

Madison, Wisconsin
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CITY OF MADISON

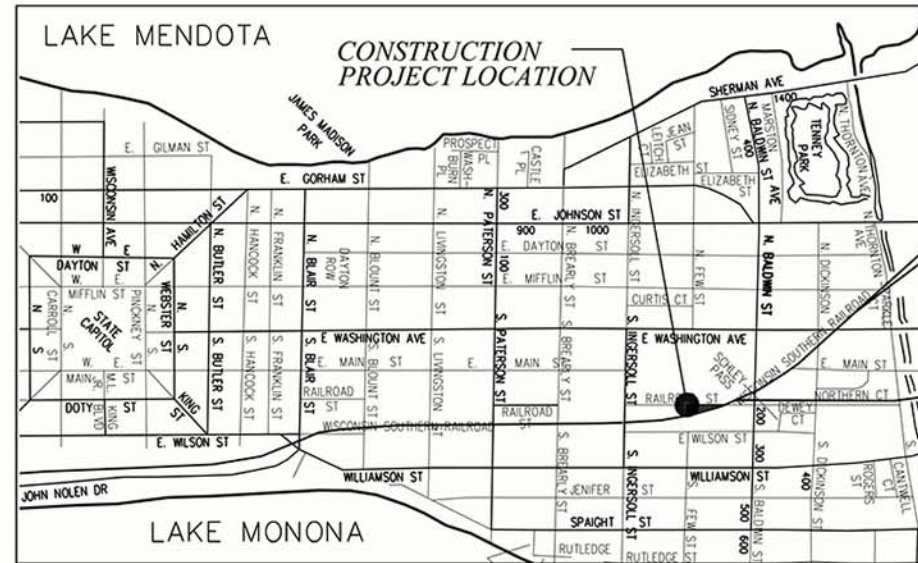
PARKS DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

SKATE PARK -CENTRAL PARK, MADISON

CITY PROJECT NO. 53W1785
 CONTRACT NO. 7312



VICINITY MAP- (NTS)

GENERAL CONSTRUCTION NOTES

- 1) ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 2) ALL CONSTRUCTION TESTING SHALL BE AT THE DISCRETION OF THE CITY OF MADISON, WI AS TO THE TYPE AND NUMBER.
- 3) ALL EQUIPMENT SHALL HAVE RESIDENTIAL MUFFLER SILENCERS PER OSHA REQUIREMENTS AND MUTCD.
- 4) ANY DETOURING OF TRAFFIC ONTO CITY STREETS SHALL MEET THE TRAFFIC CONTROL REQUIREMENTS OF THE CITY OF MADISON, WI.
- 5) CONTRACTOR SHALL CALL DIGGERS HOTLINE AT (800) 242-8511 AND OWNER AT LEAST ONE (1) WEEK PRIOR TO START OF CONSTRUCTION FOR LOCATING UNDERGROUND UTILITIES.
- 6) THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION, HOWEVER, THE CITY OF MADISON, WI, ENGINEER AND LANDSCAPE ARCHITECT ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SHOWN, OR FOR THE INADVERTENT OMISSION OF ANY SUCH INFORMATION. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES AND OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF THIS PROJECT.
- 7) DETOURING OF PEDESTRIANS SHALL BE ACCOMPLISHED WITH ADEQUATE SIGNS AT A SAFE LOCATION.

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SKATE PARK- NOTES

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SKATE PARK-DESIGN CRITERIA

THESE GENERAL STRUCTURAL NOTES APPLY UNLESS OTHERWISE NOTED.

CODE:
COMPLY WITH 2006 INTERNATIONAL BUILDING CODE, AS AMENDED BY THE CITY OF MADISON, WI.

SEISMIC:
SEISMIC USE GROUP
SPECTRAL RESPONSE: Sds = 25.2
Sd1 = 10.9
SITE CLASS "D"

WIND:
3-SECOND GUST WIND SPEED 90 M.P.H.
IMPORTANCE FACTOR I = 1.0
WIND EXPOSURE "C"

SKATE PARK-STRUCTURAL NOTES

1. SPECIAL STRUCTURAL INSPECTION

1.1 PROVIDE SPECIAL STRUCTURAL INSPECTION AS REQUIRED BY BUILDING CODES FOR THE FOLLOWING ITEMS:

1.1.1 CONCRETE: DURING THE TAKING OF TEST SPECIMENS & PLACING OF REINFORCED CONCRETE WHERE F'C > 2,500 PSI, EXCEPT SLABS ON GRADE.

1.1.2 BOLTS INSTALLED IN CONCRETE: DURING INSTALLATION OF EMBEDDED BOLTS IN CONCRETE AND DURING INSTALLATION OF EXPANSION BOLTS & EPOXY BOLTS / REBAR INTO EXISTING CONCRETE.

1.1.3 REINFORCING STEEL: DURING PLACING OF REINFORCING STEEL, FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION BY THE CONCRETE SECTION ABOVE AND PLACING REINFORCING STEEL IN EPOXIED HOLES PER ABOVE.

1.1.4 SHOTCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL SHOTCRETE.

1.2 SCHEDULING OF SPECIAL STRUCTURAL INSPECTIONS:

1.2.1 THE CONTRACTOR SHALL ALLOW A MINIMUM OF 24 HOURS NOTIFICATION FOR THE SCHEDULING OF SPECIAL STRUCTURAL INSPECTIONS.

2. FOUNDATIONS

2.1 REFER TO SECTIONS AND DETAILS.

3. REINFORCING

3.1 SECURELY TIE ALL REBAR, INCLUDING DOWELS, IN LOCATION BEFORE PLACING CONCRETE OR GROUT.

3.2 WHERE REINFORCING IS SHOWN CONTINUOUS THRU CONSTRUCTION JOINTS, LENTON FORM SAVERS DOWEL BAR SPLICE DEVICES AS MANUFACTURED BY ERICO PRODUCTS, INC. (ICBO #3967) OR EQUIVALENT MAY BE USED. DEVICES SELECTED SHALL DEVELOP AT LEAST 125 PERCENT OF THE TENSION OR COMPRESSION BAR YIELD STRENGTH PER E.S. REPORT.

4. STRUCTURAL STEEL

4.1 ASTM A-36 FOR C, MC, ANGLES, AND PLATES.

4.2 ASTM A-53 GRADE B OR A-501 FOR STEEL PIPES

4.3 ASTM A-500 GRADE B, Fy=46 KSI FOR TS/HSS TUBE STEEL FOR SIZES UP TO 5/8" THICK.

4.4 ASTM A-307 OR A-36 PLAIN ANCHOR BOLTS.

5. STRUCTURAL STEEL & REINFORCEMENT WELDING

5.1 ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT CERTIFICATES VALIDATED BY AN INDEPENDENT LAB & HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR. THE CONTRACTOR SHALL SUBMIT WELDING CERTIFICATES FOR EACH WELDER PRIOR TO COMMENCING THE WORK.

5.2 WELDING RODS TO BE LOW HYDROGEN TYPE, E70 SERIES, PER AWS D1.1 TYPICALLY EXCEPT E-6010 SERIES FOR STEEL SHEET METAL PER AWS D1.3 AND REINFORCING WELDMENTS PER AWS D1.4. USE E80 SERIES WELDING RODS FOR A706 REBAR.

5.3 FIELD INDICATED WELDS MAY BE DONE IN SHOP & SHOP INDICATED WELDS MAY BE DONE IN FIELD ONLY IF SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION.

6. SUPPLEMENTARY NOTES

6.1 THESE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, MEANS AND METHODS, BRACING, SHORING, FORMS, SCAFFOLDING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OR STRUCTURAL OBSERVERS SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

6.2 REINFORCING OR THREADED RODS DRILLED AND EPOXIED INTO EXISTING CONCRETE AS DETAILED ON THE DRAWINGS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUIVALENT:

6.2.1 HILTI RE-500 SD - ICC ESR-2322

6.2.2 SIMPSON SET-XP - ICC ESR-2508

6.2.3 POWERS PE1000+ - ICC ESR-2583

6.3 INSTALLATION OF EPOXIED DOWELS SHALL FOLLOW THE STRICT RECOMMENDATIONS OF THE MANUFACTURER AND THE APPLICABLE ICBO REPORT AND HAVE A MINIMUM 9 DIAMETERS EMBEDMENT

6.4 INSTALLATION SHALL FOLLOW THE STRICT RECOMMENDATIONS OF THE MANUFACTURER AND THE APPLICABLE ICBO REPORT. CONTRACTOR SHALL HAVE APPROPRIATE ICBO REPORT ON-SITE DURING ALL INSTALLATIONS.

6.5 ANY ENGINEERING DESIGN PROVIDED BY CONTRACTOR OR OTHERS AND SUBMITTED FOR REVIEW SHALL BE BY AN INSURED LICENSED STRUCTURAL ENGINEER WITH CONTINUOUS FIVE YEARS OF EXPERIENCE IN THE TYPE OF DESIGN SUBMITTED.

SKATE PARK-GENERAL CONSTRUCTION NOTES

1. GENERAL

1.1 CONSIDER GENERAL NOTES AS APPLYING TO ALL DRAWINGS.

1.2 NOTIFY SKATE PARK DESIGNER OF ANY DISCREPANCIES TO THESE PLANS.

1.3 PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND/OR LOCAL BUILDING CODES.

1.4 THE SKATE PARK DESIGNER SHALL HAVE NO CONTROL OR CHARGE OF, NOR BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, SAFETY PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

1.5 PROVIDE SPECIAL INSPECTION AS REQUIRED BY BUILDING CODES FOR THE FOLLOWING ITEMS:

1.5.1 PLACEMENT OF REINFORCING STEEL.

1.5.2 TAKING OF TEST SPECIMENS AND PLACING OF ALL CONCRETE.

1.5.3 BOLTS IN CONCRETE.

1.5.4 TAKING OF TEST SPECIMENS AND PLACING OF ALL SHOTCRETE.

1.6 THE CONTRACTOR SHALL WARRANTY ALL OF THEIR WORK DURING CONSTRUCTION AND A MINIMUM OF ONE YEAR AFTER THE PROJECT IS ACCEPTED AS COMPLETE.

1.7 THE METRIC EQUIVALENT "[]" DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THEIR ACCURACY.

2. CONCRETE WORK

2.1 CONCRETE MIXES SHALL BE DESIGNED BY A TESTING LABORATORY AND APPROVED BY THE SKATE PARK ARCHITECT. MIXES SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS, REGARDLESS OF OTHER MINIMUM REQUIREMENTS SPECIFIED HEREIN OR ON THE DRAWINGS. MIX DESIGNS SHALL BE SUBMITTED TO THE SKATE PARK DESIGNER FOR APPROVAL BEFORE USE. DESIGNS SHALL SHOW PROPORTIONS OF CEMENT, FINE AND COARSE AGGREGATES AND WATER, AND GRADATION OF COMBINED AGGREGATES.

2.2 CEMENT: ASTM C150. CEMENT SHALL BE OF SAME BRAND, TYPE AND SOURCE THROUGHOUT PROJECT. WHERE AGGREGATES ARE POTENTIALLY REACTIVE, USE LOW ALKALI CEMENT.

2.3 AGGREGATES SHALL CONFORM TO ASTM C33.

2.4 NO ADMIXTURES WITHOUT APPROVAL. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. CONCRETE SHALL NOT BE IN CONTACT WITH ALUMINUM.

2.5 CONCRETE MIX DESIGN - CAST-IN-PLACE

2.5.1 PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED BELOW. INCREASE CEMENT CONTENT OVER THAT SHOWN, IF REQUIRED TO OBTAIN THE COMPRESSIVE STRENGTH:

MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	MIN. CEMENT CONTENT (POUNDS)	MAX. SLUMP (INCHES)	MAX. AGGREGATE SIZE (INCHES)	MAX. AIR ENTRAINING (PERCENT)
4000	480	4"	1"	3-5%

2.6 CONCRETE MIX DESIGN - SHOTCRETE

2.6.1 ACI STANDARD 506, LATEST EDITION, "SPECIFICATION FOR MATERIALS, PROPORTIONING AND APPLICATION OF SHOTCRETE" AND ACI 506.2, LATEST EDITION, "RECOMMENDED PRACTICES FOR SHOTCRETE" SHALL BE FOLLOWED.

2.6.2 MIX DESIGNS FOR SHOTCRETE CONTAINING FLY ASH SHALL BE BY AN INDEPENDENT TESTING LABORATORY. ONLY ASTM C618 CLASS F FLY ASH SHALL BE USED. THE AMOUNT OF FLY ASH USED SHALL NOT EXCEED 20 PERCENT BY WEIGHT OF THE COMBINED WEIGHT OF FLY ASH PLUS CEMENT.

2.6.3 PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED BELOW. INCREASE CEMENT CONTENT OVER THAT SHOWN, IF REQUIRED TO OBTAIN THE COMPRESSIVE STRENGTH:

MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	MIN. CEMENT CONTENT (POUNDS)	MAX. SLUMP (INCHES)	MAX. AGGREGATE SIZE (INCHES)	MAX. AIR ENTRAINING (PERCENT)
4000	600	2"	3/8"	3-5%

2.6.4 SURFACE PREPARATION: EXPOSED EXISTING CONCRETE SHALL BE SANDBLASTED CLEAN. SURFACES SHALL BE FOLLOWED BY WETTING AND DAMP DRYING JUST PRIOR TO SHOTCRETE APPLICATION.

2.6.5 ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE SHALL BE REMOVED FROM THE SURFACES TO BE COVERED PRIOR TO PLACING THE INITIAL OR ANY SUCCEEDING LAYERS OF SHOTCRETE. REBOUND SHALL NOT BE REUSED AS AGGREGATE.

2.6.6 JOINTS IN WALL POURS ARE PERMISSIBLE. AT JOINTS, SHOTCRETE SHALL BE SLOPED TO A THIN EDGE. BEFORE PLACING ADDITIONAL MATERIAL, ALL SURFACES SHALL BE THOROUGHLY CLEANED AND WETTED AND ALL REINFORCING STEEL SHALL BE BRUSHED FREE OF LATENT SHOTCRETE MATERIAL.

2.6.7 ANY IN-PLACE SHOTCRETE MATERIAL WHICH EXHIBITS SAGS OR SLOUGHS, SEGREGATION, HONEYCOMBING, SAND POCKETS OR OTHER OBVIOUS DEFECTS SHALL BE REMOVED AND REPLACED.

2.6.8 TESTING AND INSPECTION OF IN-PLACE SHOTCRETE SHALL BE IN ACCORDANCE WITH 2003 IBC.

2.7 CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCHING AND SHALL NOT EXCEED A TEMPERATURE OF 90°F UNLESS PRE-APPROVED BY THE SKATE PARK DESIGNER.

2.8 CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED PER THE CODE BY AN INDEPENDENT TESTING LABORATORY FOR STRUCTURAL POURS OVER 50 CUBIC YARDS OF CONCRETE. HISTORICAL DATA SHALL BE SUBMITTED AND APPROVED PRIOR TO THE POUR IF NO TEST SAMPLES ARE TAKEN FOR POURS LESS THAN 50 CUBIC YARDS.

2.9 DURING THE CURING PERIOD, CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE ABOVE 40°F AND IN MOIST CONDITION. FOR INITIAL CURING, CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR 24 HOURS AFTER PLACEMENT IS COMPLETE. FINAL CURING SHALL CONTINUE FOR SEVEN DAYS AFTER PLACEMENT AND SHALL CONSIST OF APPLICATION OF CURING COMPOUND PER ASTM C309. APPLY AT A RATE SUFFICIENT TO RETAIN MOISTURE, BUT NOT LESS THAN 1 GALLON [4.55] PER 200 SQUARE FEET. COVER CONCRETE WITH POLYETHYLENE PLASTIC TO MAINTAIN TEMPERATURE IF NECESSARY. LAP SEAMS IN THE PLASTIC 6" AND TAPE, WEIGHT DOWN THE PLASTIC AS NEEDED.

2.10 THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 1/16".

2.11 ALL CONCRETE WHICH DURING THE LIFE OF THE STRUCTURE WILL BE SUBJECTED TO FREEZING TEMPERATURES WHILE WET, SHALL HAVE A WATER CEMENT RATIO NOT EXCEEDING 0.53 BY WEIGHT AND SHALL CONTAIN ENTRAINED AIR AS PER ACI 301. SUCH CONCRETE SHALL INCLUDE EXTERIOR SLABS, PERIMETER FOUNDATIONS, EXTERIOR CURBS AND GUTTERS, ETC.

2.12 CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 1906.

2.13 USE INTERMEDIATE GRADE ASTM A615, GRADE 60 FOR ALL REINFORCING. USE ASTM A706, GRADE 60 FOR ALL REINFORCING THAT IS TO BE WELDED. USE A108, GRADE 60, FOR ALL WELDED ANCHORS REFER TO AWS SPEC FOR WELDING WITHOUT PREHEAT. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH ALL BUILDING CODES.

2.14 OBSERVE FOLLOWING REINFORCEMENT CLEARANCES:
3" AT SURFACES POURED AGAINST EARTH
2" AT FORMED SURFACES EXPOSED TO EARTH OR WEATHER
1-1/2" AT OTHER SURFACES, EXCEPT WHERE SHOWN OTHERWISE.

2.15 SECURE REINFORCING, ANCHOR BOLTS, INSERTS, ETC. RIGIDLY IN PLACE PRIOR TO POURING CONCRETE.

2.16 SUPPORT HORIZONTAL REINFORCING ON GALVANIZED CHAIRS OR OTHER APPROVED METHOD (MORTAR BLOCKS ARE UNACCEPTABLE) OF SUPPORT FOR FOOTINGS AND SLABS ON GRADE.

2.17 REMOVE FORMS AT FOLLOWING MINIMUM TIMES AFTER POURING: AT SLAB EDGES - 24 HOURS; AT WALLS LESS THAN 4'-0" HIGH - 36 HOURS.

2.18 MAKE HOOKS ACI 318-99 STANDARD HOOKS UNLESS OTHERWISE NOTED. PROVIDE 135 DEGREE MINIMUM TURN, PLUS 4" EXTENSION AT FREE ENDS OF COLUMN PILASTER TIES.

2.19 MAKE LAPS CONTACT SPLICES, DEVELOPMENT LENGTHS, HOOK EMBEDMENT PER ACI 318-99, UNLESS OTHERWISE NOTED. STAGGER LAP SPLICES WHERE POSSIBLE.

2.20 ALL REBAR SHALL BE COLD BENT.

2.21 WHERE REINFORCING IS SHOWN CONTINUOUS THRU CONSTRUCTION JOINTS, LENTON FORM SAVERS DOWEL BAR SPLICE DEVICES AS MANUFACTURED BY ERICO PRODUCTS, INC. (ICBO #3967) OR EQUIVALENT MAY BE USED. SIZES AND TYPES SHALL BE SELECTED TO DEVELOP THE FULL TENSION STRENGTH OF THE BAR PER ICBO RESEARCH REPORT.

2.22 MINIMUM CLEARANCE BETWEEN PARALLEL REINFORCEMENT BARS SHALL BE 2-1/2". LAP SPLICES IN REINFORCING BARS SHALL BE BY THE NON-CONTRACT LAP SPLICE METHOD WITH AT LEAST 2" CLEARANCE BETWEEN BARS.

2.23 AGGREGATE BASE COURSE TO BE 4" OF COMPACTED 1" CRUSHED LIMESTONE AND SUBGRADE TO BE 95% COMPACTED NATIVE SOIL AND/OR ENGINEERED FILL. IF THESE GUIDELINES CONFLICT WITH THE GEO-TECHNICAL REPORT, THE CONTRACTOR TO FOLLOW THE MORE STRINGENT OF THE TWO GUIDELINES.

