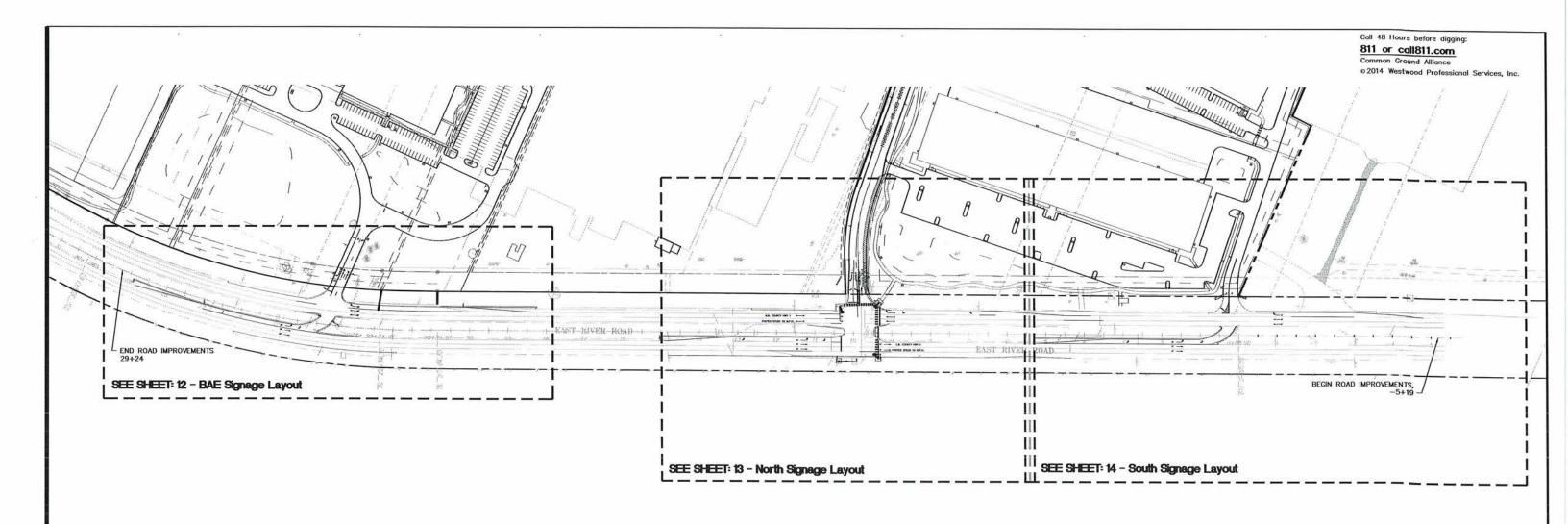
			F &	I SIGN	PANI	ELS TY	PE C			Α
			POSTS	192			PANEL			
SIGN NO.	QUANT.	NO. & TYPE	KNEE BRACES QUANT.	LEN. (FT.)	MTG HT. (FT.)	SIZE (IN.)	AREA (SQ. FT.)	TOTAL AREA (SQ. FT.)	CODE NO.	PANEL LEGEND
C-1*	2	1-U		15	7	24 X 30	5	10	R2-1A	55 MPH SPEED LIMIT
C-2	2	1-U		15	7	24 X 30	5	10	R2-1A	55 MPH SPEED LIMIT
C-3	3	1-U		15	7	30 X 30	6.25	18.75	R3-7a(L)	LEFT TURN LANE
C-4	3	1-U		15	7	30 X 30	6.25	18.75	R5-1	DO NOT ENTER
C-5	4	2-U		15	7	36 X 36	9	36	W3-3	SIGNAL AHEAD
				17	7	30 X 30	6.25	25	R5-1	DO NOT ENTER
C-6	4	2-U		17	7	36 X 36	9	36	R1-2	YIELD
				17	7	36 X 12	3	12	R6-1(L)	ONE WAY (LEFT)
C-7	2	1-U		15	7	30 X 30	9	18	R1-1	STOP
C-7		1-0		15	7	36 X 12	3	6	R6-1(R)	ONE WAY (RIGHT)
C-8*	2	2-U		15	7	36 Dia.	7	14	W10-1	RAILROAD AHEAD
C-9	2	1-U		15	7	24 X 24	4	8	R3-1	NO RIGHT TURNS
C-10	3	1-U		17	7	24 X 30	5	15	R4-7	KEEP RIGHT
C-10	3	1-0		15	7	18 X 18	2.25	6.75	X4-2	TYPE I OBJECT MARKER
				17	7	24 X 24	4	4	R3-4	NO U-TURNS
C-11	1	1-U		17	7	24 X 24	4	4	R3-2	NO LEFT TURNS
C-11	±.	1-0		17	7	24 X 36	5	5	R4-7	KEEP RIGHT
				17	7	18 X 18	2.25	2.25	X4-2	TYPE I OBJECT MARKER
C-12	1	BANDED		15	7	36 X 12	3	3	R6-1(R)	ONE WAY (RIGHT)
C-13	1	BANDED		15	7	36 X 12	3	3	R6-1(L)	ONE WAY (LEFT)
C-14	3	1-U		15	7	30 X 30	6.25	18.75	R3-7b(R)	RIGHT TURN LANE
C-15	2	1-U		15	7	30 X 30	6.25	12.5	R3-5(R)	RIGHT TURN ONLY
C-16	1	2-U		15	7	30 X 54	11.25	11.25	R3-30AA	LANE DESIGNATION
			TO	TAL				298.00	N	
*Sign Rem	ains Inpla	ce								

		REM	OVE S	YPE C		В	
			POSTS		PANEL		
SIGN NO.	QUANT.	NO. & TYPE	KNEE BRACES QUANT.	LEN. (FT.)	SIZE (IN.)	CODE NO.	PANEL LEGEND
C-101	4	2-U		15	36 X 36	W11-2	PEDESTRIAN CROSSING
C-102	6	2-U		15	36 X 36	W3-3	SIGNAL AHEAD
				15	54 X 18	R6-1(R)	ONE WAY (RIGHT)
C-103	1	2-U		15	54 X 18	R6-1(L)	ONE WAY (LEFT)
				15	36 X 36	R1-1	STOP
C-104	5	2-U		17	48 X 48	R1-2	YIELD
C-105	2	2-U		15	30 X 24	W16-7pL	DOWNWARD LEFT ARROW
C-103	2	2-0		15	36 X 36	W11-2	PEDESTRIAN CROSSING
C-106	2	2-U		15	30 X 24	W16-7pR	DOWNWARD RIGHT ARROW
C-100		2-0		15	36 X 36	W11-2	PEDESTRIAN CROSSING
C-107	7	2-U		15	36 X 36	R5-1	DO NOT ENTER
C-108	1	2-U		15	30 X 30	R5-1	DO NOT ENTER
C-100	-	2-0		15	36 X 36	R3-2	NO LEFT TURNS
C-109	4	2-U		15	54 X 18	R6-1(L)	ONE WAY (LEFT)
C-110	1	2-U		15	12 X 8	X4-13	CYLINDER DELINEATOR
C-111	1	2-U		15	6 X 12	X4-3	CULVERT DELINEATOR
C-112	3	2-U		15	54 X 18	R6-1(R)	ONE WAY (RIGHT)
C-112	3	2-0		15	36 X 36	R1-1	STOP
C-113	2	2-U		15	30 X 36	R2-1A	55 MPH SPEED LIMIT
C-114	2	2-U		15	36 X 36	R3-7b(R)	RIGHT TURN LANE
C-115	1	2-U		15	36 X 36	R3-7b(L)	LEFT TURN LANE

CSAH 1 (East River Road Improvements) Type C & D

Fridley, Minnesota

Date: 08/12/14 Sheet: 10 OF 42



Legend

Legena		
EXISTING	PROPOSED	
		RIGHT OF WAY LINE
re)		CSAH 1 ROAD STATIONING
		EASEMENT LINE
		CURB AND GUTTER
		POND NORMAL WATER LEVEL
«»	-	RETAINING WALL
X	xx	FENCE
A		CONCRETE PAVEMENT
735		CONCRETE SIDEWALK
	T	TRANSFORMER
3/2	*	SITE LIGHTING
=46		TRAFFIC SIGN
903		POWER POLE
\$1	0	BOLLARD / POST

① Key Notes

- ① FURNISH & INSTALL
- ② INPLACE
- 3 SALVAGE REMOVE
- S REMOVE SIGN TYPE C
- 6 INSTALL

Signage Notes

- ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE STANDARDS OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD).
- 2. LOCATE/RELOCATE ALL SIGNS AND POSTS TO REQUIRED LATERAL DISTANCE FROM PAVEMENT, PER MNDOT STANDARD DETAIL SHEET.

