GENERAL

- I. THE SURVEY WAS PROVIDED BY CHAPUT LAND SURVEYS ON JUNE 27th, 2023. LOCATION OF ALL STRUCTURES, OBSTACLES, AND EXISTING FACILITIES SHALL NOT BE TAKEN AS CONCLUSIVE. IT SHALL BE ASSUMED THAT THE CONTRACTOR HAS VERIFIED SAID LOCATIONS AS A CONDITION OF HIS BID AND THEREFORE THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM HIS ACTIVITIES.
- 2. REFER TO TOPOGRAPHIC MAP BY CHAPUT LAND SURVEYS, DATED JUNE 27, 2023 FOR INFORMATION ON COORDINATES AND SURVEY CONTROL.
- 3. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO CARRY OUT THEIR WORK.
- 4. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL FROM THE OWNER A LIST OF ALL MATERIALS PROPOSED TO BE USED PRIOR TO ORDERING OR DELIVERY.
- 5. ALL CONTRACTORS SHALL HAVE A COMPETENT FOREMAN, SUPERINTENDENT, OR OTHER REPRESENTATIVE AT THE SITE AT ALL TIMES WHO HAS AUTHORITY TO ACT FOR THE CONTRACTOR.
- 6. CONTRACTORS SHALL BE RESPONSIBLE FOR ADEQUATELY BARRICADING AREAS AND ERECTING A CONSTRUCTION FENCE AROUND THE PERIMETER OF THE SITE OF CONSTRUCTION TO PROTECT AGAINST PERSONAL INJURY AS WELL AS WARN TRAFFIC OF THE CONSTRUCTION SITE WHERE NECESSARY. SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) MOST RECENT VERSION WITH WISDOT SUPPLEMENT. ALL OTHER SIGNS MUST BE PRE-APPROVED BY OWNER.
- . ALL DIMENSIONS ARE TO THE FACE OF CURB, EDGE OF PAVEMENT, FACE OF BUILDING OR PROJECT WORK LIMIT LINE UNLESS OTHERWISE NOTED.
- 8. WHERE SPECIFIC PORTIONS OF THESE PLANS & SPECIFICATIONS ARE IN CONFLICT WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION, THESE PLANS & SPECIFICATIONS SHALL GOVERN.
- 9. ALL CONSTRUCTION MATERIALS SHALL BE STORED ON SITE. CONTRACTOR MAY STORE MATERIALS OFFSITE WITH WRITTEN APPROVAL OF THE OWNER.

GRADING

- 1. THE CONTRACTOR SHALL GRADE LANDSCAPE AREAS TO ALLOW FOR PLACEMENT OF TOPSOIL, SEED, MULCH AND PLANTINGS BY LANDSCAPE CONTRACTOR PER THE LANDSCAPE SPECIFICATIONS AND PLANS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING PROPERTY CORNERS AND PERTINENT AREAS WITHIN ALL EASEMENTS.
- 3. THE BASE COURSE SHALL BE PLACED ONLY ON SUBGRADE THAT HAS BEEN PROOF-ROLLED.

PAVING

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE CRUSHED STONE BASE ON THE DRIVEWAY TO THE DEPTHS INDICATED.
- BASE COURSE IN PROPOSED ASPHALT PAVEMENT AREAS SHALL BE IN ACCORDANCE WITH THE SITE PLAN AND THE TYPICAL PAVEMENT SECTION SHOWN ON THE DETAIL DRAWING.
- 3. PRIOR TO PLACING THE PAVEMENT, THE SURFACE OF THE CRUSHED STONE BASE COURSE SHALL BE GRADED TO PROPER ELEVATION AND COMPACTED.
- 4. PRIOR TO PLACING THE SURFACE COURSE, THE CONTRACTOR SHALL REMOVE ALL FOREIGN MATTER FROM THE SURFACE OF THE UPPER LAYER AND REPAIR, BY SAW CUTTING, REMOVAL AND REPLACEMENT, ANY DEPRESSION OR SIGNS OF FAILURE AND ALL SURFACE IRREGULARITIES AS DIRECTED BY THE ENGINEER. A TACK COAT SHALL BE APPLIED PRIOR TO PLACEMENT OF THE SURFACE COURSE.
- 5. AFTER COMPLETION OF THE SITE PAVING, THE CONTRACTOR SHALL PAINT THE PARKING LINES AS SHOWN ON THE PLANS.

SIDEWALK AND MISCELLANEOUS

- I. ALL SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED OFFSITE BY CONTRACTOR. CONTRACTOR TO COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 2. INSTALL SIDEWALK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND PLANS.

UTILITY NOTES

- . CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS (VERTICALLY AND HORIZONTALLY) PRIOR TO CONSTRUCTION. ALL UTILITIES ARE CONSIDERED CRITICAL AND MUST BE MAINTAINED AND PROTECTED DURING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL USE CAUTION DURING EXCAVATION AND WHEN SUPPORTING UTILITIES AS NEEDED TO FACILITATE THE WORK.
- 2. DAMAGES TO UTILITIES RESULTING FROM CONSTRUCTION WORK AND EXCAVATION SHALL BE IMMEDIATELY REPORTED TO THE MILWAUKEE COUNTY PROJECT REPRESENTATIVE, CITY OF WAUWATOSA AND UTILITY OWNERS. THE GENERAL PRIME CONTRACTOR IS RESPONSIBLE FOR ALL WORK AND COSTS ASSOCIATED WITH RESTORING THE DAMAGES TO LIKE OR BETTER CONDITION.
- 3. ALL UTILITIES SHOWN ARE BASED ON FIELD MARKINGS/PRINTS PROVIDED BY CITY OF WAUWATOSA, PRIVATE UTILITY LOCATORS, DIGGER'S HOTLINE, OR RECORD DRAWINGS BY OTHERS. GENERAL PRIME CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE AT 811 OR 1-800-242-8511 PRIOR TO PERFORMING EARTH MOVING ACTIVITIES. GENERAL PRIME CONTRACTOR SHALL CONTACT ANY OTHER UTILITY WHICH MAY BE PRESENT WHICH ARE NOT PART OF THE ONE CALL SYSTEM AND PROVIDE PRIVATE LOCATING AS NEEDED. GENERAL PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRIVATE LOCATING COSTS.

SANITARY SEWER

- 1. ALL SANITARY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND CITY OF WAUWATOSA STANDARDS. REFERENCES ARE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (CURRENT EDITION) AND REGULATIONS OF THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) (SPS 382).
- 2. ALL PIPE MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING: SEE CONTRACT SPECIFICATIONS FOR DETAILS.
- A. SANITARY LATERAL- SECTION 33 30 00 FOR PVC PIPE, ASTM D3034, SDR 26.
- 3. ALL SANITARY PIPE JOINT CONNECTIONS SHALL BE PUSH-ON RUBBER GASKET
- 4. ALL STRUCTURES SHALL CONFORM TO THE PLANS AND SECTION 33 44 20 OF THE PROJECT SPECIFICATIONS.
- 5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL SANITARY PIPES AND STRUCTURES PRIOR TO ORDERING.

STORM SEWER

- 1. MAINTAIN PROPER STORMWATER DRAINAGE AT ALL TIMES DURING CONSTRUCTION.
- 2. ALL STORM SEWER PIPE MATERIAL SHALL CONFORM TO SECTION 33 40 00, WHILE ALL STORM STRUCTURES SHALL CONFORM TO THE PLANS AND SECTION 33 44 20 OF THE PROJECT SPECIFICATIONS.
- 3. STORM SEWER SHALL BE CONSTRUCTED PER PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES AND THE CITY OF WAUWATOSA.
- 4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL STORM PIPES AND STRUCTURES PRIOR TO ORDERING.

WATER SERVICE

- 1. ALL WATER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND CITY OF WAUWATOSA STANDARDS. REFERENCES ARE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, CURRENT EDITION AND REGULATIONS OF THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) (SPS 382) FOR PRIVATE DEVELOPMENT WORK.
- 2. ALL PIPE MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WAUWATOSA WATER UTILITY SPECIFICATIONS AND INSTALLATION REQUIREMENTS AND THE FOLLOWING:
- 2.1. WATER BRANCH SPECIFICATION SECTION 33 10 00 FOR DUCTILE IRON PIPE.
- 3. ALL WATER FITTINGS SHALL CONFORM TO SPECIFICATION SECTION 33 10 00. OFFSET FITTINGS SHALL BE MEGA-LUGS OR APPROVED CITY EQUAL.
- 4. CITY OWNED WATER VALVES SHALL BE FURNISHED AND INSTALLED BY WAUWATOSA WATER UTILITY.

MIDWEST FIBER NETWORK (COMMUNICATION):

AT&T DISTRIBUTION (COMMUNICATION):

CONTACT:

CONTACT:

CONTACT:

PHONE:

WISCONSIN DOT

PHONE:

PHONE:

INDEX OF SHEETS

GENERAL NOTES & LEGEND EXISTING CONDITIONS EROSION CONTROL PLAN C030 - EROSION CONTROL DETAILS C100 DEMOLITION PLAN SITE PLAN C200 C300 GRADING PLAN GRADING DETAILS UTILITY PLAN C500-504 - CONSTRUCTION DETAILS

UTILITY CONTACTS

MILWAUKEE METROPOLIATN SEWERAGE **DISTRICT (SEWER):** CONTACT:

PHONE:

CITY OF WAUWATOSA (WATER):

CONTACT: PHONE

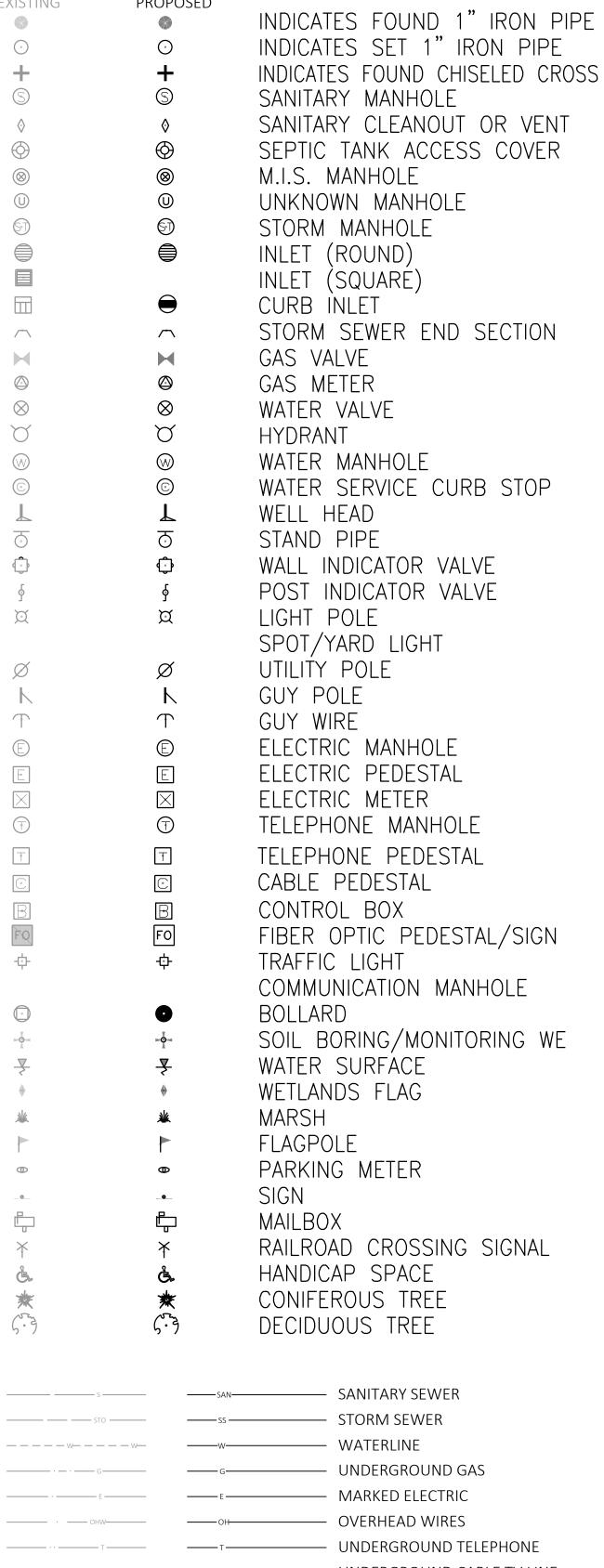
PHONE

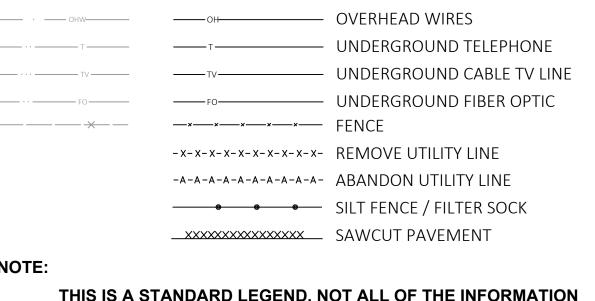
WE ENERGIES (ELECTRIC AND GAS): CONTACT: PHONE:

TIME WARNER CABLE (COMMUNICATION): CONTACT:



LEGEND ABBREVIATIONS - AMERICANS WITH DISABILITIES ACT EXISTING **PROPOSED** - AGGREGATE - BACK OF CURB • - BITUMINOUS/ASPHALT BOC - BACK OF CURB CE - COMMERCIAL ENTRANCE CIP - CAST IRON PIPE CO - CLEANOUT CONC - CONCRETE - CORRUGATED METAL PIPE CSP - CONCRETE SEWER PIPE CSM - CERTIFIED SURVEY MAP - DIAMETER - DUCTILE IRON PIPE - ELEVATION **EMD** - ELECTRICAL MANHOLE DRAIN EX - EXISTING EOP - EDGE OF PAVEMENT - FRAME AND COVER - FACE OF CURB FOC - FACE TO FACE - FINISHED GRADE - FLARED END SECTION INV - INVERT \mathcal{O} - LENGTH OF CURVE LF - LINEAR FT - LEFT LT - MECHANICAL, ELECTRIC & PLUMBING MEP - NATURAL GAS ОН - OVERHEAD UTILITY - POINT OF CURVATURE - POLYETHYLENE PIPE - POINT OF INTERSECTION - PROPERTY LINE PT - POINT OF TANGENCY PVC - POLYVINYL CHLORIDE PIPE PVI - POINT OF VERTICAL INTERSECTION - RADIUS RCP - REINFORCED CONCRETE PIPE - TOP OF CASTING ELEVATION E **ROW** - RIGHT OF WAY - RIGHT - SANITARY SEWER \times - STORM SEWER SD - SUMP DISCHARGE \bigcirc - TOP OF CURB - TOP OF WALL UD - UNDERDRAIN - VERTICAL CURVE B - WISCONSIN DEPARTMENT OF NATURAL RESOURCES \odot





SHOWN ON THIS LEGEND IS NEEDED IN THESE CONTRACT

DRAWINGS.

AC|

OR

S CO

4

C

MKE

T 414.220.9640

751 N Jefferson St.

Milwaukee, WI 53202

Suite 200

0 8

COUNTY PROJECT #

BUILDING NO:

SITE NO:

CAP PROJECT # PROJECT STATUS



VERTICAL:

HORIZONTAL: Bearings are referenced to the East line of Lot 2 of Certified Survey Map No. 8985 which

Vertical Datum is based on National Geodetic Vertical Datum of 1929 convereted to the City of Wauwatosa Datum (-580.28)

LEGAL DESCRIPTION

That part of lands lying in the Northeast 1/4 of the Northwest 1/4 of Section 29, Township 7 North, Range 21 East, in the City of Wauwatosa, County of Milwaukee, State of Wisconsin, which is bounded and described as follows;

Commencing at the Northwest corner of said 1/4 Section; thence North 88°18'28" East along the North line of said 1/4 Section 1197.16 feet to a point; thence South 01°41'49" East 55.00 feet to a point; thence North 88°18'28" East 211.61 feet to a point; thence South 01°37'01" East 9.50 feet to the point of beginning of lands hereinafter described; thence South 01°37'01" East along the East lines of Lot 1 and Outlot 3 of Certified Survey Map No. 8985 and Lot 1 of Certified Survey Map No. 8678, a distance of 705.00 feet to a point; thence North 88°18'11" East along the North line of Lot 2 Certified Survey Map No. 6650, a distance of 98.67 feet; thence South 62°42'14" East along said North line 250.20 feet to a point; thence South 82°27'39" East along the North line of Lot 3, Certified Survey Map No. 6650, a distance of 250.20 feet to a point; thence North 71°04'35" East along said North line 356.69 feet to a point; thence North 01°40'41" West along the West line of Lot 9, Certified Survey Map No. 7648, a distance of 170.00 feet to a point; thence South 88°19'19" West along said West line 10.00 feet to a point; thence North 01°40'41" West along said West line 278.21 feet to a point of curvature; thence 86.75 feet along the West line of Interstate "41" and the arc of a curve, whose center lies to the Southwest, whose radius is 123.00 feet and whose chord bears North 21°52'56" West 84.96 feet to a point; thence North 42°05'11" West along said West line 101.34 feet to a point of curvature; thence 115.68 feet along said West line and the arc of a curve whose center lies to the Northeast, whose radius is 164.00 feet and whose chord bears North 21°52'42" West 113.30 feet to a point; thence North 01°41'14" West along said West line 45.77 feet to a point on the South line of West Watertown Plank Road; thence North 87°07'11" West along said South line 43.62 feet to a point; thence South 88°18'28" West along said South line 716.78 feet to the point of beginning.

GENERAL

- 1. SURVEY PROVIDED BY CHAPUT LAND SURVEYS ON JUNE 27, 2023.
- 2. THE LOCATION OF ALL STRUCTURES, OBSTACLES, AND EXISTING FACILITIES SHALL NOT BE TAKEN AS CONCLUSIVE. IT SHALL BE ASSUMED THAT THE CONTRACTOR HAS VERIFIED SAID LOCATIONS AS A CONDITION OF HIS BID AND THEREFORE THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM HIS ACTIVITIES.
- 3. CONTRACTOR IS RESPONSIBLE FOR PRESERVING, MAINTAINING, AND REPLACING EXISTING BENCHMARKS.

UTILITY MARKING

- 1. UTILITY LINES ARE SHOWN FROM VISIBLE SURFACE EVIDENCE, MUNICIPAL PLANS AND FROM PLANS AND MARKINGS PROVIDED BY DIGGERS HOTLINE, THE ONE-CALL UTILITY MARKING SYSTEM (WISCONSIN STATUTE 182.0175), TICKET NUMBER 20232104091, 20232104101 and 20232329312. ALL THE UTILITIES ARE SHOWN PER MARKING IN THE FIELD AT THE TIME OF SURVEY.
- 2. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS (VERTICALLY AND HORIZONTALLY) PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE DISCUSSED WITH THE DESIGN ENGINEER OF RECORD.