PLOT SCALE: -----

PLOT NAME: -----

REV. DATE: -----

ORIGINATOR: CITY_OF_MADISON_STREETS_DIVISION

SITE-GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ALL GRADES, LINES, AND MEASUREMENTS NECESSARY TO THE PROPER PERFORMANCE AND CONTROL OF THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING OR CUTTING AS NECESSARY TO ENSURE THAT ALL PORTIONS OF THE SITE DRAIN.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING GRADES AND SITE CONDITIONS BY FIELD INSPECTION BEFORE SUBMITTING A BID.
4. ALL OBJECTIONABLE MATERIALS DISCOVERED IN THE SOIL DURING THE GRADING PROCESS SHALL BE REMOVED FROM THE SITE BY CONTRACTOR.
5. ANY DAMAGE TO THE EXISTING STREET PAVING, CURBS OR OTHER EXISTING ELEMENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHOOTING ALL SPOT ELEVATIONS NECESSARY TO CONSTRUCT THE PROJECT.
7. CONTRACTOR SHALL DETERMINE THE AMOUNT OF CUT AND FILL NECESSARY TO COMPLETE THE EARTHWORK AS SHOWN ON THESE PLANS AND INCLUDE A FEE FOR COMPLETION OF THE EARTHWORK IN THE BASE BID.
8. SOIL SHALL NOT CONTAIN ROCKS 6" OR LARGER IN ANY DIMENSION. THE FINISH GRADE (TOP 6" OF DEPTH) SHALL NOT CONTAIN ANY ROCKS LARGER THAN ONE-HALF (1/2") IN DIAMETER.
9. HORIZONTAL CONTROL POINTS ARE FOR POSITIONING POINTS AND DIMENSION CLARIFICATION ONLY.
10. ALL COORDINATES SHOWN ARE LOCATED AT THE CONSTRUCTION JOINT FOR THE BOTTOM OF THE CONCRETE SKATE PARK AND AT THE RIM FOR TOP OF PARK. ALL OTHER COORDINATES ARE ASSUMED EDGE OF FEATURE.
11. TREES SHALL NOT BE REMOVED WITHOUT THE SPECIFIC CONSENT OF THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING TREES REMOVED WITHOUT RECEIVING PROPER APPROVAL.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF TREE'S, SHRUBS AND OTHER PLANT MATERIAL WITHIN THE LIMITS OF THE WORK TO REMAIN. ANY PLANTING MATERIAL DAMAGED TO AND FROM PROJECT SITE PATH WILL BE AT THE EXPENSE OF CONTRACTOR WITH "AS-EQUAL" MATERIAL APPROVED BY CITY.
13. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND PAYING ALL PERMITS AND INSPECTIONS FROM ALL JURISDICTIONAL AGENCIES AND CORPORATIONS. THE CONTRACTOR WILL BE REQUIRED TO PAY ALL PERMIT FEE'S FOR THE CITY UNLESS OTHERWISE NOTED.
14. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, DRAIN PIPES, DRAINAGE DITCHES, DRIVEWAYS, LANDSCAPING, EXISTING GRADE ELEVATIONS.
15. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF ALL IRRIGATION SLEEVES UNDER CONCRETE PAVING AS INDICATED ON THE PLANS. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR REGARDING PLACEMENT OF INDICATED SLEEVES AND/ OR ADDITIONAL SLEEVES.
16. ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION.
17. DISCREPANCIES IF ANY, SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT BEFORE WORK COMMENCES.
18. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES (FEDERAL, STATE, LOCAL, AND HEALTH DEPARTMENTS), EXCEPT WHERE REQUIREMENTS OF CONTRACT DOCUMENTS ARE MOST STRINGENT.
19. NO DESIGN MODIFICATIONS SHALL BE MADE WITHOUT THE OWNER'S AND/ OR LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT'S APPROVAL.

SITE- GRADING & DRAINAGE NOTES

1. FINAL HEIGHT AND SHAPE OF EXCAVATION TO BE VERIFIED BY LANDSCAPE ARCHITECT/ SKATE PARK DESIGNER IN THE FIELD.
2. ALL SPOT ELEVATIONS ARE FOR TOP OF FINISH WORK UNLESS OTHERWISE NOTED.
3. MINIMUM SLOPE FOR ALL CONCRETE FINISH WORK SHALL BE 1%. WATER MUST DRAIN TOWARDS DIRECTION OF FLOW ARROWS AND FOLLOW OVERALL DESIGN INTENT.
4. ALL AREAS DISTURBED BY GRADING OPERATIONS TO BE FINE GRADED.
5. VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK.
6. REFER TO SECTIONS AND PROFILES ON SHEETS: SP-4.1 THROUGH SP-5.7 FOR HEIGHT, RADII AND PROFILES.
7. ALL FINE GRADING OF EARTHWORK SHALL BE INSPECTED WITH TEMPLATES CUT TO THE SPECIFIED RADII/ ANGLE. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL TEMPLATES/ SCREEDS TO BE USED FOR EARTHWORK TOLERANCES FOR APPROVAL BY LANDSCAPE ARCHITECT/ SKATE PARK DESIGNER.
8. CONTRACTOR TO PROTECT ALL EXCAVATIONS FROM SOIL EROSION AND WATER SATURATION AT ALL TIMES USING APPROPRIATE CONSTRUCTION METHODS. AND LOSS OF SOIL PROFILE DURING CONSTRUCTION SHALL BE REPLACED WITH APPROPRIATE SOIL COMPOSITION AND COMPACTION METHODS TO MATCH LOSS SOIL.

SITE- SURVEY NOTES

1. LOCATE ALL SURVEY MARKS INCLUDING BENCH MARKS AND PROPERTY LINES IN ORDER THAT THE EXACT LINES OF CONSTRUCTION LIMITS AND GRADES MAY BE DETERMINED. BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY BEFORE PROCEEDING WITH WORK.
2. VERIFY ENTIRE LAYOUT PRIOR TO START OF CONSTRUCTION WITH PROJECT OWNER'S REPRESENTATIVES AND LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT.
3. LOCATE AND PROTECT CONTROL POINTS PRIOR TO STARTING SITE WORK AND PROTECT ALL PERMANENT REFERENCE POINTS DURING ENTIRE CONSTRUCTION. REPLACE PROJECT CONTROL POINTS WHICH MAY BE LOST OR DESTROYED DURING CONSTRUCTION.

SITE- EXISTING CONDITIONS & DEMOLITION NOTES

1. ALL MATERIAL "TO REMAIN" SHALL BE PROTECTED DURING CONSTRUCTION.
2. ALL MATERIALS "TO BE REMOVED" SHALL BE TAKEN FROM THE SITE AND DISPOSED OF PROPERLY.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE JOB SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT COULD AFFECT THE INSTALLATION OF ANY WORK SET FORTH IN THESE PLANS PRIOR TO SUBMITTING A BID.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ANY UTILITIES THAT MAY BE NEEDED OR AVOIDED IN THE DEMOLITION PHASE IN ADVANCE OF ANY CONSTRUCTION. THE CITY AND STANTEC DOES NOT GUARANTEE ANY LOCATIONS REFERENCED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOILS AND COMPACTION TESTING DURING THE COURSE OF CONSTRUCTION TILL FINAL ACCEPTANCE.
6. THE CONTRACTOR SHALL CONTACT ALL UTILITY ENTITIES AND OWNER FOR EXISTING LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY.
7. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION PER CITY REQUIREMENTS.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY PRIOR TO CONSTRUCTION.
9. EXISTING LANDSCAPE AND/ OR IRRIGATION SYSTEM DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CITY.

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Boston, MA 02114
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PLOT SCALE: -----

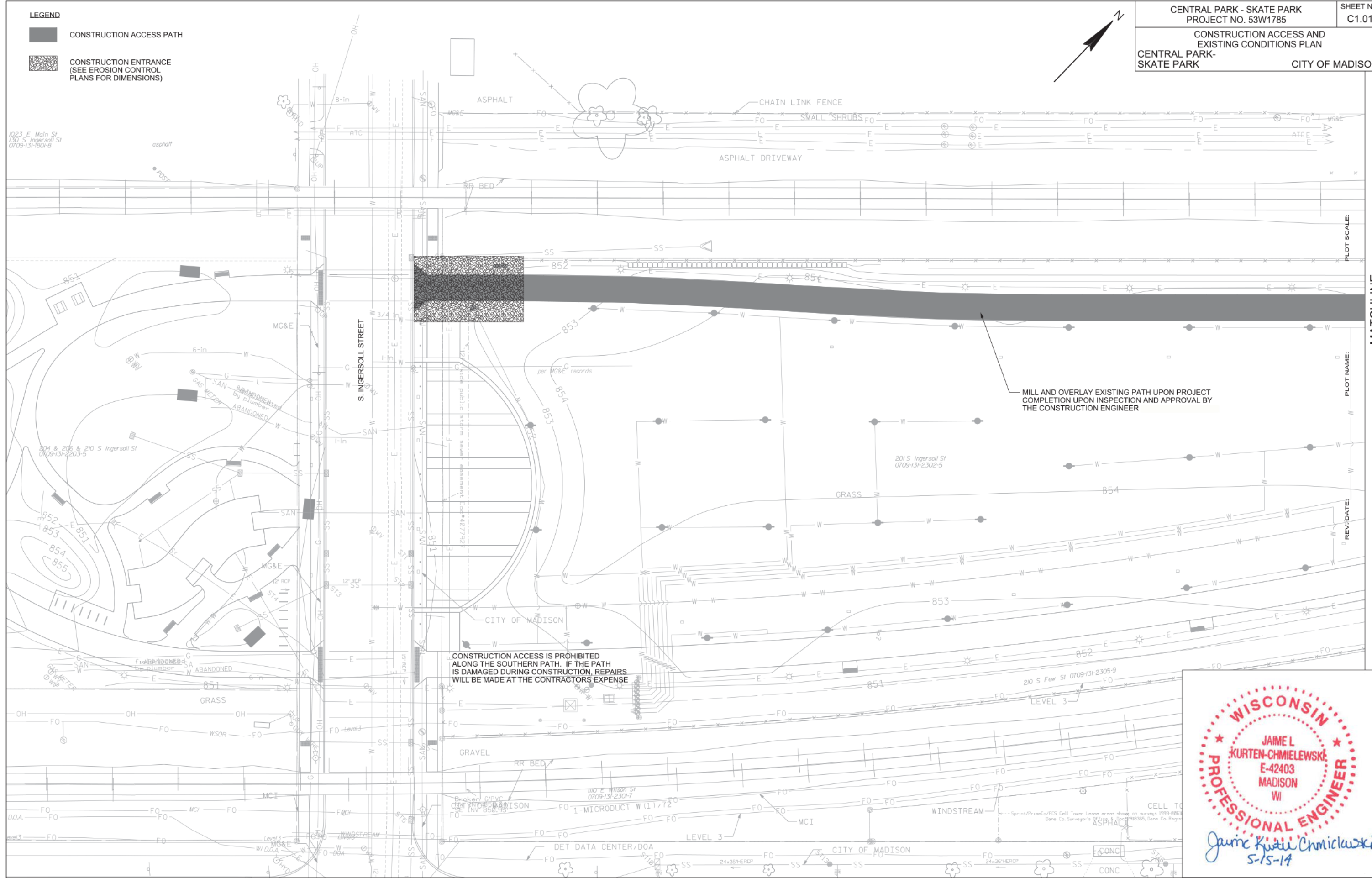
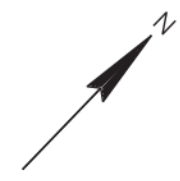
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REV. DATE: -----

LEGEND

CONSTRUCTION ACCESS PATH

CONSTRUCTION ENTRANCE
(SEE EROSION CONTROL
PLANS FOR DIMENSIONS)



PLOT SCALE:

PLOT NAME:

REV: DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



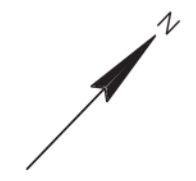
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CONSTRUCTION ACCESS PATH

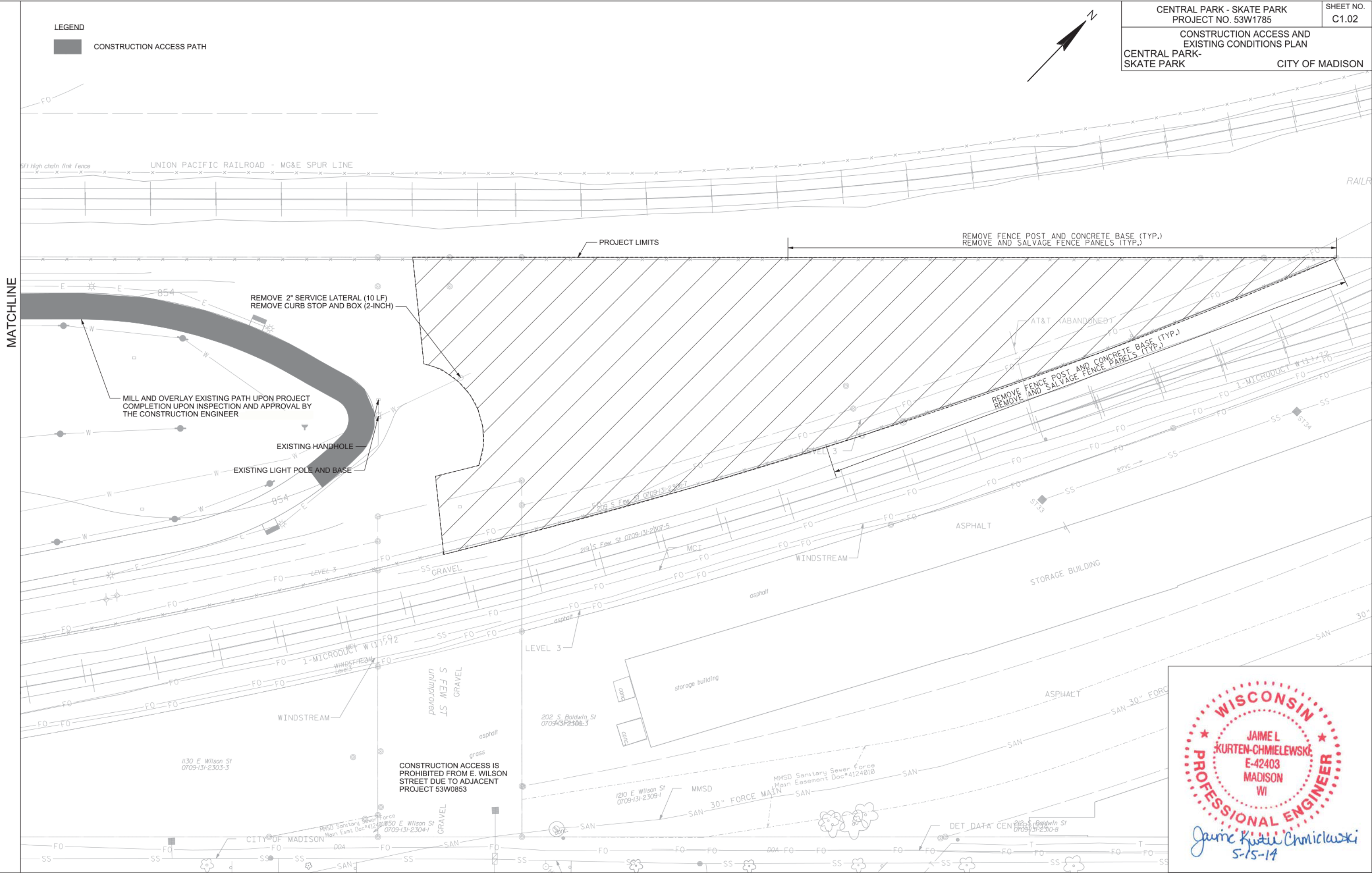
CENTRAL PARK - SKATE PARK
PROJECT NO. 53W1785

SHEET NO.
C1.02

CONSTRUCTION ACCESS AND
EXISTING CONDITIONS PLAN
CENTRAL PARK-
SKATE PARK CITY OF MADISON



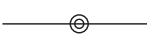



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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

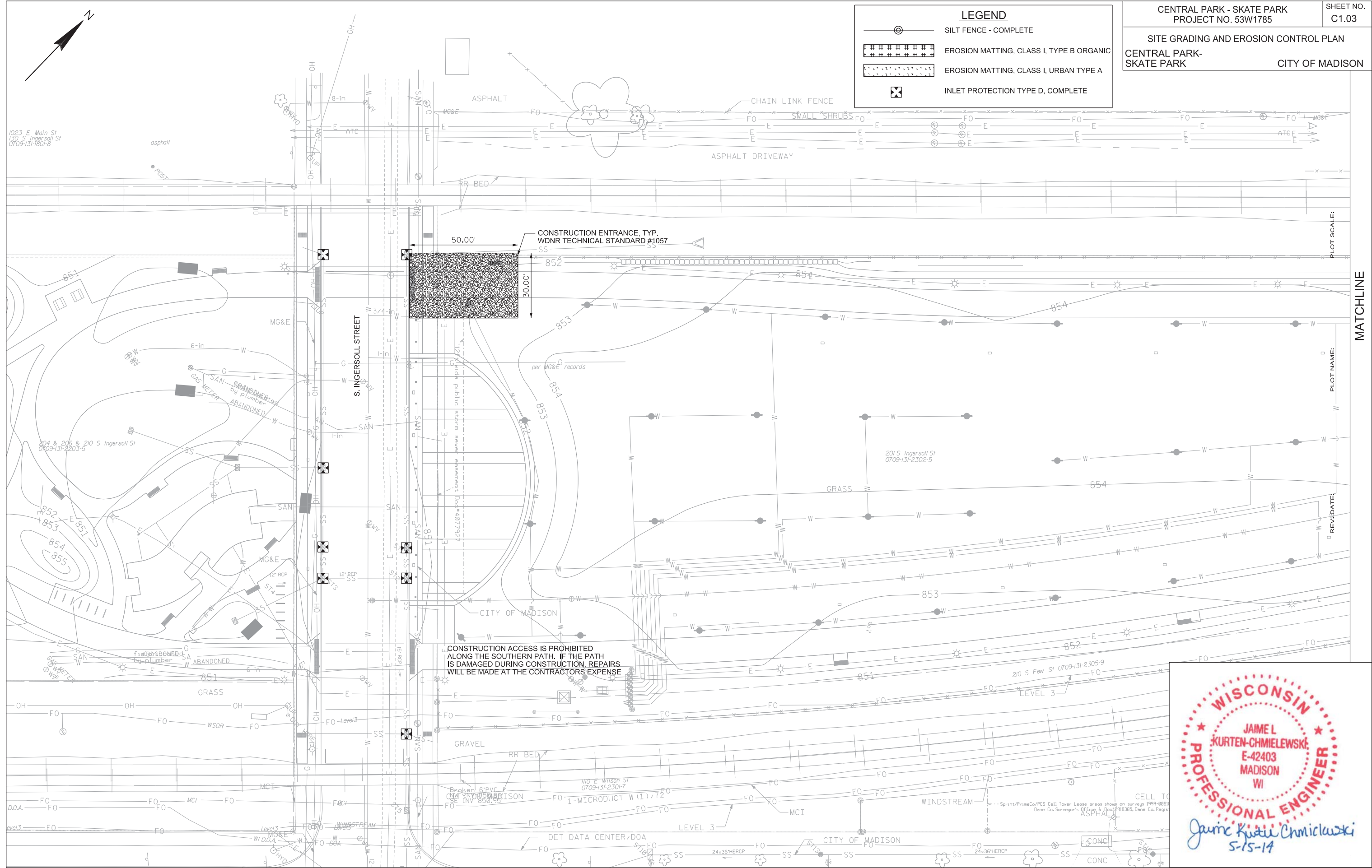


WISCONSIN
 JAMEL
 KURTEN-CHMIELEWSKI
 E-42403
 MADISON
 WI
PROFESSIONAL ENGINEER

Jamel Kurten Chmielewski
 5-15-14

LEGEND

-  SILT FENCE - COMPLETE
-  EROSION MATTING, CLASS I, TYPE B ORGANIC
-  EROSION MATTING, CLASS I, URBAN TYPE A
-  INLET PROTECTION TYPE D, COMPLETE



CONSTRUCTION ACCESS IS PROHIBITED
ALONG THE SOUTHERN PATH. IF THE PATH
IS DAMAGED DURING CONSTRUCTION, REPAIRS
WILL BE MADE AT THE CONTRACTORS EXPENSE

WISCONSIN

JAME L
KURTEN-CHMIELEWSKI
E-42403
MADISON
WI

PROFESSIONAL ENGINEER

Jame Kurten Chmielewski
5-15-14

PLOT SCALE:

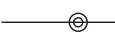
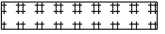
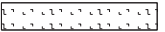

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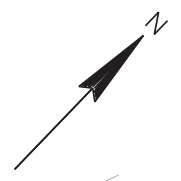
REV/DATE:

MATCHLINE

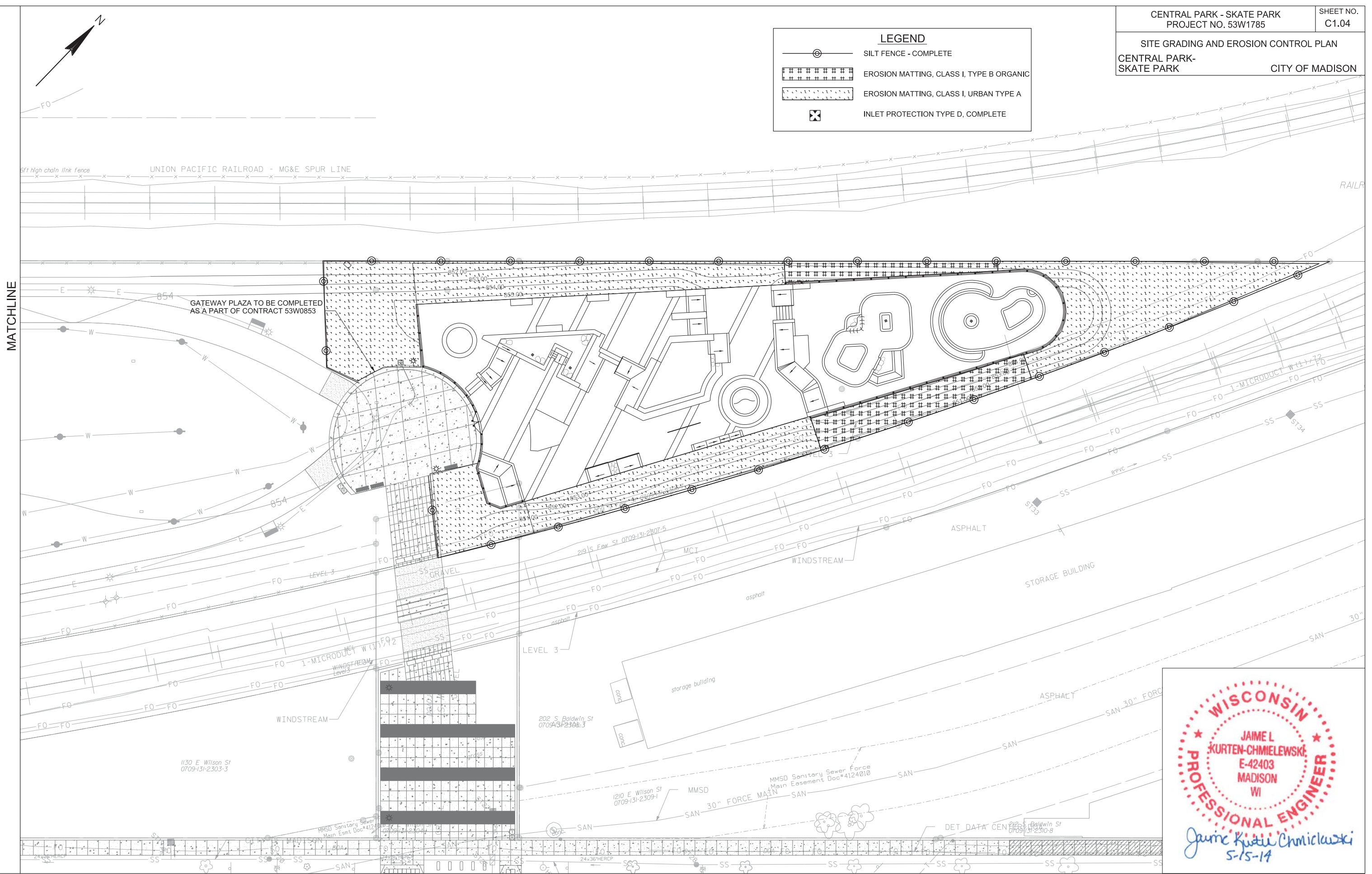
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

LEGEND

-  SILT FENCE - COMPLETE
-  EROSION MATTING, CLASS I, TYPE B ORGANIC
-  EROSION MATTING, CLASS I, URBAN TYPE A
-  INLET PROTECTION TYPE D, COMPLETE



PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

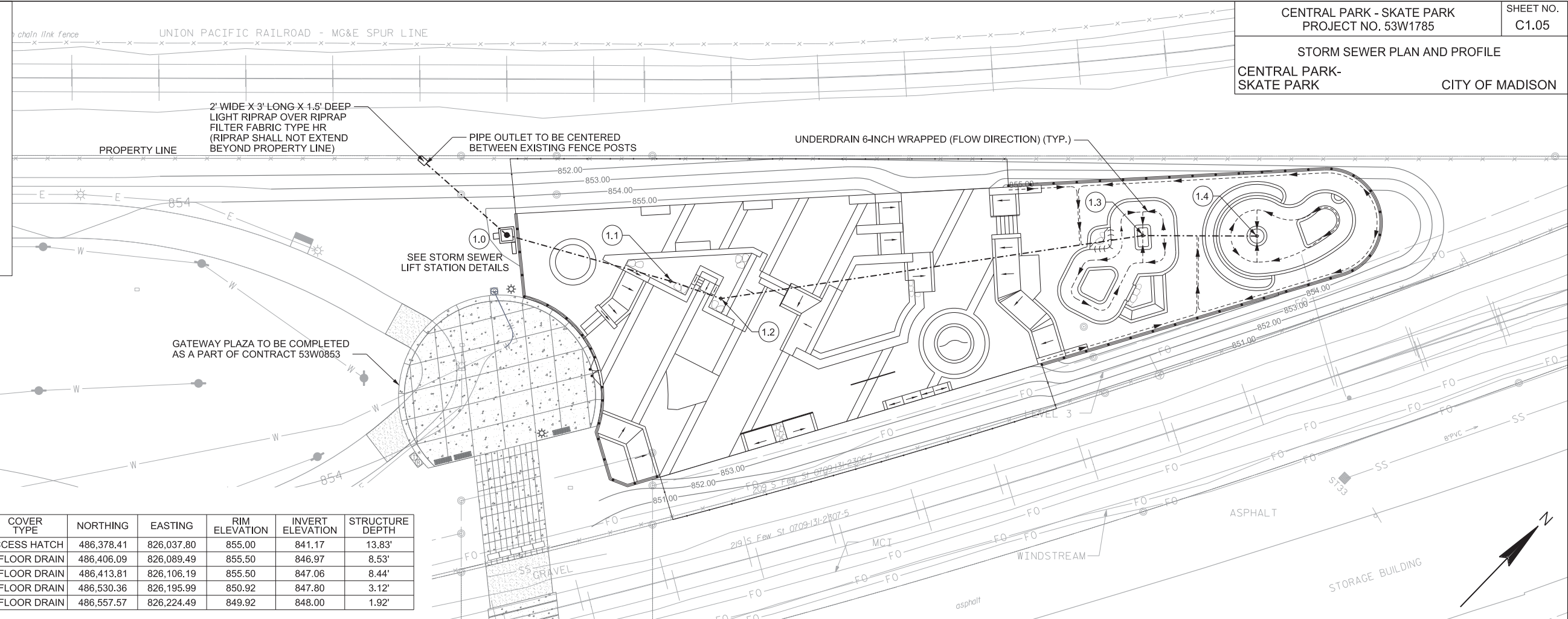


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★ JAMEL KURTEN-CHMIELEWSKI ★
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WI
PROFESSIONAL ENGINEER

Jameł Kurten Chmielewski
5-15-14



Jaime Kurten-Chmielewski
5-15-14



STORM SEWER INFORMATION TABLE

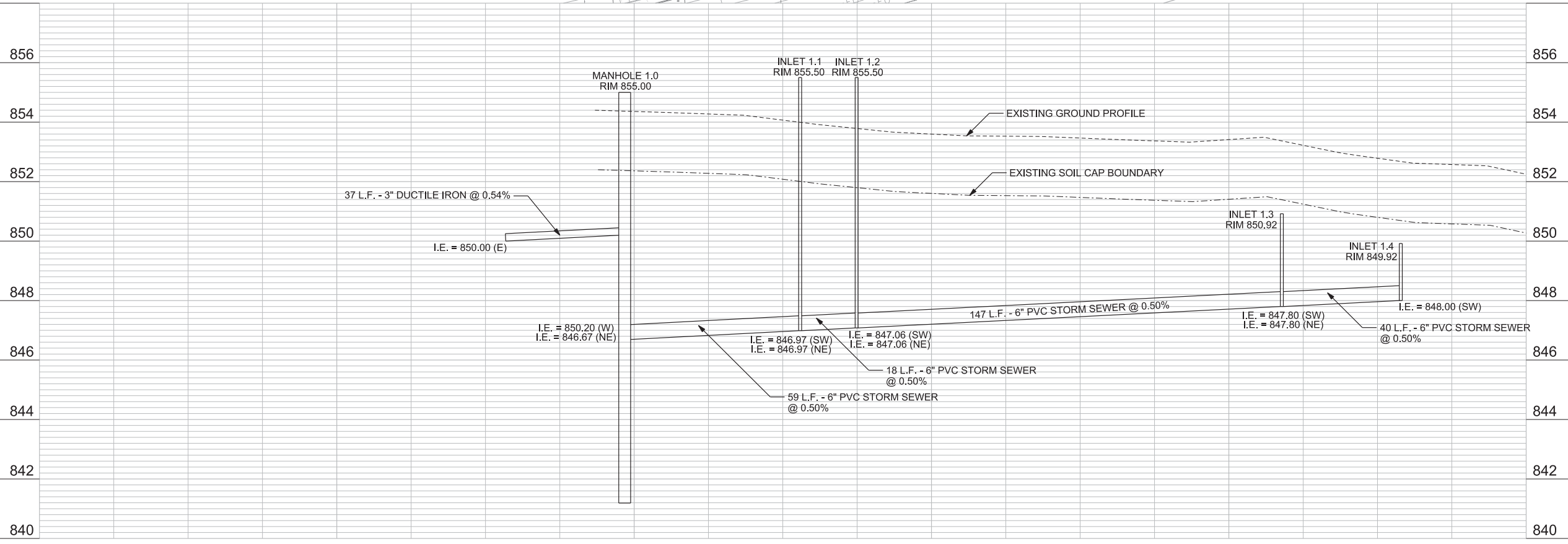
STRUCTURE NO.	STRUCTURE TYPE	COVER TYPE	NORTHING	EASTING	RIM ELEVATION	INVERT ELEVATION	STRUCTURE DEPTH
1.0	4'x4' LIFT STATION	ACCESS HATCH	486,378.41	826,037.80	855.00	841.17	13.83'
1.1	6" DRAIN	8" FLOOR DRAIN	486,406.09	826,089.49	855.50	846.97	8.53'
1.2	6" DRAIN	8" FLOOR DRAIN	486,413.81	826,106.19	855.50	847.06	8.44'
1.3	6" DRAIN	8" FLOOR DRAIN	486,530.36	826,195.99	850.92	847.80	3.12'
1.4	6" DRAIN	8" FLOOR DRAIN	486,557.57	826,224.49	849.92	848.00	1.92'

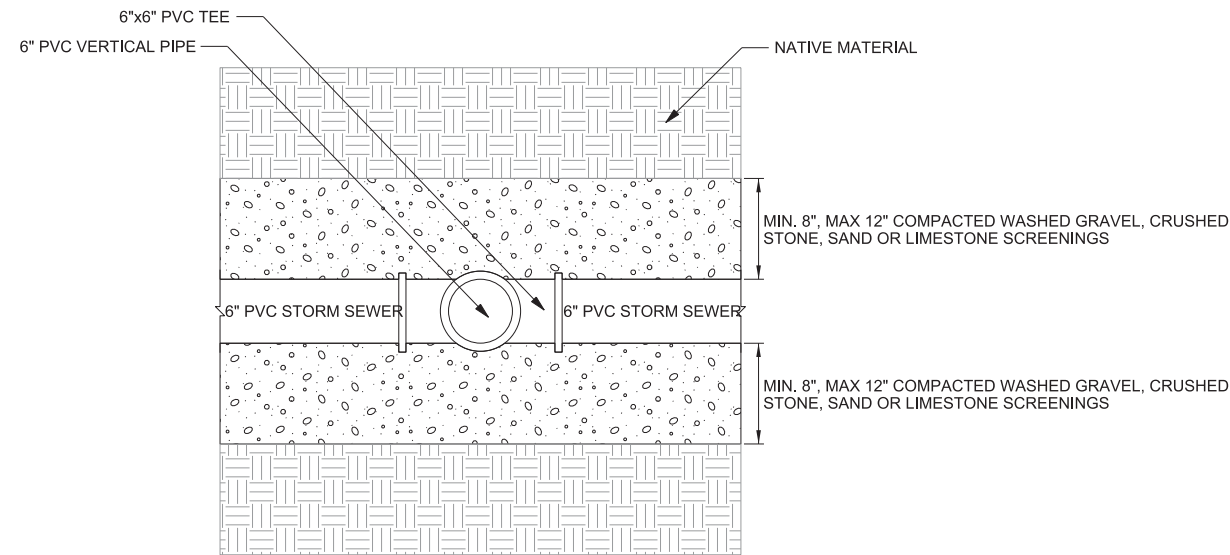
PLOT SCALE:

PLOT NAME:

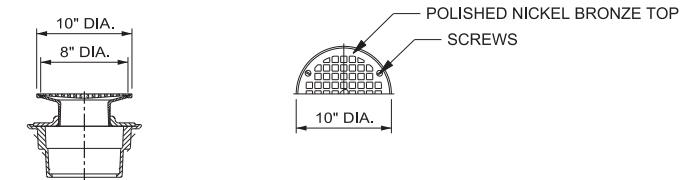
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