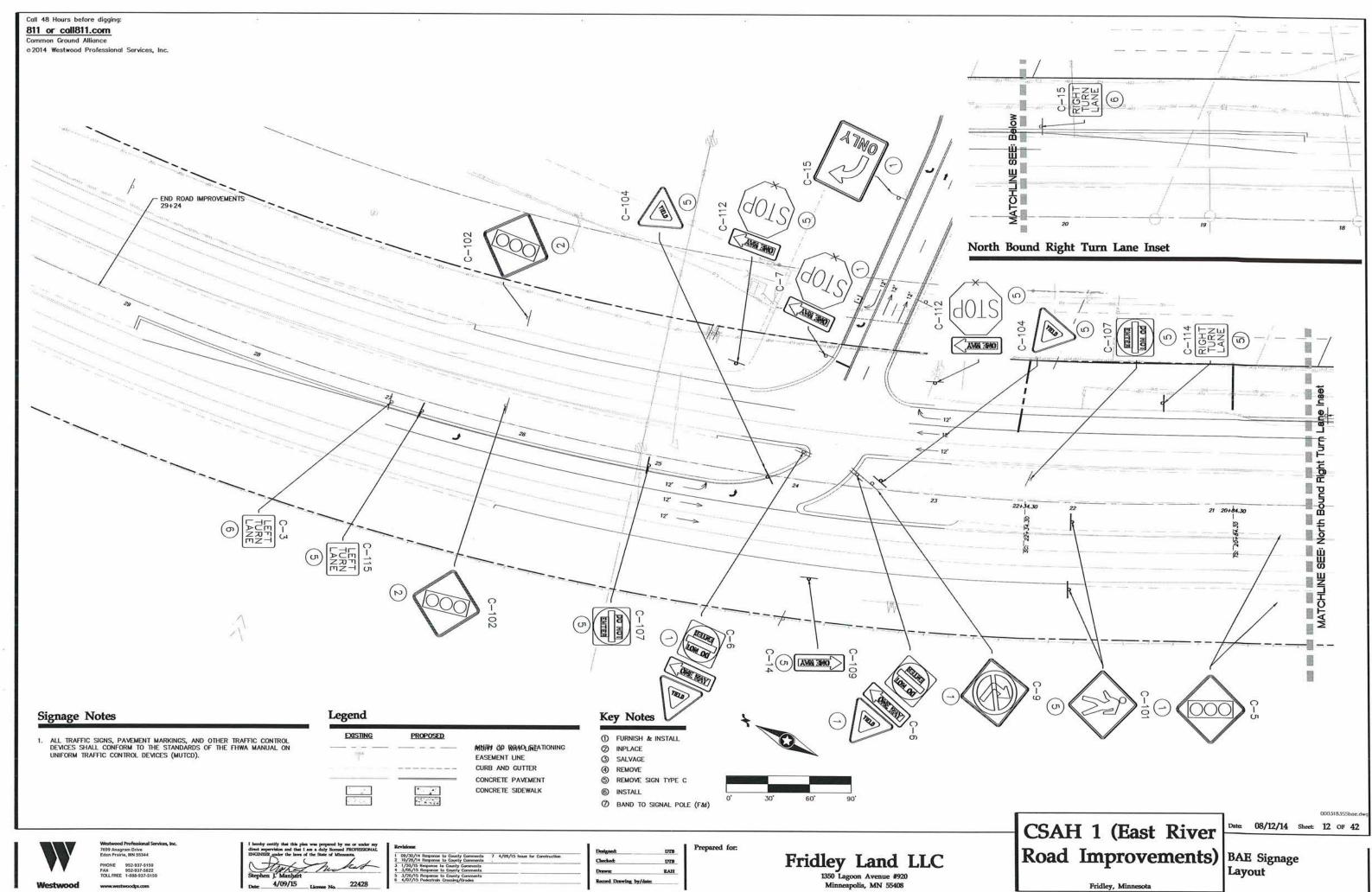
Date: 08/12/14 Sheet: 11 OF 42 CSAH 1 (East River

Road Improvements) Overall Signage Layout

Fridley, Minnesota

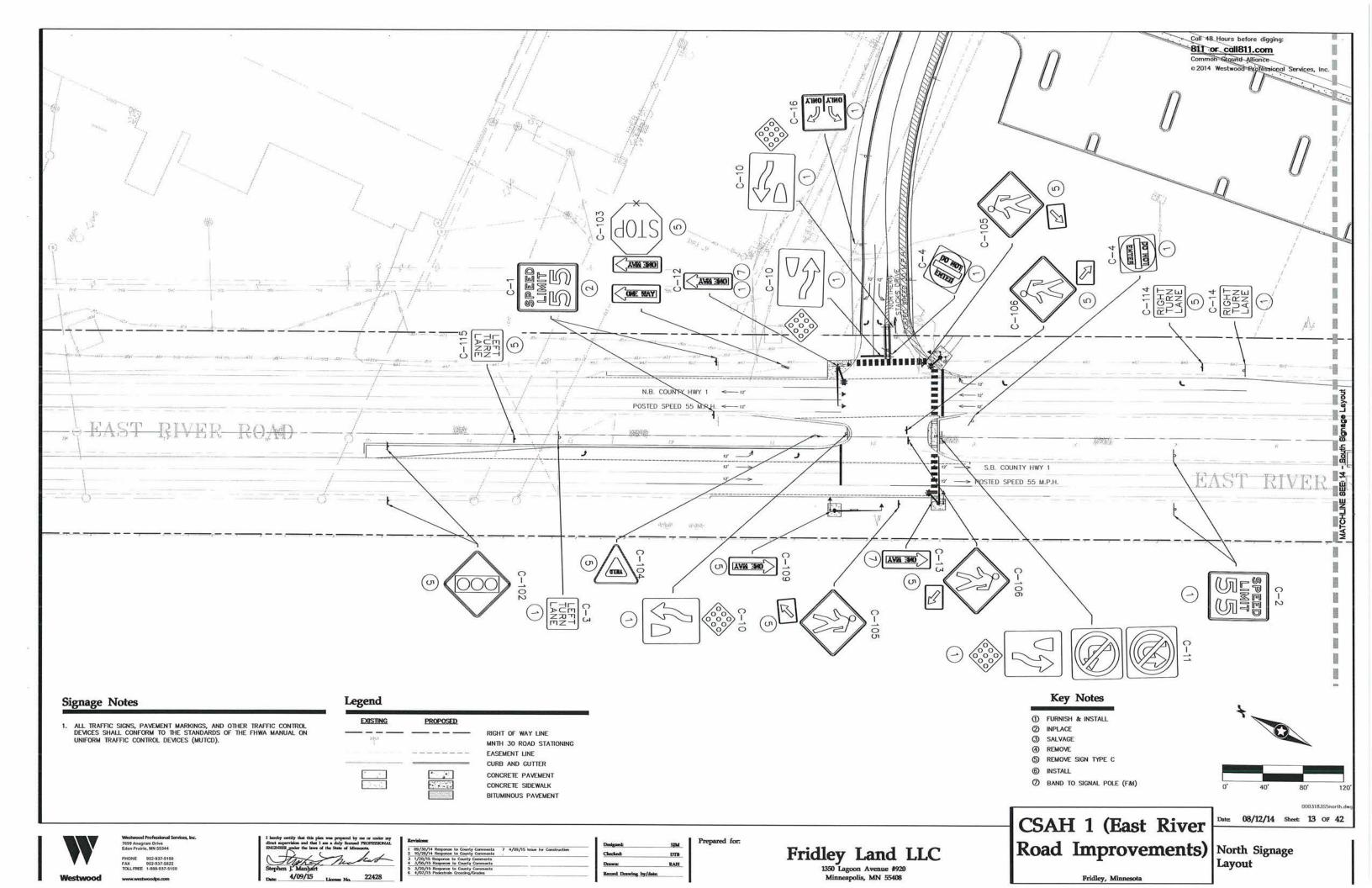
Response to County Comments 7 4/09/15 Issue for Construction expense to County Comments expense to County Comments

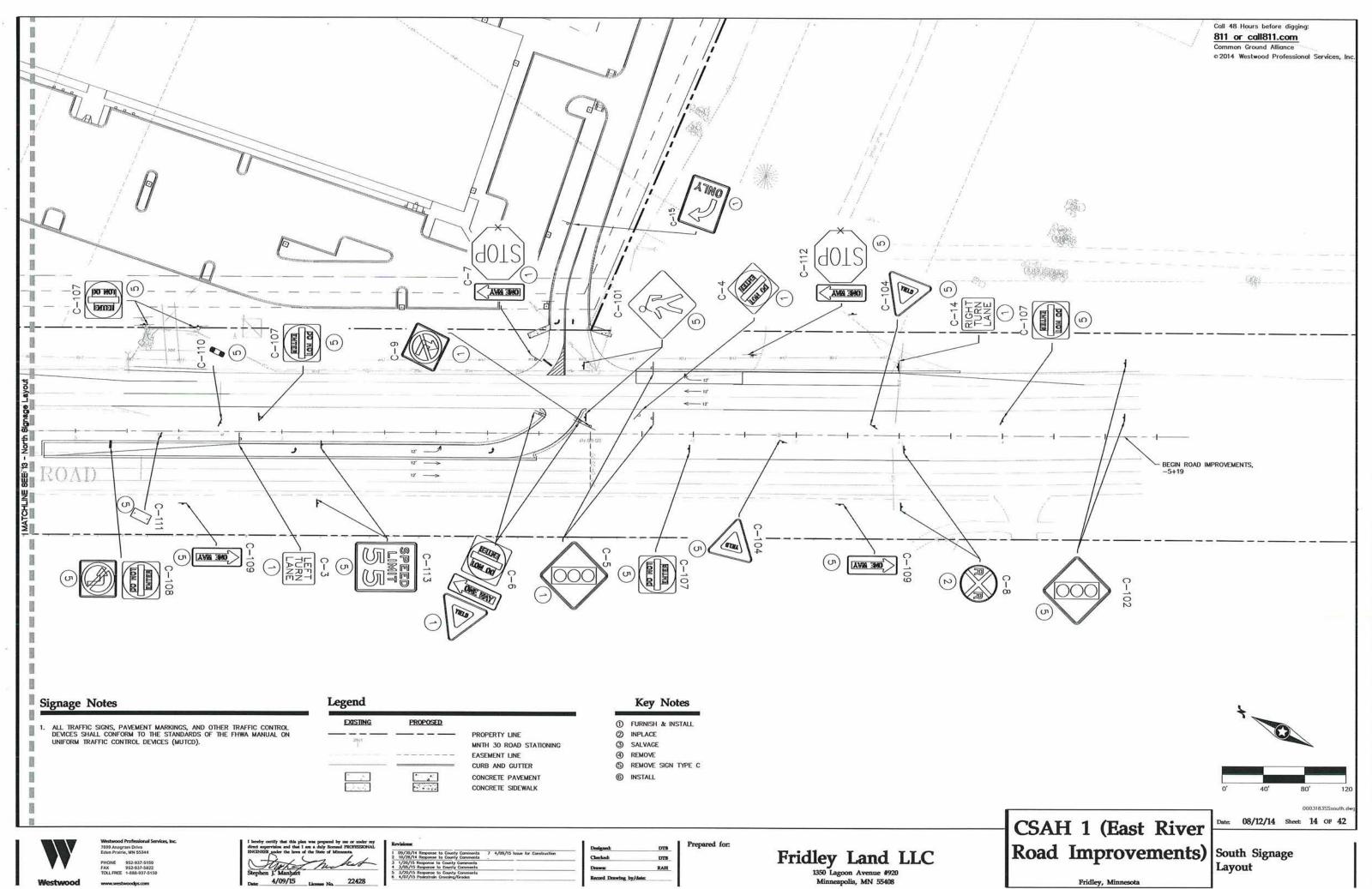
Fridley Land LLC
1350 Lagoon Avenue #920
Minneapolis, MN 55408