Point No.	Description	Direction	Size	Material	Depth / Invert (ft)	Elevation (ft
6124	Inlet Rim	-	-	-	-	153.66
	Pipes	NW	10"	RCP	4.24	149.42
6370	Inlet Rim	-	-	-	-	147.08
	Pipes	S	24"	RCP	5.2	141.88
	Pipes	N	24"	RCP	5.14	141.94
6443	Inlet Rim	-	-	-	-	147.23
	Pipes	N	24"	RCP	5.6	141.63
	Pipes	NE	6"	RCP	5.6	141.63
	Pipes	S	24"	RCP	5.8	141.43
	Pipes	w	UNABLE TO O	BS INV.		3330, 3132, 3133, 333, 333
6359	Inlet Rim	-	-	-	-	148.85
	Pipes	E&W	12"	RCP	3.9	144.95
6480	Inlet Rim	-	-	-	-	148.81
	Pipes	Е	12"	RCP	3.7	145.11
	Pipes	NW	12"	RCP	3.6	145.21
10737	Inlet Rim	-	-	1.10.	-	146.71
10,0,	Pipes	Е	15"	RCP	5	141.71
	Pipes	sw	18"	RCP	5	141.71
10724	Inlet Rim	-	-	-	-	146.15
10/24	Pipes	E&W	15"	RCP	4.03	142.12
10514	Inlet Rim	-	-	-	-	146.31
10314	Pipes	N&W	18"	RCP	4.9	141.41
7054	Inlet Rim		10.000	NCF	4.3	146.39
7054	Pipes	- NE	-	-	3.66	140.39
	Pipes	SW	15"	RCP	4.04	142.75
11401	Inlet Rim	- JVV	15	NCF	4.04	146.44
11401		NW	15"	RCP	5.17	141.27
	Pipes	SE	15"		S STEERINGS	
11402	Pipes			RCP	5.27	141.17
11403	Inlet Rim	- 14/	2011-2011	- DCD	- 12	146.7 134.7
	Pipes	W	36"x36" 15"	RCP	12	0.0000000000000000000000000000000000000
10202	Pipes	E		RCP	8.18	138.52
10293	Inlet Rim	-	4511	-		146.65
	Pipes	NW	15"	RCP	6.05	140.6
	Pipes	S	15"	RCP	6.23	140.42
10406	Inlet Rim		-	-		146.62
	Pipes	N	15"	RCP	6.27	140.35
	Pipes	S	15"	RCP	6.4	140.22
10493	Inlet Rim	-	-	-	-	146.85
	Pipes	N	30"	RCP	6.8	140.05
	Pipes	S	30"	RCP	6.9	139.95
	Pipes	E	15"	RCP	6	140.85
10209	Inlet Rim	-			-	146.8
	Pipes	N	30"	RCP	6.2	140.6
	Pipes	S	30"	RCP	6.23	140.57
11402		-	á	ĕ	-	148.03
	Pipes	W	-	-	11.7	136.33
	Pipes	E	3	Ē	11.38	136.65
	Pipes	SE	-	-	11.3	136.73
11096	Inlet Rim					145.54
	Pipes	SE	6"	PVC	1.95	143.59

Control Points					
Point	Northing	Easting	Elevation	Туре	
100	4722.61	6635.58	152.1	Chiseled "T"	
101	4755.9	7030.95	159.18	Chiseled "T"	
102	4398.71	6618.49	148.39	Chiseled "T"	
103	4202.68	6935.25	146.66	Mag Nail	
104	4221.97	7069.89	146.35	Mag Nail	
105	4397.3	7241.78	147.53	Mag Nail	
152	4482.88	6815.52	147.24	Mag Nail	
153	4634.61	7204.25	161.47	Chiseled "X"	

EXISTING PROPERTY LINE

N88°18'28"E 2666.91'

NORTH LINE OF THE NW 1/4, SEC. 29

	55	SAN	ITARY MANHOI	.ES		OV.
Point No.	Description	Direction	Size	Material	Depth / Invert (ft)	Elevation (ft)
11402	San. MH Rim	₩ 7	×	-	-	148.03
	Pipes	W	10"	Ψ	11.7	136.33
	Pipes	E	10"	일	11.38	136.65
	Pipes	SE	8"	9	11.3	136.73
10836	San. MH Rim	-	8	<u> </u>	-	147.68
	Pipes	W	10"	-	8.56	139.12
	Pipes	Е	10"	=	8.55	139.13
11108	San. MH Rim	5 7 (2)		-		146.52
	Pipes	NW	8"		8.5	138.02
	Pipes	NE	6"	-	5.77	140.75
	Pipes	SE	8"	-	8.5	138.02
11263	San. MH Rim		. ×	-	-	147.38
	Pipes	NW	8"		8.8	138.58
	Pipes	E	8"	<u> </u>	8.6	138.78
11271	San. MH Rim	(<u>4</u>))	-	2	2	147.91
	Pipes	W	8"	2	8.65	139.26
	Pipes	NE	8"	-	8.55	139.36
11701	San. MH Rim	17.1	5	-		147.1
	Pipes	SW	8"	-	7	140.10
	Pipes	NE	UNABLE TO (DBS. INV.		
	Pipes	N	8"	-	7.03	140.07
7053	San. MH Rim	380	-	-	-	146.88
	Pipes	W	10"	-	6	140.88
	Pipes	NE	6"	-	5.38	141.50
	Pipes	SW	10"	_	5.48	141.40

LOT C.S.M. N	153.14x 153.00 WATER WATER 153.14x 153.00 Size of the second of the se	T 414.220.9640 751 N Jefferson St. Suite 200 Milwaukee, WI 53202
	10 WER 10 10 10 10 10 10 10 1	The state of the s
	SET BOOK FP-4234 SET BOOK FP-	MILWAUKEE CO. DEPT. OF ADMINISTRATIVE SERVICES FACILITIES MANAGEMENT DIVISION ARCHITECTURE - ENGINEERING - ENVIRONMENTAL SERVICES WEST WISCONSIN AVENUE, SUITE 1000 MILWAUKEE, WI 53203
Depth / Invert (ft) 148.03 11.7 136.33 11.38 136.65	25.41 HO 5575	DATE: 12/08/2023
11.3	3 8 2 27'39'E 250.20' 107.3 CS.M. NO. 6650 2 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	COUNTY PROJECT #: WS12401 SITE NO: 360 BUILDING NO: 500 CAP PROJECT #: 180802 PROJECT STATUS: CD SET

-WEST WATERTOWN PLANK ROAD-

UNPLATTED LANDS

TAX KEY NO. 3799999066

ACILIT 53226 **COUNT** 10201 W Wate MKE

SCALE IS IN FEET

Radius=164.00'

CL=113.30' Delta=40°24′57′″

Ø

__ Chord=N21°52'42"W





EROSION CONTROL NOTES

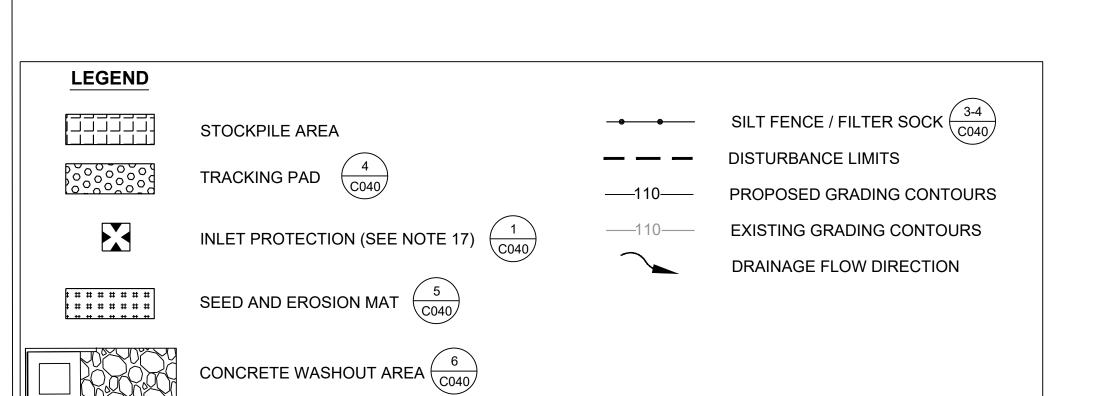
CONSTRUCTION SITE EROSION CONTROL AND SEDIMENTATION CONTROL SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF WAUWATOSA AND EMPLOY EROSION CONTROL METHODS AS SHOWN IN THE DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS WHICH CAN BE FOUND AT:

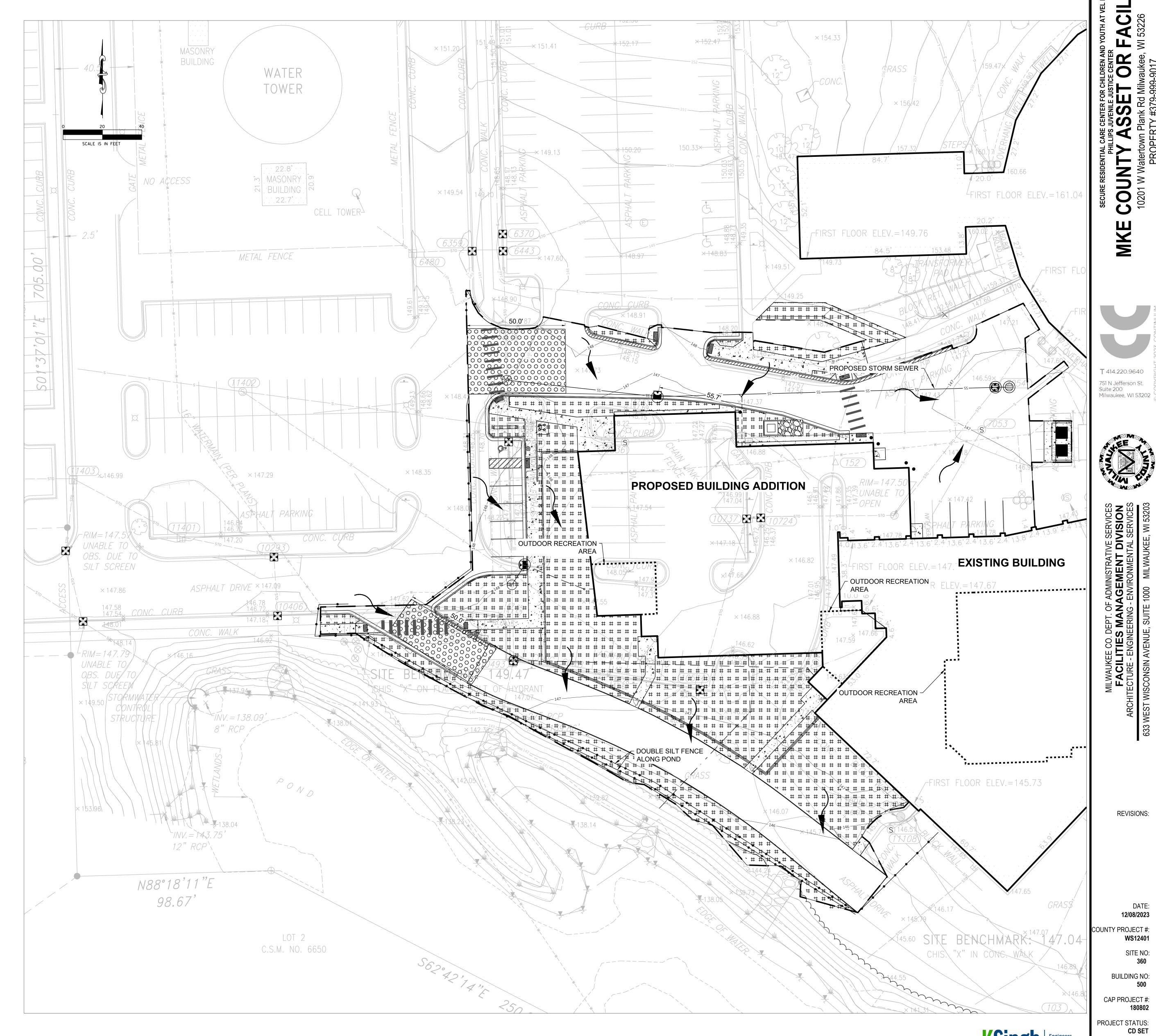
http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

- ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION AFTER A RAINFALL OF 0.5" OR MORE, BUT NO LESS THAN ONCE EVERY WEEK. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND REMOVAL OF ALL SEDIMENT AND ALL SEDIMENT CONTROL STRUCTURES. EROSION CONTROL MEASURES MUST BE IN WORKING CONDITION AT END OF EACH DAY. ALL RECORDS OF THE INSPECTION AND MAINTENANCE OF EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. A CURRENT COPY OF ALL INSPECTION AND MAINTENANCE RECORDS SHALL BE KEPT ON SITE AT ALL TIMES.
- INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 5. SILT FENCE OR FILTER SOCK SHALL BE INSTALLED IN HORSESHOE FASHION AROUND ALL TOPSOIL AND FILL STOCKPILES.
- 6. ALL OFF-SITE SEDIMENT DEPOSITS FROM THIS PROJECT OCCURRING AS RESULT OF A STORM EVENT SHALL BE CLEANED UP BY END OF NEXT WORKING DAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS RESULT OF CONSTRUCTION ACTIVITIES SHALL BE CLEANED UP BY END OF THE WORK DAY.
- GENERAL CONSTRUCTION SEQUENCE FOR EROSION CONTROL
- 7.1. INSTALL SILT FENCE OR FILTER SOCK.
- 7.2. INSTALL INLET PROTECTION ON EXISTING STORM INLETS. 7.3. INSTALL TRACKING CONTROL PRACTICE.
- 7.4. STRIP TOPSOIL AND/OR LANDSCAPED AREA, REMOVE AND/OR STOCKPILE.
- 7.5. PERFORM SITE DEMOLITION PER PLAN. 7.6. PERFORM ROUGH GRADING.
- 7.7. INSTALL UTILITIES.
- 7.8. INSTALL INLET PROTECTION ON NEW INLETS. 7.9. CONSTRUCT BUILDINGS.
- 7.10. INSTALL PAVEMENTS.

7.11. REMOVE ACCUMULATED SEDIMENT FROM SITE.

- 7.12. REMOVE EROSION CONTROL MEASURES ONLY WHEN SITE IS FULLY STABILIZED. 8. ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN DAYS MUST BE
- IMMEDIATELY RESTORED WITH SEED AND MULCH.
- IMMEDIATELY STABILIZE STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- 10. IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15; STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE. OCTOBER 15 THROUGH COLD WEATHER; STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
- 11. RESTORATION OF ALL DISTURBED AREAS WITH SLOPES GREATER THAN 20% SHALL BE COMPLETED WITHIN 30 DAYS AFTER BEGINNING CONSTRUCTION ON SAID AREA.
- 12. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE CITY OF WAUWATOSA, OWNER OR ENGINEER SEPARATE SWEPT MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
- 13. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD #1068 DUST CONTROL FOR CONSTRUCTION SITES.
- 14. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO RECEIVING
- 15. IF DEWATERING IS NEEDED, CONTRACTOR SHALL PROVIDE FOR SEDIMENT REMOVAL ACCORDING TO WDNR TECHNICAL STANDARD #1061. WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS, GRIT CHAMBERS, SAND FILTERS, UPSLOPE CHAMBERS, HYDRO-CYCLONES, SWIRL CONCENTRATORS, OR OTHER APPROPRIATE CONTROLS. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. DEWATERING SHALL COMPLY WITH WDNR AND LOCAL STANDARDS. DEWATERING SHALL BE CONVEYED TO SANITARY SEWER IN COMPLIANCE WITH MMSD CH. 11 REQUIREMENTS. CONTRACTOR SHALL OBTAIN A NOTICE OF INTENT TO DISCHARGE TO SANITARY SEWER.
- 16. PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING, LIMIT PUMPING RATES, OR THE BASIN DESIGN RELEASE RATE WITH THE CORRECTLY FITTED HOSE AND GEOTEXTILE FILTER BAG. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD #1061 DEWATERING.
- 17. INLET PROTECTION TYPE A TO BE USED FOR INLETS IN NON-PAVED AREAS (GRASS INLETS). INLET PROTECTION TYPE B TO BE USED FOR INLETS IN PAVED AREAS, INLET PROTECTION TYPE C TO BE USED FOR ALL CURB INLETS, WHILE INLET PROTECTION TYPE D TO BE USED WHERE SHOWN ON THE PLAN. INLET PROTECTIONS SHALL BE WISDOT APPROVED OR AN APPROVED EQUAL.
- 18. NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I URBAN, TYPE A, ORGANIC EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WISDOT'S PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED ARES WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER
- 19. MAKE PROVISIONS FOR WATERING IN ACCORDANCE WITH SPECIFICATIONS.
- 20. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY SEDIMENT BASINS, DITCH CHECKS, SILT FENCING, FILTER SOCKS, WATTLES, SWALES, ETC.) AS DIRECTED BY THE MILWAUKEE COUNTY REPRESENTATIVE, OWNER, OR ENGINEER.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING PROPERTY
- 22. PARKING LOTS AND DRIVES SHALL BE CLEANED DAILY AS NEEDED. STREET SWEEPING SHALL BE COMPLETED TO MAINTAIN STREET FREE OF DUST AND DIRT.
- 23. CONTRACTOR SHALL PROTECT ALL UTILITIES AND VALVES FROM SEDIMENT AND SHALL HYDRO-VAC OR CLEAN OUT ANY SEDIMENT ENTERING THE EXISTING
- 24. PROVIDE EACH ENTRANCE TO THE SITE WITH TRACKING PAD OR TIRE WASHING IN COMPLIANCE WITH WDNR TECHNICAL STANDARD 1057. WHEN SPACE DOES NOT PERMIT FOR TRACKING PAD USE TIRE WASHING.





KSingh Engineers Scientists Consultants

Erosion Control Plan C030

BUILDING NO:

CAP PROJECT #: **180802**

REVISIONS:

OR

T 414.220.9640

751 N Jefferson St.

IVE SERVICES
DIVISION
TAL SERVICES

T 414.220.9640

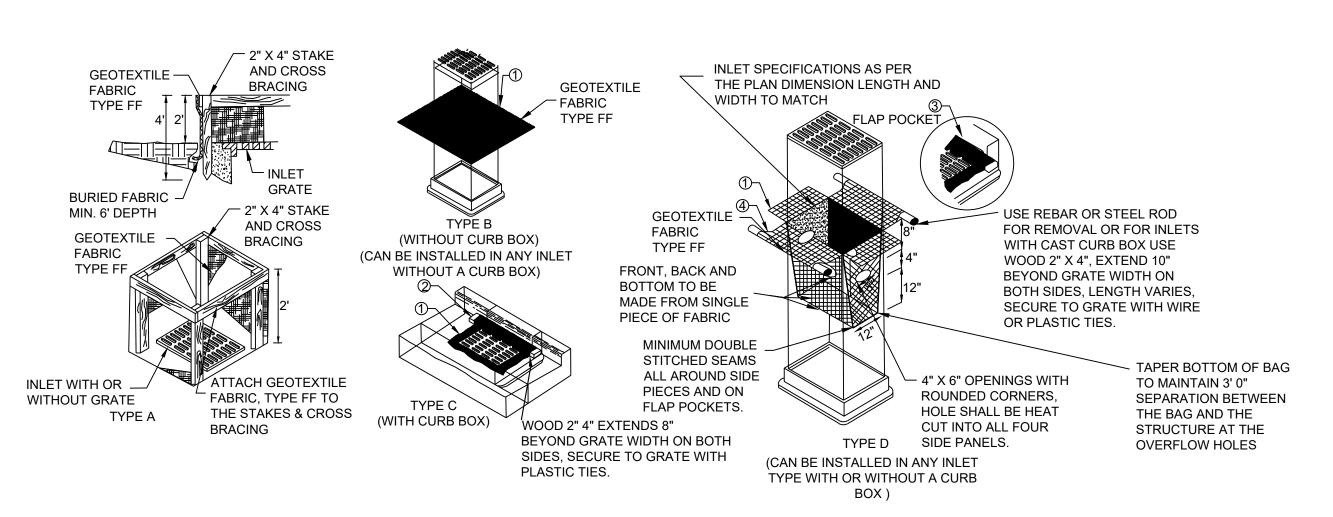
BUILDING NO: CAP PROJECT #

KSingh Engineers Scientists Consultants

PROJECT STATUS: CD SET

CD SET

CD SET



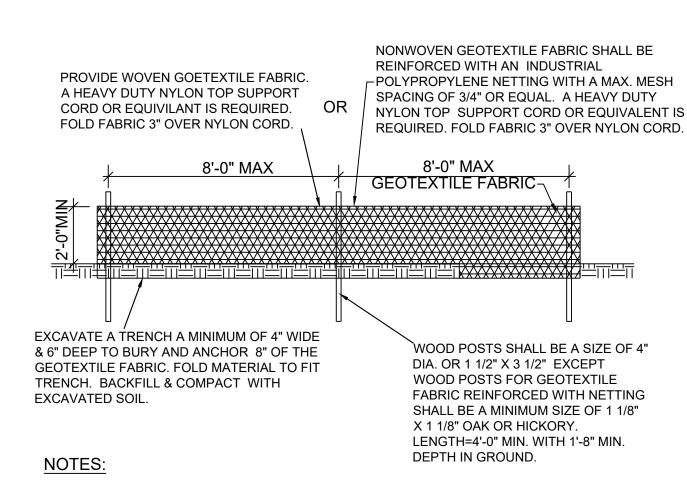
GENERAL NOTES:

- 1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL TYPE B & C EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- 2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX) AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- 3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"X4". TYPE D THE REBAR, STEEL PIPE OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.
- FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
- 5. INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.
- 6. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

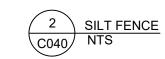
INSTALLATION NOTES:

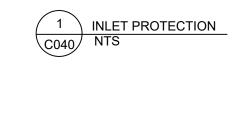
- 1. TYPE FF GEOTEXTILE FABRIC (EXTEND FABRIC A MINIMUM OF 10" AROUND GRATE PERIMETER FOR MAINTENANCE OR REMOVAL.
- 2. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

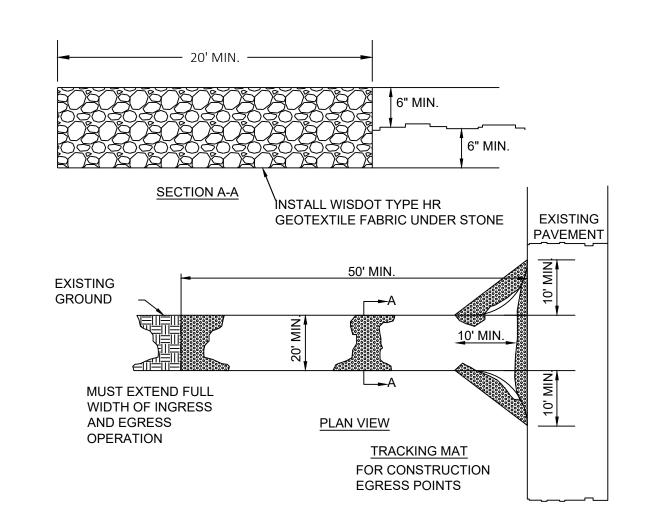
- DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
- 2. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



- 1. CONTRACTOR SHALL INSPECT SILT FENCE DAILY AND REPAIR OR REPLACE AS NEEDED. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN DEPOSITS REACH 1/2 THE HEIGHT OF THE FENCE.
- 2. ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS.