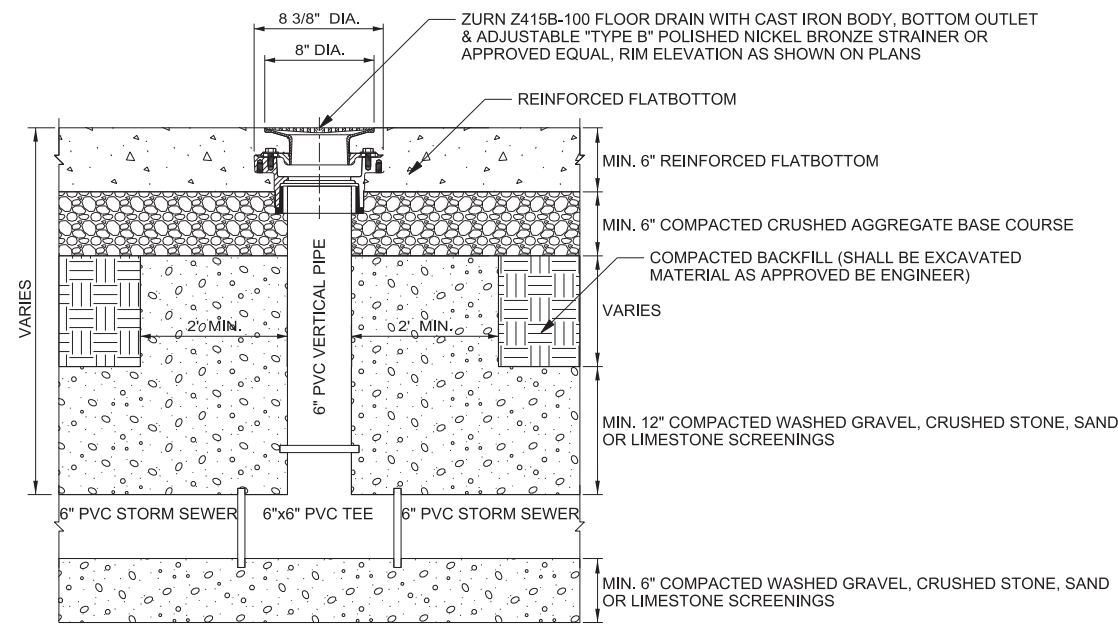




PLAN VIEW

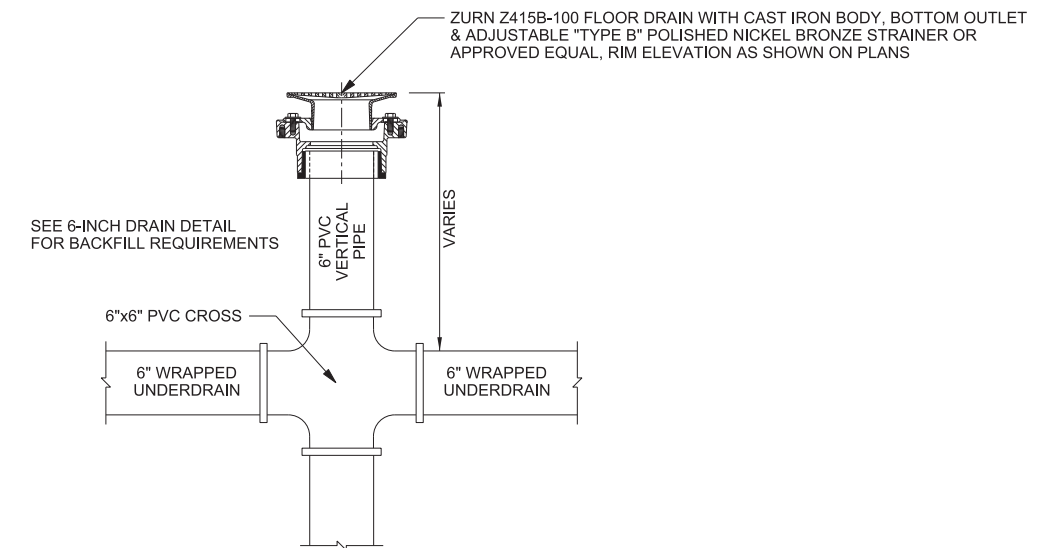


10" ROUND STRAINER DETAIL
SCALE: NONE



PROFILE VIEW

6-INCH DRAIN DETAIL
SCALE: NONE



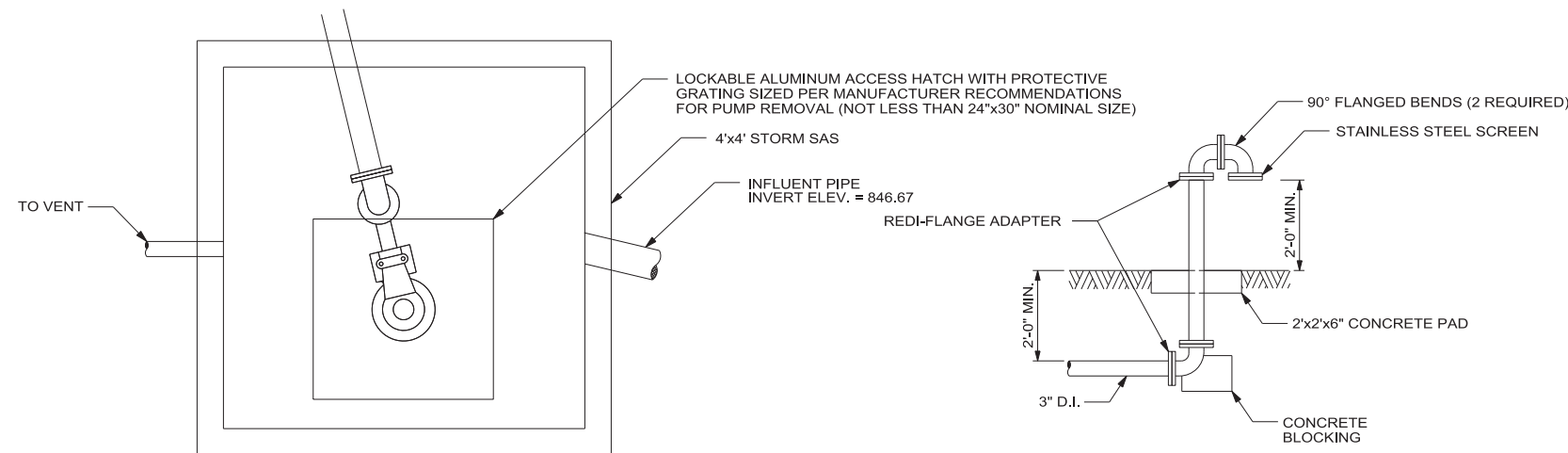
UNDERDRAIN CONNECTION TO 6-INCH CATCH BASIN DETAIL
SCALE: NONE

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

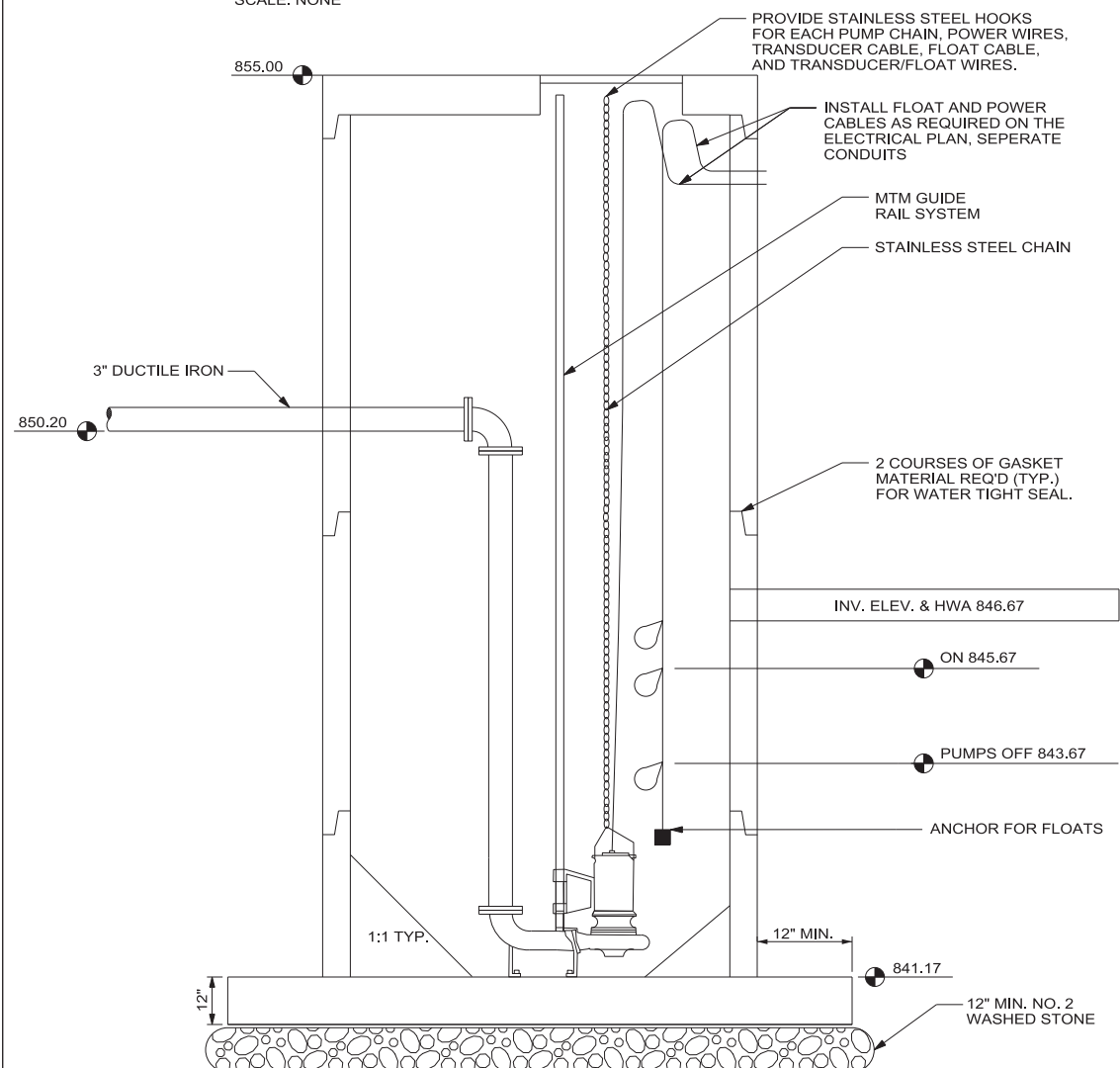


VENT DETAIL

GENERAL SUMP PUMP SYSTEM CONTROL PANEL EQUIPMENT SCHEDULE

STORM SEWER LIFT STATION PLAN VIEW

SCALE: NONE



STORM SEWER LIFT STATION SECTION VIEW

SCALE: NONE

ITEM NO.	DESCRIPTION	APPROVED MANUFACTURER
1	Main Circuit Breaker A thermal magnetic device sized to accommodate the amperage draw of the pumps and all options to protect against high fault current. Shutting off the main circuit breaker cuts all power to the panel.	PENTAIR HYDROMATIC OR APPROVED EQUAL
2	Swing Dead Front Panel This added safety option is constructed in four sizes corresponding to standard Hydromatic Panel sizes. Through-the-door main disconnect switch to lock the dead front closed when the switch is in the "on" position is provided.	PENTAIR HYDROMATIC OR APPROVED EQUAL
3	Lightning Suppressor Metal oxide within the casing of this compact device conducts transient high voltage surges of 500 volts or more to ground, aiding in longer motor life.	PENTAIR HYDROMATIC OR APPROVED EQUAL
4	Elapsed Time Meters One meter for each pump records in hours the cumulative amount of time each pump has run in simplex or duplex panels. A single meter for recording the time both pumps have run simultaneously is available for duplex panels only. Either type of meter is non-resettable, maximum 9999.9 hours.	PENTAIR HYDROMATIC OR APPROVED EQUAL
5	Pump Failure If contactor fails to pull in within a preset delay period after pump is called for, a relay is energized to signal an operative motor starter. Relay contacts are used as input to a telemetry device and/or to an alarm indicator board.	PENTAIR HYDROMATIC OR APPROVED EQUAL

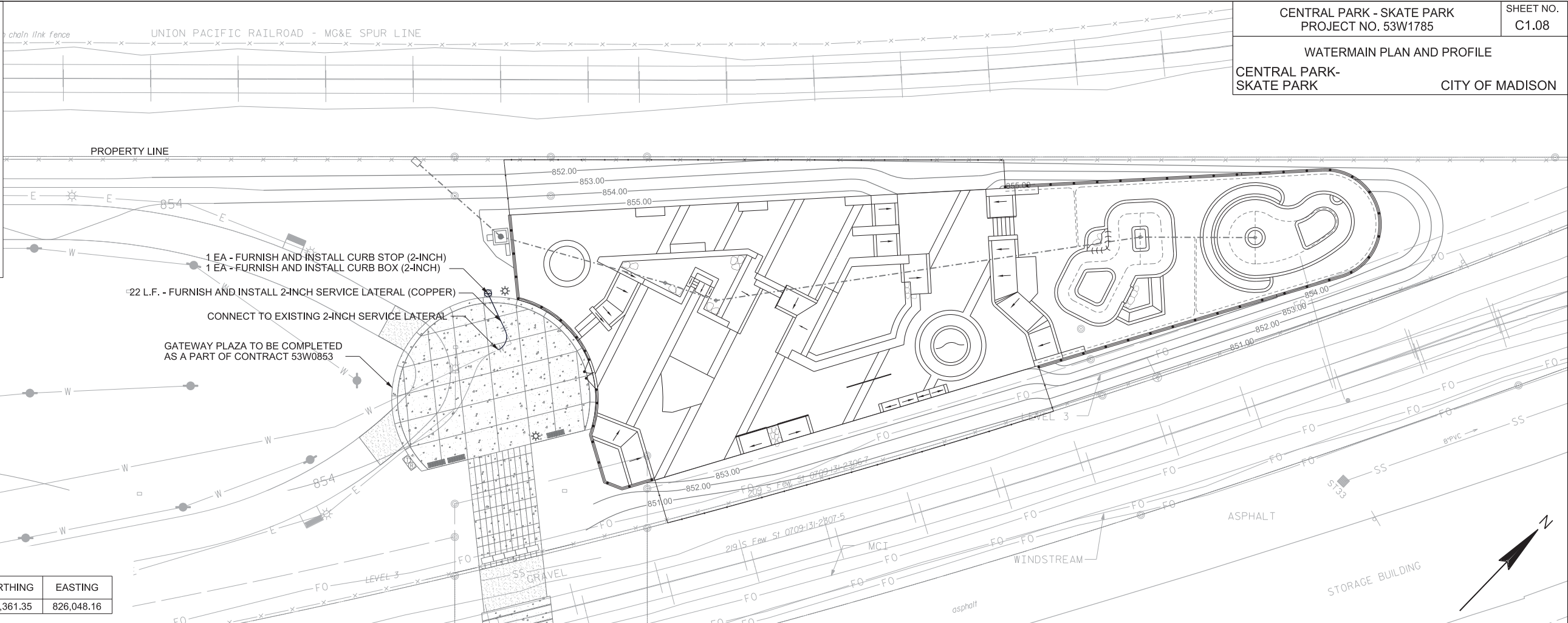
ITEM NO.	DESCRIPTION	APPROVED MANUFACTURER
6	High Water Telemetry and High Water Alarm An additional float located above the highest pump-on float signals a relay to energize when a high water condition exists. Relay contacts are used for input to telemetry only, input to an alarm indicator board only, or both options may be specified together. Intrinsically safe circuit extensions are available.	PENTAIR HYDROMATIC OR APPROVED EQUAL
7	Seal Failure Relay energizes a red light on the side of the control panel when foreign liquid passes through the lower seal area of the pump, indicating the pump seal has failed - valuable protection for motors in double sealed Hydromatic pumps. Contacts of the relay are used as input to a telemetry device and/or to an alarm indicator board.	PENTAIR HYDROMATIC OR APPROVED EQUAL
8	Pump Run Each time a contactor is energized, a relay is activated, enabling remote monitoring of motor starter operation. The relay can be used as input to a telemetry device.	PENTAIR HYDROMATIC OR APPROVED EQUAL
9	Convenience Outlet Duplex receptacle with ground fault interrupter, circuit breaker, and transformer (if required, mounted separately). A transformer is not required when 120 volts is available to the panel, but would be required for 230V or 460V three-phase panels. The convenience outlet may be used for purposes of repair and maintenance.	PENTAIR HYDROMATIC OR APPROVED EQUAL
10	Cellular Alarm Monitor and Web Based Photo System	OMNISITE VIPER OR APPROVED EQUAL

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



WATERMAIN INFORMATION TABLE

DESCRIPTION	NORTHING	EASTING
CURB STOP & CURB BOX	486,361.35	826,048.16

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

856		856
854		854
852		852
850		850
848	EXISTING 2-INCH SERVICE LATERAL	848
846		846
844		844
842		842
840		840

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REFERENCE SCALE IN INCHES
0 1 2 3

LUMINAIRE SCHEDULE

(MTG) MOUNTING: RE - RECESSED SP - SUSPENDED CL - CEILING SURFACE WL - WALL UC - UNDER CABINET CV - COVE PL - POLE FR - FLANGED RECESSED O - OTHER (SEE DESCRIPTION)	(Type) LAMP TECHNOLOGY: FL - FLUORESCENT CF - COMPACT FLUORESCENT HL - HALOGEN IN - INCANDESCENT LED - LIGHT EMITTING DIODE HS - HIGH PRESSURE SODIUM MH - METAL HALIDE SMH - SUPER METAL HALIDE PSMH - PULSE START METAL HALIDE CMH - CERAMIC METAL HALIDE O - OTHER (SEE DESCRIPTION) XL - EXTENDED LIFE XLP - EXTENDED LIFE & OUTPUT	(L/L) LENS/OULVER: A - .125" ACRYLIC B - BLACK BAFFLE C - CLEAR ALZAK D - PARABOLIC F - FRESNEL G - TEMPERED GLASS H - WALL WASHER P - POLY CARBONATE K - KSH12, .125" ACRYLIC K19 - KSH19, .156" ACRYLIC L - LOW IRIDESCENT SPECULAR ALUM. N - NONE R - HIGH IMPACT DR ACRYLIC O - OTHER (SEE DESCRIPTION)
--	---	--

FINISH: PAF - PAINT AFTER FABRICATION CSA - FINISH SELECTION BY ARCHITECT	(TYPE) BALLAST: DIM07- LINE DIMMING BALLAST DIM10- 0-10V DIMMING BALLAST HL- HIGH / LOW LEVEL BALLAST ML- MULTI-LEVEL SWITCHING HP- HIGH PERFORMANCE / LBF	(TYPE) BALLAST: EB- ELECTRONIC BALLAST EM- EMERGENCY BATTERY/BALLAST DALI- DIGITAL DIMMING BALLAST MV- MULTI-VOLTAGE ELECTRONIC 120V-277V #BF- BALLAST FACTOR
--	--	---

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

ITEM	DESCRIPTION	DIMENSIONS				MTG	TYPE	QTY	MODEL	VOLTS	TYPE	L/L	APPROVED MANUFACTURER
		L	W	H	DIA								
S1	SITE SPORTS LIGHTING POLE TOP LUMINAIRE, 4 FIXTURES MOUNTED TO CROSSARM, 50" STEEL POLE, BLACK POWDERCOAT FINISH ON POLE AND ARM.					PL @ 50"	MH	4	1000W MZ	208	0.9BF	O	MUSCO LIGHT STRUCTURE GREEN
S2	SITE SPORTS LIGHTING POLE TOP LUMINAIRE, 3 FIXTURES MOUNTED TO CROSSARM, 50" STEEL POLE, BLACK POWDERCOAT FINISH ON POLE AND ARM.					PL @ 50"	MH	3	1000W MZ	208	0.9BF	O	MUSCO LIGHT STRUCTURE GREEN
S3	SITE SPORTS LIGHTING POLE TOP LUMINAIRE, 2 FIXTURES MOUNTED TO CROSSARM, 50" STEEL POLE, BLACK POWDERCOAT FINISH ON POLE AND ARM.					PL @ 50"	MH	2	1000W MZ	208	0.9BF	O	MUSCO LIGHT STRUCTURE GREEN

GENERAL ELECTRICAL NOTES:

- "1/E100" INDICATES DETAIL NUMBER/SHEET NUMBER.
- ### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
- Ⓞ INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.
- ALL ELECTRICAL CONDUCTORS SHALL BE COPPER.
- INDICATES NUMBER OF WIRES IN CONDUIT.
GROUND WIRE
NEUTRAL WIRE
PHASE WIRE
- ABBREVIATION KEY:
E.C. ELECTRICAL CONTRACTOR
T.C. TELECOMMUNICATIONS CONTRACTOR
M.C. MECHANICAL CONTRACTOR
G.C. GENERAL CONTRACTOR
C. CONDUIT
TYP TYPICAL
+F MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE
- LINE TYPE KEY:
NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)

ELECTRICAL INSTALLATION NOTES:

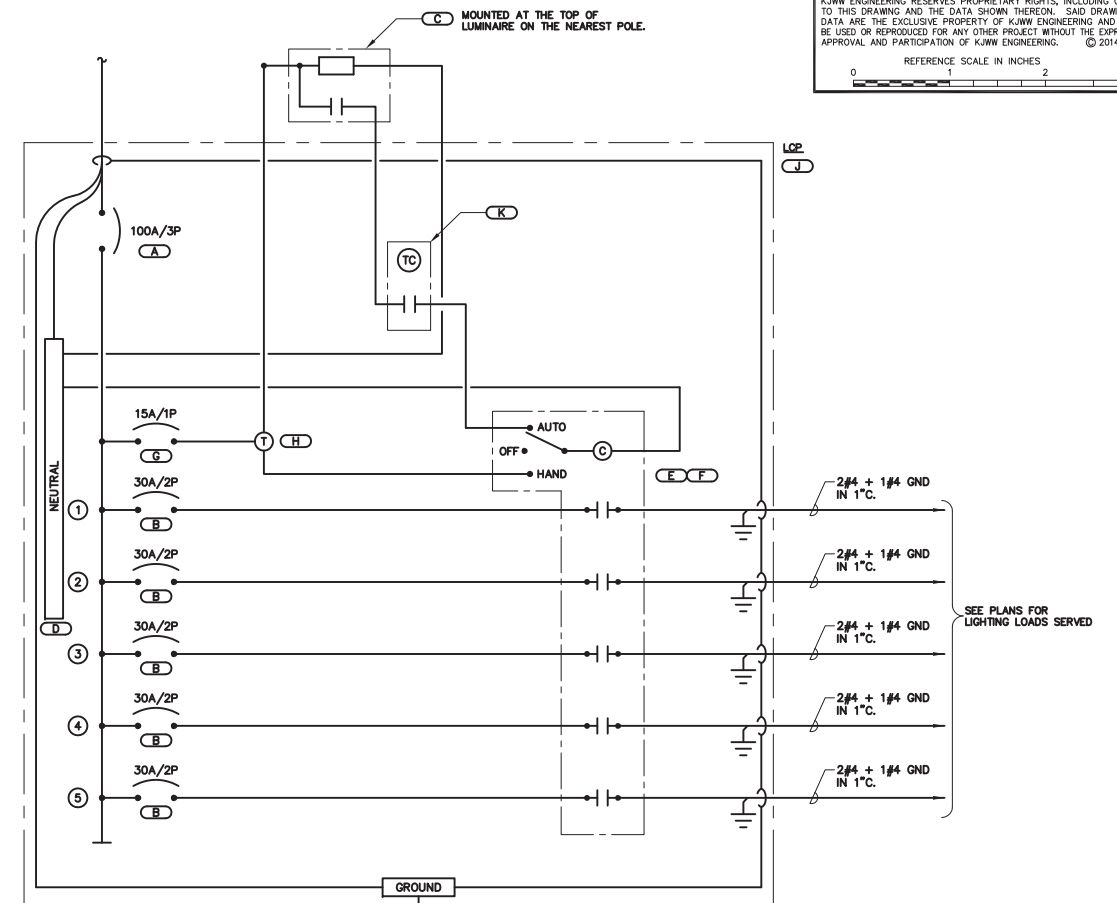
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS WITH PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE EQUIPMENT.
- ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE MOUNTING IN ADVANCE BY THE OTHER CONTRACTOR.
- ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTINGS WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS.
- ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.

GENERAL ELECTRICAL EQUIPMENT SCHEDULE

THE SYMBOLS AND THE EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

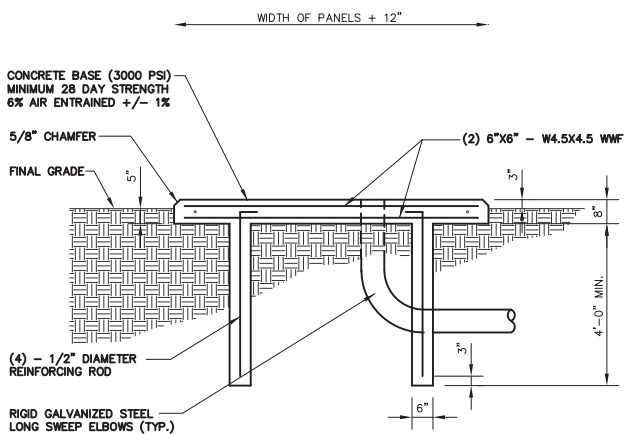
CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

ITEM NO.	SYMBOL	DESCRIPTION	APPROVED MANUFACTURERS
1	Ⓞ	ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZE PER N.E.C. COORDINATE REQUIREMENTS WITH CONTRACTOR FURNISHING EQUIPMENT OR MOTOR. REFER TO SPECIFICATIONS AND GENERAL INSTALLATION NOTES FOR TERMINATIONS TO MOTORS.	REFER TO SPECIFICATIONS
2	###	HANDHOLE, COMPOSITE POLYMER CONCRETE BODY AND COVER. STAINLESS STEEL HARDWARE. BOLTED NON-SKID COVER RATED FOR 10,000 LB. DESIGN LOAD OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC. STACK UNITS TO ACHIEVE DEPTH SHOWN ON PLANS. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. 11"W, 18"L, 18"D OR DIMENSIONS AS NEEDED.	HUBBELL/QUAZITE PG BB18 PG HAOO CARSON INDUSTRIES H SERIES ARMORCAST HIGHLINE PRODUCTS SYNERTECH
3	LCP	LIGHTING CONTROL PANEL, CUSTOM NEMA 3R OR 4X ENCLOSURE WITH LOAD CENTER, LIGHTING CONTRACTOR, PHOTO CELL, AND TIME CLOCK. REFER TO SITE LIGHTING CONTROL DIAGRAM ON THIS SHEET.	SEE DETAIL 1 ON THIS SHEET



1 SITE LIGHTING CONTROL DIAGRAM

- NO SCALE
- (A) 100A MAIN BREAKER 240V/3P CUTLER-HAMMER #QC3100
 - (B) 30A BRANCH BREAKER 240V/2P CUTLER-HAMMER #QC2030
VERIFY BREAKER AND FEEDER SIZE WITH LIGHTING MANUFACTURER
 - (C) 120V PHOTOCELL CONTROLLER
 - (D) GB101 NEUTRAL BUS
 - (E) CONTACTOR 50A MSD
 - (F) MILBANK SOCKET AP2300
 - (G) 15A BRANCH BREAKER 120V/1P CUTLER-HAMMER #QC1015
 - (H) USD NDN3 TERMINAL BLOCK
 - (J) HOFFMAN ENCLOSURE, NEMA 3R OR 4X, STAINLESS STEEL, SIZED PER EQUIPMENT
 - (K) 7 DAY ELECTRONIC PROGRAMMABLE TIME SWITCH PARAGON EC71/305



2 PAD DETAIL

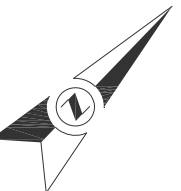
- NO SCALE
- NOTES:
1. VERIFY FINAL REQUIREMENTS WITH LIGHTING PANEL AND SUMP PUMP PANEL PRIOR TO INSTALLATION.