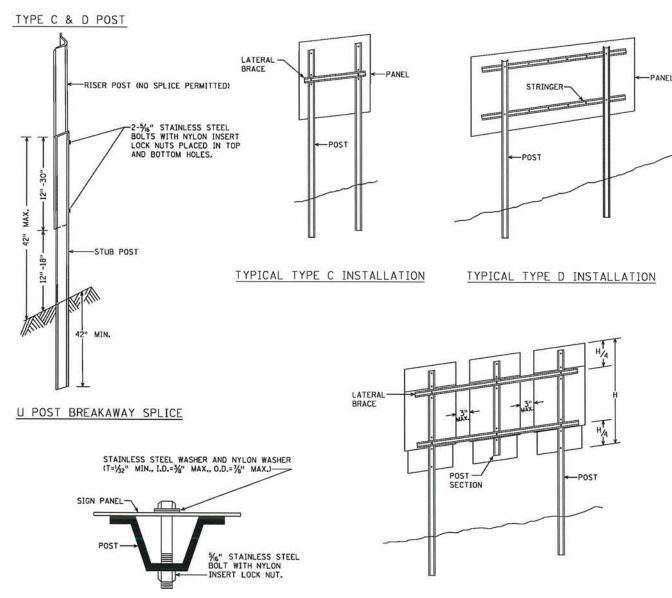
Fridley, Minnesota

Layout





e 2014 Westwood Professional Services, Inc.



- 1. USE 3 LB/FT STUB POSTS. SHALL CONFORM TO MNDOT 3401.
- 2. USE 2.5 LB/FT RISER POSTS, STRINGERS, KNEE BRACES AND LATERAL BRACES. ALL SHALL CONFORM TO MNDOT 3401.
- 3. SEE SIGN DATA SHEETS FOR NUMBER OF POSTS, KNEE BRACES. POST LENGTHS AND SPACINGS, AS DETERMINED FROM TEM CHARTS 6.3 AND 6.4.
- 4. IF MORE THAN TWO POSTS ARE NEEDED, THE MINIMUM SPACING SHALL BE 45" BETWEEN POSTS.
- 5. TYPE D SIGN PANELS SHALL BE BOLTED TO STRINGERS AT 24" MAXIMUM INTERVALS IN ACCORDANCE WITH THE TYPE D STRINGER AND PANEL-JOINT DETAIL (SEE STANDARD SIGNS MANUAL).
- 6. MOUNTING (PUNCH CODE) FOR TYPE C SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
- 7. ALL RISER (VERTICAL) U POSTS SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 7'LONG.
- 8. USE STAINLESS STEEL 5/6" BOLTS, WASHERS AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
- 9. STAINLESS STEEL WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND
- 10. BRACING STUBS SHALL BE NO MORE THAN 4" ABOVE GROUND AND EMBEDDED AT LEAST 42".
- 11. A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MNDOT 3306 AND GALVANIZED IN ACCORDANCE WITH
- 12. COLLARS SHALL BE USED TO SHIM OVERLAYS AND LEGEND COMPONENTS AWAY FROM PANEL WHERE INTER-FERENCE WITH BOLT HEADS IS ENCOUNTERED. MNDOT 3352.2A6.
- 13. 2 POST TYPE C SIGNS SHALL BE REINFORCED WITH AT LEAST ONE LATERAL BRACE, INSTALLATIONS WHERE THE TOTAL PANEL HEIGHT IS 60" OR MORE SHALL HAVE TWO LATERAL BRACES LOCATED APPROXIMATELY AT THE QUARTER POINTS.
- 14. WHERE 2 SINGLE POST TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEAST 2 BRACES, BOLTED AT EACH POST AND LOCATED APPROXIMATELY AT THE QUARTER POINTS.
- 15. WHERE 3 OR MORE TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEAST 2 BRACES, BOLTED AT EACH POST AND POST SECTION AND LOCATED APPROXIMATELY AT THE QUARTER POINTS AS SHOWN IN MODIFIED TYPE C INSTALLATION.

Type C & D Sign Structural

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of 2

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U POST MOUNTING

TYPE C SIGNS



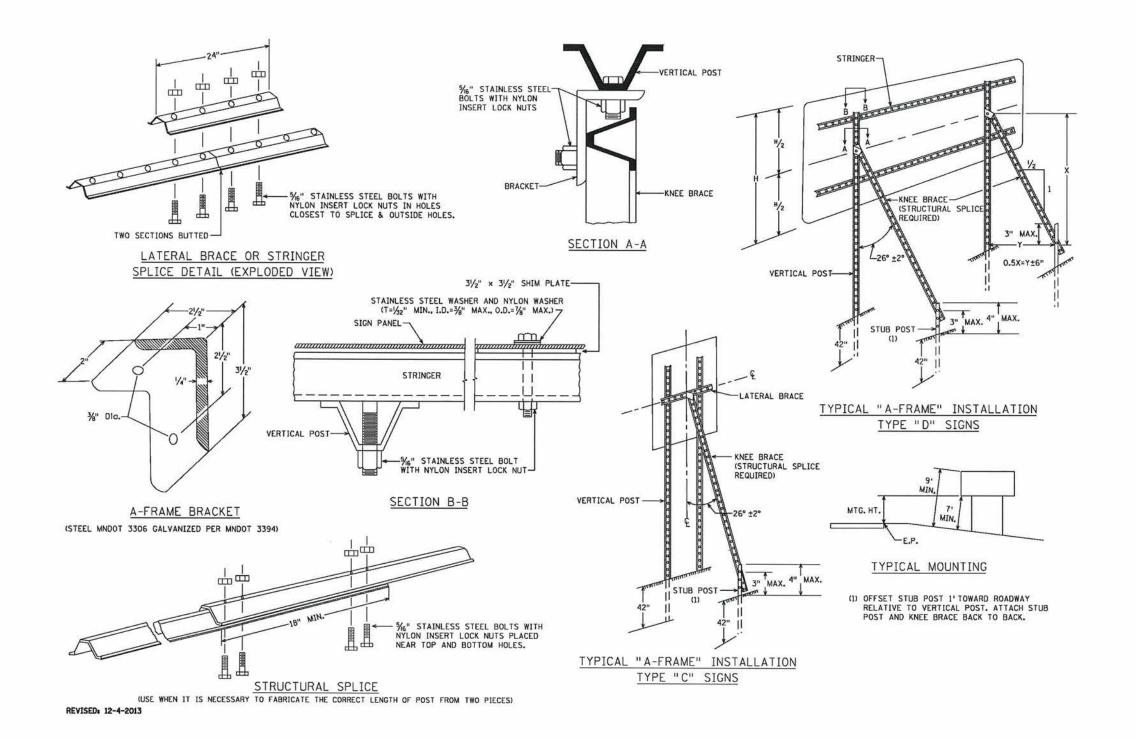
MODIFIED TYPE C INSTALLATION

CSAH 1 (East River

Road Improvements)

Common Ground Alliance

o 2014 Westwood Professional Services, Inc.



Date: 08/12/14 Sheet: 16 OF 42

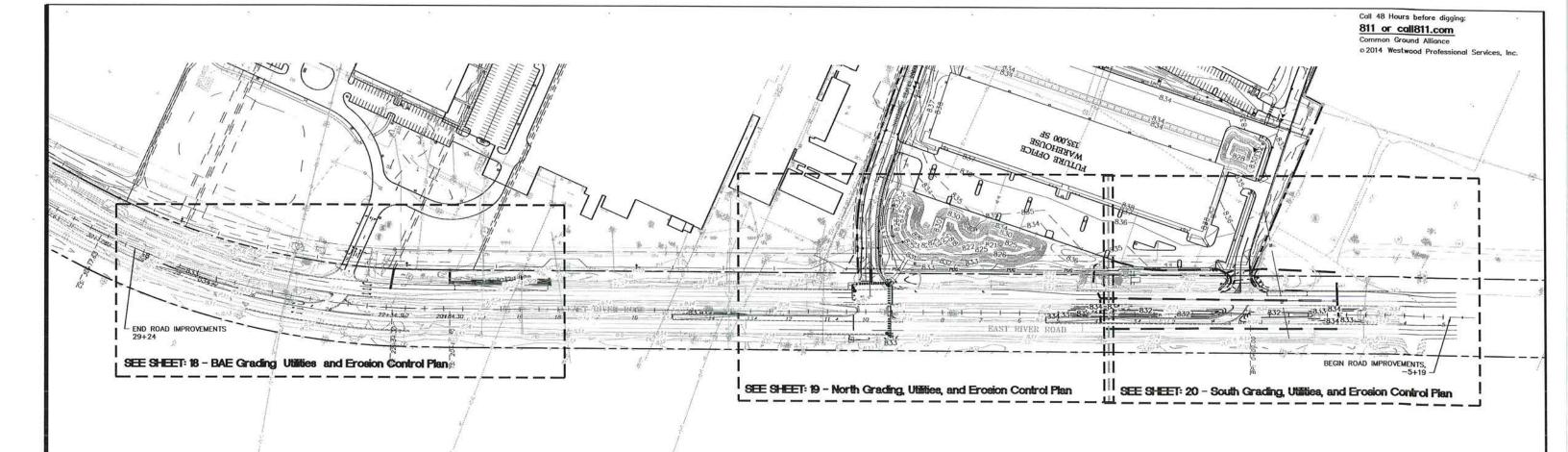
CSAH 1 (East River Type C & D Details - Page 2

of 2





Fridley Land LLC
1350 Lagoon Avenue #920
Minneapolis, MN 55408



Grading Notes

- LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE
- ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SEED. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY, REFER TO TRAFFIC CONTROL SHEETS 9 AND 10. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT
- 4. ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON THIS SHEET. ACCESS AREA TO BE GRADED AT 6:1 (SEE MNDOT STANDARD PLATES 9000E AND 3022C ON SHEET 13).
- CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING
- 6. SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE.
- 7. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL THAT EXISTS AFTER THE SITE GRADING AND UTILITY CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL MATERIAL IN A MANNER ACCEPTABLE TO THE OWNER AND THE REGULATING AGENCIES.
- 8. ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