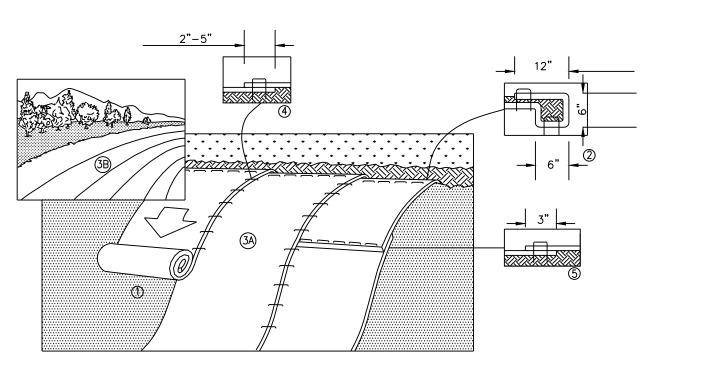






- TRACKING MATS SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
- 2. STONE CLEAR OR WASHED (3"-6" SHALL BE PLACED AT LEAST 12" DEEP OVER THE LENGTH AND WIDTH OF ENTRANCE).
- SURFACE WATER ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND MINIMUM OF 6" OF STONE OVER THE PIPE TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM WILL BE REQUIRED.
- 4. LOCATION A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.



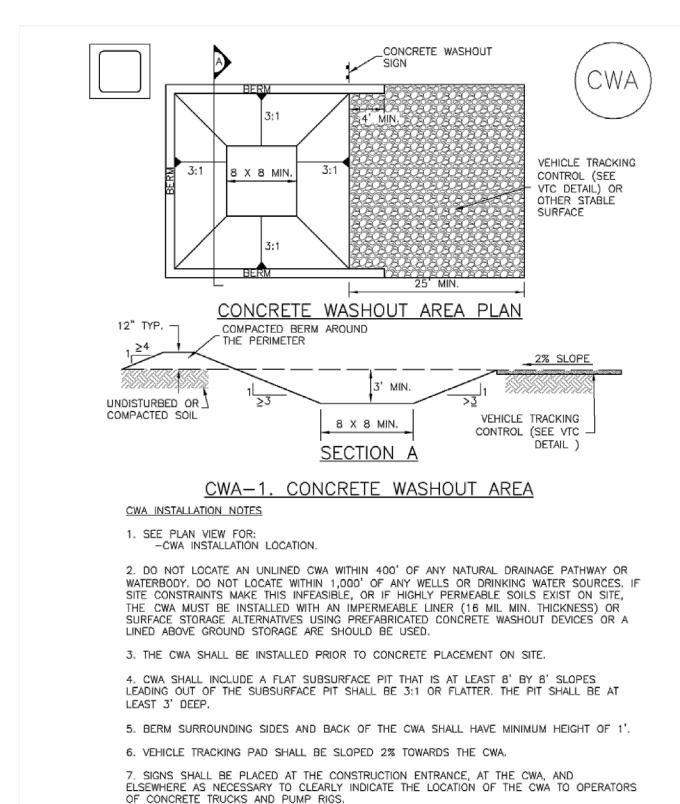


- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30CM) APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5CM-12.5CM) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTES:

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. DO NOT SCALE DRAWINGS.
- 3. IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.





SECTION VIEW

20" FILTER SOCK/SEDIMENT LOG/BIOROLL TYPICAL:

20" FILTER SOCK, TYPICAL:

PAVEMENT OR IMPERVIOUS SURFACE

2" X 2" X 36" WOODEN

SILTSOXX, CONSTRUCTION FABRICS—

MATERIAL, AMERICAN EXCELSIOR, OR EQUAL

STAKES PLACED 10' O.C.

18" FILTER SOCK, TYPICAL:

BE PROTECTED

2" X 2" X 36" WOODEN

STAKES PLACED 10' O.C.

WATER FLOW

WORK AREA

SILTSOXX, CONSTRUCTION FABRICS MATERIAL, AMERICAN

AMERICAN EXCELSIOR, OR EQUAL

EXCELSIOR, EROSION TECH, TENSAR NORTH AMERICAN GREEN

SILTSOXX, CONSTRUCTION FABRICS MATERIAL,

WATER FLOW

WORK AREA

20" FILTER SOCK/SEDIMENT LOG/BIOROLL TYPICAL:

\SILTSOXX, CONSTRUCTION FABRICS MATERIAL, AMERICAN

EXCELSIOR, EROSION TECH, TENSAR NORTH AMERICAN GREEN

WORK AREA

AREA TO BE PROTECTED

SAFETY FENCE

AREA TO BE

PROTECTED

CONCRETE WASHOUT AREA (CWA)

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

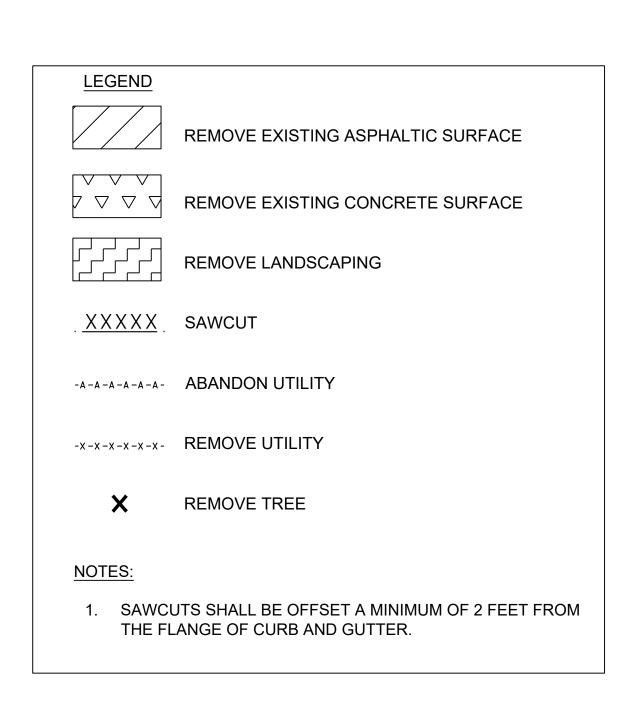
C040 NTS

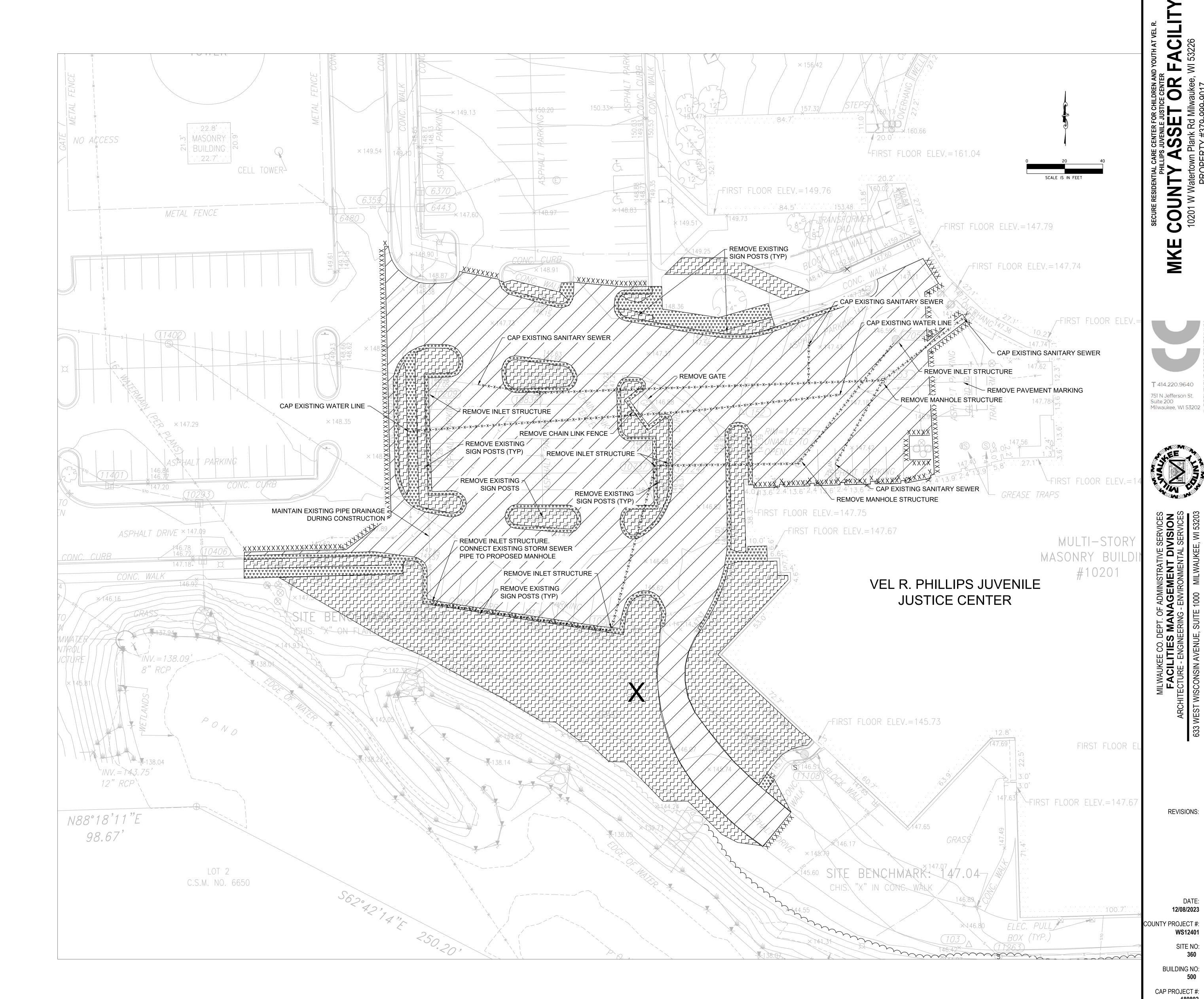
DEMOLITION GENERAL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING, MAINTAINING, AND REPLACING EXISTING BENCHMARKS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSFERRING BENCHMARKS, CONTROL POINTS, LINES AND GRADES TO THE PROJECT SITE AS NECESSARY TO COMPLETE WORK.
- 2. REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION AND REMOVAL DETAILS.
- 3. EXISTING UTILITIES AND SITE FEATURES NOT MARKED FOR REMOVAL ON SHEET C100 SHALL BE PROTECTED AND REMAIN IN SERVICE DURING CONSTRUCTION. ENSURE PROPER SUPPORT OF EXISTING UTILITIES AT LOCATIONS WHERE EXISTING UTILITIES WILL BE EXPOSED.
- 4. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS (VERTICALLY AND HORIZONTALLY) PRIOR TO CONSTRUCTION.
- 5. ALL UTILITIES SHOWN ARE BASED ON FIELD MARKINGS/PRINTS PROVIDED BY CITY OF MILWAUKEE AND CITY OF WAUWATOSA, PRIVATE UTILITY LOCATORS, DIGGER'S HOTLINE, OR RECORD DRAWINGS BY OTHERS. CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE AT 811 OR 1-800-242-8511 PRIOR TO PERFORMING EARTH MOVING ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITIES WHICH MAY BE PRESENT THAT ARE NOT PART OF THE ONE CALL SYSTEM AND PROVIDE PRIVATE LOCATING AS NEEDED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRIVATE LOCATING COSTS.



- 6. DAMAGES TO UTILITIES RESULTING FROM CONSTRUCTION WORK AND EXCAVATION SHALL BE IMMEDIATELY REPORTED TO THE OWNER, UTILITY OWNERS, AND CITY OF WAUWATOSA. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK AND COSTS ASSOCIATED WITH CORRECTING THE DAMAGES.
- 7. ALL SITE RESTORATION SHALL BE TO THE LIMITS OF ACTUAL REMOVALS.
- 8. SAWCUT EXISTING PAVEMENTS TO MAKE A FLUSH MATCH TO NEW PAVEMENTS.
- 9. REMOVE AND REPLACE CONCRETE PAVEMENTS AND WALKS FROM JOINT-TO-JOINT.
- 10. COORDINATE ALL UTILITY ABANDONMENT, REMOVALS, RELOCATIONS, SUPPORT AND REPLACEMENTS WITH EXISTING UTILITY OWNERS.
- 11. NOTIFY ENGINEER PRIOR TO REMOVAL OF ANY ITEMS NOT SHOWN ON THE PLAN.
- 12. CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES THAT ARE IN CONFLICT WITH PROPOSED CONSTRUCTION.
- 13. CONTRACTOR SHALL MAINTAIN EXISTING STORM WATER DRAINAGE DURING CONSTRUCTION.
- 14. ALL REMOVED ITEMS WILL BECOME PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- 15. ANY DAMAGES OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REMOVED AND REPLACED TO THE PROJECT SPECIFICATIONS, OR IN KIND AT NO ADDITIONAL COST TO THE PROJECT.
- 16. STRIP AND SALVAGE TOPSOIL, AS NEEDED, FOR REUSE ON-SITE. ANY EXCESS EXCAVATED SOILS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 17. REMOVE EXISTING WATER LATERALS IN ACCORDANCE WITH CITY OF WAUWATOSA STANDARDS.
- 18. ALL EROSION CONTROL MUST BE IN PLACE PRIOR TO START OF DEMOLITION.







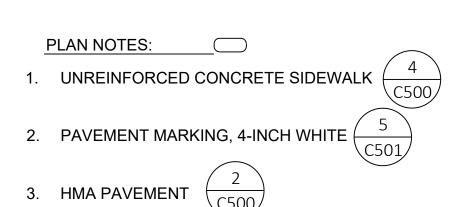
C100

PROJECT STATUS: CD SET

GENERAL NOTES

SITE LOCATION: 10201 WATERTOWN PLANK RD. CITY OF WAUWATOSA, MILWAUKEE COUNTY, WI.

- 1. REFER TO SHEET C005 EXISTING CONDITIONS FOR INFORMATION ON COORDINATES, SURVEY CONTROL, AND PROPERTY INFORMATION.
- 2. ALL UTILITIES SHOWN ARE BASED ON FIELD MARKINGS/PRINTS PROVIDED BY DIGGER'S HOTLINE, INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITIES, AND CHAPUT LAND SURVEYS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO. CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE AT 811 OR 1-800-242-8511 PRIOR TO PERFORMING EARTH MOVING OR EXCAVATION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY WHICH MAY BE PRESENT WHICH ARE NOT PART OF THE ONE CALL SYSTEM.
- 3. ALL CURB RADII AND DIMENSIONS ARE TO THE FACE OF CURB, EDGE OF PAVEMENT, FACE OF BUILDING, OR PROJECT WORK LIMIT LINE, UNLESS OTHERWISE NOTED.
- 4. NEW PAVEMENT SHALL MEET ADJACENT EXISTING PAVEMENTS AS A FLUSH MATCH.
- 5. CONCRETE CURB AND GUTTER SHALL MATCH EXISTING CURB AND GUTTER DIMENSIONS AND FLOW LINE AT MATCH POINTS.
- 6. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE OF THE DISTURBANCE LIMITS SHOWN SHALL BE RESTORED BY THE CONTRACTOR TO THE PROJECT SPECIFICATIONS AT NO COST TO THE OWNER.



4. CONCRETE CURB AND GUTTER

6. TYPE 1 AMERICANS WITH DISABILITIES ACT (ADA) HANDICAP CURB RAMP

5. TYPE 4B1 AMERICANS WITH DISABILITIES ACT (ADA) HANDICAP CURB RAMP

7. TYPE 3 AMERICANS WITH DISABILITIES ACT (ADA) HANDICAP CURB RAMP

8. TRUNCATED DOME AND DETECTABLE WARNING SURFACE, TYP.

9. CONCRETE BOLLARDS $\left(\frac{6}{}\right)$

10. PAVEMENT MARKING, CROSSWALK

11. SECURITY FENCE

12. CONCRETE CURB AND GUTTER END SECTION

13. REINFORCED CONCRETE SLAB ON GRADE, 4 INCH 14. REINFORCED CONCRETE SLAB ON GRADE, 6 INCH

15. SECURITY FENCE GATE (-

16. SIGN AND TUBULAR STEEL POST

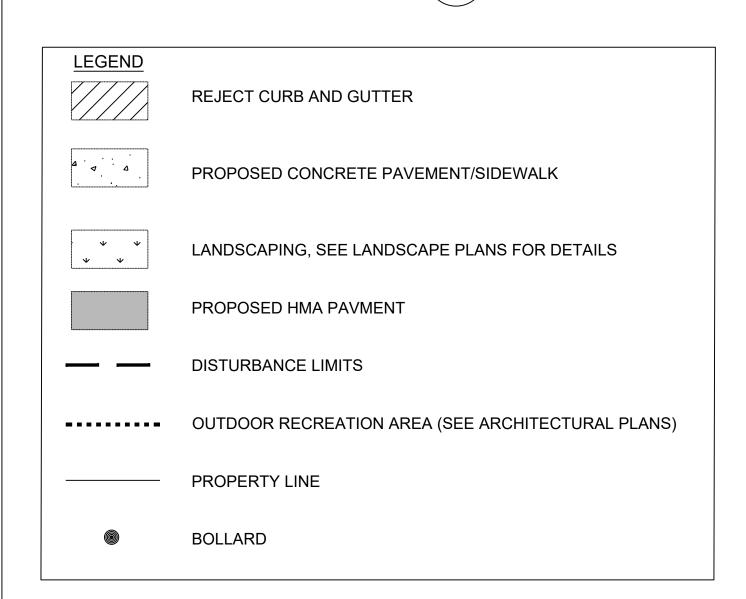
17. BIKE RACK (

18. DUMPSTER ENCLOSURE, CHAIN LINK

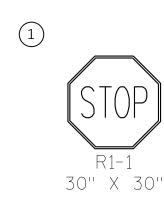
19. CONCRETE CURB, 6 INCH

20. TYPE 4A1 AMERICANS WITH DISABILITIES ACT (ADA) HANDICAP CURB RAMP 21. TYPE 7A AMERICANS WITH DISABILITIES ACT (ADA) HANDICAP CURB RAMP

22. TEMPORARY ASPHALT PEDESTRIAN PATH



SIGN KEY





12"X18"

SIGN NOTES: 1. ADHERE TO WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR REQUIREMENTS.