PLOT SCALE:

PLOT NAME:

REV. DATE:

KJWW#14.0167.00 MADISON SKATE PARK



SITE PLAN - ELECTRICAL

CENTRAL PARK-
SKATE PARK

CITY OF MADISON

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REFERENCE SCALE IN INCHES
0 1 2 3

GENERAL SHEET NOTES

1. REFER TO E000 FOR NOTES AND SCHEDULES.

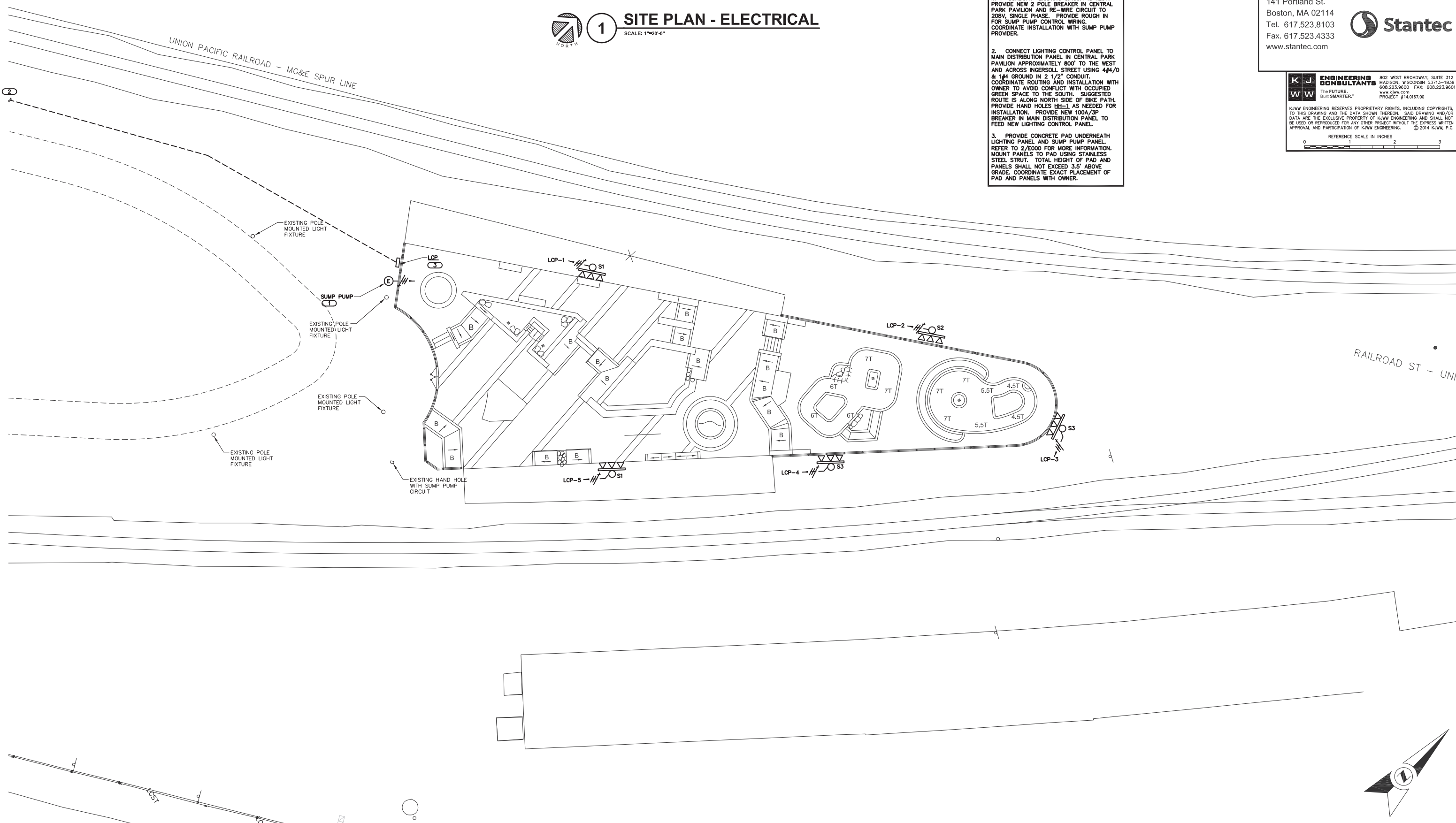
KEYNOTES

1. CONNECT SUMP PUMP AND ASSOCIATED CONTROLS TO EXISTING CIRCUIT IN HAND HOLE TO THE SOUTH USING 2#4 AND 1#8 GROUND IN 1" CONDUIT. EXISTING CIRCUIT IS 120V. PROVIDE NEW 2 POLE BREAKER IN CENTRAL PARK PAVILION AND RE-WIRE CIRCUIT TO 208V, SINGLE PHASE. PROVIDE ROUGH IN FOR SUMP PUMP CONTROL WIRING. COORDINATE INSTALLATION WITH SUMP PUMP PROVIDER.

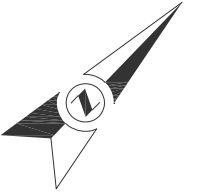
2. CONNECT LIGHTING CONTROL PANEL TO MAIN DISTRIBUTION PANEL IN CENTRAL PARK PAVILION APPROXIMATELY 800' TO THE WEST AND ACROSS INGERSOLL STREET USING 4#4/0 & 1#4 GROUND IN 2 1/2" CONDUIT. COORDINATE ROUTING AND INSTALLATION WITH OWNER TO AVOID CONFLICT WITH OCCUPIED GREEN SPACE TO THE SOUTH. SUGGESTED ROUTE IS ALONG NORTH SIDE OF BIKE PATH. PROVIDE HAND HOLES HH-1 AS NEEDED FOR INSTALLATION. PROVIDE NEW 100A/3P BREAKER IN MAIN DISTRIBUTION PANEL TO FEED NEW LIGHTING CONTROL PANEL.

3. PROVIDE CONCRETE PAD UNDERNEATH LIGHTING PANEL AND SUMP PUMP PANEL. REFER TO 2/E000 FOR MORE INFORMATION. MOUNT PANELS TO PAD USING STAINLESS STEEL STRUT. TOTAL HEIGHT OF PAD AND PANELS SHALL NOT EXCEED 3.5' ABOVE GRADE. COORDINATE EXACT PLACEMENT OF PAD AND PANELS WITH OWNER.

1 **SITE PLAN - ELECTRICAL**
SCALE: 1"=20'-0"



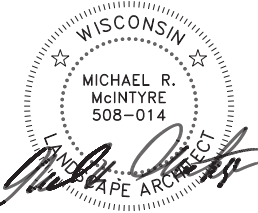
PLOT SCALE: -----
PLOT NAME: -----
REV. DATE: -----
KJWW#14.0167.00 MADISON SKATE PARK



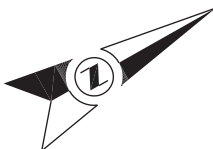
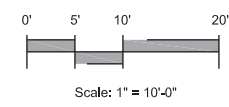
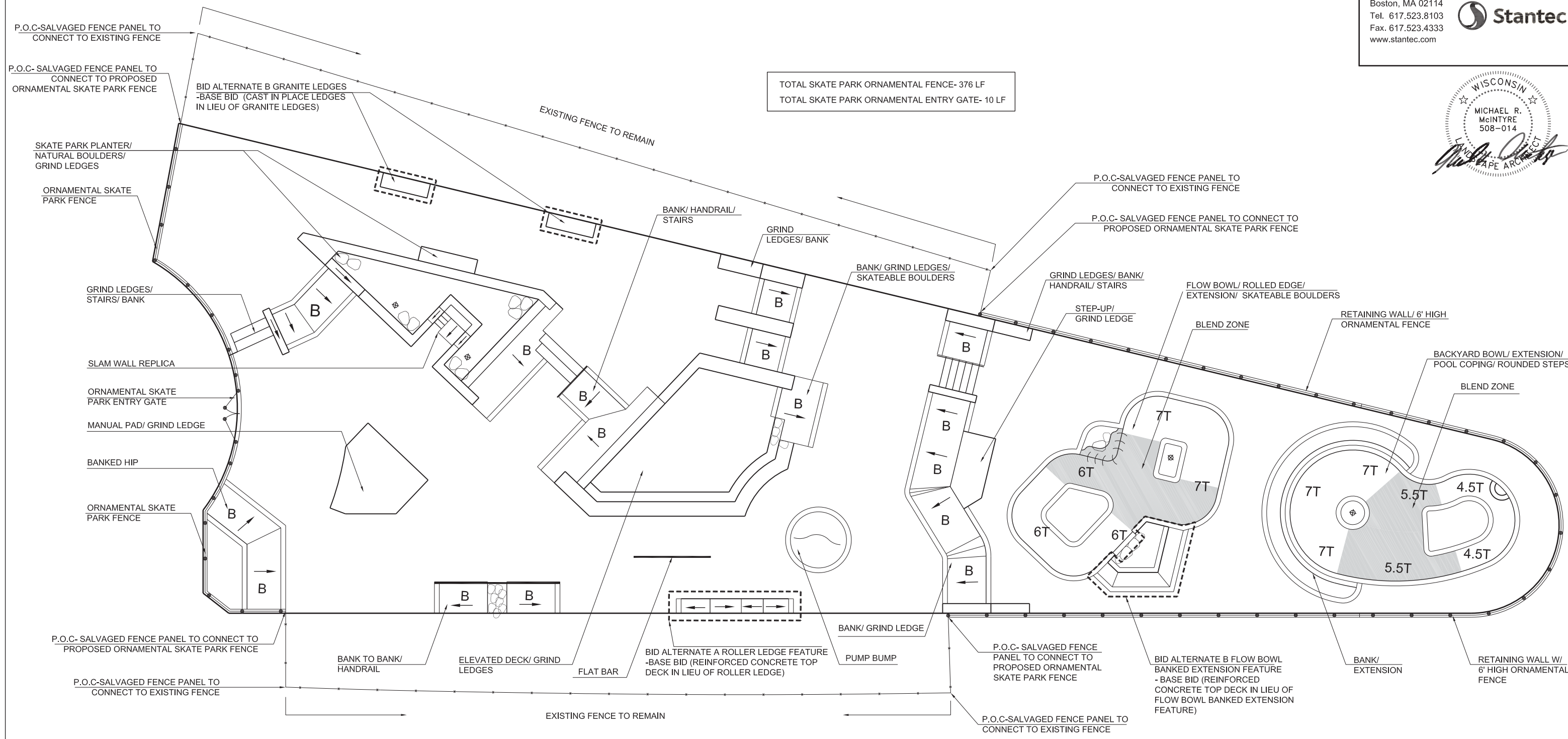
SKATE PARK - FEATURE PLAN

CENTRAL PARK - SKATE PARK
CITY OF MADISON

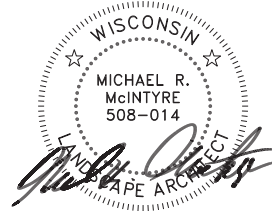
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CONCRETE FOUNDATION LEGEND

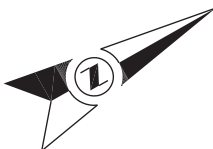
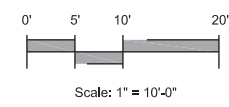
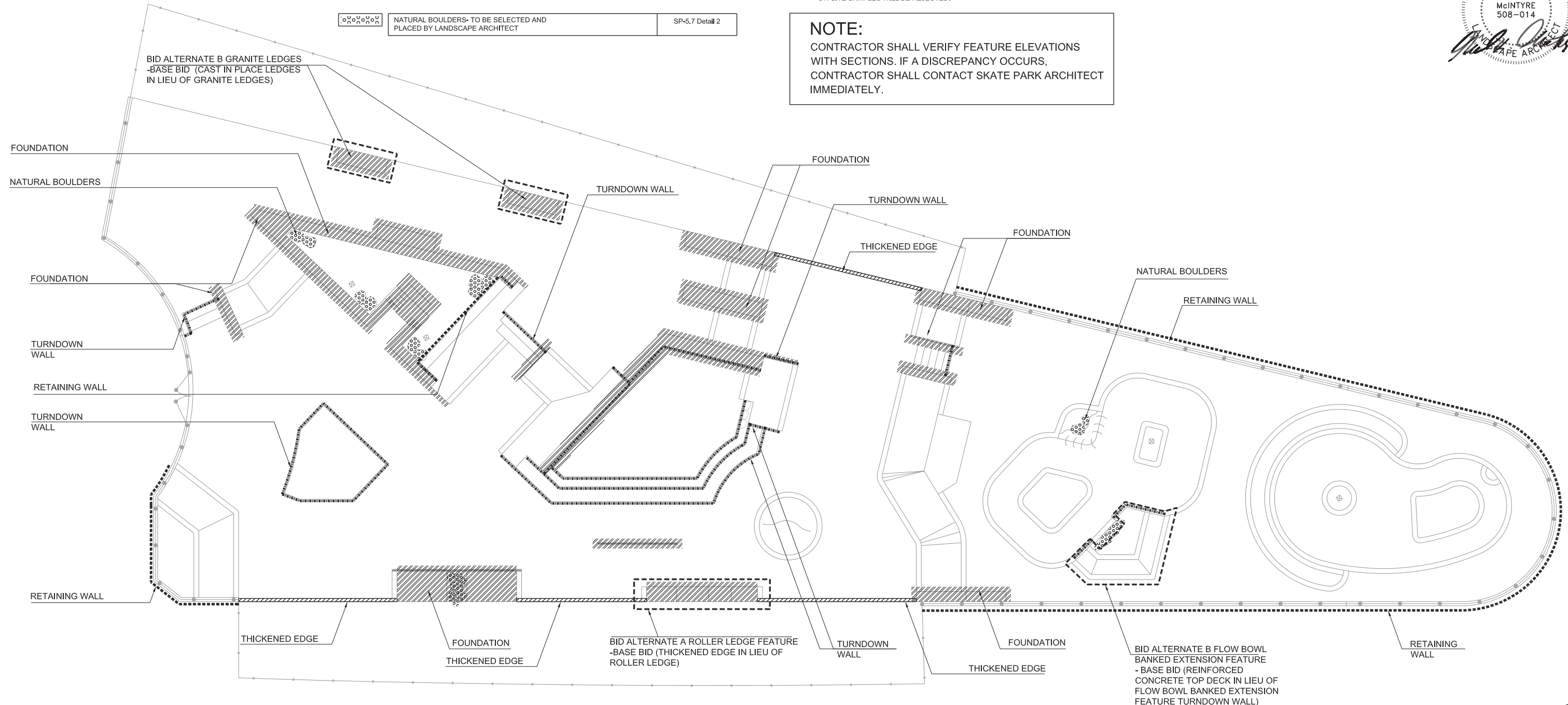
SYMBOL	DESCRIPTION	STRENGTH	CURE TIME	FINISH	DETAIL
	FOUNDATION (REFER TO SP-4.1-4.10 FOR ELEVATIONS)	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.2 Details 7 & 8 SP-5.3 Details 6-8 SP-5.4 Details 2-6 SP-5.5 Detail 2
	TURNDOWN WALL (REFER TO SP-4.1-4.10 FOR ELEVATIONS)	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.4 Detail 1
	THICKENED EDGE (REFER TO SP-4.1-4.10 FOR ELEVATIONS)	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.1 Detail 1
	RETAINING WALL (REFER TO SP-4.1-4.10 FOR ELEVATIONS)	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.5 Detail 3 SP-5.6 Details 3,7-8
	NATURAL BOULDERS- TO BE SELECTED AND PLACED BY LANDSCAPE ARCHITECT				SP-5.7 Detail 2

CONCRETE MATERIAL NOTES

1. CONTRACTOR SHALL SUBMIT POUR SCHEDULE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT.
2. CONTRACTOR SHALL SUBMIT PROPOSED START AND STOP FORM LOCATIONS FOR ALL CONCRETE WORK SHOWN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT.
3. CONTRACTOR SHALL BUILD ALL TEMPLATES AND FORMS WITH TRUE ARCS AND TANGENTS MATCHING SECTIONS AND PROFILE DIMENSIONS WITHIN THE CONSTRUCTION DOCUMENTS.
4. CONTRACTOR SHALL POUR ON-SITE SAMPLES OF CAST-IN-PLACE AND SHOTCRETE WORK PER THE SPECIFICATIONS. SAMPLES CANNOT BE PART OF THE PROJECT WORK.
5. ALL CONCRETE FINISH WORK SHALL BE PERFORMED BY PRE-QUALIFIED CONTRACTOR ONLY AND APPROVED BY LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT.
6. FINISH WORK NOT MEETING THE TOLERANCES, FINISH AND TOOLING FROM ON-SITE SAMPLES WILL BE REJECTED.

NOTE:

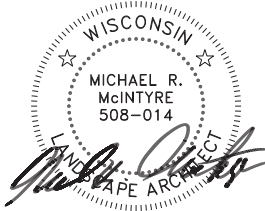
CONTRACTOR SHALL VERIFY FEATURE ELEVATIONS WITH SECTIONS. IF A DISCREPANCY OCCURS, CONTRACTOR SHALL CONTACT SKATE PARK ARCHITECT IMMEDIATELY.



PLOT SCALE: -----
PLOT NAME: -----
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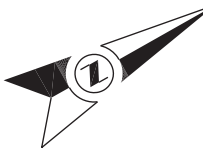
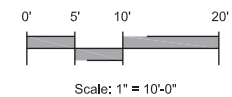


CONCRETE MATERIALS LEGEND

SYMBOL	DESCRIPTION	STRENGTH	CURE TIME	FINISH	DETAIL
	5" CONCRETE SLAB	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.1 Detail 1
	6" SHOTCRETE WALL	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.1 Details 5 & 7
	CAST-IN-PLACE LEDGE	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.2 Details 7 & 8 SP-5.4 Detail 2-6
	CAST-IN-PLACE STAIRS	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.1 Detail 6 SP-5.1 Detail 6
	CAST-IN-PLACE BANK	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.1 Detail 8
	6" CONCRETE FLATBOTTOM	4,000 P.S.I.	28 DAYS	SMOOTH TROWEL	SP-5.1 Detail 2
	CONCRETE RETAINING WALL	SEE SPECS.	SEE SPECS.	SEE SPECS.	SP-5.5 Detail 3 SP-5.6 Detail 7,8
	BID ALTERNATE B- GRANITE CAPPED LEDGE- CAST-IN-PLACE BASE				SP-5.5 Detail 2

CONCRETE MATERIAL NOTES

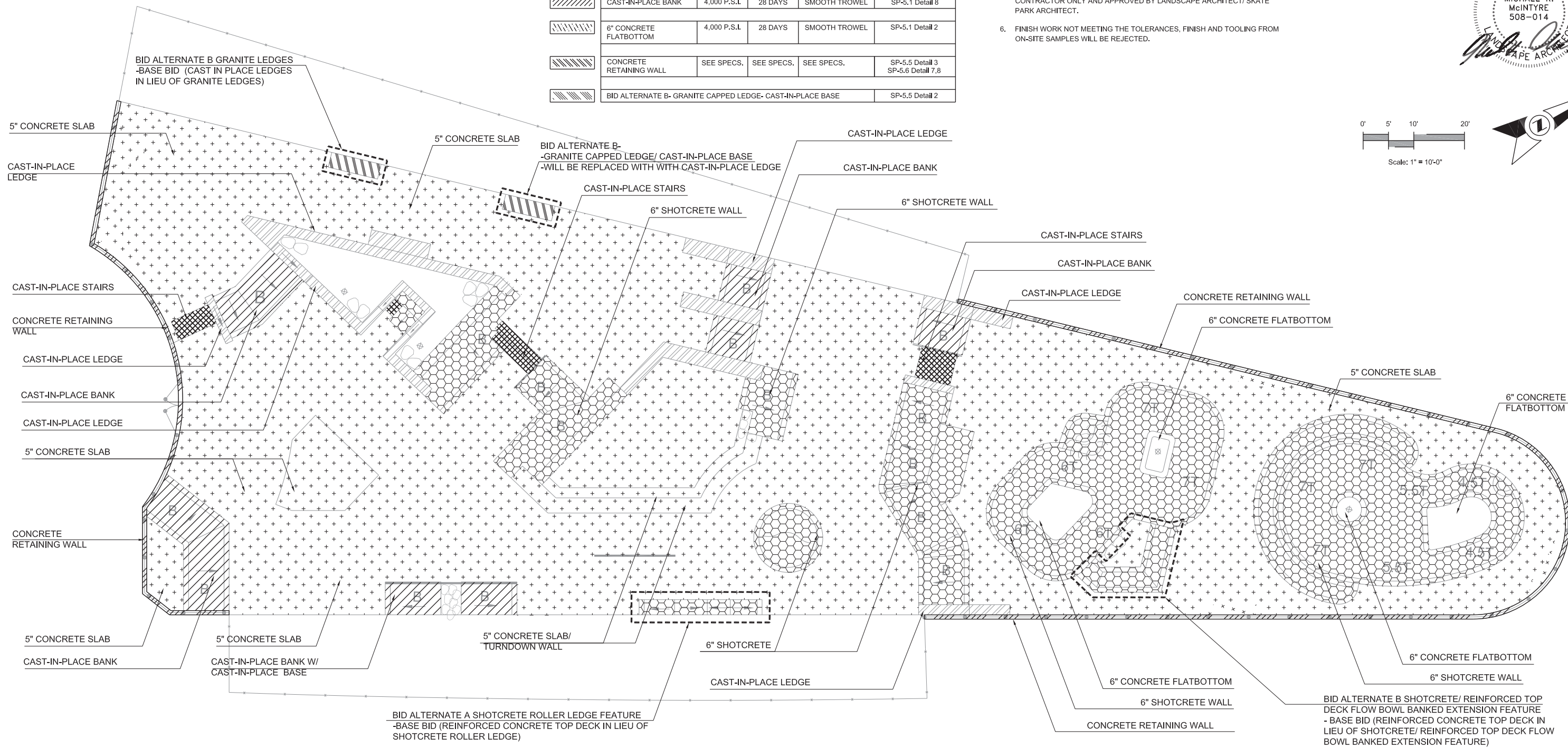
1. CONTRACTOR TO SUBMIT POUR SCHEDULE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT.
2. CONTRACTOR TO SUBMIT PROPOSED START AND STOP FORM LOCATIONS FOR ALL CONCRETE WORK SHOWN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/ SKATEPARK ARCHITECT.
3. CONTRACTOR TO BUILD ALL TEMPLATES AND FORMS WITH TRUE ARCS AND TANGENTS MATCHING SECTIONS AND PROFILE DIMENSIONS WITHIN THE CONSTRUCTION DOCUMENTS.
4. CONTRACTOR TO POUR ON-SITE SAMPLES OF CAST-IN-PLACE AND SHOTCRETE WORK PER THE SPECIFICATIONS. SAMPLES CANNOT BE PART OF THE PROJECT WORK.
5. ALL CONCRETE FINISH WORK TO BE PERFORMED BY PRE-QUALIFIED CONTRACTOR ONLY AND APPROVED BY LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT.
6. FINISH WORK NOT MEETING THE TOLERANCES, FINISH AND TOOLING FROM ON-SITE SAMPLES WILL BE REJECTED.