- PRIOR TO PLACEMENT OF ANY STRUCTURE OR PAVEMENT, A PROOF ROLL, AT MINIMUM, WILL BE REQUIRED ON THE SUBGRADE. PROOF ROLLING SHALL BE ACCOMPLISHED BY MAKING MINIMUM OF 2 COMPLETE PASSES WITH FULLY-LOADED TANDEM-AXLE DUMP TRUCK, OR APPROVED EQUAL, IN EACH OF 2 PERPENDICULAR DIRECTIONS WHILE UNDER SUPERVISION AND DIRECTION OF THE INTERPREDICT IN THE TOTAL OF THE TOTAL OF THE INTERPREDICT IN THE TOTAL OF THE TOTA THE INDEPENDENT TESTING LABORATORY, AREAS OF FAILURE SHALL BE EXCAVATED AND RECOMPACTED AS SPECIFIED HEREIN.
- 10. BITUMINOUS PAVEMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH MNDOT SPECIFICATION 2360
- EMBANKMENT MATERIAL NOT PLACED IN THE BUILDING PAD, STREETS OR PARKING AREA, SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE ORDINARY COMPACTION METHOD AS OUTLINED IN MNDOT 2105.3F2.
- 12. SUBGRADE MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH MNDOT SPECIFICATION 2112
- 13. AGGREGATE BASE SHALL BE PLACED BELOW PAVEMENT AND BE COMPACTED IN ACCORDANCE WITH THE SPECIFIED DENSITY AS OUTLINED IN MNDOT 2211.3.
- 14. ALL SOILS AND MATERIALS TESTING SHALL BE COMPLETED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOILS TESTS AND INSPECTIONS WITH THE

<u>DESCTRIPTION</u>
TNH, NORTH END OF BAE BUILDING, NORTHWEST OF ACCESSORY BUILDING AND CONCRETE LOADING DOCK

TNH, NORTH END OF BAE BUILDING, BETWEEN TRAIN TRACKS AND

TNH, WEST SIDE OF BAE BUILDING, 295' EAST OF BAE SYSTEM

15. CONTRACTOR TO ABIDE BY ALL ANOKA COUNTY PERMIT CONDITIONS.

Erosion Control Notes

- SILT FENCE WILL BE INSTALLED AROUND SITE IN ALL FILL AREAS AND LOCATIONS WHERE STORM WATER RUNOFF MAY LEAVE THE SITE, PRIOR TO ANY EXCAVATION/CONSTRUCTION ACTIVITIES.
- 2. SILTATION AND EROSION CONTROL: THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL THE EROSION AND SILTATION INCLUDING BUT NOT LIMITED CATCH BASIN INSERTS, ROCK CONSTRUCTION ENTRANCES, EROSION CONTROL BLANKET, AND SILT FENCE. CONTROL SHALL COMMENCE WITH GRADING AND CONTINUE THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR'S RESPONSIBILITY INCLUDES ALL IMPLEMENTATION AS BECUIDED. TO PROJECT THE THE OWNER. REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER MAY DIRECT THE CONTRACTOR'S METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITION OF SILT OR MUD ON NEW OR EXISTING PAVEMENT OR IN EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AFFECTED AREAS SHALL BE CLEANED TO THE SATISFACTION OF THE OWNER, ALL AT THE EXPENSE OF THE CONTRACTOR. ALL TEMPORARY EROSION CONTROL SHALL BE REMOVED BY THE CONTRACTOR. AFTER THE TURF IS ESTABLISHED
- CONTRACTOR SHALL INSTALL TEMPORARY INLET PROTECTION (WIMCO OR EQUIVALENT) AROUND ALL CATCH BASIN GRATE INLETS, AFFECTED BY THIS
- 4. ALL UNPAYED AREAS ALTERED DUE TO CONSTRUCTION ACTIVITIES MUST BE RESTORED WITHIN 2 WEEKS OF COMPLETION OF CONSTRUCTION.
- 5. PUBLIC STREETS USED FOR HAULING SHALL BE KEPT FREE OF SOIL AND DEBRIS. STREET SWEEPING SHALL BE COMPLETED DAILY.

TNH, 128' SOUTH OF THE PREVIOUSLY MENTIONED HYDRANT

TNH, 132 SOUTH OF THE MIDDLE OF THE SOUTH SIDE OF THE BAE

Grading Legend

EXISTING	PROPOSED	
		RIGHT OF WAY LINE
980	— — ⁹⁸⁰ — —	INDEX CONTOUR
982	982	INTERVAL CONTOUR
		CURB AND GUTTER
		POND NORMAL WATER LEVEL
		SILT FENCE
		STORM SEWER
ID.	-	CONCRETE SAFETY APRON/GRATE (6:1)
- 1847		WATER MAIN
		SANITARY SEWER
< 1 1 1 1 1 1 1 1 b	•	RETAINING WALL
		DRAIN TILE
		RIDGE LINE
	Desired Amount Amount	GRADING LIMITS
		BIOROLL
	011111	EROSION CONTROL BLANKET
		TURF REINFORCEMENT MAT
ani.on	x ^{91.00}	SPOT ELEVATION
	1.50%	FLOW DIRECTION
	7888	TOP AND BOTTOM OF RETAINING WALL
	E.O.F. 85.00	EMERGENCY OVERFLOW
0	◉	INLET PROTECTION



Date 08/12/14 Sheet 17 OF 42

CSAH 1 (East River

Road Improvements)