7. REFER TO GRADING PLAN FOR FINAL SURFACE GRADES.

8. CONTRACTOR SHALL ENSURE THAT ALL EXTERIOR CONCRETE SLABS ARE BROOM FINISHED.

9. REFER TO LANDSCAPE PLANS FOR RESTORATION DETAILS IN LANDSCAPED AREAS.

Dial or (800) 242-8511 www.DiggersHotline.com

SITE DATA:

BUILDING AREA BUILDING AREA, MAIN LEVEL: BUILDING AREA, LOWER LEVEL:

SITE PARKING

EXISTING SITE PARKING SPACES PERMANENTLY REMOVED: 25 SPACES SITE PARKING SPACES ADDED: 7 SPACES

EXISTING SITE PARKING SPACES RESTORED: 3 SPACES

ADA SITE PARKING SPACES REMOVED: 0 SPACES ADA SITE PARKING SPACES ADDED: 1 SPACE

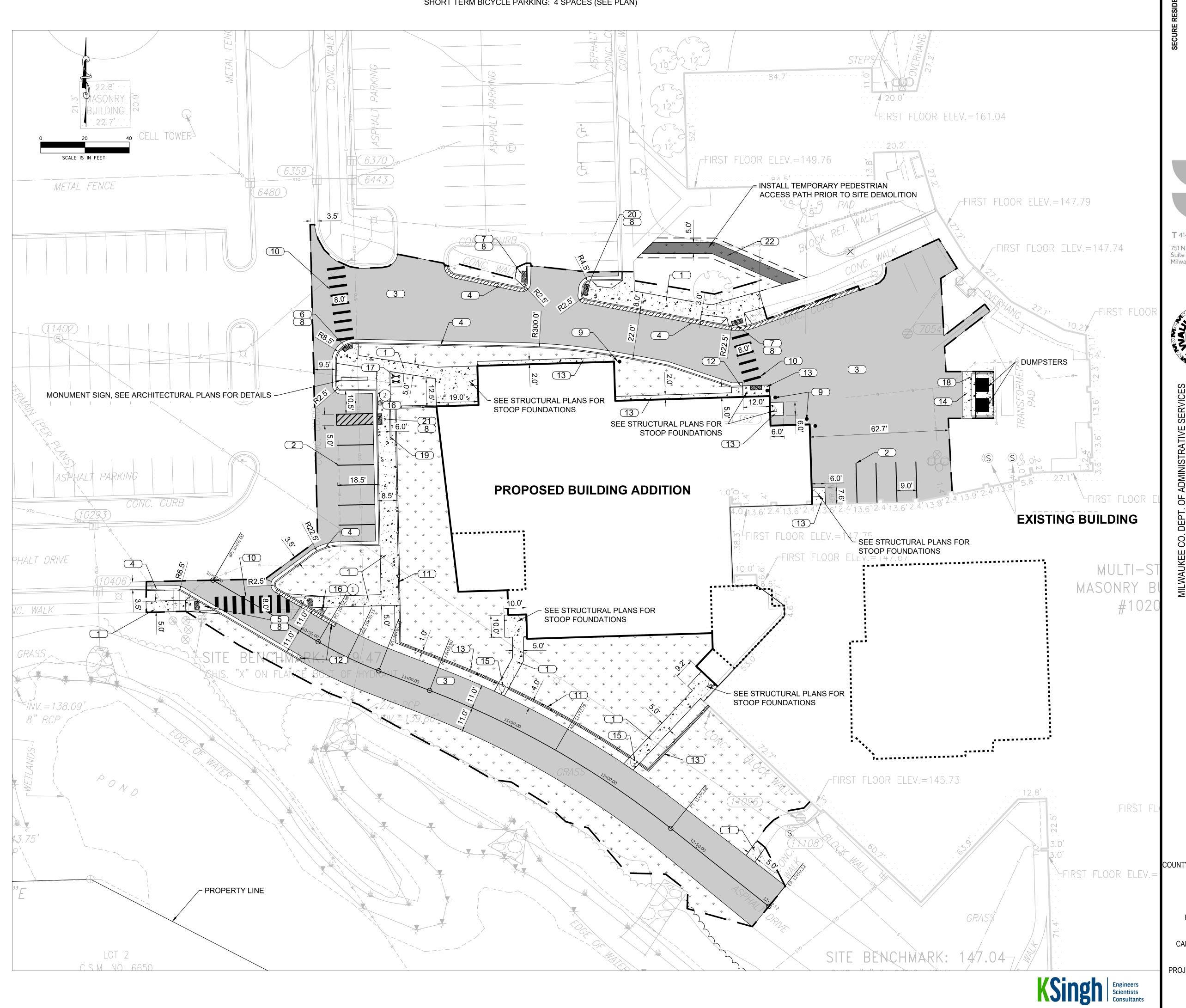
TOTAL AREA OF DISTURBANCE: 1.38 ACRE

PROPOSED IMPERVIOUS AREA WITHIN DISTURBANCE AREA: 0.95 ACRE EXISTING IMPERVIOUS AREA WITHIN DISTURBANCE AREA: 0.96 ACRE

PROPOSED OPEN SPACE WITHIN DISTURBANCE AREA: 0.43 ACRE

BICYCLE PARKING

SHORT TERM BICYCLE PARKING: 4 SPACES (SEE PLAN)



ACILIT OR

COUNT 10201 W Water

T 414.220.9640 751 N Jefferson St. Milwaukee, WI 53202



COUNTY PROJECT #:

BUILDING NO: CAP PROJECT #:

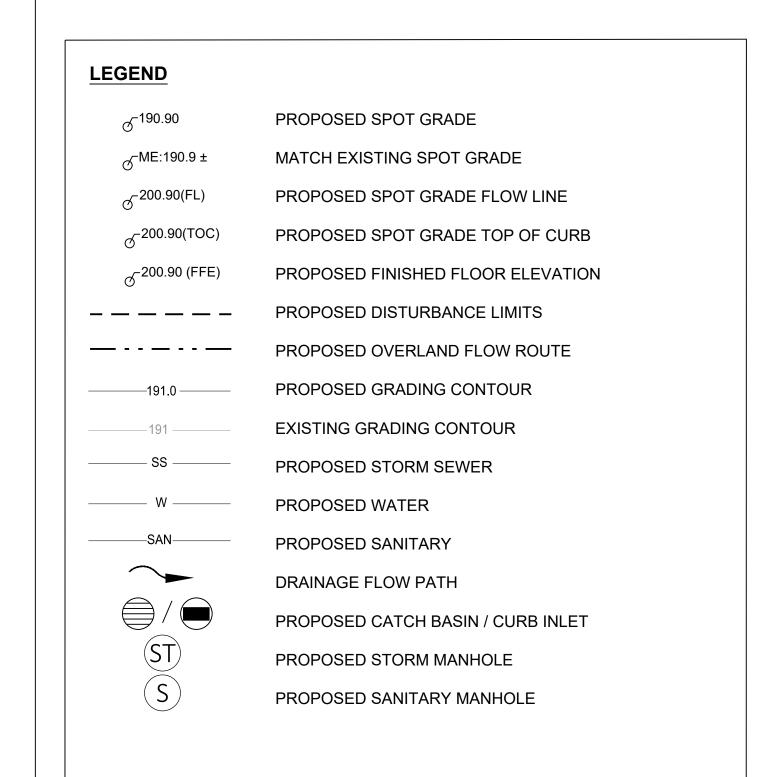
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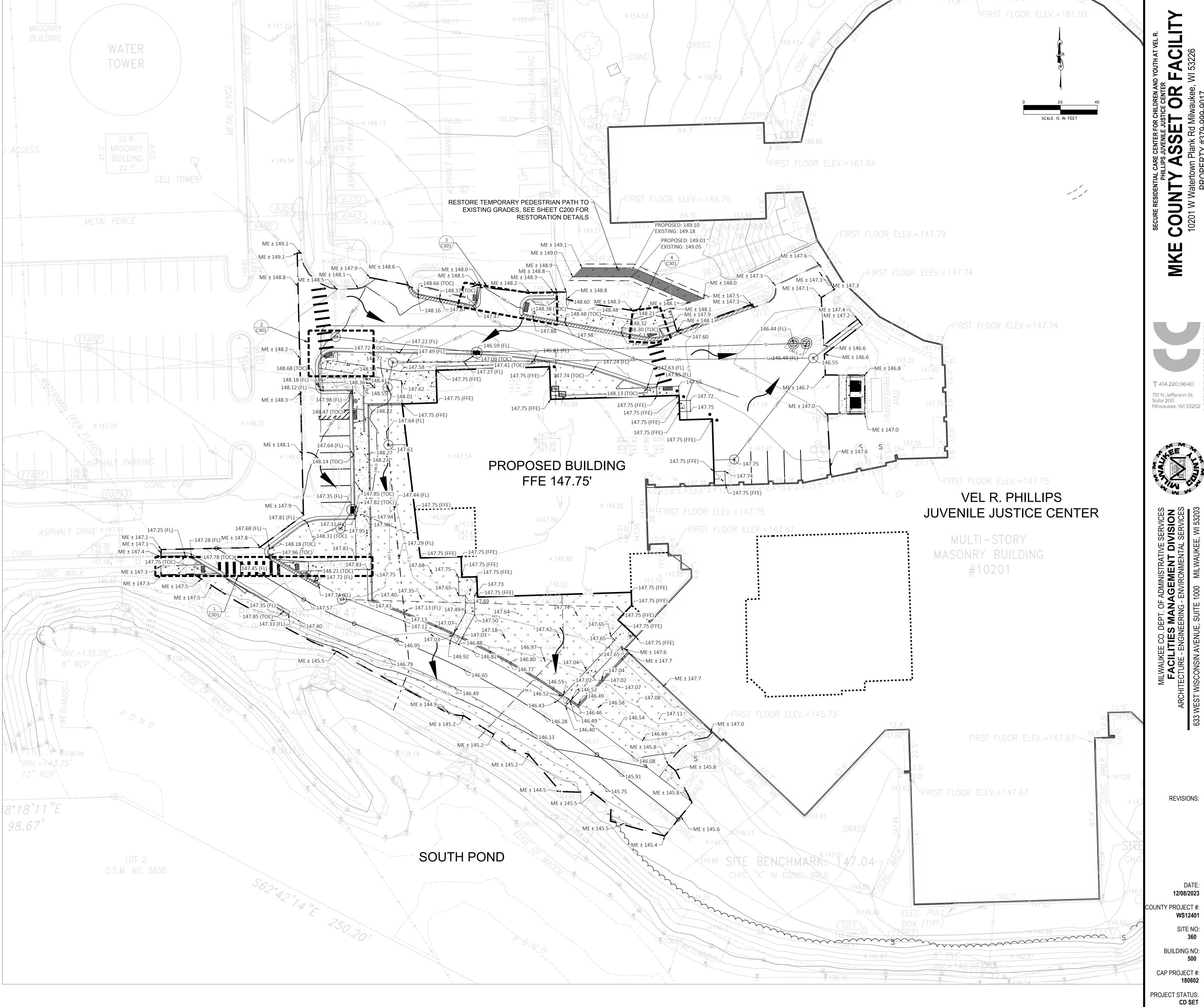
GENERAL NOTES:

DETAILS.

- 1. REFER TO DEMOLITION PLAN C100 FOR REMOVAL OF EXISTING UTILITIES, STRUCTURES, AND PAVEMENT REMOVAL.
- 2. GRADE ALL SURFACES FOR POSITIVE DRAINAGE AND AWAY FROM BUILDINGS.
- 3. ALL GRADES SHOWN ARE SURFACE OR FLOW LINE GRADES, UNLESS OTHERWISE NOTED.
- 4. CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM SITE BEFORE GRADING.
- 5. PAVEMENT RESTORATIONS SHALL MEET ADJACENT EXISTING PAVEMENTS AS A FLUSH MATCH.
- 6. FINAL ADJUSTMENTS SHALL BE MADE AT THE TIME OF PAVING TO MATCH THE PAVEMENT SURFACE.
- 7. ALL UTILITIES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO PROPOSED GRADING BY THE CONTRACTOR, UNLESS A GRADE MATCH IS INDICATED AT A SPECIFIC UTILITY
- 8. THE CONTRACTOR SHALL PAY ALL FEES, PERMITS, AND DEPOSITS FOR THE ADJUSTMENT WORK.
- 9. ALL ADJUSTMENT WORK SHALL BE TO THE SPECIFICATIONS OF THE UTILITY OWNER AND IN ACCORDANCE WITH ANY REQUIRED PERMITS.
- 10. ALL SIDEWALK GRADES SHALL MEET ADA REQUIREMENTS: 10.1. CROSS SLOPES OF SIDEWALKS SHALL NOT EXCEED 2.0% 10.2. LONGITUDINAL SLOPES OF SIDEWALKS SHALL NOT EXCEED
- 11. REFER TO SITE PLAN AND LANDSCAPING PLANS FOR RESTORATION
- 12. CONTRACTOR TO VERIFY MATCH EXISTING GRADES PRIOR TO BEGINNING WORK AND DISCUSS AND DISCREPANCIES WITH ENGINEER.









BUILDING NO:

CAP PROJECT #: 180802

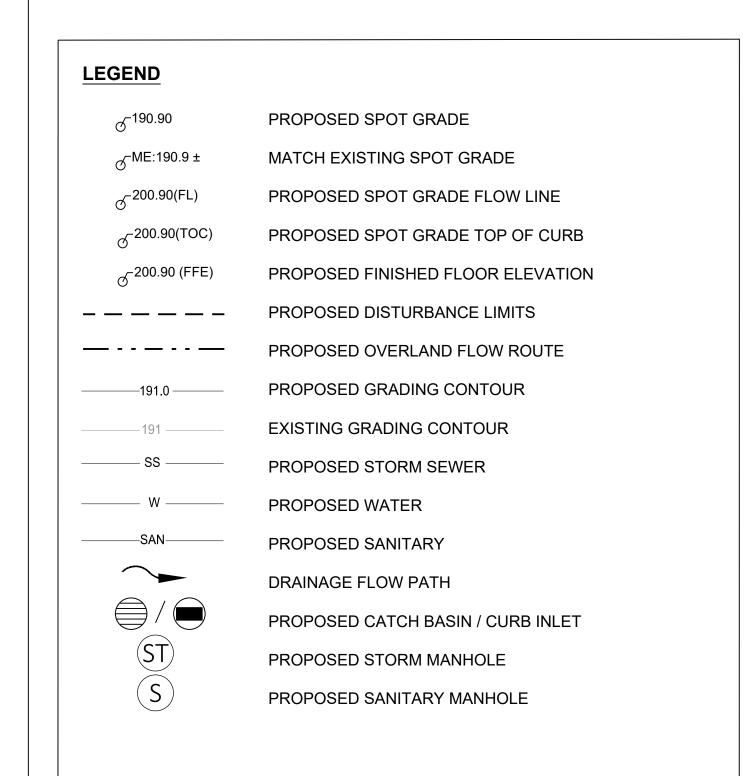
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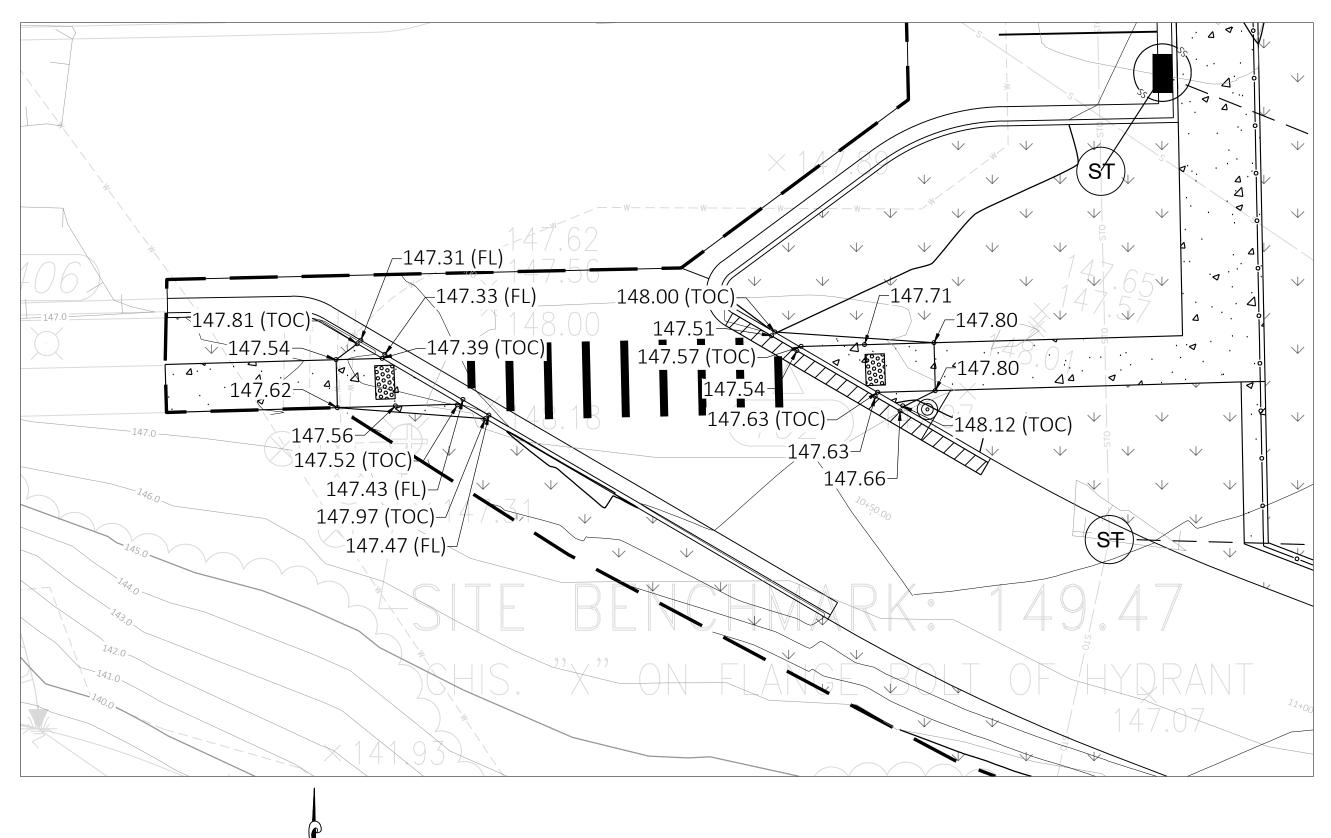
COUNT 10201 W Wate

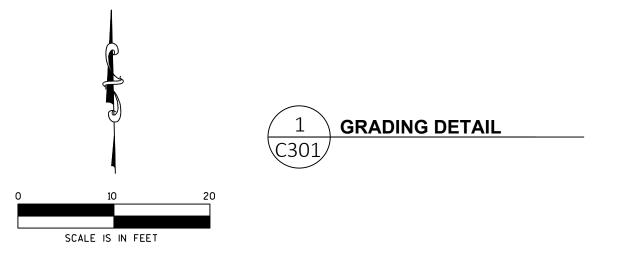
GENERAL NOTES:

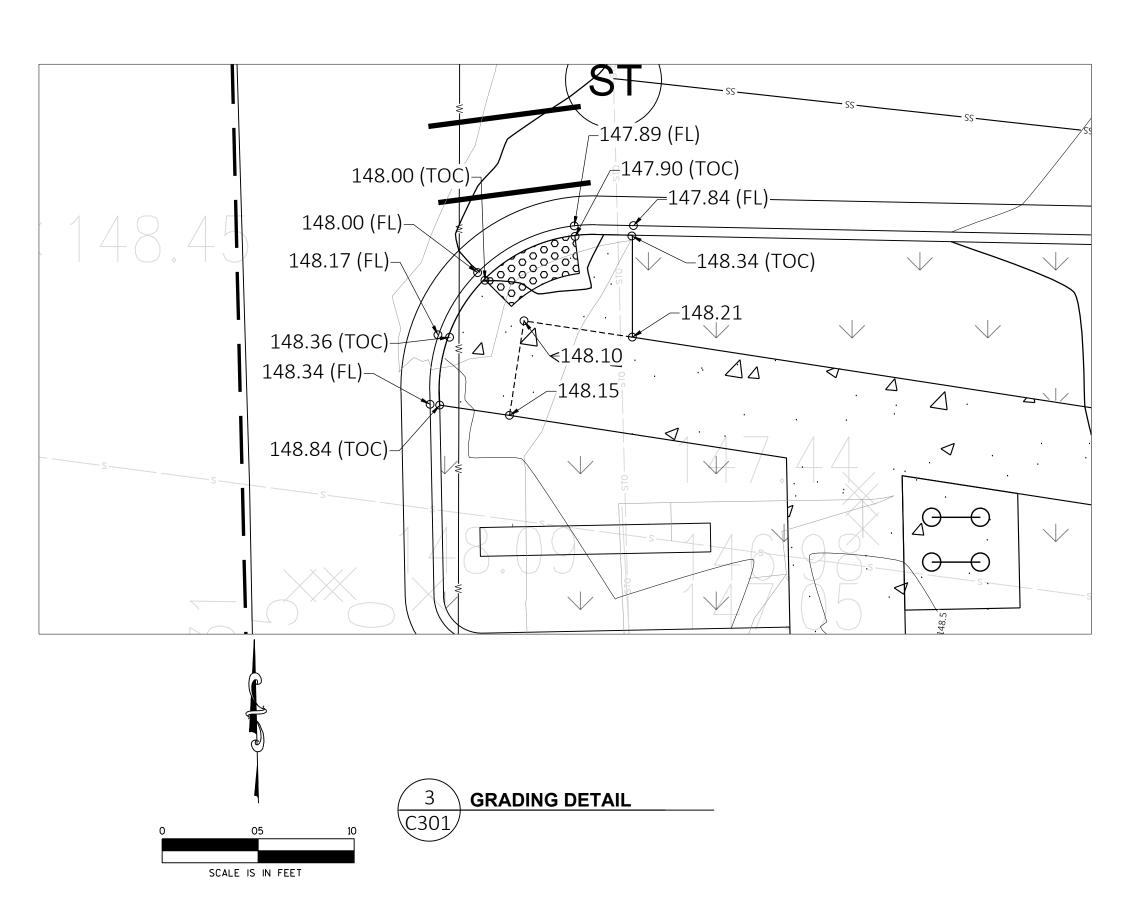
- 1. REFER TO DEMOLITION PLAN C100 FOR REMOVAL OF EXISTING UTILITIES, STRUCTURES, AND PAVEMENT REMOVAL.
- 2. GRADE ALL SURFACES FOR POSITIVE DRAINAGE AND AWAY FROM BUILDINGS.
- 3. ALL GRADES SHOWN ARE SURFACE OR FLOW LINE GRADES, UNLESS OTHERWISE NOTED.
- 4. CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM SITE BEFORE GRADING.
- 5. PAVEMENT RESTORATIONS SHALL MEET ADJACENT EXISTING PAVEMENTS AS A FLUSH MATCH.
- 6. FINAL ADJUSTMENTS SHALL BE MADE AT THE TIME OF PAVING TO MATCH THE PAVEMENT SURFACE.
- 7. ALL UTILITIES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO PROPOSED GRADING BY THE CONTRACTOR, UNLESS A GRADE MATCH IS INDICATED AT A SPECIFIC UTILITY
- 8. THE CONTRACTOR SHALL PAY ALL FEES, PERMITS, AND DEPOSITS FOR THE ADJUSTMENT WORK.
- 9. ALL ADJUSTMENT WORK SHALL BE TO THE SPECIFICATIONS OF THE UTILITY OWNER AND IN ACCORDANCE WITH ANY REQUIRED PERMITS.
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- 11. REFER TO SITE PLAN AND LANDSCAPING PLANS FOR RESTORATION DETAILS.
- 12. CONTRACTOR TO VERIFY MATCH EXISTING GRADES PRIOR TO BEGINNING WORK AND DISCUSS AND DISCREPANCIES WITH ENGINEER.

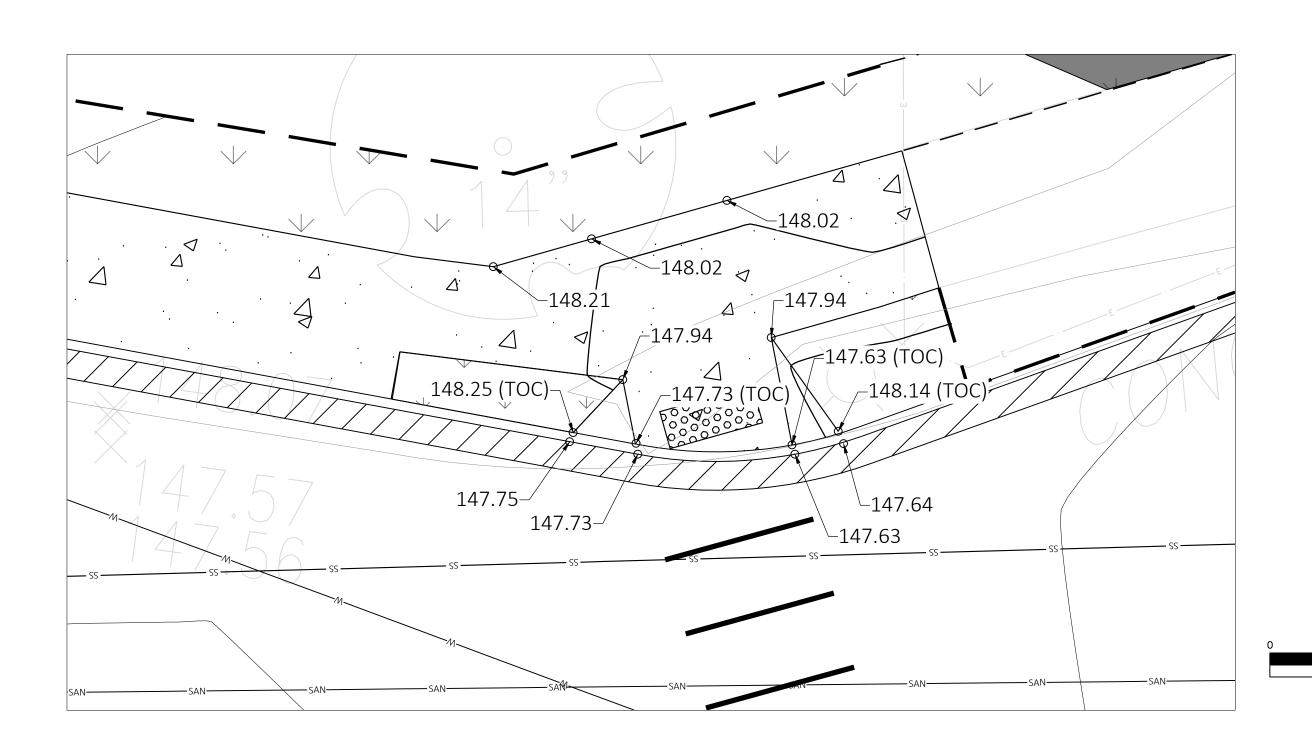


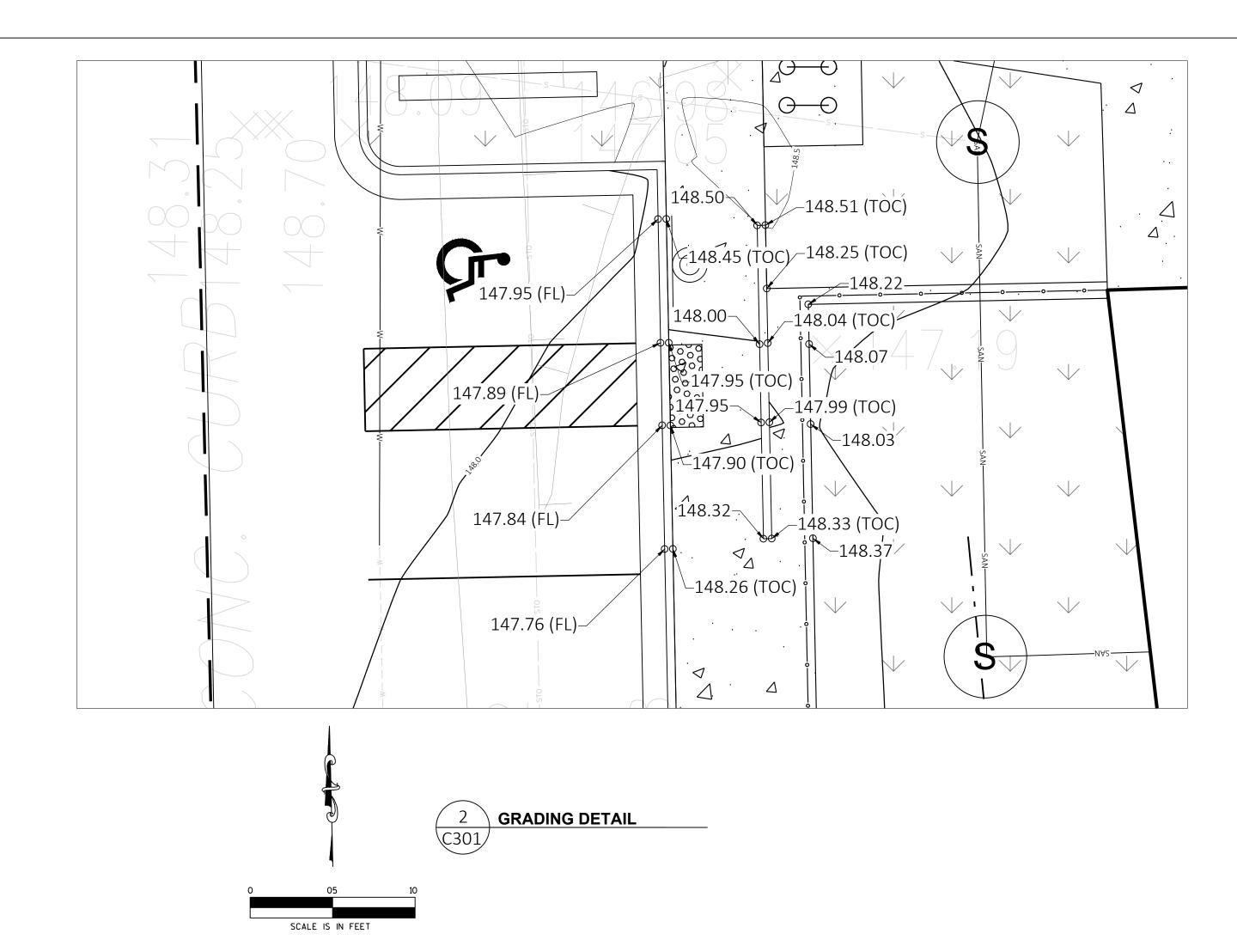


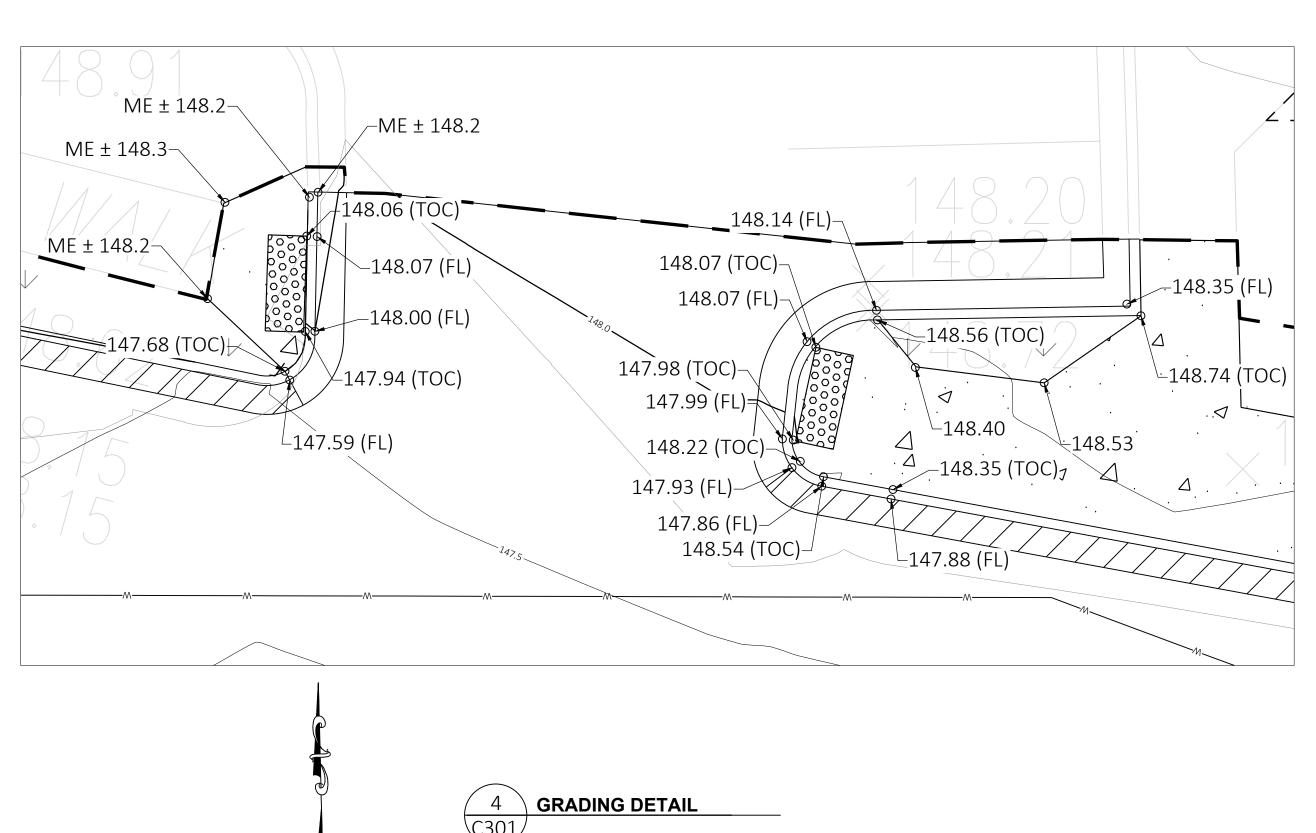


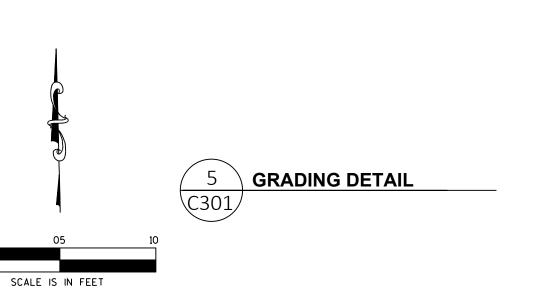












KSingh Engineers Scientists Consultants

Grading Details

SECURE RESIDENTIAL CARE CENTER FOR CHILDREN AND YOUTH AT VEL R.
PHILLIPS JUVENILE JUSTICE CENTER

TO COUNTY ASSET OR FACILITY

10201 W Watertown Plank Rd Milwaukee, WI 53226





C301

PROJECT STATUS: CD SET

UTILITY PLAN NOTES

- REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR ROOF OVERFLOW DRAIN AND SCUPPER LOCATIONS.
- 2. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION.
- 3. PIPE LENGTHS AND SLOPES ARE TO CENTER OF STRUCTURE, UNLESS

OTHERWISE NOTED.

- 4. SEWER INSTALLATION SHALL PROCEED FROM DOWNSTREAM TO UPSTREAM.
- 5. CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW UTILITY CASTINGS, MANHOLES, CLEANOUTS, AND ACCESS BOXES TO PROPOSED GRADING.
- 6. CONNECT SANITARY SERVICE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF WAUWATOSA AND DSPS. 7. MAINTAIN PROPER DRAINAGE AT ALL

AND LOCATION PRIOR TO

WITH THE OWNER.

PROPOSED ROOF DRAIN OVERFLOW LOCATION

PROPOSED STRUCTURE CALLOUT

CONSTRUCTION OF THE UTILITIES. ANY

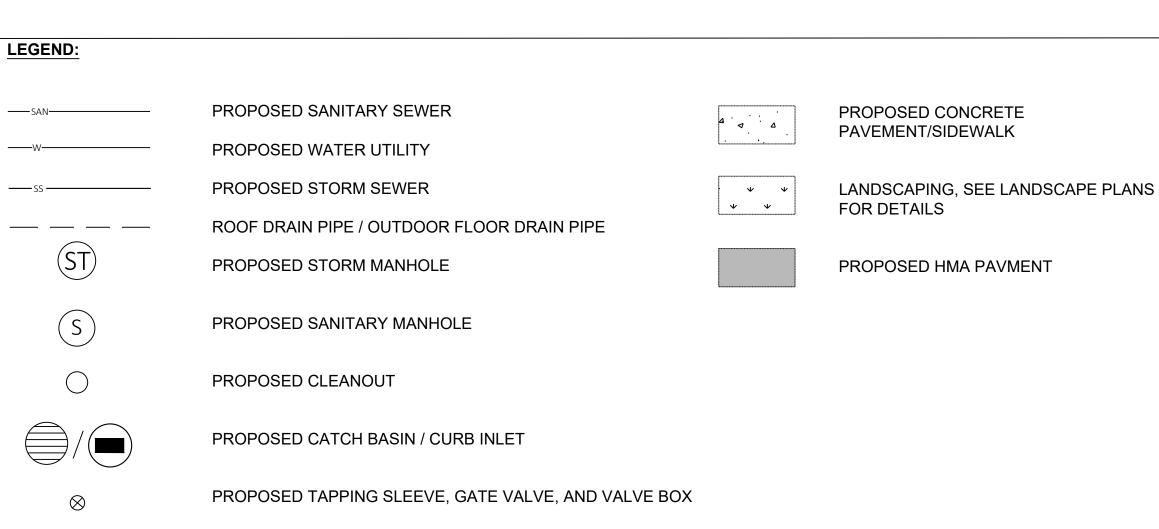
DISCREPANCIES SHALL BE DISCUSSED

- TIMES DURING CONSTRUCTION. 11. SEE DEMOLITION PLANS FOR PIPE 8. SANITARY LATERALS SHALL BE PVC, ABANDONMENT AND REMOVAL.
- ASTM D-3034, SDR 26 IN CONFORMANCE WITH SECTION 8.10.0 OF THE STANDARD 12. A MINIMUM OF 6.0 FEET OF COVER SPECIFICATIONS FOR SEWER AND SHALL BE MAINTAINED OVER ALL WATER CONSTRUCTION IN WISCONSIN, WATER MAIN. CURRENT EDITION.
- 13. A MINIMUM OF 6.0 FEET OF COVER 9. CONTRACTOR SHALL VERIFY EXISTING SHALL BE MAINTAINED OVER ALL PIPE INVERT, PIPE MATERIAL, PIPE SIZE SANITARY SEWER.

CITY OF WAUWATOSA.

PROFESSIONAL SERVICES AND THE

- 14. CLEANOUTS SHALL BE LOCATED NOT 10. SANITARY SEWER AND STORM SEWER SHALL BE CONSTRUCTED PER PROJECT MORE THAN 100 FEET APART. THE SPECIFICATIONS AND IN ACCORDANCE CLEANOUT NEAR THE BUILDING SHALL WITH THE DEPARTMENT OF SAFETY AND BE WITHIN 5 FEET OF WHERE THE BUILDING DRAIN AND BUILDING SEWER CONNECTS. THE CLEANOUT MAY BE LOCATED EITHER INSIDE OR OUTSIDE OF BUILDING.
 - 15. ALL PVC STORM PIPE SHALL BE SDR 35 WITH SMOOTH INTERIOR FINISH. CONTRACTOR TO FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND SUBMIT TO ENGINEER FOR REVIEW.
 - SHOP DRAWINGS ON STORM SEWER STRUCTURES, STORM SEWER PIPE AND FURNISH COST BREAKDOWN COMPARISON ON THE STORM SEWER PIPE MATERIAL PRIOR TO ORDERING MATERIAL
- 17. REFER TO PLUMBING PLANS FOR BUILDING CONTINUATION OF UTILITIES & CLEANOUTS.
- 18. WATER SERVICE SHALL BE DUCTILE IRON, AWWA C-151/A21.51-96 OR TYP K ANSI/AWWA C800-89 SECTION A.2 AND ASTM B42, B88-99 AND IN ACCORDANCE WITH CITY SPECIFICATIONS.
- 19. PER DSPS 382.40 (8)(b) PRIVATE WATER MAINS AND WATER SERVICES SHALL BE 23. REFER TO ELECTRICAL PLANS FOR **INSTALLED AT LEAST 5 FEET** HORIZONTALLY FROM ANY SANITARY SEWER.
 - 16. CONTRACTOR SHALL PROVIDE OWNER 20. NO PRIVATE WATER MAIN OR WATER SERVICE MAY BE INSTALLED WITHIN 6 INCHES OF A STORM SEWER. MAINTAIN A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE STORM SEWER/SANITARY SEWER AND TOP OF WATER MAIN.
- 21. PROVIDE TRACER WIRE FOR NON-METALLIC UTILITY SERVICES. SEE SPECIFICATIONS. TRACER WIRE FOR POTABLE WATER PIPE SHALL BE BLUE.
- 22. BUILDING INVERT ELEVATIONS ARE SHOWN 5' OUTSIDE OF BUILDING OR SIDEWALK DIRECTLY ADJACENT TO BUILDING. SEE MEP PLANS FOR CONTINUATION INTO BUILDING.
- FIBER AND ELECTRICAL UTILITIES. REFER TO MECHANICAL PLANS FOR GAS UTILITIES. REFER TO PLUMBING PLANS FOR WATER AND BUILDING SANITARY UTILITIES.