PLOT SCALE: -----

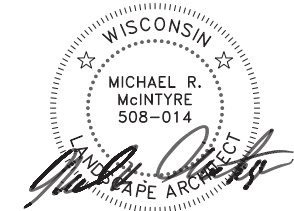
PLOT NAME: -----

REV. DATE: -----



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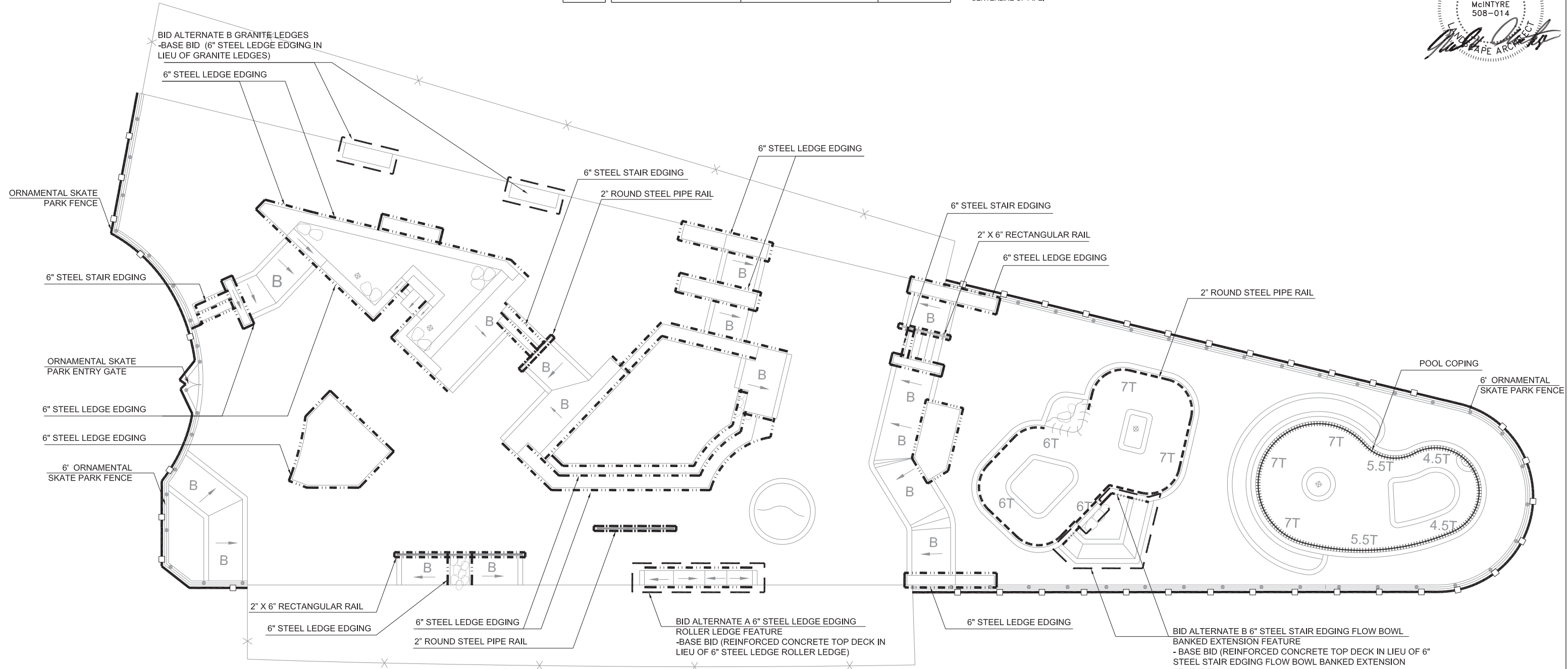


SKATE PARK METAL & COPING FABRICATION LEGEND

SYMBOL	DESCRIPTION	O.D. SIZE / GAUGE	FINISH	DETAIL
	2" ROUND STEEL PIPE RAIL	C6X8.2- 2.375" x 0.1875"	GALVANIZED	SP-5.3 Detail 6-8
	6" STEEL LEDGE EDGING	C6X8.2- 2.000" x 6.000" x 0.1875"	GALVANIZED	SP-5.3 Detail 3-4
	2" X 6" RECTANGULAR RAIL	C6X8.2- 2.000" x 6.000" x 0.1875"	GALVANIZED	SP-5.3 Detail 6-8
	2" ROUND STEEL PIPE COPING	C6X8.2- 2.375" x 0.1875"	GALVANIZED	SP-5.2 Detail 9-10
	6" STEEL STAIR EDGING	C6X8.2- 2.000" x 6.000" x 0.1875"	GALVANIZED	SP-5.3 Detail 1-2
	POOL COPING	PRE-CAST		SP-5.4 Detail 9
	ORNAMENTAL SKATE PARK FENCE	VARIES- REFER TO DETAIL		SP-5.6 Detail 1,2,4-8

METALS MATERIALS NOTE

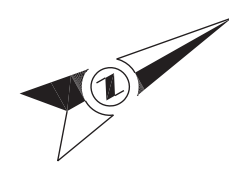
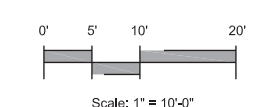
1. ALL METAL FABRICATION SIZES ARE NOMINAL.
2. ALL METAL FABRICATIONS SHOWN ARE TO BE HOT DIPPED GALVANIZED.
3. QUALIFICATIONS OF CONTRACTOR: PROVIDE AT LEAST ONE PERSON WHO SHALL BE PRESENT AT ALL TIMES DURING EXECUTION OF THIS PORTION OF THE WORK, AND WHO SHALL BE THOROUGHLY FAMILIAR WITH THE TYPE OF MATERIALS BEING INSTALLED, THE REFERENCED STANDARDS, THE REQUIREMENTS OF THIS WORK, AND WHO SHALL DIRECT ALL WORK PERFORMED UNDER THIS SECTION.
4. WELDS NECESSARY TO CONNECT ALL COPING AND METAL FABRICATION SHOULD BE DONE BY CERTIFIED WELDER, GROUND SMOOTH, DE-BURRED AND COATED PER SPECIFICATIONS.
5. PROTECT ALL FINISH WORK ADJACENT TO METAL FABRICATION EFFORTS TO PREVENT ANY STAINING.
6. SAMPLES: REQUIRED FOR ALL COPING, RAILS, FENCING AND EDGING OF SKATE PARK. SUBMIT FINISH METAL SAMPLES FOR FINAL FINISH REQUIRED PRIOR TO DELIVERY TO SITE.
7. STEEL COPING: ROLL PIPE TO CONFORM WITH HORIZONTAL CONTROL RADII AT CENTERLINE OF PIPE.



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PLOT NAME: -----

REV. DATE: -----



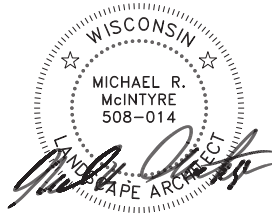
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SKATE PARK - JOINTING PLAN

CENTRAL PARK-
SKATE PARK

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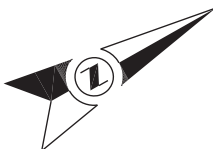
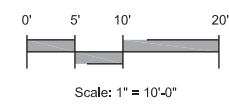
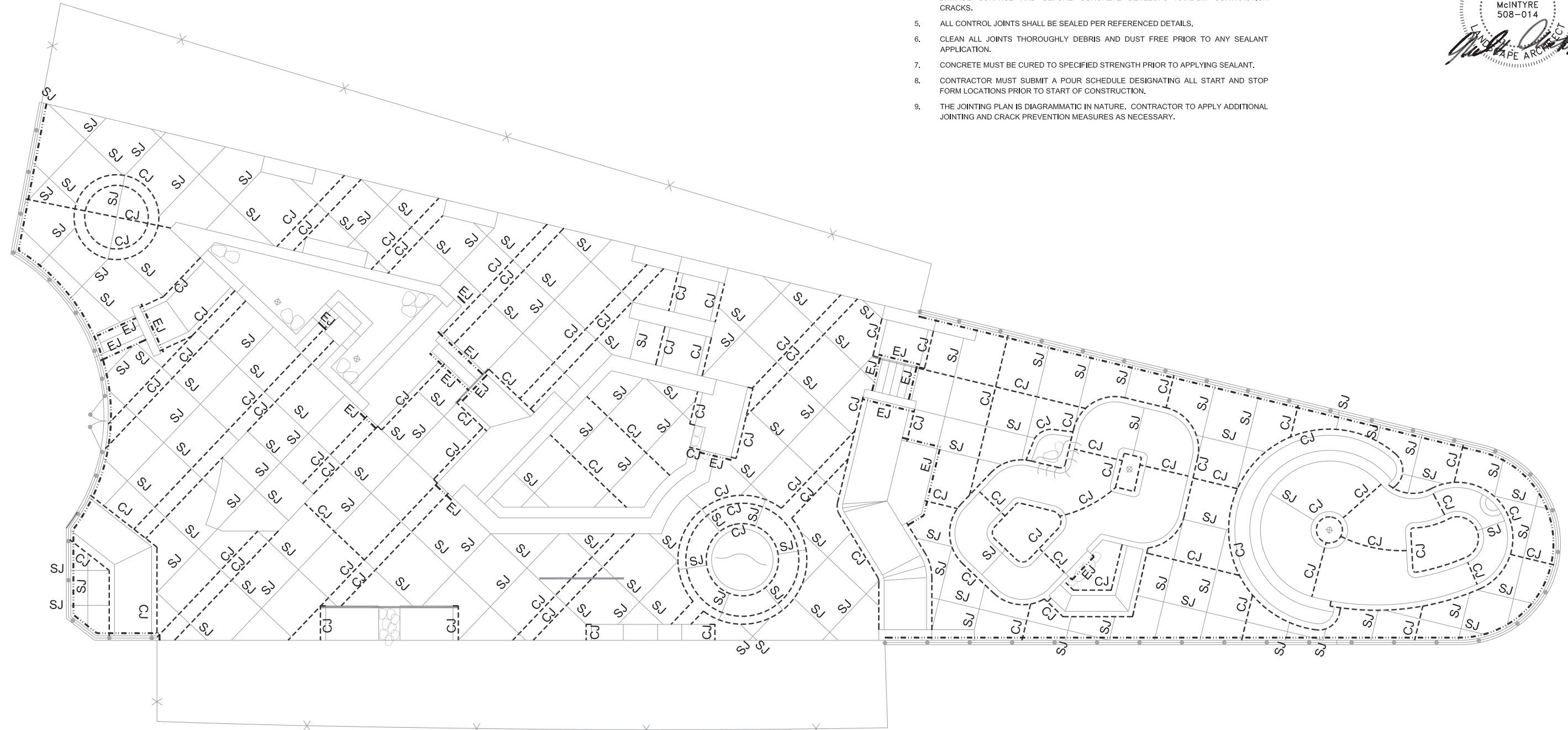


JOINTING LEGEND

SYMBOL	DESCRIPTION	DETAIL
-----	C.J. - CONSTRUCTION JOINT	SP-5.2 Detail 2, 4-6
_____	S.J. - SAWCUT JOINT	SP-5.2 Detail 3
-----	E.J. - EXPANSION JOINT	SP-5.2 Detail 1

JOINTING NOTES

1. CONSTRUCT JOINTS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE.
2. CONSTRUCTION JOINTS: INSTALL SO STRENGTH AND APPEARANCE OF CONCRETE ARE NOT IMPAIRED, AT LOCATIONS INDICATED AND APPROVED BY LANDSCAPE ARCHITECT/ SKATE PARK ARCHITECT.
3. PLACE JOINTS PERPENDICULAR TO MAIN REINFORCEMENT. CONTINUE REINFORCEMENT ACROSS CONSTRUCTION JOINTS, UNLESS OTHERWISE INDICATED.
4. SAWED JOINTS: FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRASE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS.
5. ALL CONTROL JOINTS SHALL BE SEALED PER REFERENCED DETAILS.
6. CLEAN ALL JOINTS THOROUGHLY DEBRIS AND DUST FREE PRIOR TO ANY SEALANT APPLICATION.
7. CONCRETE MUST BE CURED TO SPECIFIED STRENGTH PRIOR TO APPLYING SEALANT.
8. CONTRACTOR MUST SUBMIT A POUR SCHEDULE DESIGNATING ALL START AND STOP FORM LOCATIONS PRIOR TO START OF CONSTRUCTION.
9. THE JOINTING PLAN IS DIAGRAMMATIC IN NATURE. CONTRACTOR TO APPLY ADDITIONAL JOINTING AND CRACK PREVENTION MEASURES AS NECESSARY.



PLOT SCALE: -----

PLOT NAME: -----

REV. DATE: -----

SKATE PARK - LAYOUT PLAN

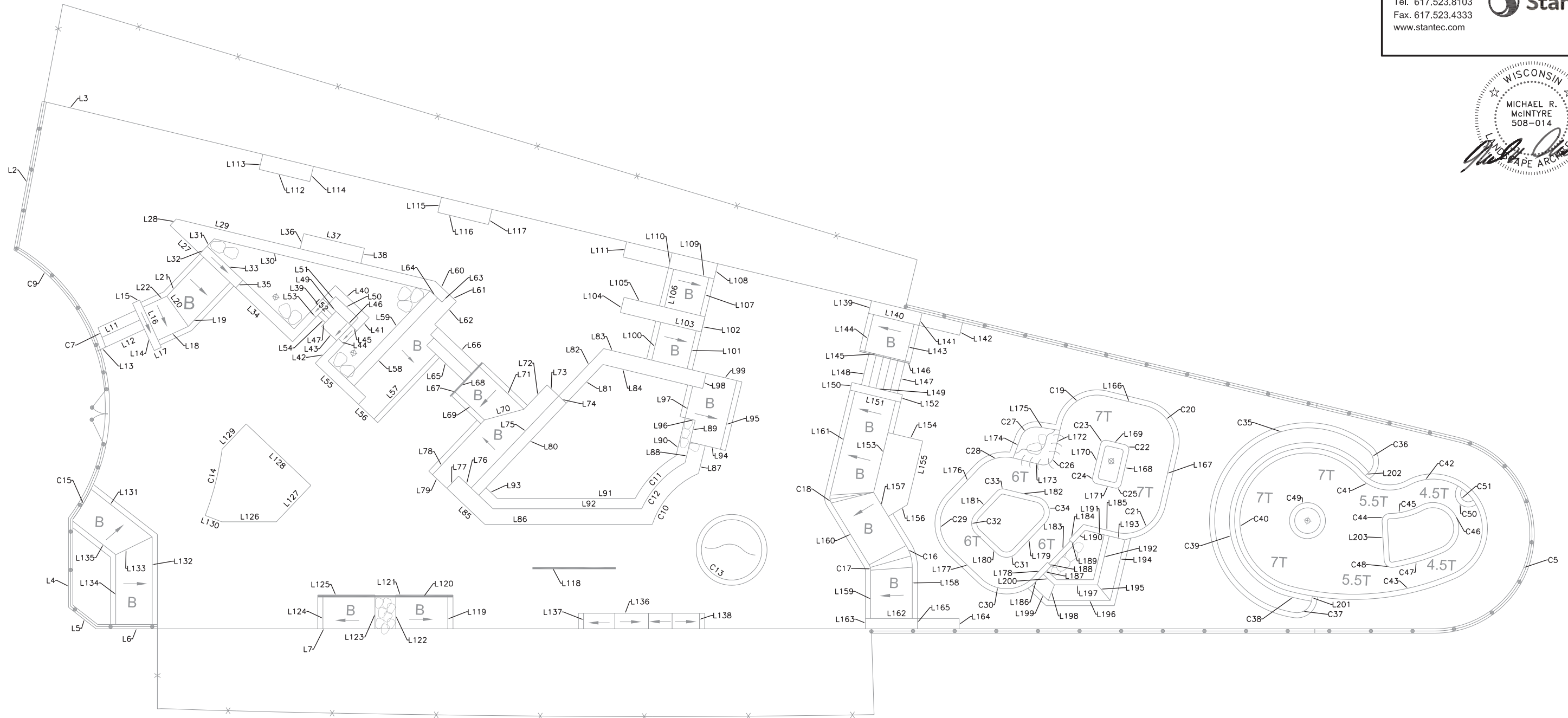
CENTRAL PARK-
SKATE PARK

CITY OF MADISON

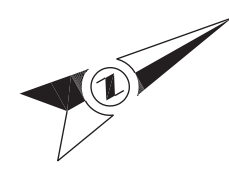
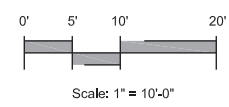
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LINE AND CURVE DATA - SEE SP-2.2 FOR TABLES



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SKATE PARK - LAYOUT TABLES

CENTRAL PARK - SKATE PARK CITY OF MADISON

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Line Table with columns: Line #, Length, Direction, START POINT (N, E), END POINT (N, E). Rows L2 to L43.

Line Table with columns: Line #, Length, Direction, START POINT (N, E), END POINT (N, E). Rows L44 to L79.

Line Table with columns: Line #, Length, Direction, START POINT (N, E), END POINT (N, E). Rows L80 to L114.

CURVE TABLE with columns: CURVE, DELTA, ARC LEN, RADIUS, BEARING, CHORD LEN, START NORTHING, EASTING, END NORTHING, EASTING. Rows C5 to C30.

CURVE TABLE with columns: CURVE, DELTA, ARC LEN, RADIUS, BEARING, CHORD LEN, START NORTHING, EASTING, END NORTHING, EASTING. Rows C32 to C51.

Line Table with columns: Line #, Length, Direction, START POINT (N, E), END POINT (N, E). Rows L115 to L149.

Line Table with columns: Line #, Length, Direction, START POINT (N, E), END POINT (N, E). Rows L150 to L184.

Line Table with columns: Line #, Length, Direction, START POINT (N, E), END POINT (N, E). Rows L185 to L203.

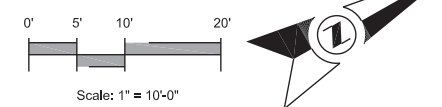
NOTE:

COORDINATE VALUES SHOWN ARE INTENDED FOR HORIZONTAL POSITIONING AND DIMENSION CLARIFICATION ONLY. ALL POINTS SET IN THE FIELD FROM THESE VALUES SHALL FIRST BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THE LOCATION IS CONSISTENT WITH THE DIMENSIONS AND GRAPHIC LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION PLANS...