Benchmarks

ELEVATION 837.85

837.16

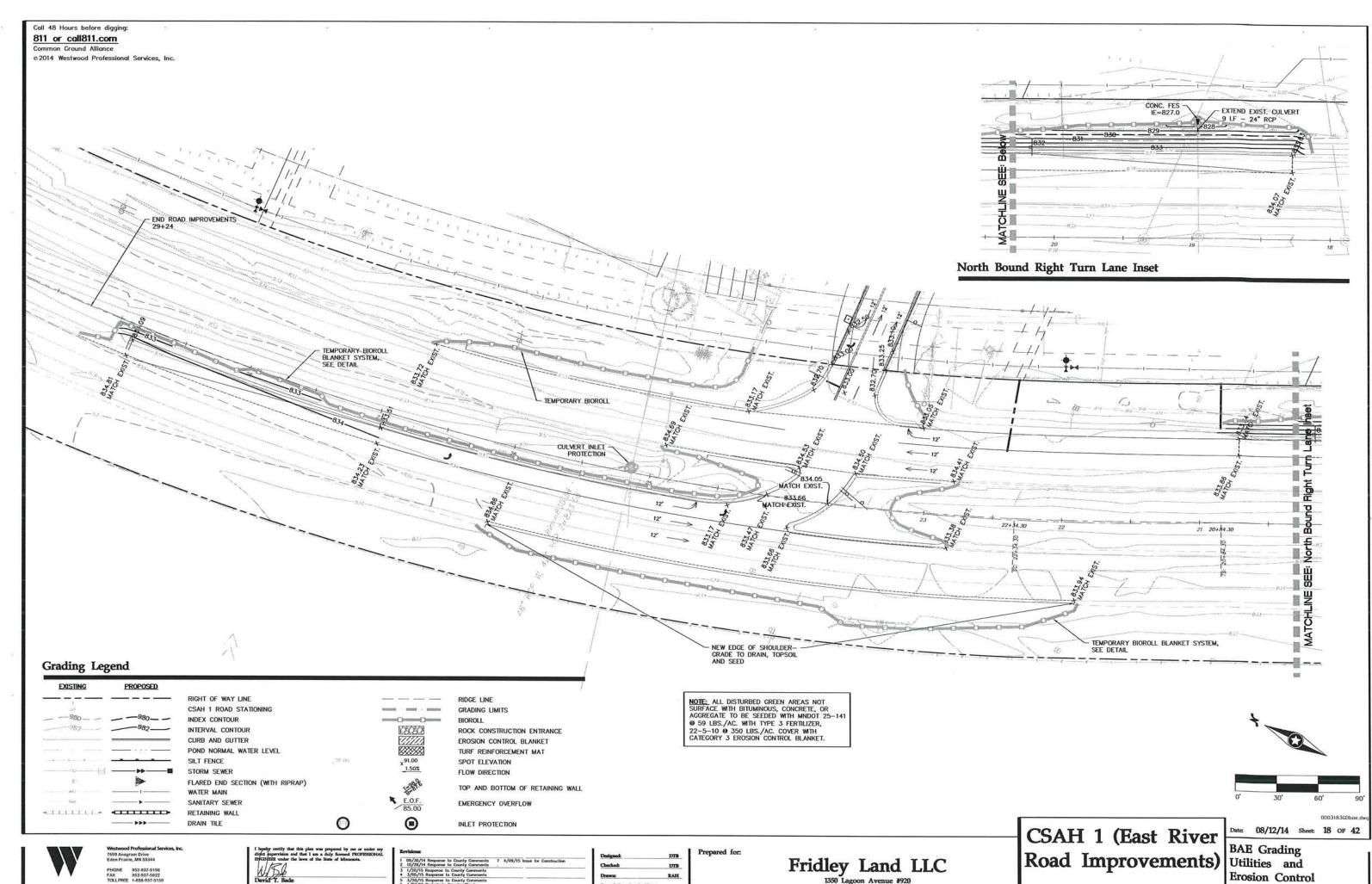
837.05

7 4/09/15 Issue for Construction

DIB

Fridley Land LLC 1350 Lagoon Avenue #920 Minneapolis, MN 55408

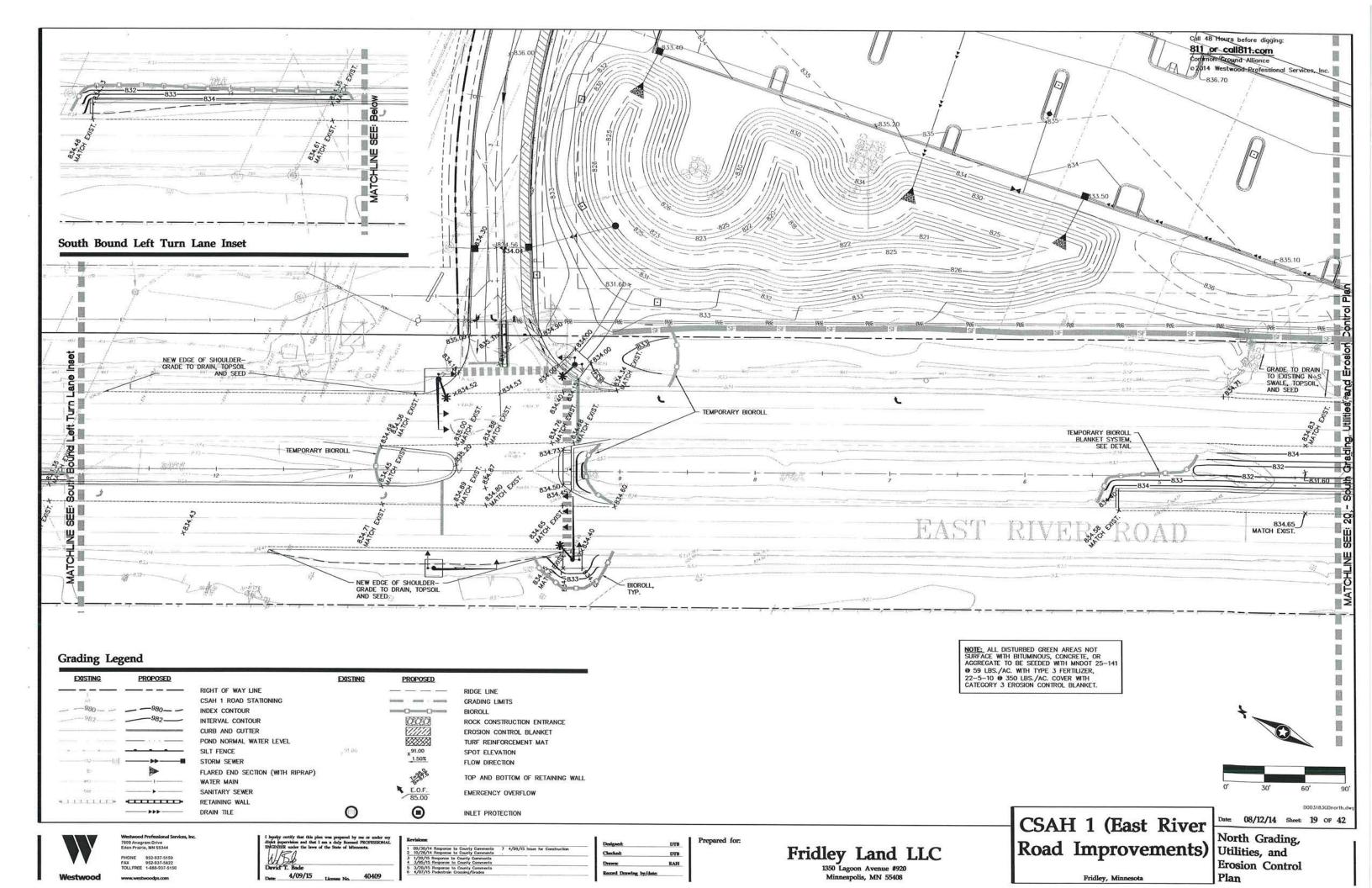
Overall Grading, Utilities, and **Erosion Control** Plan Fridley, Minnesota

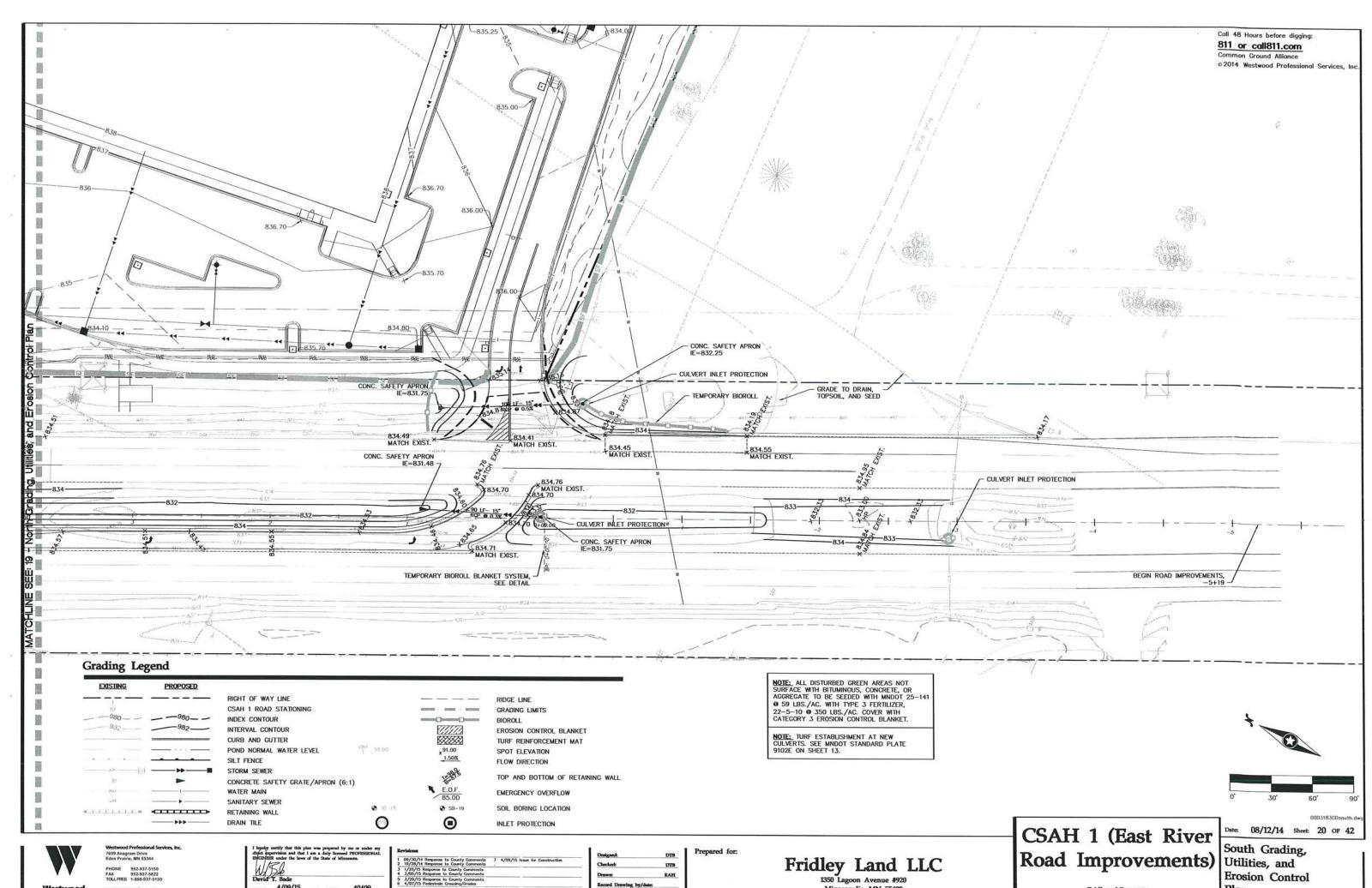


1350 Lagoon Avenue #920 Minneapolis, MN 55408

Fridley, Minnesota

Plan





Minneapolis, MN 55408

Plan

PROJECT NARRATIVE

PROJECT INCLIDES REMOVALS OF BITUMINOUS PAVEMENT AND ADJACENT TURF, PROJECT IS THE CONSTRUCTION OF A LEFT TURN LANE ALONG CSAH 1, STORMWATER WILL BE DEECTED

SEQUENCE OF CONSTRUCTION

(RECOMMENDED SEQUENCE - CONTRACTOR TO DETERMINE FINAL SEQUENCE.)

- 1. CONTRACTOR TO VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED.
- 2. CONTRACTOR TO SCHEDULE FIELD MEETING WITH CITY, LGU, AND/OR WATERSHED.
- CONTRACTOR TO INSTALL ALL PERIMETER SEDIMENT CONTROL DEVICES, CONSTRUCTION ENTRANCES, AND PROTECTIVE FENCING FOR TREES, DITCHES, EXISTING WATER BODIES AND AREAS TO REMAIN UNDISTURBED.
- CONTRACTOR TO CONSTRUCT STORMWATER AND/OR TEMPORARY SEDIMENTATION BASINS.
- CONTRACTOR TO CONTACT CITY, LCU, AND/OR WATERSHED FOR APPROVAL OF SEDIMENT CONTROL DEVICES.
- 6. CONTRACTOR TO ROUGH GRADE SITE AND INSTALL UTILITIES.
- 8. CONTRACTOR TO INSTALL SUB-BASE AND BASE FOR PAVEMENT
- 9. CONTRACTOR TO INSTALL BITUMINOUS AND/OR CONCRETE SURFACE.
- 10. CONTRACTOR TO INSTALL EROSION CONTROL BLANKETS WITH PERMANENT SEED MIX.
- 11. ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED, OBTAIN APPROVAL FROM THE REGULATORY AGENCY WITHIN TWO WEEKS OF FINAL STABILIZATION.
- 12. CONTRACTOR TO REMOVE SEDIMENT CONTROL DEVICES WITHIN TWO WEEKS OF
- 13. SUBMIT NOTICE OF TERMINATION WITHIN 30 DAYS OF FINAL STABILIZATION.