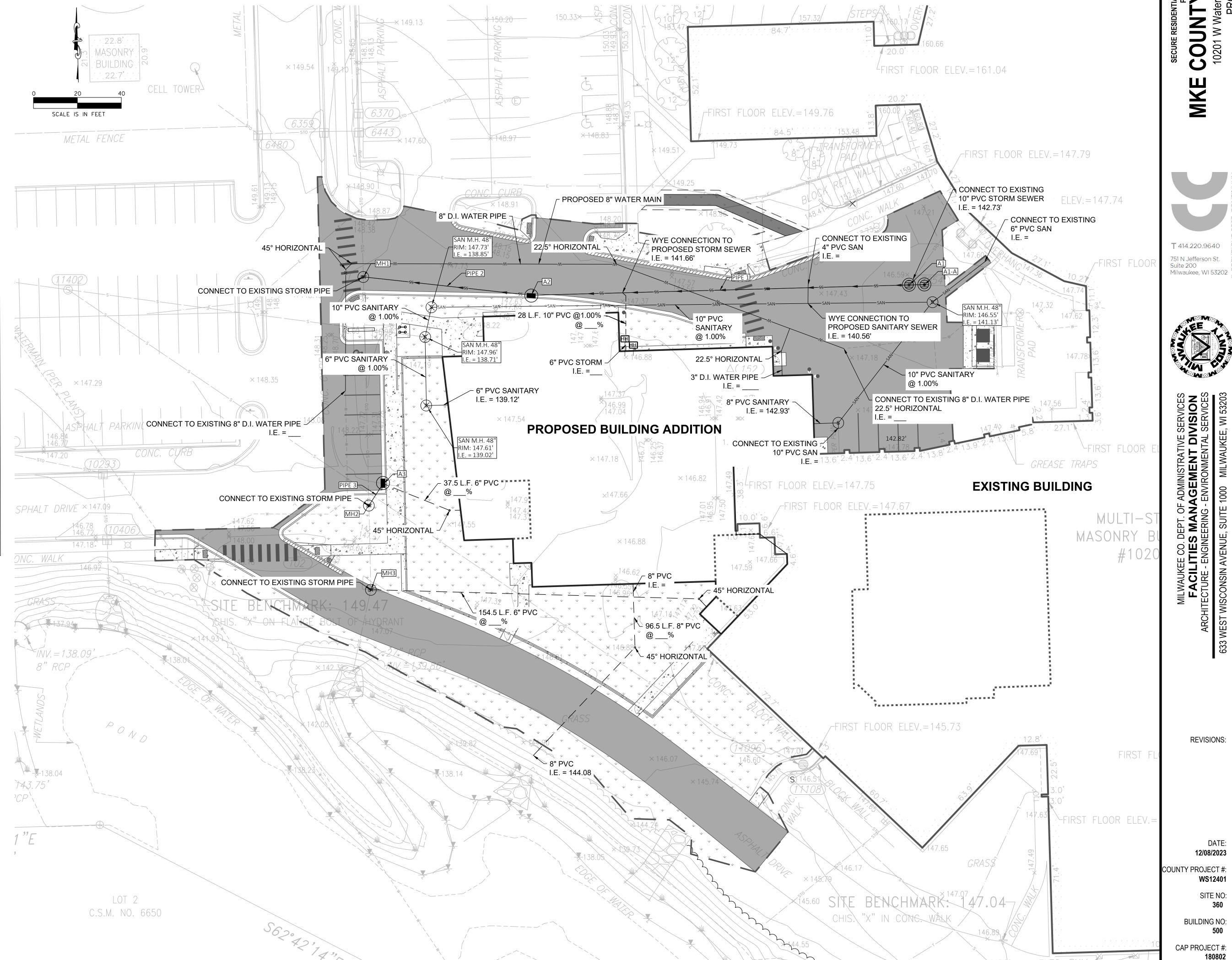
UTILITY DETAILS:

- 1. STORM SEWER MANHOLE / INLET
- 2. PIPE/UTILITY TRENCHING
- 3. MANHOLE PIPE CONNECTION
- 4. SANITARY MANHOLE
- 5. TAPPING SLEEVE AND GATE VALVE ASSEMBLY
- 6. GATE VALVE IN A VALVE BOX
- 7. WYE CONNECTION TO EXISTING PIPE
- 8. CLEANOUT
- 9. CURB INLET

STORM SEWER STRUCTURES AND PIPE TABLES

	STRUCT	URE TABL	E	
STRUCTURE NAME	TYPE	RIM	PIPE IN	PIPE OUT
A1	4-FT MH	146.44'	142.38 E	142.38 W
A1-A	4-FT MH	146.49'		142.45 W
A2	4-FT MH	146.61'	141.41 E	141.41 W
А3	4-FT MH	147.35'	140.361 SE	140.36 SW
MH1	4-FT MH	147.98'	141.03 E	141.03 (EX)
MH2	4-FT MH	148.00'	140.22 NE	140.22 (EX
MH3	4-FT MH	147.54'	140.050 (EX)	139.95 (EX

PIPE NUMBER	SIZE (IN)	LENGTH (FT)	SLOPE	PIPE DESCRIPTION
PIPE 1	18.00	172.23	0.56%	SSPRC CLASS III 18-INCH
PIPE 1A	18.00	7.00	1.00%	SSPRC CLASS III 18-INCH
PIPE 2	24.00	76.73	0.50%	SSPRC CLASS III 24-INCH
PIPE 3	12.00	11.99	1.18%	SSPRC CLASS III 12-INCH



KSingh Engineers Scientists Consultants

PROJECT STATUS: CD SET

ACILIT 53226

OR OR

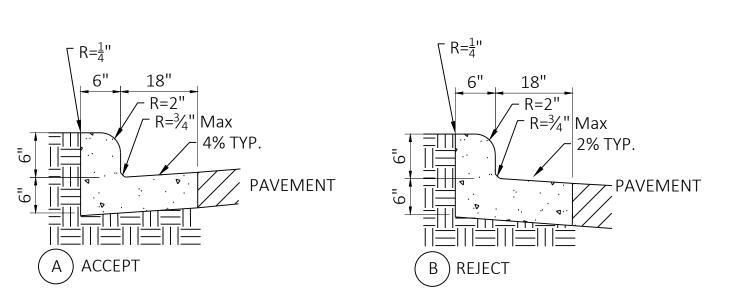
COUNT 10201 W Water

MKE

BUILDING NO:

CAP PROJECT #: PROJECT STATUS: CD SET

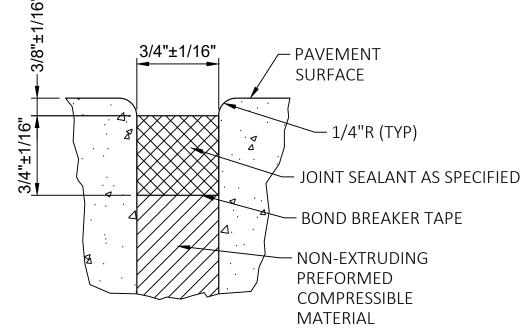
KSingh Engineers Scientists Consultants
CONSTRUCTION DETAILS C500



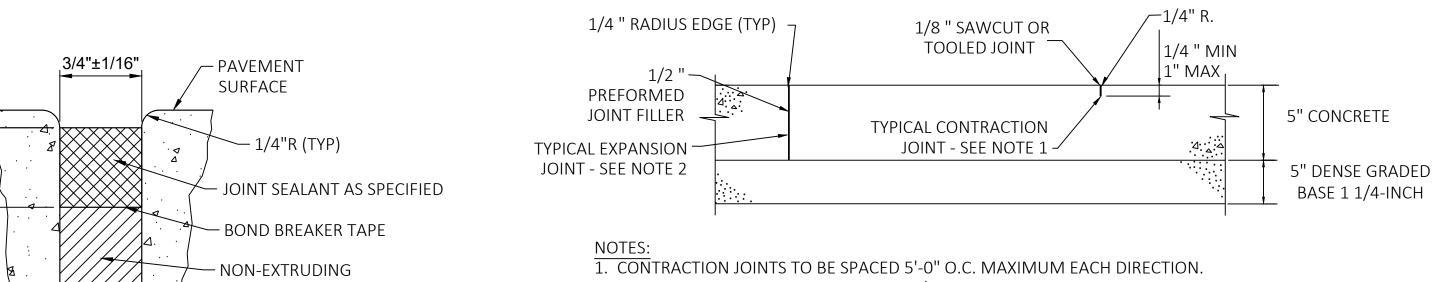
NOTES:

- 1. LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH.
- 2. CONCRETE SHALL BE MEDIUM BROOM FINISH.
- 3. IN ALL CASES, CONCRETE CURB SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED AGGREGATE BASE COURSE (MIN. 2").
- 4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE BASE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.









2. EXPANSION JOINTS TO BE SPACED AT 50' MAXIMUM EACH DIRECTION AND WHERE SIDEWALK MEETS BUILDINGS, CURBS, AND EXISTING SIDEWALKS WHICH REMAIN IN PLACE.

3. LONGITUDINAL SLOPES TO MATCH PROPOSED GRADES, CROSS SLOPE OF NEW SIDEWALK SHALL BE MAX 2.0%. 4. SIDEWALK IN CITY RIGHT OF WAY DRIVEWAY ENTRANCE SHALL MATCH DETAIL 1, C501.

∕−#6 X 3'-6" VERT.

∕−#4 TIES HORZ.

(TYP-6)

#6 VERT. (TYP-8)

CONCRETE BOLLARD DETAIL

- PROVIDE BACKER ROD

AND CONCRETE CRACK

SEALER ALL SIDES

AROUND BOLLARD.

REBAR SECTION DETAIL

4 \ UNREINFORCED CONCRETE SIDEWALK

24" DIAMETER

CONCRETE PIER

CONCRETE FILLED STEEL PIPE.

6" DIAMETER, 96" LONG

(MINIMUM). PAINT PIPE

TRAFFIC YELLOW WITH

WEATHERPROOF PAINT. -

FINISHED GRADE -

COMPACT SOIL TO 95% PER STANDARD PROCTOR

CONCRETE 3500 PSI -

24" DIA. DRILLED CONCRETE PIER.

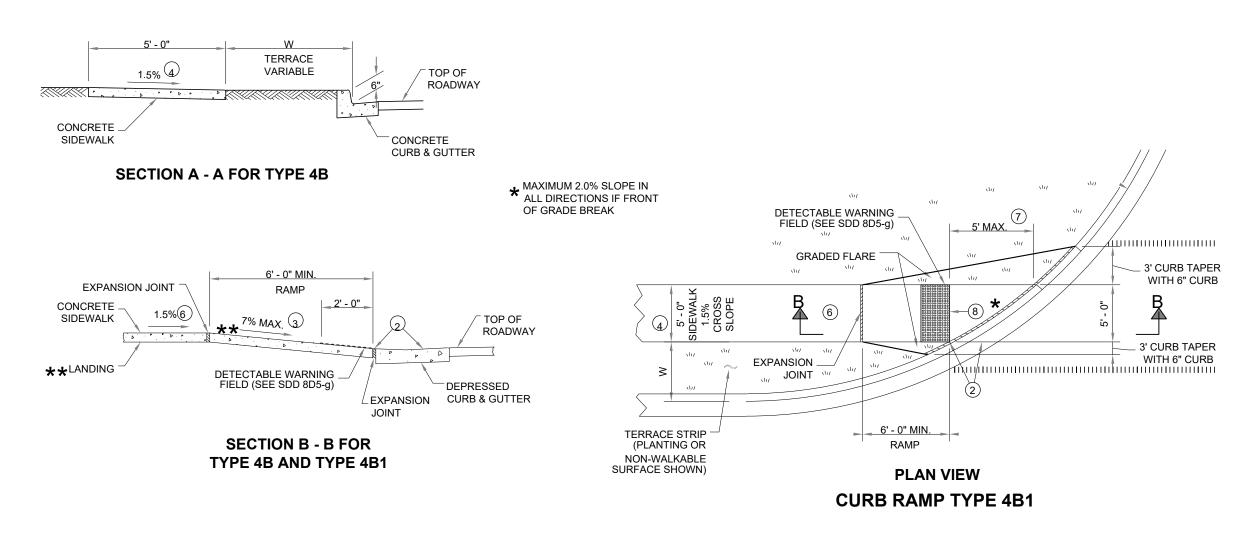
C500

METHOD A MIN. OF 12" ALL AROUND CONCRETE PIER. -

CONCRETE

ROUNDED AT TOP -





GENERAL NOTES

2.5" HMA PAVEMENT, 4 LT 58-28 S,

UPPER LAYER

LOWER LAYER

10" OF DENSE GRADED

BASE, 1 1/4 - INCH

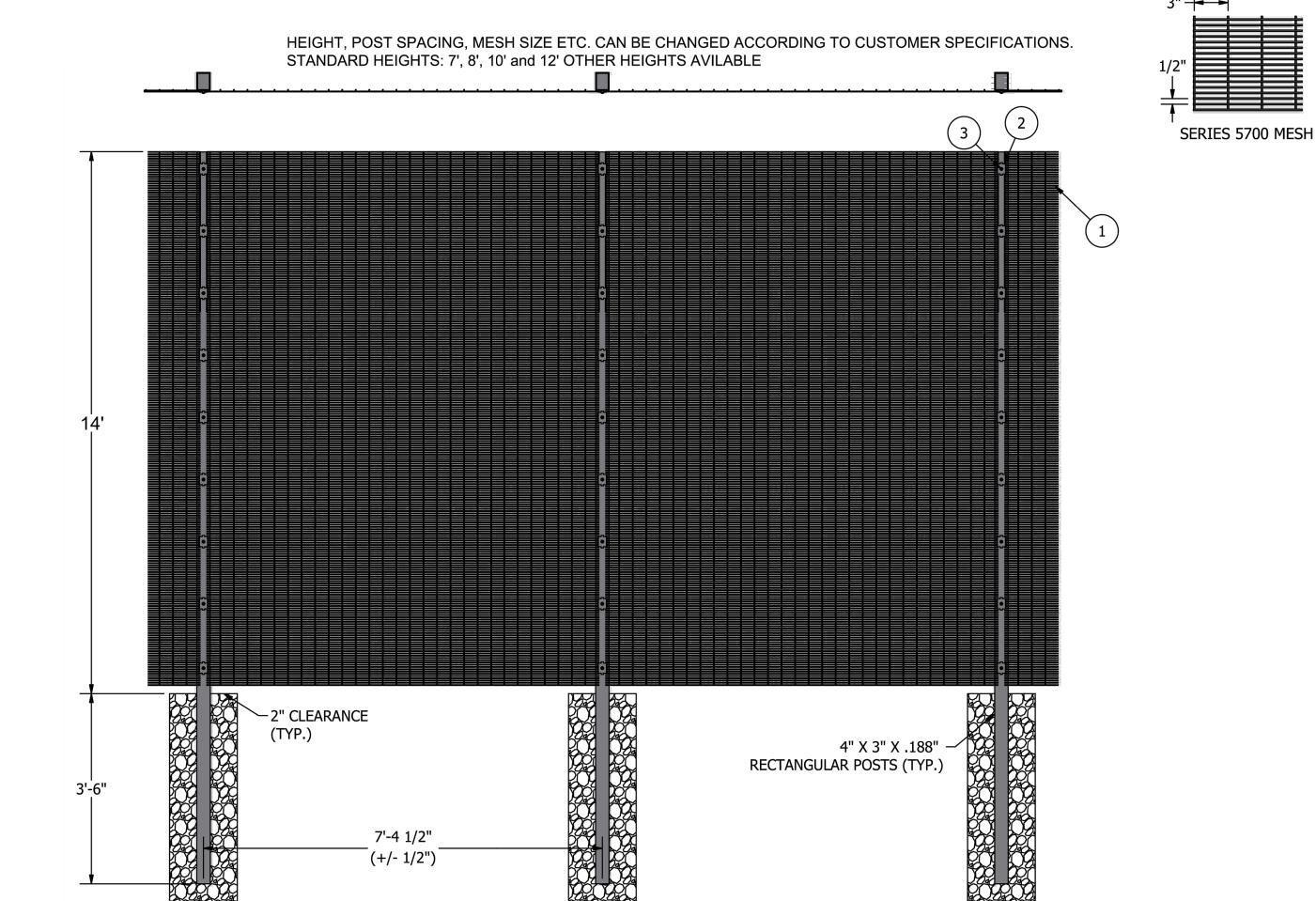
NOMINAL AGGREGATE SIZE 12.5 mm

✓ 3.0" HMA PAVEMENT, TYPE 3 LT 58-28 S,

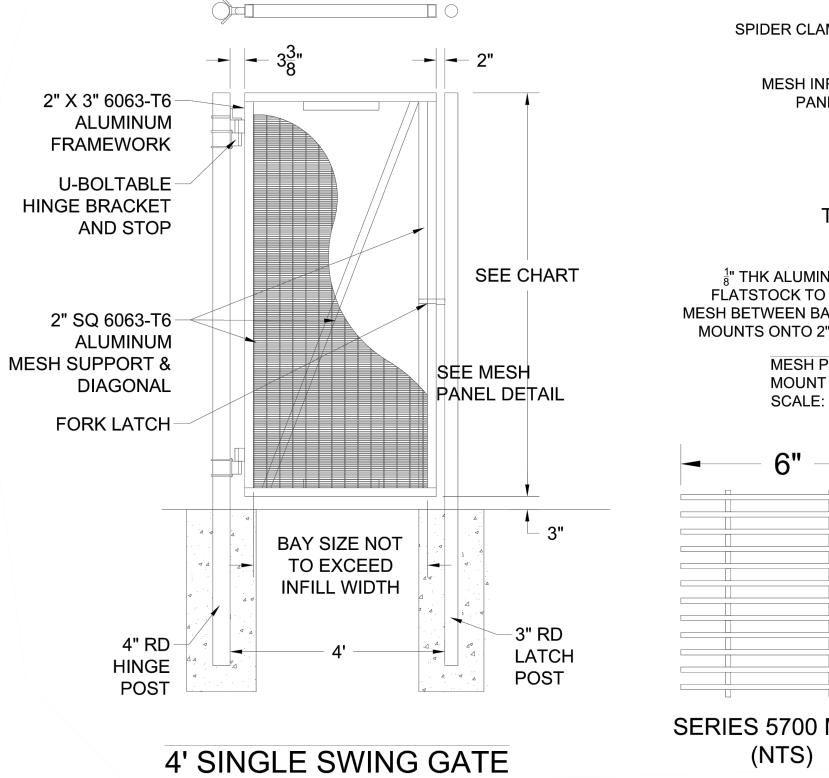
NOMINAL AGGREGATE SIZE 19.0 mm

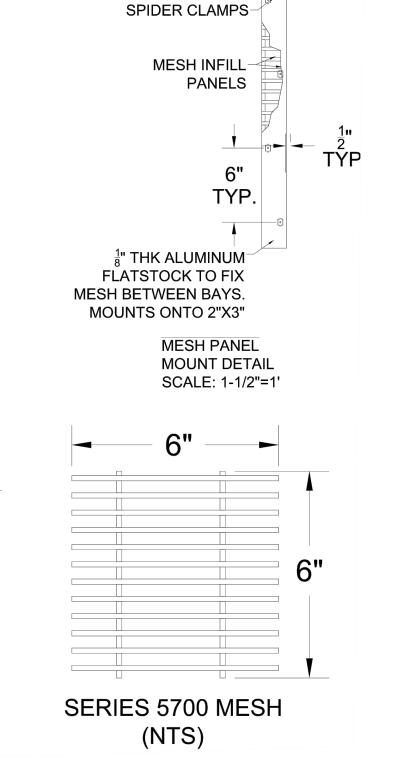
- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER
- FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4 - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- (3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT
- PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS
- $_{7})$ WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- 8 PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL. INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