ALL COORDINATES SHOWN AT THE BOTTOM OF ALL BANKS/ TRANSITIONS ARE LOCATED AT THE POINT OF TANGENCY NOT AT THE KEY JOINT. THESE COORDINATE VALUES MUST BE OFFSET 1'-0" AWAY FROM THE BANK TRANSITION TO DETERMINE THE LOCATION OF THE KEY JOINT.

BECAUSE OF THE SCALE OF THIS DRAWING AND PROXIMITY OF FEATURES TO EACH OTHER, THE LOCATION OF SOME OF THE POINTS MAY BE OBLSCURED. REFER TO THE LAYOUT DATA FOR THE ACTUAL LOCATIONS FOR ALL POINTS.

* CONTRACTOR RESPONSIBLE FOR SURVEY WORK



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NOTES:

CONTRACTOR TO VERIFY FEATURE ELEVATIONS WITH SECTIONS. IF A DISCREPANCY OCCURS, CONTRACTOR SHALL CONTACT SKATE PARK DESIGNER IMMEDIATELY.
REFER TO CIVIL PLANS FOR FINISH GRADE ELEVATIONS BEYOND SKATE PARK.
REFER TO SECTIONS FOR HEIGHTS OF SKATE PARK FEATURES

GRADING & DRAINAGE SHEET NOTE MASTER

1. FINAL HEIGHT AND SHAPE OF EXCAVATION TO BE VERIFIED BY SKATE PARK ARCHITECT IN THE FIELD.
2. ALL SPOT ELEVATIONS ARE FOR TOP OF FINISH WORK UNLESS OTHERWISE NOTED.
3. MINIMUM SLOPE FOR ALL CONCRETE FINISH WORK SHALL BE 1%. WATER MUST DRAIN TOWARDS DIRECTION OF FLOW ARROWS AND FOLLOW OVERALL DESIGN INTENT.
4. ALL AREAS DISTURBED BY GRADING OPERATIONS TO BE FINE GRADED.
5. VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK.
6. REFER TO SECTIONS AND PROFILES FOR HEIGHT, RADII AND PROFILES.
7. ALL FINE GRADING OF EARTHWORK SHALL BE INSPECTED WITH TEMPLATES/ SCREEDS TO BE USED FOR EARTHWORK TOLERANCES FOR APPROVAL BY SKATE PARK ARCHITECT.
8. CONTRACTOR TO PROTECT ALL EXCAVATIONS FROM SOIL EROSION AND WATER SATURATION AT ALL TIMES USING APPROPRIATE CONSTRUCTION METHODS. AND LOSS OF SOIL PROFILE DURING CONSTRUCTION SHALL BE REPLACED WITH APPROPRIATE SOIL COMPOSITION AND COMPACTION METHODS TO MATCH LOSS SOIL.
9. THE DRAINS IN THE SKATE PARK HAVE PERFORATIONS IN THE PORTION BELOW THE CONCRETE DECK TO AVOID ANY HYDRO-STATIC LIFT POTENTIAL.

SURVEY NOTES

1. LOCATE ALL SURVEY MARKS INCLUDING BENCH MARKS AND PROPERTY LINES IN ORDER THAT THE EXACT LINES OF CONSTRUCTION LIMITS AND GRADES MAY BE DETERMINED. BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY BEFORE PROCEEDING WITH WORK.
2. VERIFY ENTIRE LAYOUT PRIOR TO START OF CONSTRUCTION WITH PROJECT OWNER'S REPRESENTATIVES AND SKATE PARK ARCHITECT.
3. LOCATE AND PROTECT CONTROL POINTS PRIOR TO STARTING SITE WORK AND PROTECT ALL PERMANENT REFERENCE POINTS DURING ENTIRE CONSTRUCTION. REPLACE PROJECT CONTROL POINTS WHICH MAY BE LOST OR DESTROYED DURING CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY FINISH GRADE ELEVATIONS AS SHOWN ON CIVIL ENGINEER'S PLANS AND BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY BEFORE PROCEEDING WITH WORK.

GRADING LEGEND

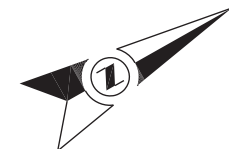
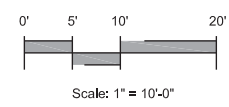
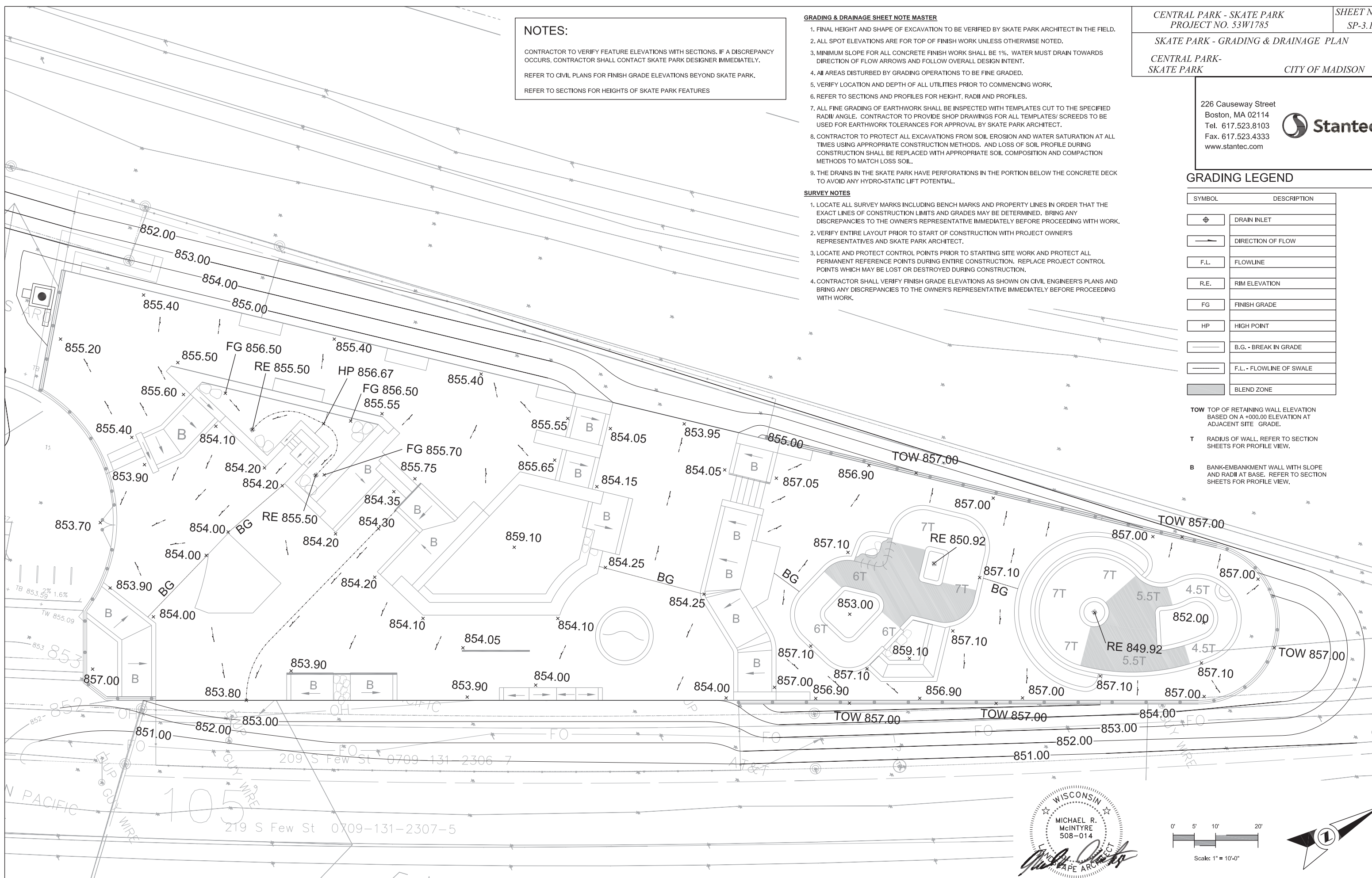
SYMBOL	DESCRIPTION
	DRAIN INLET
	DIRECTION OF FLOW
F.L.	FLOWLINE
R.E.	RIM ELEVATION
FG	FINISH GRADE
HP	HIGH POINT
	B.G. - BREAK IN GRADE
	F.L. - FLOWLINE OF SWALE
	BLEND ZONE

TOW TOP OF RETAINING WALL ELEVATION BASED ON A +000.00 ELEVATION AT ADJACENT SITE GRADE.

T RADIUS OF WALL. REFER TO SECTION SHEETS FOR PROFILE VIEW.

B BANK-EMBANKMENT WALL WITH SLOPE AND RADII AT BASE. REFER TO SECTION SHEETS FOR PROFILE VIEW.

PLOT SCALE: ---
PLOT NAME: ---
REV. DATE: ---



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CONCRETE GENERAL/SPECIALTY WORK LEGEND



CONCRETE WORK TO BE PERFORMED BY GENERAL CONTRACTOR

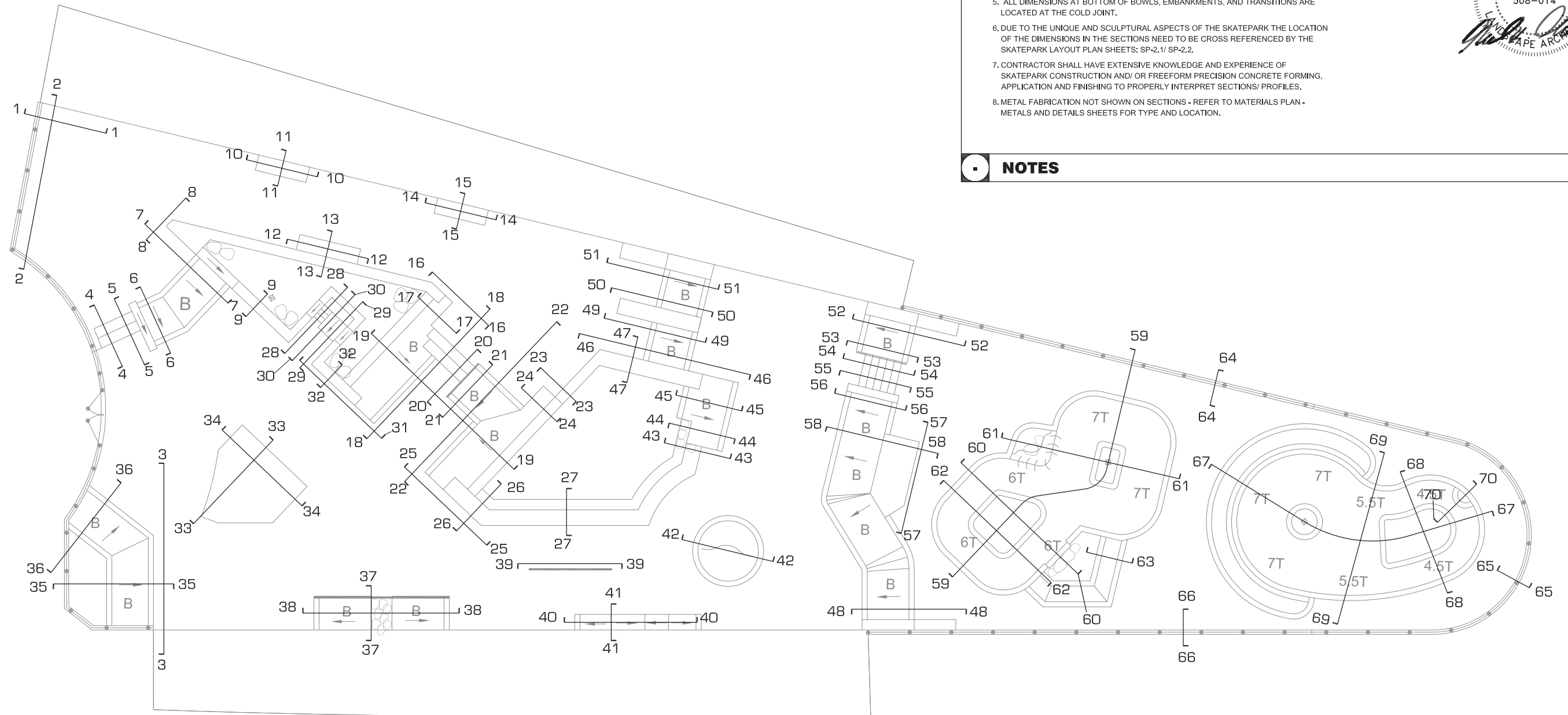


CONCRETE WORK TO BE PERFORMED BY SKATE PARK SPECIALTY CONTRACTOR

SECTION GENERAL NOTES:

1. ALL SECTION DIMENSIONS ARE TOP OF CONCRETE FINISH GRADE UNLESS OTHERWISE NOTED.
2. DO NOT INCLUDE METAL FABRICATION OFFSET TO OVERALL DIMENSIONS SHOWN IN SECTIONS AND PROFILES.
3. REFER TO SKATEPARK LAYOUT PLAN SHEETS: SP-2.1/ SP-2.2 FOR ACTUAL HORIZONTAL LOCATIONS.
4. FINAL GRADE EARTHWORK AND FORMWORK TO BE REVIEWED AND APPROVED BY STANTEC. STANTEC RESERVES THE RIGHT TO MAKE FIELD ADJUSTMENTS AS NECESSARY TO FULFILL THE DESIGN INTENT.
5. ALL DIMENSIONS AT BOTTOM OF BOWLS, EMBANKMENTS, AND TRANSITIONS ARE LOCATED AT THE COLD JOINT.
6. DUE TO THE UNIQUE AND SCULPTURAL ASPECTS OF THE SKATEPARK THE LOCATION OF THE DIMENSIONS IN THE SECTIONS NEED TO BE CROSS REFERENCED BY THE SKATEPARK LAYOUT PLAN SHEETS: SP-2.1/ SP-2.2.
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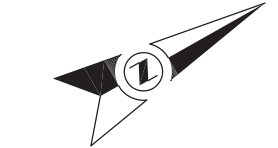
NOTES



PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

KEY MAP-(REFER TO SP-4.2 - SP-4.9 FOR SECTIONS/ PROFILES)



0" 6" 12" SCALE
3/32" = 1'-0"

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SECTION GENERAL NOTES:

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REFER TO SP-4.1 FOR KEY MAP

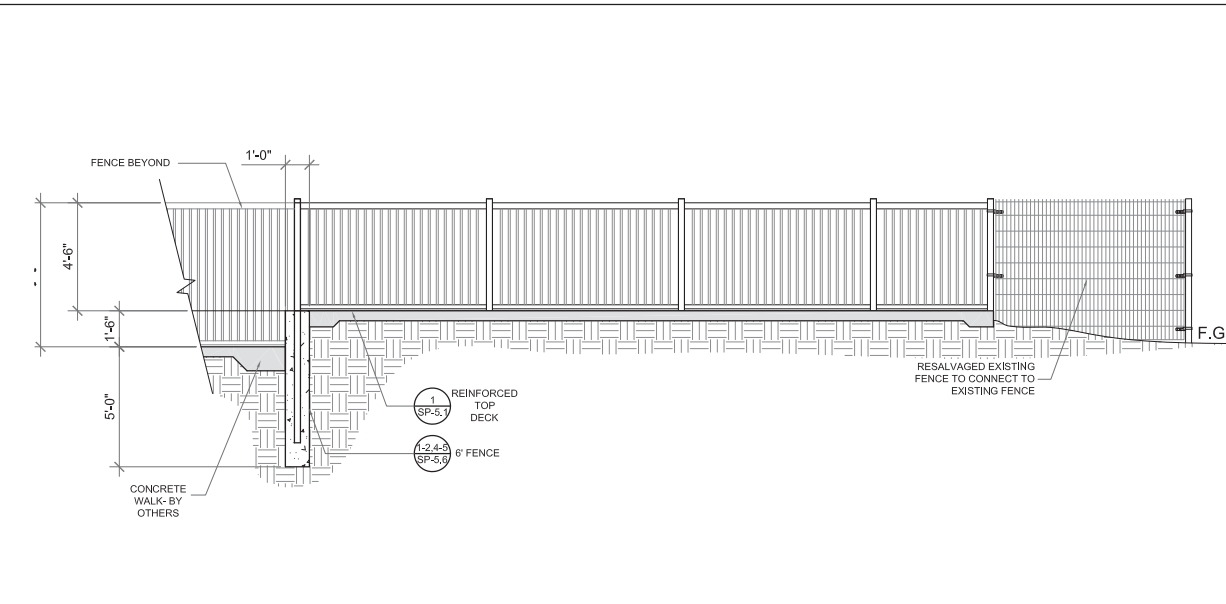
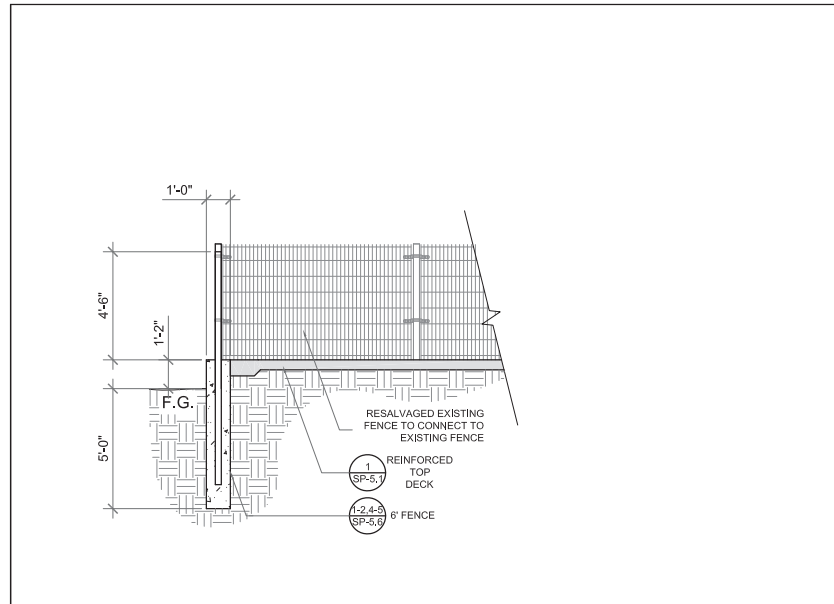
CONCRETE GENERAL/SPECIALTY
WORK LEGEND