RESPONSIBILITIES

THE PROPERTY OWNER OR CONTRACTOR MUST SUBMIT A COMPLETED NPDES APPLICATION FORM WITH THE APPLICATION FEE.

THE OWNER AND THE GENERAL CONTRACTOR ARE JOINTLY RESPONSIBLE FOR ALL TERMS AND CONDITIONS OF THE PERMIT.

PROPERTY OWNER OR CONTRACTOR TO SUBMIT NPDES NOTICE OF INTENT PERMIT TO DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

CONTRACTOR TO SUBJUIT NPDES NOTICE OF TERMINATION TO MPCA WITHIN ONE WEEK OF FINAL RESTORATION ACCEPTANCE.

CONTRACTOR TO MONITOR AND REPORT ON STORM WATER MANAGEMENT REQUIREMENTS

FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS WHERE THE OWNER OR OPERATOR CHANGES, THE NEW OWNER OR OPERATOR MUST SUBMIT A NOTICE OF TERMINATION/PERMIT MODIFICATION FORM UPON TRANSFER.

- CONTRACTORS RESPONSIBILITY

 1. OWESSE METLEDITATION OF THE SWPPP.
 2. RISTILLATION, RESPECTION AND MANITEMANCE OF EROSON PREVENTION AND SEDMENT CONTROL BMP'S BEFORE, AND DURING CONSTRUCTION.

 3. EMERITY PERSON(S) NONDELEGRALIE AND DEFERREDCE IN THE APPLICATION OF EROSON PREVENTION AND SEDMENT CONTROL BMP'S WHO WILL OWERSE THE MAPLICATION OF PROPERTY OF A CHARLE OF SERVICE AND A CHARLE OF SERVICE AND A CHARLE OF SERVICE OF THE SWPF OF THE SERVICE OF THE SWFF O

PERMITTEE MUST AMEND SWPPP AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS, SUCH AS ADDITIONAL OR MODIFIED BMP'S, DESIGNED TO CORRECT PROBLEMS INSTRIPTED OR ADDITIONAL OR MODIFIED BMP'S, DESIGNED TO CORRECT FORCES STRUCTIONS WEIGHTENED OR ADDITIONAL OR MAINTENANCE.

6. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE.

7. WEATHER OR SEASONAL CONDITIONS THAT HAVE SCHIPICANT EFFECT ON

- MEATHER DIE SEASUNG CONDITIONS THAT HAVE SIGNERANT EFFECT ON
 INSCHARGE.
 INSPECTION OR INVESTIGATION BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL
 OFFICIALS INDICATE THE SMPPP IS NOT EFFECTIVE.
 THE SMPPP IS NOT ACHIEVEN OTHE CEMENAL OBJECTIVES OF CONTROLLING
 POLILITATIS OR THE SMPPP IS NOT CONSISTENT WITH THE TETRIS AND
 CONDITIONS OF THE SMPPP IS NOT CONSISTENT WITH THE TETRIS AND
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	TRAINED PERSONNEL	
SWPPP DESIGNER NAME/COMPANY:	GRETCHEN SCHROEDER, WESTWOOD PROFESSIONAL SERVICES INC	
TRAINING:	U OF M, DESIGN OF SWPPP	
NAME/COMPANY: TRAINING:		
MP INSTALLER NAME/COMPANY: TRAINING:		
NAME/COMPANY: TRAINING:		

PERMITTEE MUST ENSURE CONSTRUCTION ACTIVITIES THAT INVOLVE DEWATERING AND/OR BASIN DRAINING ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. THE DISCHARGE MUST BE DISPERSED OVER RIP RAP, SANDBAGS, PLASTIC SHEETING, OR OTHER ACCEPTABLE DISSIPATION MEASURES.

THE PERMITEE MUST ENSURE THAT DEWATERING DISCHARGE POINTS AND/OR THE TEMPORARY SEDIMENTATION BASIN DISCHARGE POINT HAS ADEQUATE PROTECTION FROM EROSION AND SCOUR.

TEMPORARY SEDIMENTATION BASINS OR OTHER EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
ROCK CONSTRUCTION ENT.	EA	NA
INLET PROTECTION	EA	NA
SEED AND MULCH	SF	78,000
HEAVY DUTY SILT FENCE	LF	12
BIOROLL LOG	LF	787

NPDES AREA SUMMARY

ITEM	QUANTITY	
TOTAL PROJECT AREA	3.54 AC	
EXISTING IMPERVIOUS AREA	2.38 AC	
EXISTING PERVIOUS AREA	1.16 AC	
PROPOSED IMPERMOUS AREA	1.75 AC	
PROPOSED PERVIOUS AREA	1.79 AC	

EROSION PREVENTION AND SEDIMENT CONTROL

Permittee must implement the swppp and install bmp's dentified in the swppp in an appropriate and functional manner.

THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED ON THE SITE BEFORE DEVELOPMENT RECINS.

ALL DOWN GRADIENT PERIMETER SEDIMENT CONTROLS MUST BE IN PLACE BEFORE ANY UP GRADIENT DISTRURBANCE BEGINS & MAINTAINED UNTIL FINAL STABILIZATION.

STORM WATER PONDS, SEDMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDMENT ON-SITE WILL BE CONSTRUCTED AS A FIRST STEP IN GRADING, AND WILL BE MADE FUNCTIONAL BEFORE LAND DISTURBANCE TAKES PLACE UPSLOPE, EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSONS MUST BE SEEDED AND MALCHED WITHIN 48 HOURS OF INSTALLATION, UTILITY AND PANING WORK WILL COMMENCE UPON COMPLETION OF THE GRADING OPERATIONS. ALL EROSION CONTROL MEASURES AND PROTECTIVE FENCHING MUST BE INSTALLED AND INSPECTED BY THE CITY OR LOCAL COVERNMENT UNIT PRIOR TO BECENNING OF ANY GRADING.

TEMPORARY STOCKPILES MAY BE LEFT ON THE SITE FOR USE IN BACGILL REPLENSAMENT STOCKPILES MUST HAVE SLIT FENCE OR OTHER EFFECTIVE BUP'S TO CONTROL RUNGER. STOCKPILES AND THE PLACED IN SURFACE WATER CONVEYANCE DEVICES (CLIBE AND GUTTER, SWALES OR DITCHES). TOPSOL WILL BE RESPREAD PROGRESSYELY AS THE GRADING WORK CONTINUES. IF STOCKPILES ARE TO REMAIN FOR MORE THAN 60 DAYS, TEMPORARY SEEDING MUST BE PLACED.

NORMAL WETTED PERIMETER OF DITCHES THAT DRIAIN WATER FROM, OR AROUND A SITE, MINEY TE STABILIZED WHITEN 200 FEET OF PROPERTY EDGES OR POINT OF DISCHARGE TO SURFACE WATER—WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.

STABILIZATION MUST OCCUR AS SOON AS POSSIBLE BUT IN NO CASE MORE THAN 14 DAYS, REGARDLESS OF DEGREE OF SLOPE OR DISTANCE FROM A SURFACE WATER.

ALL STORM DRAIN INLETS MUST BE PROTECTED WITH BMP'S

ROCK CONSTRUCTION ENTRANCES OR EQUIVALENT SYSTEM MUST BE USED TO MINIMIZE TRACKING FROM SITE.

ALL OUTFLOWS FROM BMP'S MUST HAVE APPROVED ENERGY DISSIPATION SUCH AS RIP RAP WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER.

CONTRACTOR SHALL OVEREXCAVATE TEMPORARY SEDIMENT POND BOTTOM IF POOR SUBSOILS BECOME SATURATED AND REPLACE WITH COMPACTED FILL MATERIAL PER REQUIREMENTS OF GEOTEORNICAL REPORT. CONTRACTOR IS TO PLACE A THREE FOOT WIDE STRIP OF SOO BEHIND THE CURB FOLLOWING BACKFILLING TO PREVENT EROSION IN THIS AREA.

EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 3:1 OR STEEPER.

POLLUTION PREVENTION

CONTRACTOR TO DISPOSE OF ALL TRASH AND POTENTIALLY HAZARDOUS MATERIALS IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL STANDARDS.

THE PERMITTEE SHALL IMPLEMENT THE FOLLOWING POLLUTION PREVENTION MANAGEMENT MEASURES ON THE STE:

1. SOLID WASTE: COLLECT SEDIMENT, ASPHALT AND CONCRETE MILLINGS, FLOATING DEBTS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBTS AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.