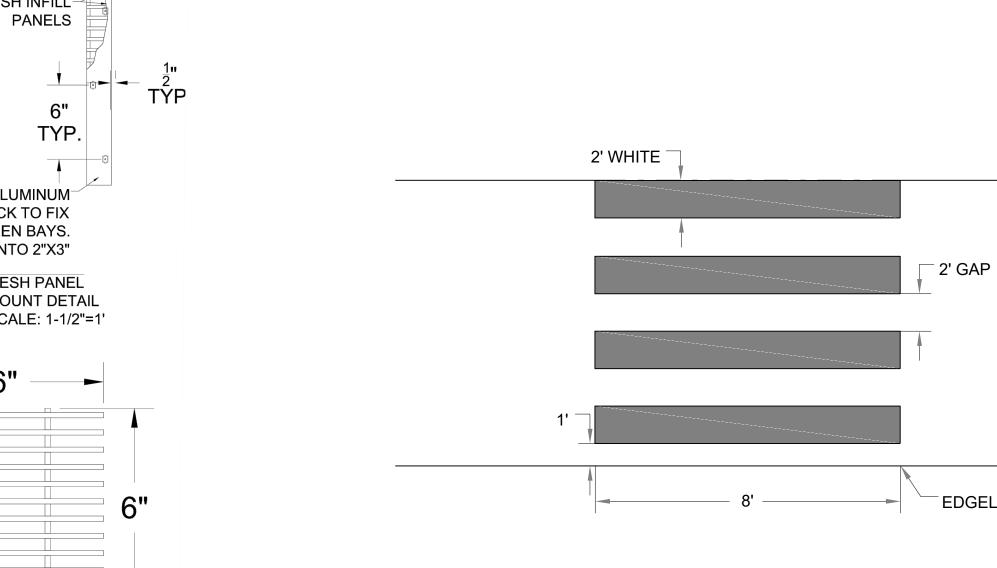




7 SECURITY FENCE NTS







TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK

9 PAVEMENT MARKING CROSSWALK DETAIL C500 NTS

NOTES:

1. CONTRACTOR SHALL FOLLOW MANUFACTURERS INSTALLATION REQUIREMENTS AND SPECIFICATIONS.

8 SECURITY FENCE GATE C500 NTS

751 N Jefferson St.

Milwaukee, WI 53202

Suite 200

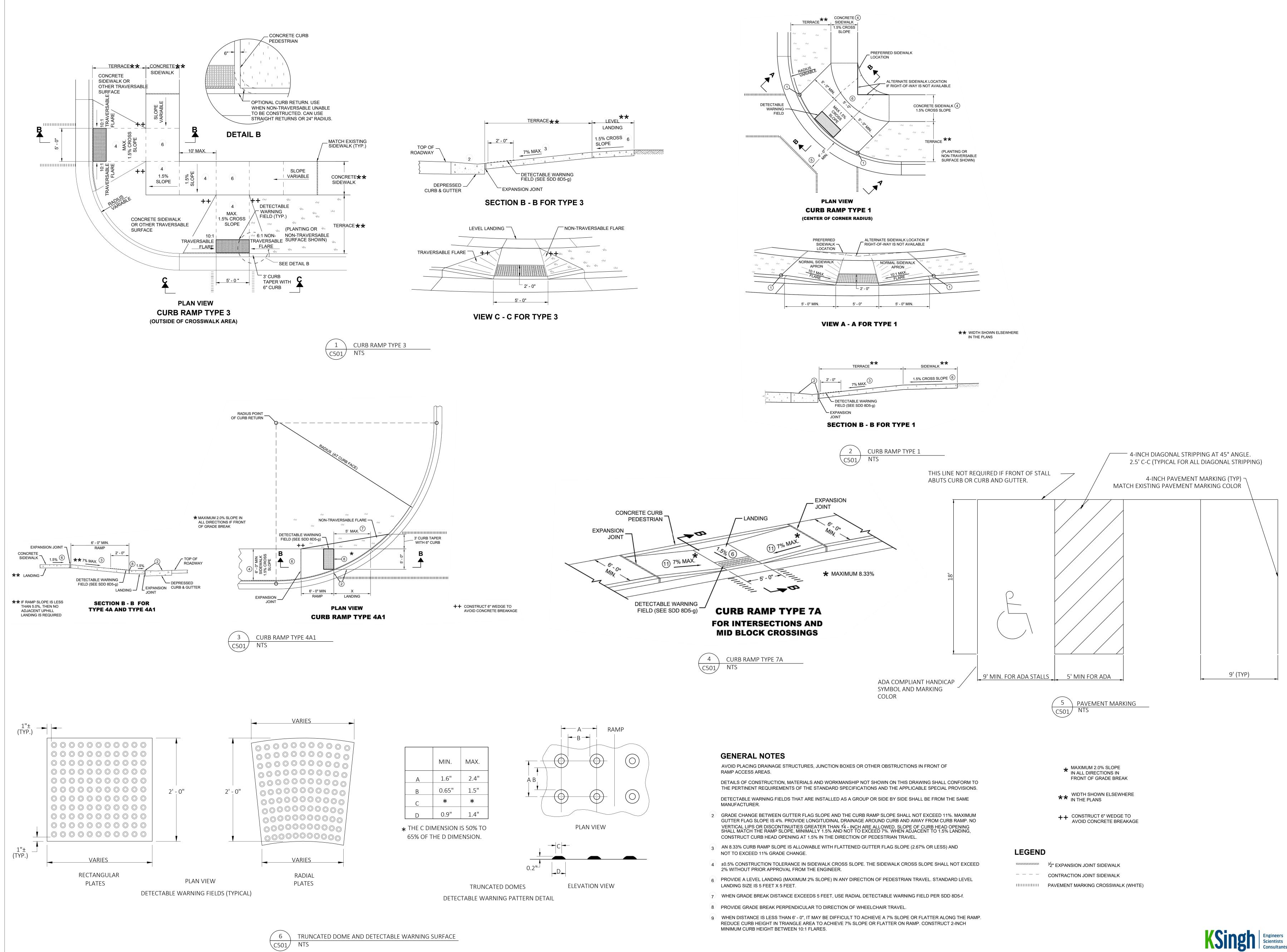
BUILDING NO:
500

CAP PROJECT #:
180802

PROJECT STATUS:

CD SET

C501

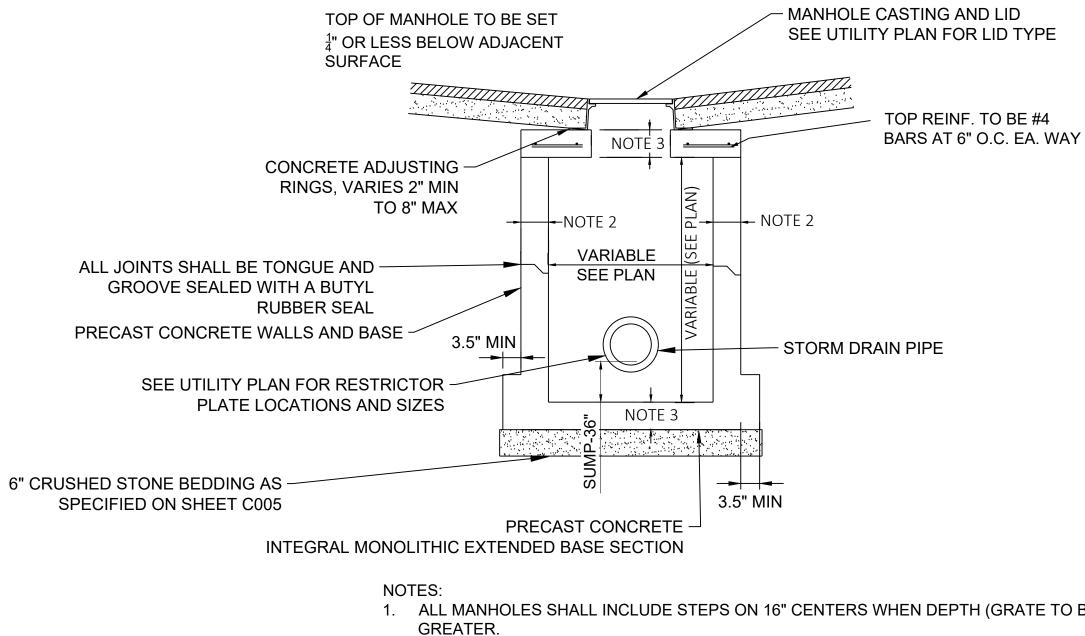


751 N Jefferson St.

Milwaukee, WI 53202

Suite 200

CAP PROJECT #: PROJECT STATUS: CD SET

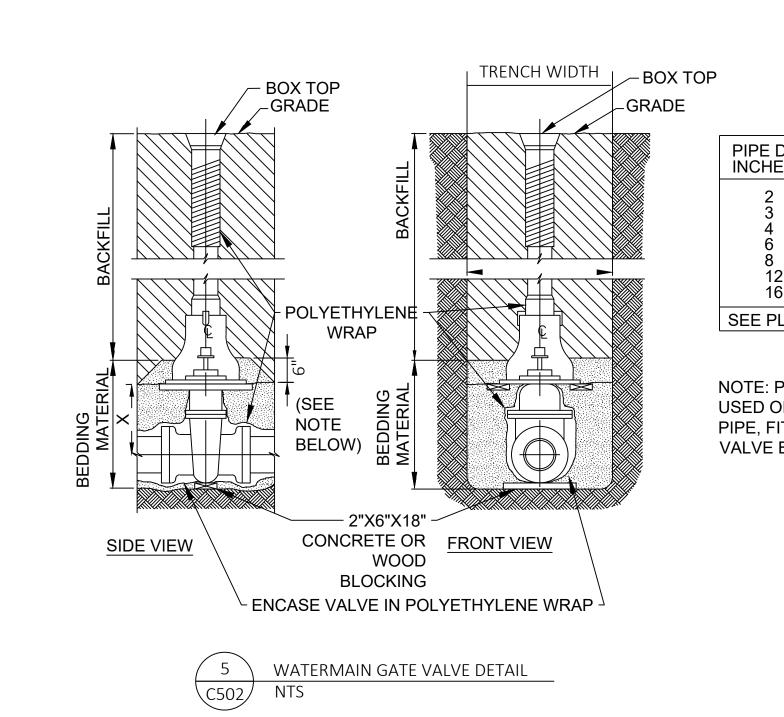


1. ALL MANHOLES SHALL INCLUDE STEPS ON 16" CENTERS WHEN DEPTH (GRATE TO BOTTOM) IS 4.0' OR

2. MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT. 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT, AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8"





PIPE DIA. INCHES X = SETTING INCHES SEE PLANS FOR PIPE SIZE NOTE: POLYETHYLENE WRAP USED ON ALL DUCTILE IRON PIPE, FITTINGS, VALVES, AND VALVE BOXES.

CONCRETE BLOCKING— TAPPING VALVE— TAPPING SLEEVE — • III (MECHANICAL) WATERMAIN-

8"-21" (INCLUSIVE)

VALVE BOX — -VALVE BOX BASE ADAPTER ← CONCRETE BLOCKING POLYETHYLENE FILM ENVELOPE (FOR DUCTILE IRON) CONCRETE BLOCKING

┌ RESTRICTOR PLATE

AND HEX NUTS.

RADIUS OF THE CATCH BASIN.

3. EMBEDMENT DEPTH - 3" (TYP).

RESTRICTOR PLATE NOTES:

INVERT ON PIPE.

GRADE ─\

TACK WELD TO PLATE

1. PLATE SHALL BE CURVED TO MATCH THE INSIDE

4. MATCH RESTRICTOR PLATE OPENING INVERT WITH

FABRICATED STAINLESS STEEL OR DUCTILE IRON.

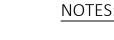
6. INSTALL RESTRICTOR PLATES ON INSIDE OF MANHOLE.

2. SEAL AROUND PLATE WITH EPOXY SEALANT.

5. RESTRICTOR PLATE AND FASTENERS SHALL BE

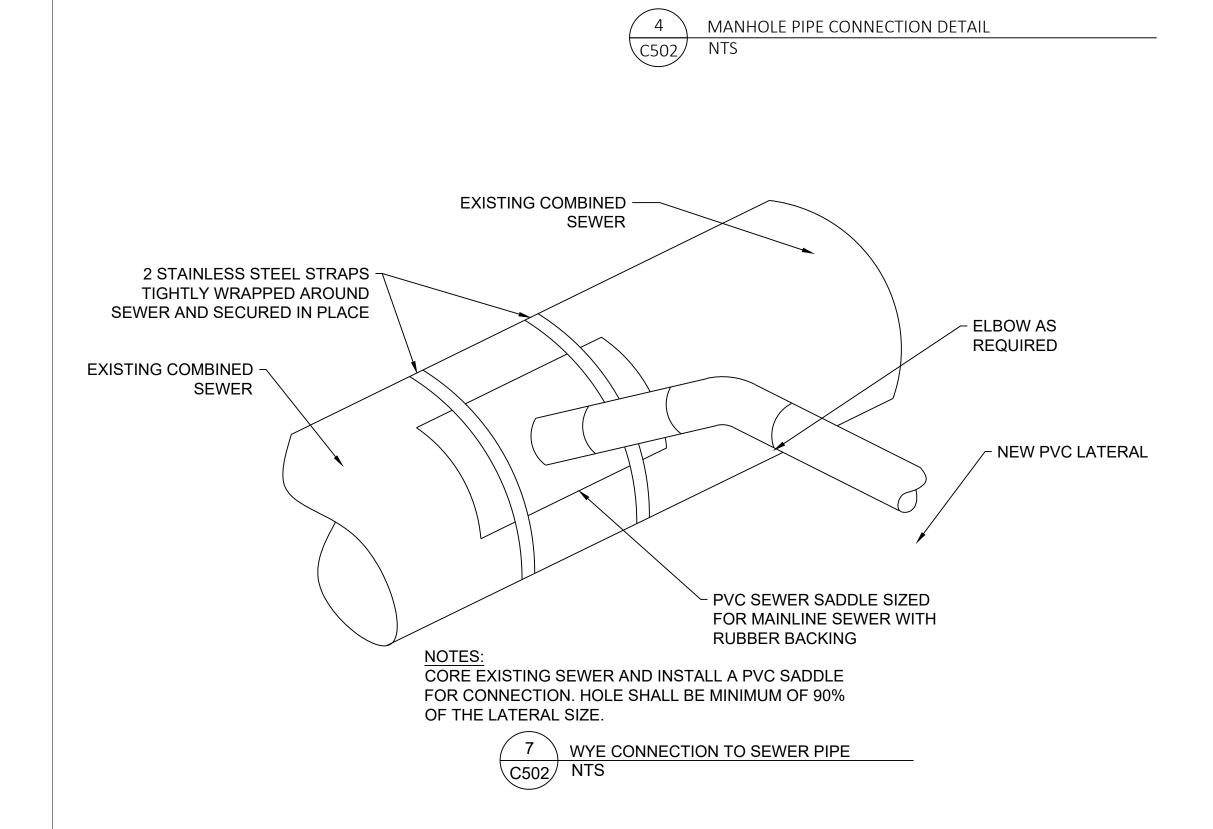
┌ EIGHT 1/2" DIA. EXPANSION

ANCHORS WITH WASHERS



- 1. REFER TO CURRENT SPECIFICATION 5.15.11 (WATERMAIN INSTALL SPECS) FOR BRANCH INSTALLATION.
 - 2. WATER SERVICE PIPING SHALL BE 6'-0" MIN. BELOW GRADE AND BE LEVEL WITH THE WATERMAIN.
- 3. WHERE AVAILABLE, ANCHOR TEES ARE PERMITTED.
- . COMM 82.40(8)(b) SHALL GOVERN ACCEPTABLE DISTANCES BETWEEN ANY SANITARY SEWER AND WATER SERVICE PIPING.
- VALVE STOP BOXES SHALL BE A MAXIMUM OF 1" ABOVE FINISHED GRADE AND SHALL BE ACCESSIBLE IN UNPAVED AREAS.
- 6. VALVE STOP BOXES SHALL BE FLUSH WITH FINISHED GRADE IN PAVED AREAS.





MAINTAIN TRENCH WIDTH

WITH EXCAVATION SUPPORT

12" MAX.

6" MIN.

C502 NTS

TYPICAL PIPE/UTILITY TRENCH

BELOW LANDSCAPING

BOTTOM OF TOPSOIL

AS NEEDED

CRUSHED STONE BEDDING

AND INITIAL COVER MATERIAL

EARTH BACKFILL

AS SPECIFIED

AS SPECIFIED

Δ φ . Δ.

INSTALL PIPE IN -

INSTRUCTIONS

ACCORDANCE WITH

BOOT MANUFACTURER'S

INVERT CHANNEL CONC. —

FINISH GRADE

EXCAVATION SUPPORT

MAINTAIN TRENCH WIDTH

WITH EXCAVATION SUPPORT

TYPICAL PIPE/UTILITY TRENCH

UNDER PAVEMENT

- FLEXIBLE BOOTS MEETING ASTM C923

PRESSED IN BOOT ALSO PERMITTED)

CLAMP ON TYPE (CAST IN BOOT SHOWN,

CLAMP SECURELY IN

MANUFACTURER'S

INSTRUCTIONS

WHEN PLACING FIELD POURED

PREFORMED PLASTIC GASKET

MATERIAL TO PREVENT SPACE

ANNULAR SPACES WITH

CONCRETE INVERT CHANNELS PACK

BETWEEN PIPE AND FLEXIBLE BOOT.

ACCORDANCE WITH BOOT

12" MAX.

6" MIN.