- HAZARDOUS MATERALS: OL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDION SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAVES OR OTHER DISCUMPCE, RESTRICTED ACCESS TO STORAGE, REAS MUST BE FROMBED TO PREVENT VANDALISM, STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPUTANCE WITH MPCA RECOLLATION.
- EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES MUST BE LIMITED TO DEFINED AREA OF THE STEE RUNOFF MUST BE CONTAINED & WASTE PROPERLY DISPOSED OF. NO ENGINE DEGREASING ALLOWED ON STE.
- CONTRACTOR SHALL FOLLOW THE MINDOT GUIDANCE FOR BEST MANAGEMENT PRACTICE FOR CONCRETE WASHOFF OF VEHICLE, EQUIPEMENT, PAVEMENT & WALLS.
- CONTRACTOR SHALL FORMULATE A PLAN TO ADDRESS ANY ACCIDENTAL DISCHARGE OF POLLITANTS OR POTENTIALLY HAZARDOUS MATERIALS. THIS PLAN SHOULD INCLUDE CONTAINMENT, CONTRACTING OF LOCAL AND STATE AGENCIES, MITIGATION AND DISPOSAL.
- FORM RELEASE OIL USED FOR CONCRETE WORK MUST BE APPLIED OVER A PALLET CONTAINING ABSORBANT TO COLLECT EXCESS LIQUID. THE ABSORBANT MATERIAL WILL BE REPLACED AND PROPORTY DESPOSED WHEN SATURATED.
- DISCIANCES FROM BASIN DEWATEBING OPERATIONSHAM ARE TURBED OR SEDMEN LADEN SALAL BE DESCHARGED IN TRAMPORARY SEDMENTATION BASINS CONSTRUCE STATE OF BEEN DEVELOPED DISCINITION OF THE SECOND SECOND SECOND STATE OF BEEN ARE NOT FEASIBLE DISCHARGES WILL BE DISPERSED OVER NATURAL ROCK REPARA, SHEETING, PLASTIC OR OTHER EMERCY DISSIPATION MEASURES. (DEWATERING AND ANY SWIPP MEASURES ARE INCIDENTAL)
- Contractor shall follow mendot guidance for water pollution control for vehicle and equipement operations.

INFILTRATION SYSTEMS

Infiltration/filtration systems should not be excavated to final grade until The contributing drainage area has been stabilized.

WOVEN MONOFILIMENT (36" WIDE) -

STEEL T-POST-

STANDARD DETAIL

BLANKET (SPEC. 3885)

STRAW OR WOOD FIBER 6" OR

12" DIA. ROLL ENCLOSED IN PLASTIC OR POLYESTER NETTING

2. TYPE 3 SPEC. 3889

BIOROLL MIN. 10' LONG

ACCUMULATED TO 1/3 THE HEIGHT OF THE FABRIC OR MORE

MACHINE SLICED SILT FENCE

TEMPORARY BIOROLL BLANKET SYSTEM

(DITCH_APPLICATION

Infiltration areas must be staked off and marked to elbenate construction traffic from compacting the soil.

DURING EXCAVATION, SEDIMENT AND EROSION CONTROL DEVICES SHOULD BE UTILIZED TO PREVENT SEDIMENTATION.

INFILTRATION BASINS SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES FOLLOWING FINAL GRADING:

Infiltration areas must be inspected to ensure that no sediment from ongoing construction is reaching the infiltration area. Infritration areas shall be excavated and graded with low impact tracked earth moving equipment.

MAINTENANCE OF BMP'S

CONTRACTOR TO MAINTAIN ALL EROSION CONTROL ITEMS, REMOVE ACCUMULATED SEDMENTS, CLEAN UP MUD TRACKED FROM THE SITE ON TO ADJACENT STREETS, AND CONTROL DEVIX ALL EROSION CONTROL DEVELOPED AND MAINTAINED ACCORDING TO THE DETAILS INCLIDED IN THE CONSTRUCTION DOCUMENTS.

ALL SILT MUST BE REMOVED FROM SILT FENCE, WHEN IT REACHES A HEIGHT EQUAL TO ONE—THIRD OF THE HEIGHT OF THE SILT FENCE. THE CONTRACTOR MUST PERFORM ANY CORRECTIVE MEASURES ORDERED BY THE CITY, LOCAL COVERNMENT UNIT, OR MFCA WITHIN 24 HOURS OF SUCH NOTICE. THE CONTRACTOR SHALL ALSO PLACE ANY ADDITIONAL EROSON CONTROL MEASURES DEEMED NECESSARY BY THE CITY OR MPCA WITHIN 24 HOURS OF NOTICE.

CONTRACTOR SHALL BE RESPONSBLE FOR KEEPING EXISTING PAWED SURFACES CLEAN OF SEDIMENT BY STREET SWEEPING ROADWAYS WHEN A SIGNIFICANT ACCUMULATION OF SEDIMENT COLORS ON THESE SURFACES. ANY SEDIMENT TRACKED OFF-SITE IS TO BE REMOVED WITHIN 24 HOURS, SWEEPING MUST ALSO OCCUR WHEN DIRECTED BY CITY.

TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND SEDIMENT REMOVED ONCE THE SEDIMENT COLLECTED RELOCIES ONE—THIRD THE STORAGE VOLUME MITHIN 72 HOURS, AS FELD CONDITIONS ALLOW.

SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT BEING DEPOSITED BY EROSION.

THE PERMITTEE(S) MUST REMOVE ALL DELTAS AND SEDMENT DEPOSITED IN SURFACE WATERS (INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS) AND RESTABLIZED THE AREAS WHERE SEDMENT REMOVAL RESILATS IN EPOPGED SOLS. THE REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN DAYS OF DISCOVERY UNLESS PRECLUDED BY LECAL REGILATIONY, OR PHYSICAL ACCESS CONSTRAINTS. THE PERMITTEE IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES & RECEINING MY APPLICABLE PERMITS, PRORT TO CONDUCTING WORK.

IF THE DOWN GRADIENT TREATMENT SYSTEM IS OVER LOADED, THE SWPPP MUST BE AMENDED.

INSPECTION & RECORD RETENTION

- ANY OTHER PERMITS REQUIRED FOR THE PROJECT.
 RECORDS OF ALL INSPECTION AND MAINTENANCE CONDUCTED DURING
- RECORDS OF ALL INSPECTION AND MAINTENANCE CURRIQUIED DURING.
 ALL PERMANENT OPERATION AND MAINTENANCE ARRESIDENTS THAT HAVE BEEN
 MAPLICHTEIN, MOLDIONS ROGIT OF WAY, CONTRACTS, COVENANTS, AND OTHER BRIDING
 REQUIREDINTS RECARDING PERFETURE MAINTENANCE.
 ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT
 STORM WATER MANAGEMENT SYSTEMS.

THE PERMITTEE MUST ROUTINELY INSPECT THE SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INDEES IN 24 HOURS.

ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED IN WRITING AND RETAINED WITH THE SWPPP, WITHIN 24 HOURS OF INSPECTION.

- RECORDS SHOULD INCLUDE:

 DATE AND TIME OF INSPECTIONS.

 MAKE OF PERSON CONDUCTING INSPECTION.

 PROBING OF INSPECTION INCLUDING CORRECTIVE ACTION, DETAILS OF CORRECTIVE ACTION (DATE, TIME, PARTY COMPLETING AMONIEMANCE)

 ACTION (DATE, TIME, PARTY COMPLETING AMONIEMANCE)

 DOCUMENTATION OF CHANCES TO SUPPLY.

 DISCREME DESCHARGE (DOCATIONS) SUPPLY.

 DESCRIBED DESCHARGE (DOCATIONS)

 DESCRIBED DESCRIBED DESCHARGE (DOCATIONS)

 DESCRIBED DESCRIBED DESCHARGE (DOCATIONS)

 DESCRIBED DESC

NOTICE OF TERMINATION

PERMITTEES MUST SUBMIT A NOTICE OF TERMINATION (NOT) WITHIN 30 DAYS IF ONE OR MORE OF THE FOLLOWING CONDITIONS HAVE BEEN MET:

- FINAL STABILIZATION HAS BEEN AGREED ON ALL PORTIONS OF THE SITE FOR WHICH PERMITTEE IS RESPONSIBLE, INCLUDING THE REMOVAL OF ALL TEMPORARY MEASURES SLICIA AS SILT FENCE.

 ANOTHER OWNER HAS ASSUMED CONTROL OVER ALL PORTIONS OF THE SITE THAT HAVE HOT AGREEVED THAN STABILIZATION. IN THE CASE OF RESIDEDITAL CONSTRUCTION, TEMPORARY EROSON PROTECTION AND DOWN GRADENT PERMITTEE CONTROL FOR INMIDIAL LOTS HAS BEEN COMPLETED AND THE RESIDENCE HAS BEEN TRANSFERRED TO THE HOMEOWHER, PERMITTEE MUST ENSURE THAN STABILIZATION OF THE SITE AND SUBMIT THE NOT WITHIN 30 DAYS OF FINAL STABILIZATION.

FINAL STABILIZATION CAN BE ACHIEVED IN THE FOLLOWING WAY:

ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL VECETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PERMOUS SURFACE HAS

OUALITY BASINS.
FOR RESIDENTIAL EVELOPMENTS, FINAL STABILIZATION HAS BEEN ACHEVED WHERE
TEMPORARY EROSION PROTECTION AND DOWN CRADIENT PERMILITER CONTROL FOR
NOWDULAL LOTS HAVE BEEN COMPLETED.
RESIDENCE HAS BEEN TRANSFERRED TO THE ACHEONNER. THE PERMITTEE MUST
DISTRIBUTE THE MECA "THANGENMER FACT SHEET" TO THE HOMEOWNER.

SPECIAL OR IMPAIRED WATERS

THE MISSISSIPPI RIVER IS AN IMPAIRED WATER LOCATED WITHIN 1 MILE OF THE PROJECT. HOWEVER, IT IS IMPAIRED FOR ONLY NON-CONSTRUCTION RELATED PARAMETERS AND TRESEPORE DOES NOT RECOURE ANY ADDITIONAL BEST MANAGEMENT PRACTICES(BMPs) OR PLAN REVIEW FOR COMPLIANCE WITH THE NPDES/SOS CONSTRUCTION FEBRUT.

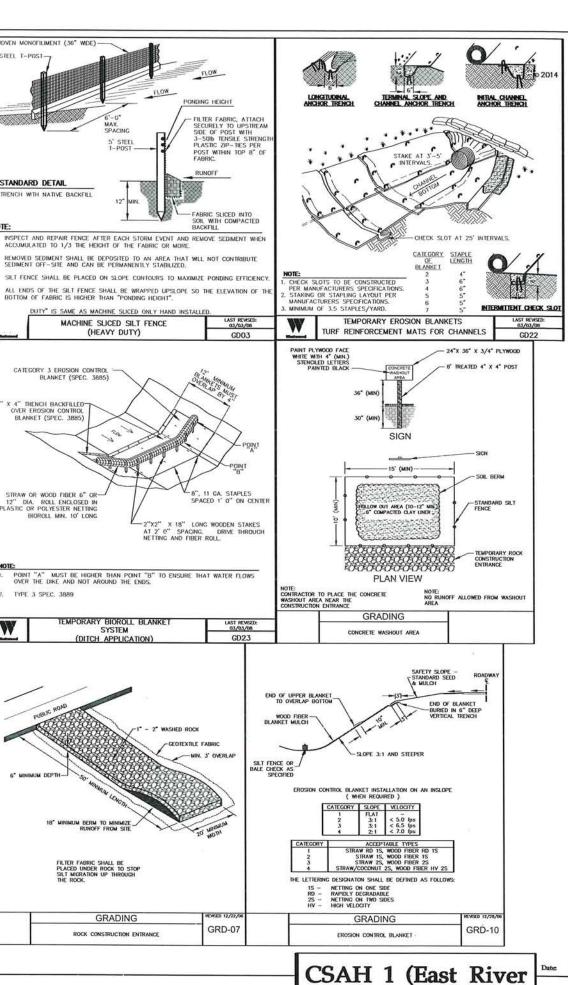
THERE ARE NO SPECIAL WATERS LOCATED WITHIN 1 MILE OF THE PROJECT. STORMWATER RUNOFF ONSITE CONVEYED WA EXISTING DITCH LINES WHICH CONVEY WATER TO THE MISSISSIPPI RIVER.

Checked

Prepared for:

Fridley Land LLC

GRADING



Fridley, Minnesota

0003183SWPP.dw Date: 08/12/14 Sheet: 21 OF 42

Stormwater Pollution Road Improvements) Prevention Details and Notes

Gretchen A. Schroeder

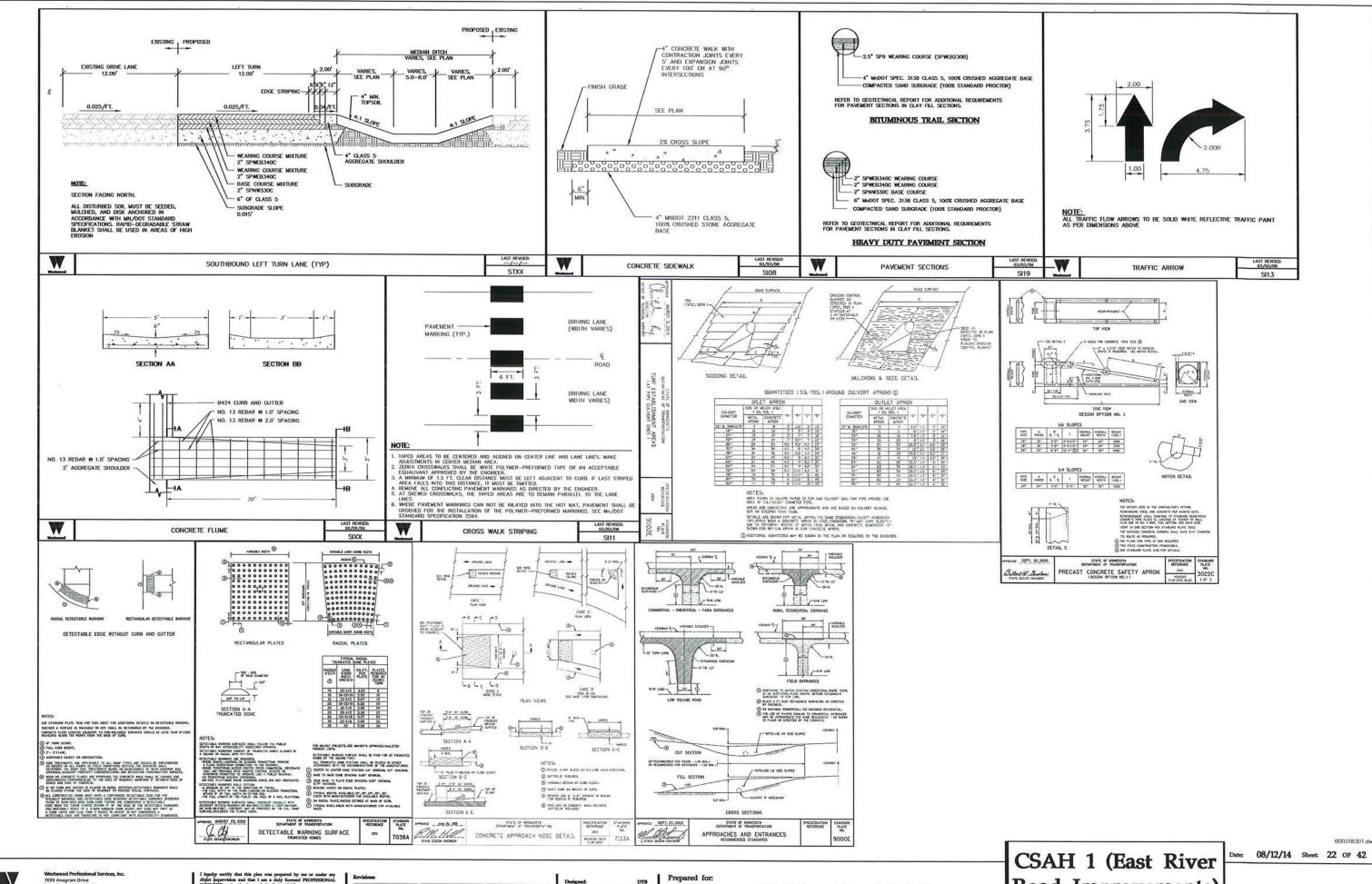
Date: 4/09/15 License No. 43019

1 69/30/14 Response to Coorty Comments
 2 10/28/14 Response to Coorty Comments
 3/20/15 Response to Coorty Comments
 3/20/15 Response to Coorty Comments
 3/20/17 Response to Coorty Comments
 4/20/17 Potentian Coorty/Comments
 4/20/17 Potentian Coorty/Coortes

DIB RAH

DTB / GAS

1350 Lagoon Avenue #920 Minneapolis, MN 55408



PHONE 952-937-5150

Date: 4/09/15

1 09/30/14 Response to County Comments 7 4/09/15 Issue for Construction 2 19/29/16 Response to County Comments 3 4/09/15 Response to County Comments 5 4/09/15 Response to County Comments 6 4/09/15 Pedestria Crossleng/Dodes

DIB RAH

Fridley Land LLC 1350 Lagoon Avenue #920 Minneapolis, MN 55408

Road Improvements)

Details

NOTES:

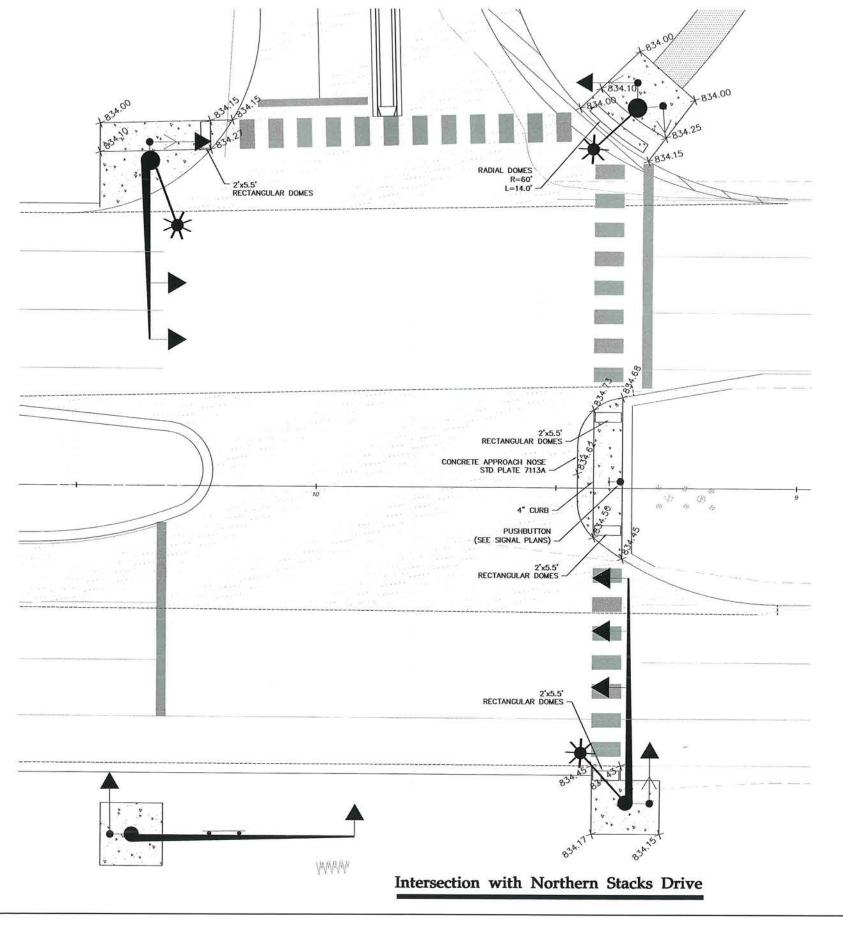
PEDESTRIAN LANDING: 0.02 FT/FT OR FLATTER IN ALL DIRECTIONS 4.0' X 4.0' MINIMUM AREA

PEDESTRIAN ACCESS ROUTE: 0.08 FT/FT OR FLATTER ALONG PATH 0.02 FT/FT OR FLATTER ACROSS PATH

REFER TO MN/DOT STANDARD PLAN 5-297.250 FOR PEDESTRIAN CURB RAMP DETAILS.

Date: 08/12/14 Sheet: 23 OF 42

CSAH 1 (East River Road Improvements) Pedestrian Crossing Detail



DTB

Fridley Land LLC

1350 Lagoon Avenue #920
Minneapolis, MN 55408