C502 NTS

← MANHOLE CONNECTORS

PAVEMENT SUBGRADE

FINISH GRADE

AS NEEDED

AS SPECIFIED

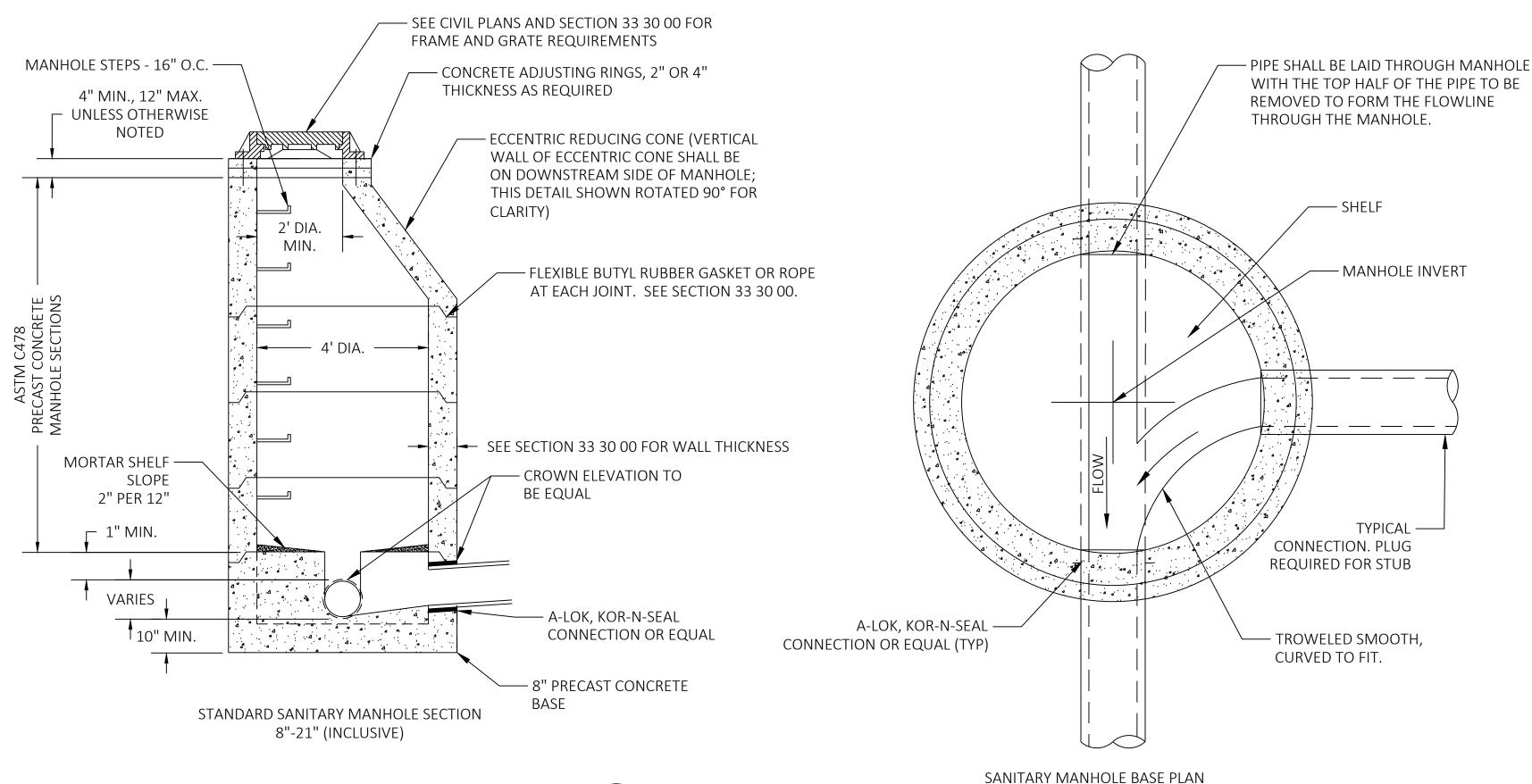
CRUSHED STONE BEDDING

AS SPECIFIED

AND INITIAL COVER MATERIAL

GRANULAR BACKFILL

EXCAVATION SUPPORT



′8 ∖SANITARY MANHOLE

NOTES:

- 1. A CONTINUOUS SEWER SHALL BE LAID THROUGH THE MANHOLE EXCEPT AT JUNCTIONS AND ANGLES.
- 2. OFFSET CONE SHALL BE INSTALLED UNLESS OTHERWISE NOTED.
- 3. THE SEWER SHALL BE SUPPORTED AT THE MIDPOINT OF THE MANHOLE WITH A

SOLID CONCRETE UNIT PRIOR TO POURING THE BASE.

KSingh Engineers Scientists Consultants
CONSTRUCTION DETAILS

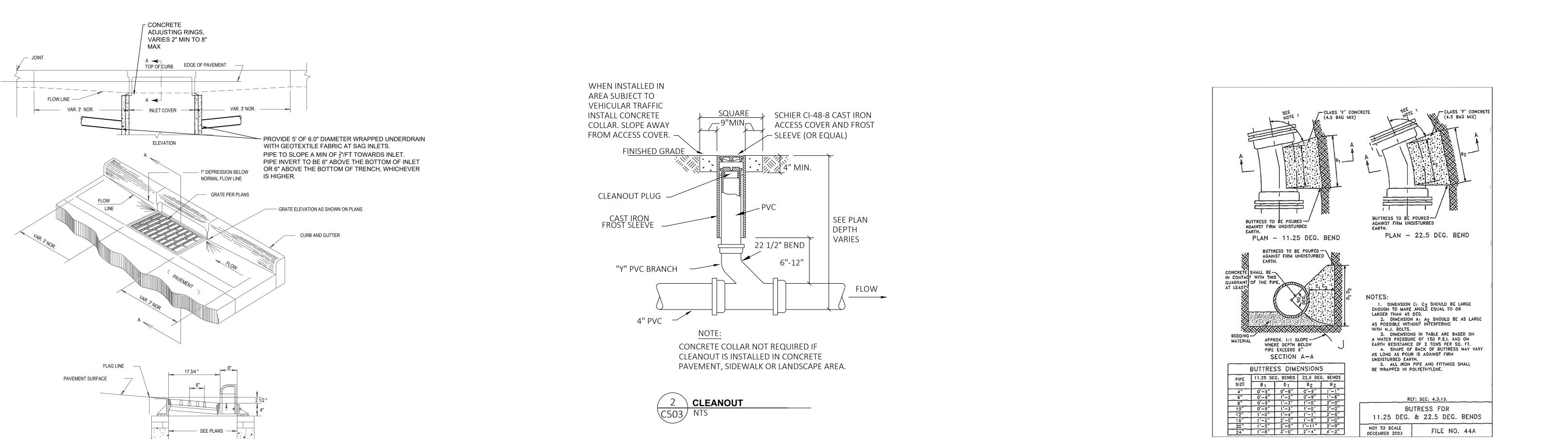
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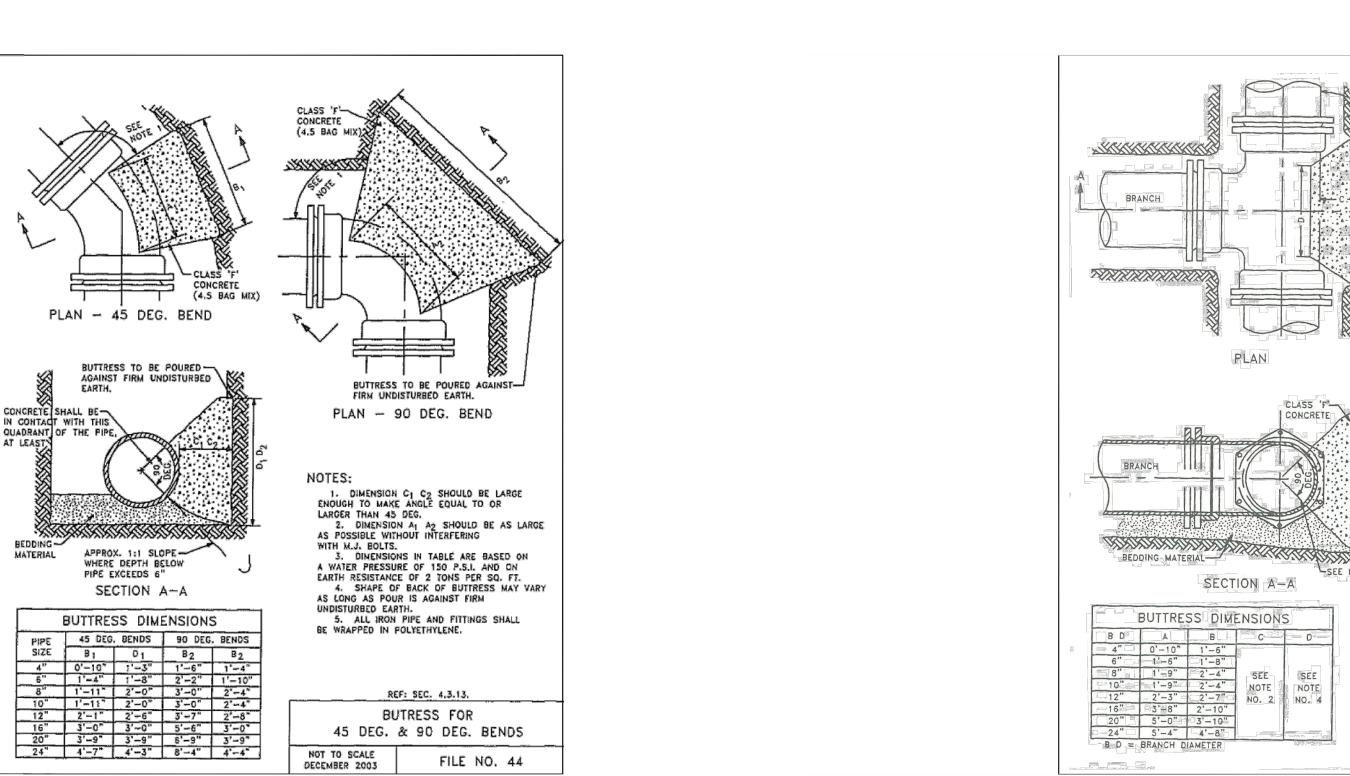
751 N Jefferson St.

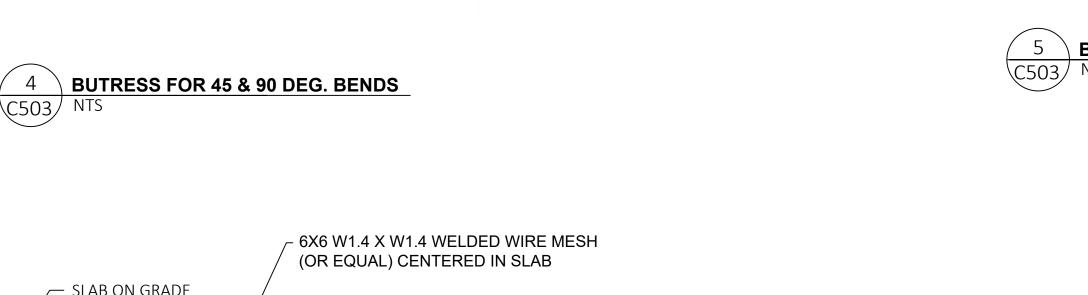
Milwaukee, WI 53202

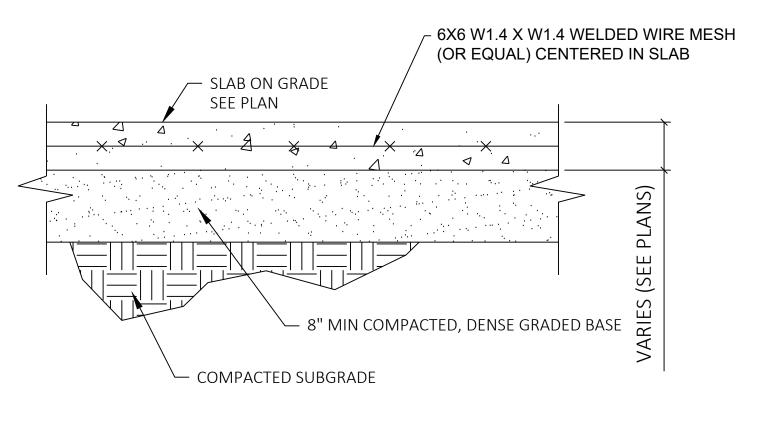
Suite 200

CAP PROJECT #: **180802** PROJECT STATUS: CD SET

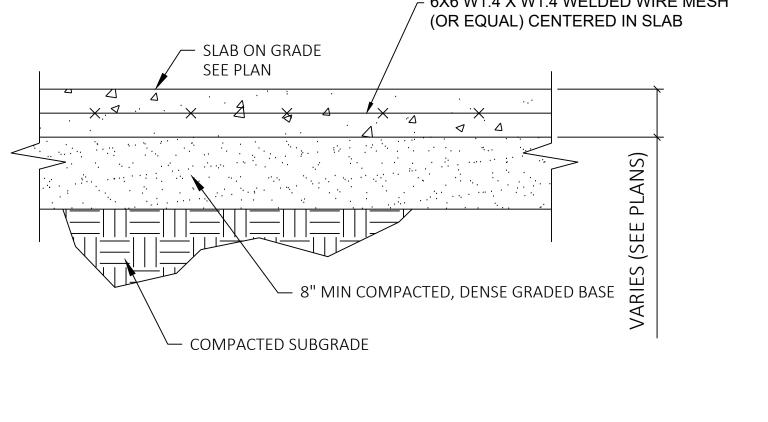




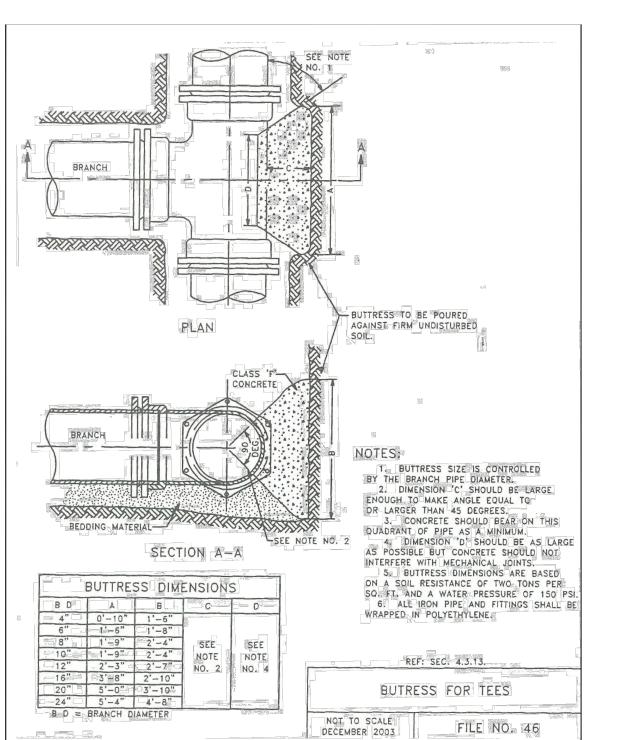




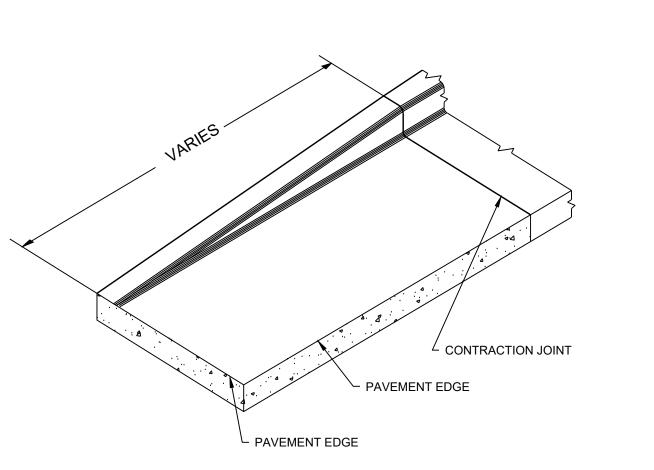
SECTION A-A

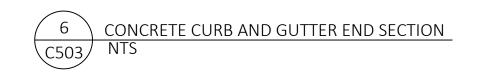


7 REINFORCED CONCRETE SLAB ON GRADE C503 NTS





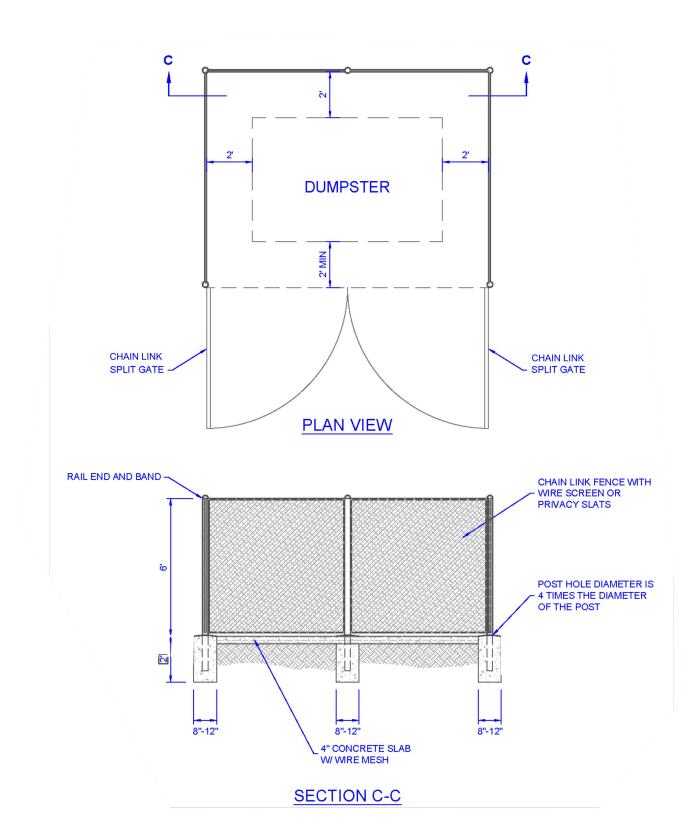




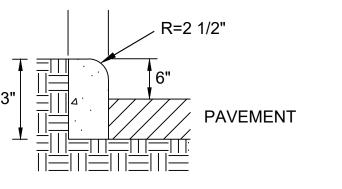
FILE NO. 44A

BUTRESS FOR 11.25 & 22.5 DEG. BENDS





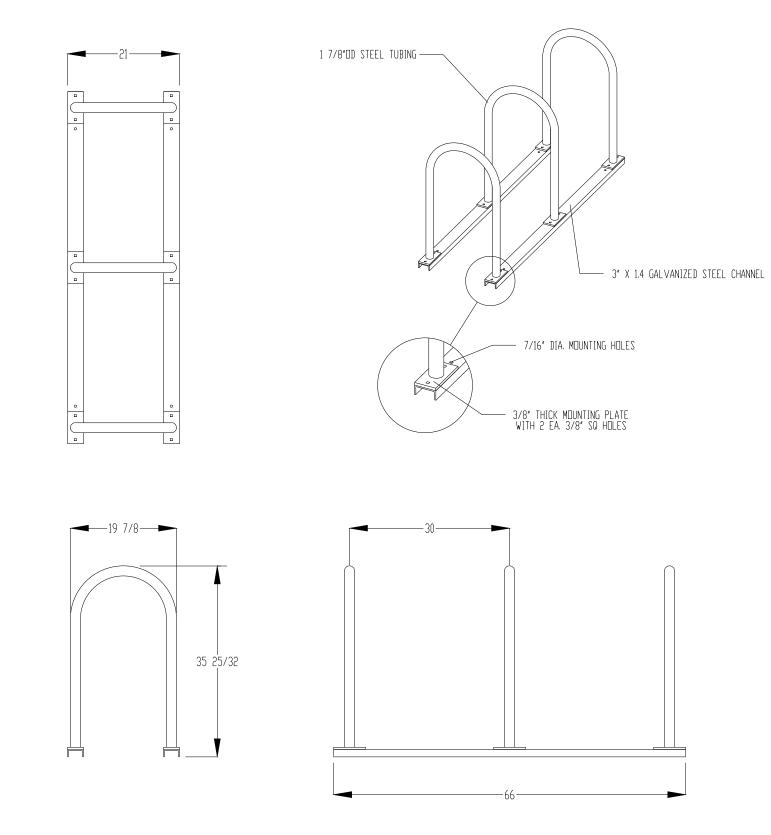
3 DUMPSTER ENCLOSURE, CHAIN LINK C504 NTS



NOTES:

 CONCRETE CURB SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED AGGREGATE BASE COURSE (MIN. 2"). AN EXPANSION JOINT ONE (1) INCH IN WIDTH SHALL BE CONSTRUCTED BETWEEN VERTICAL CURB AND BUILDING OR WALLS.

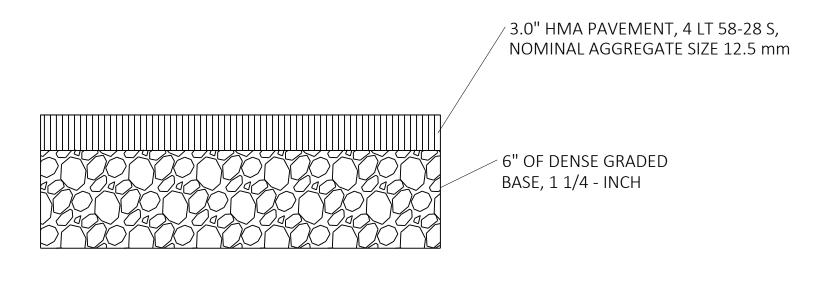




NOTES:

- 1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- 2. CONSULTANT TO SELECT COLOR (FINISH). SEE MANUFACTURER'S SPECIFICATIONS.
- 3. SEE SITE PLAN FOR LOCATION.







KSingh Engineers
Scientists
Consultants
CONSTRUCTION DETAILS

180802

PROJECT STATUS:
CD SET

C504

CE COUNTIAL CARE CENTER FOR CHILDREN AND YOUTH AT VEL R. PHILLIPS JUVENILE JUSTICE CENTER

PHILLIPS JUSTICE CENTER

PHILLIP

T 414.220.9640

751 N Jefferson St. Suite 200
Milwaukee, WI 53202



COUNTY PROJECT #:
W\$12401

SITE NO:
360

BUILDING NO:
500

CAP PROJECT #:
180802