- CONCRETE WORK TO BE PERFORMED BY GENERAL CONTRACTOR
- CONCRETE WORK TO BE PERFORMED BY SKATE PARK SPECIALTY CONTRACTOR

PLOT SCALE: _____

PLOT NAME: _____

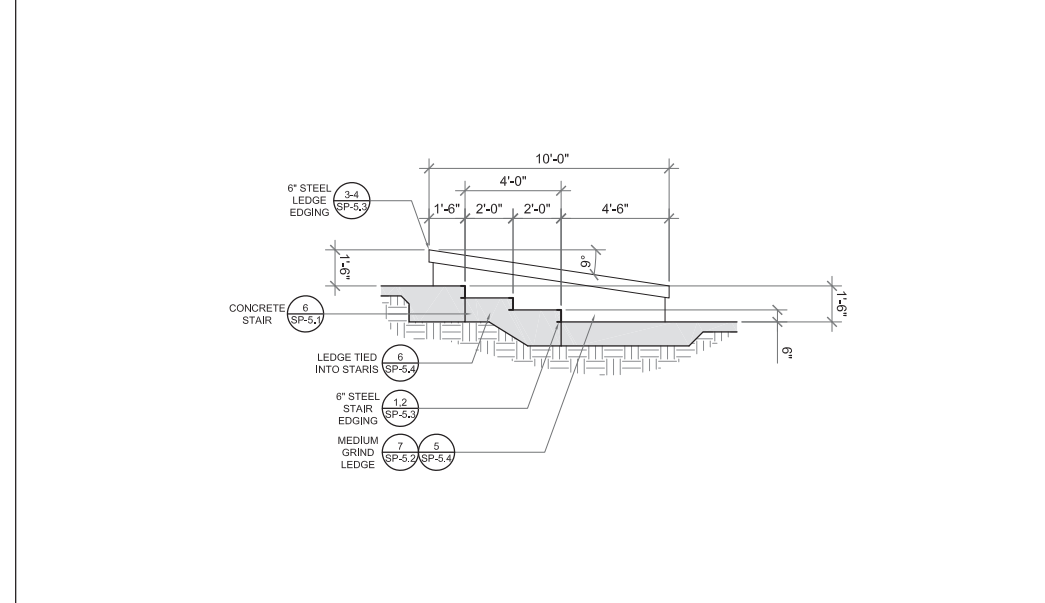
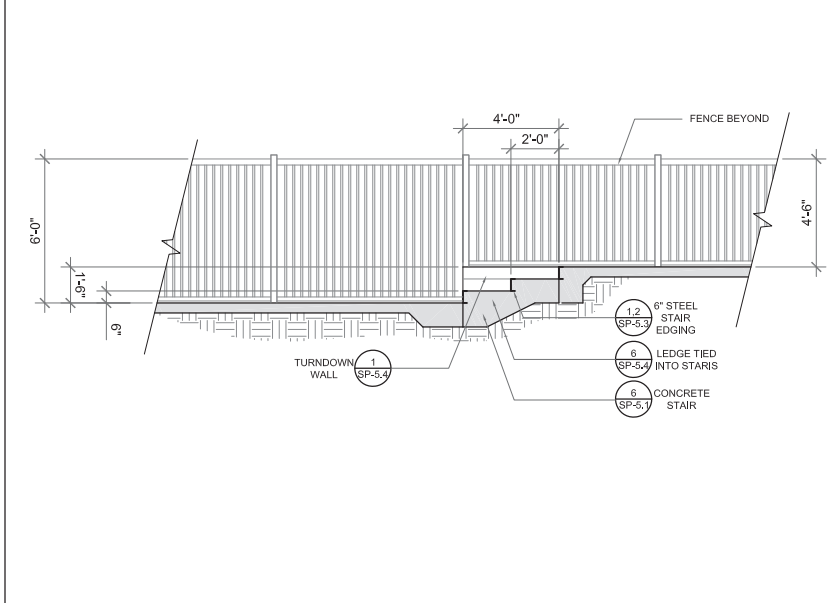
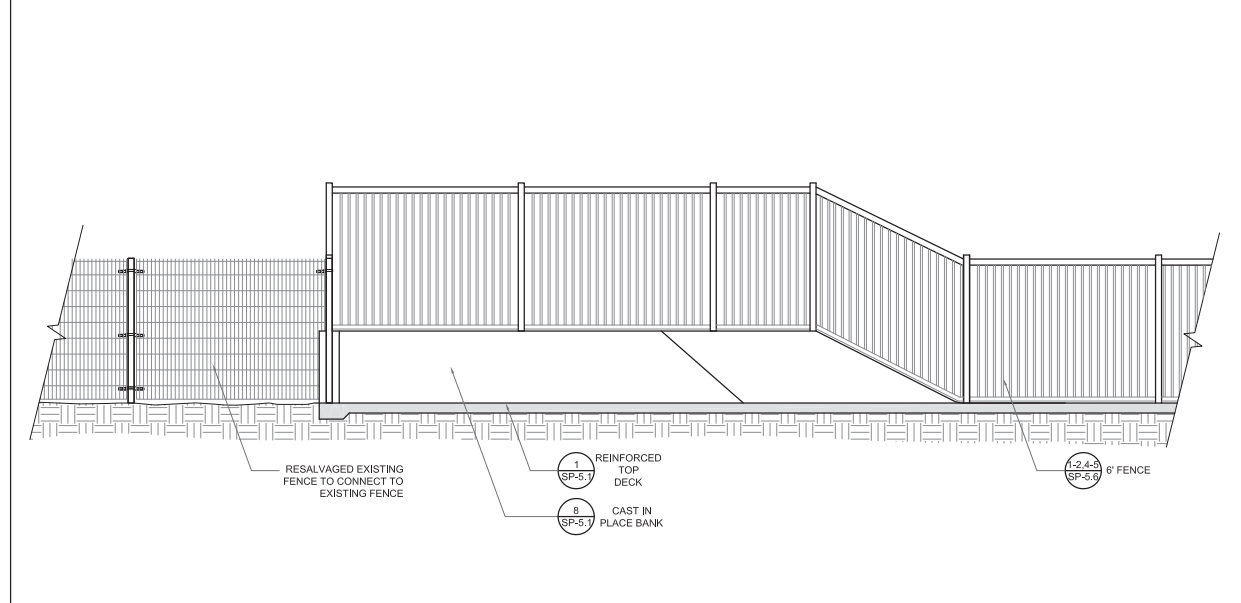
REV. DATE: _____



1 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"

2 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"

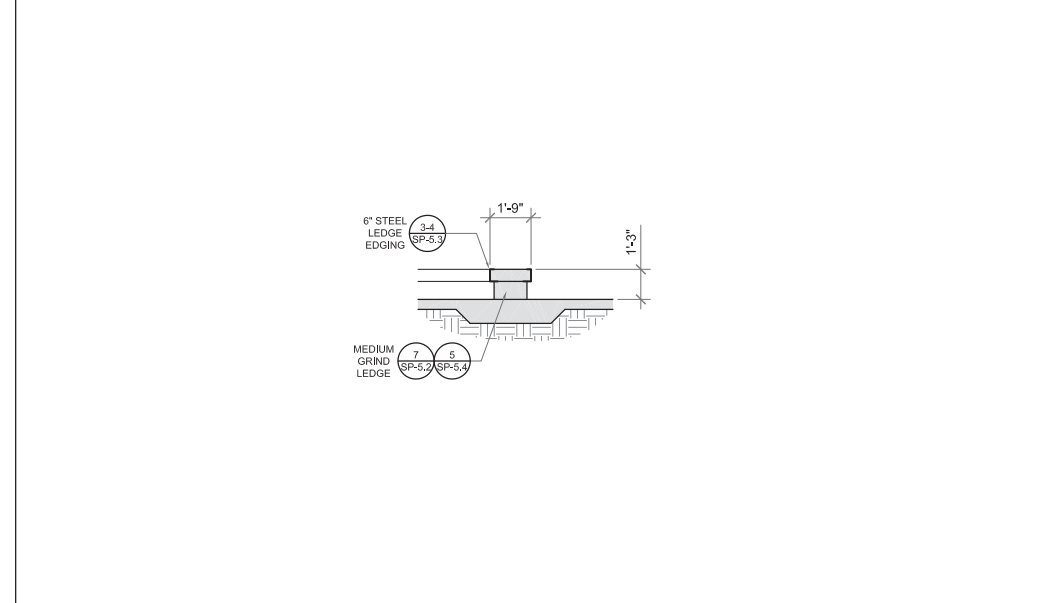
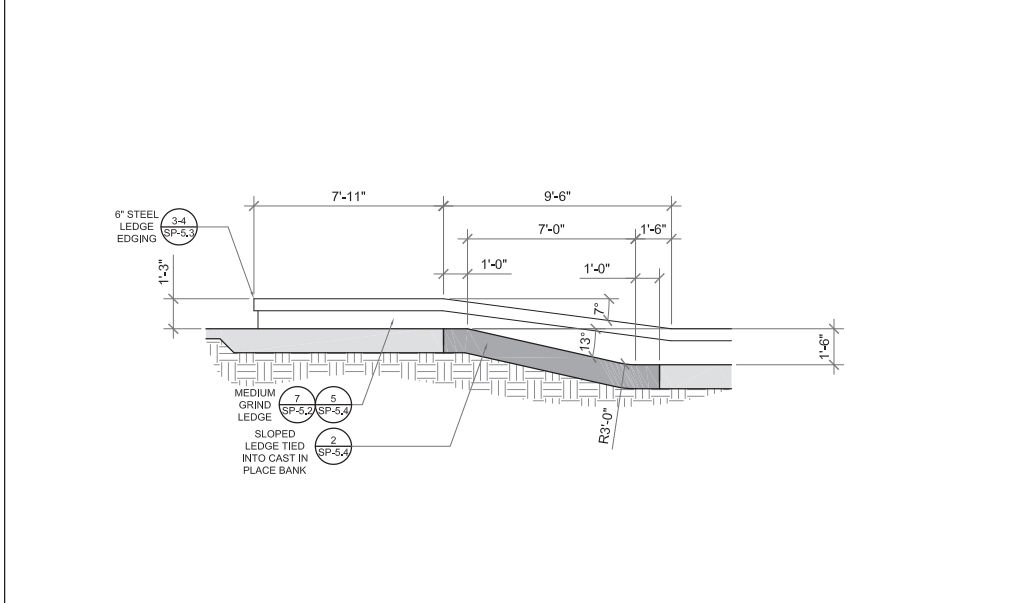
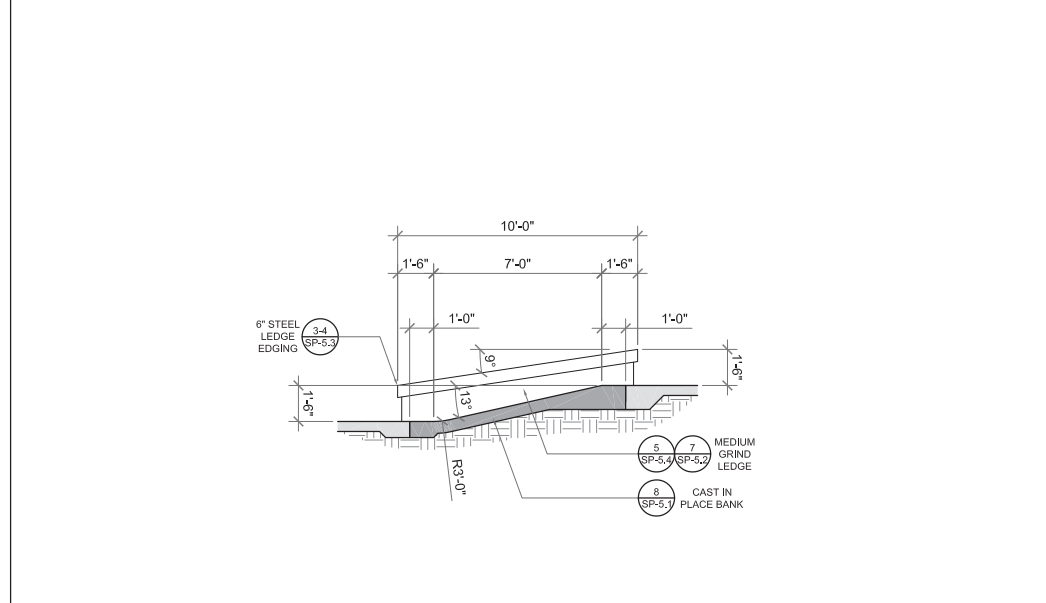
NOTES



3 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"

4 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"

5 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"



6 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"

7 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"

8 SECTION 0" 1' 2' 4' SCALE 1/4" = 1'-0"

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SKATE PARK - SECTIONS/ PROFILES

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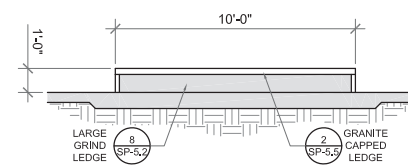
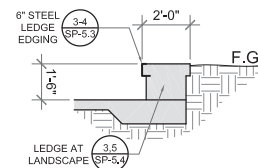
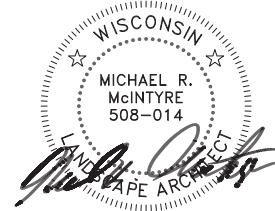
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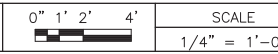
REFER TO SP-4.1 FOR KEY MAP

CONCRETE GENERAL/SPECIALTY WORK LEGEND

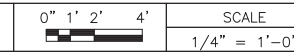
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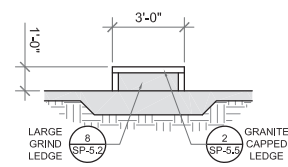
9 SECTION



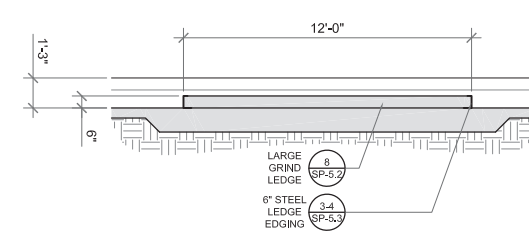
10 SECTION- BID ALTERNATE B



NOTES



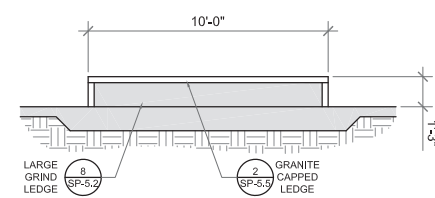
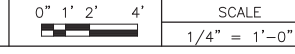
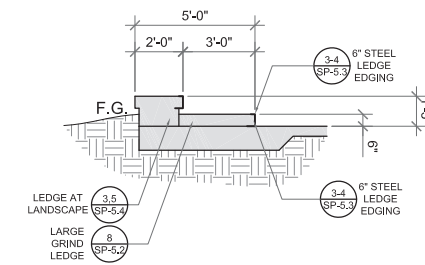
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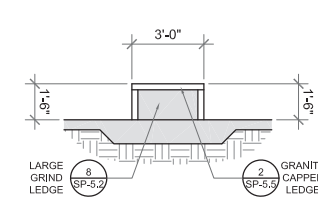
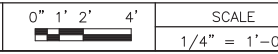
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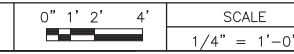
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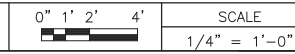
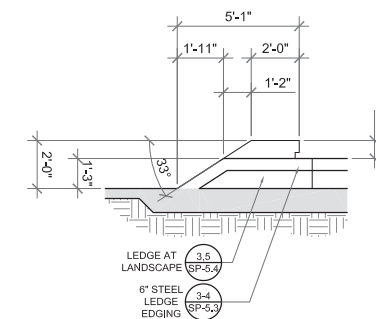
14 SECTION- BID ALTERNATE B



15 SECTION- BID ALTERNATE B



16 SECTION



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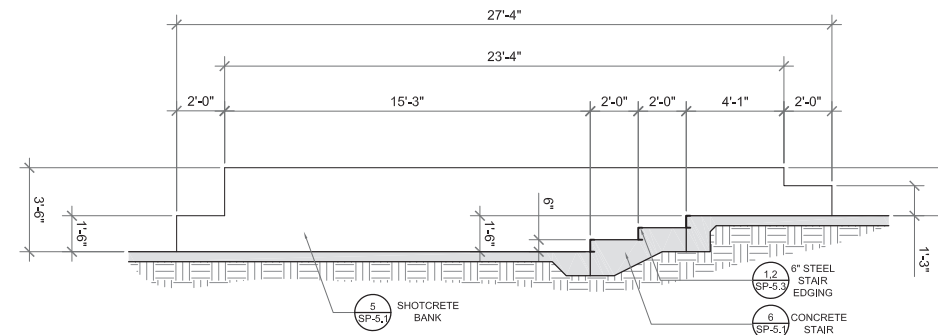
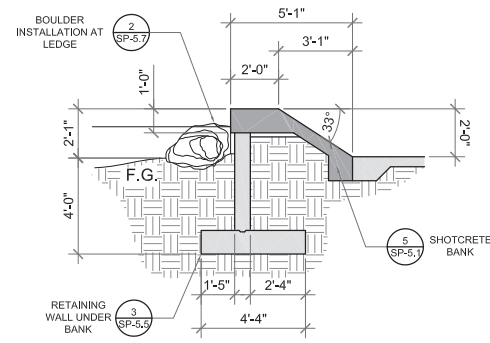
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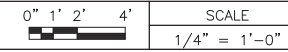
REFER TO SP-4.1 FOR KEY MAP

CONCRETE GENERAL/SPECIALTY WORK LEGEND

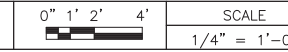
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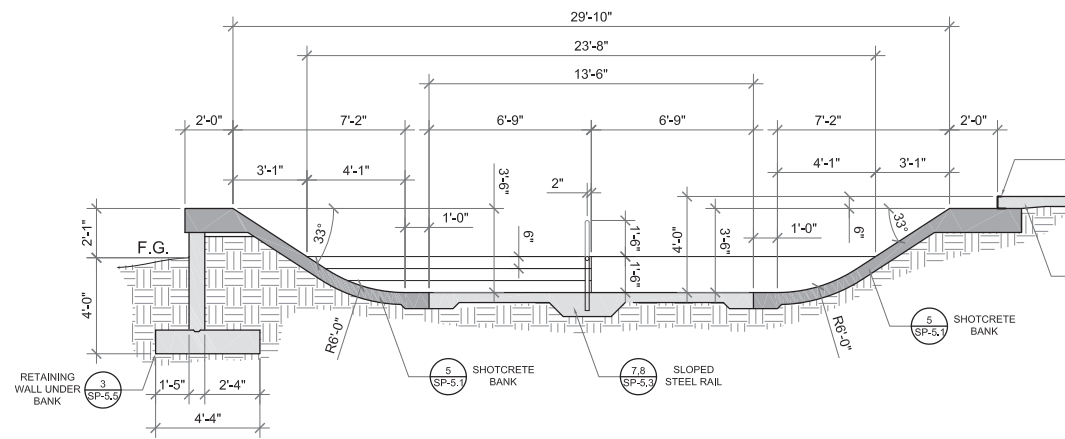
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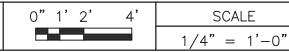
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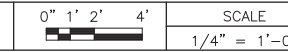
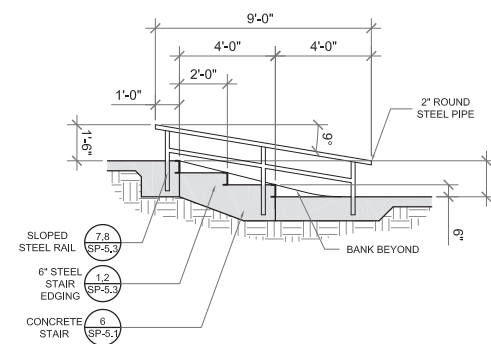
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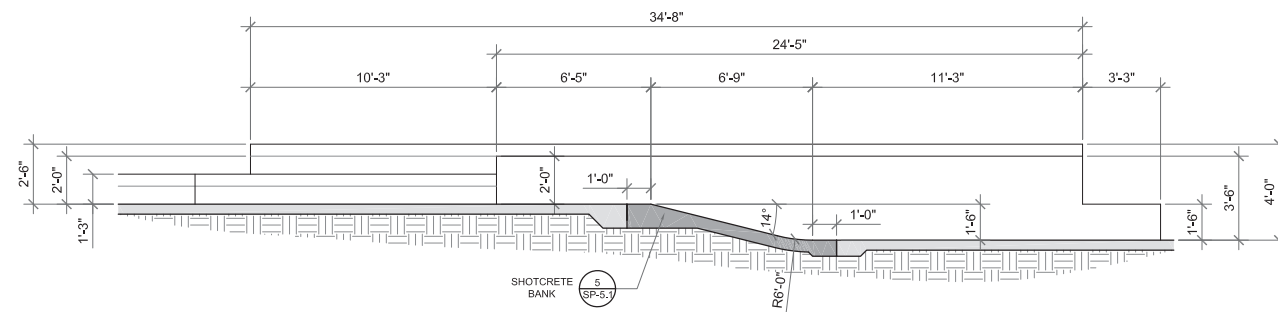
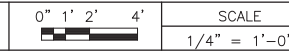
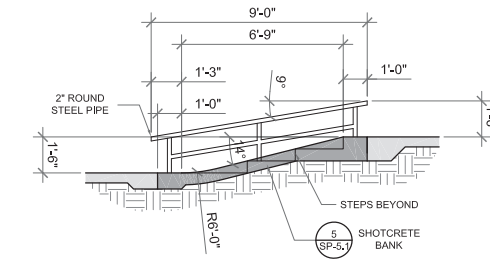
19 SECTION



20 SECTION



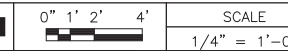
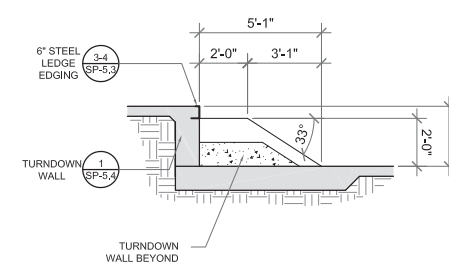
21 SECTION



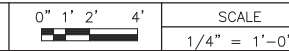
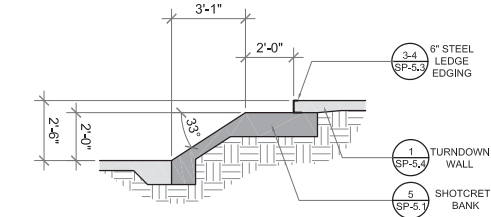
22 SECTION



23 SECTION



24 SECTION



PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS_DIVISION

SKATE PARK - SECTIONS / PROFILES

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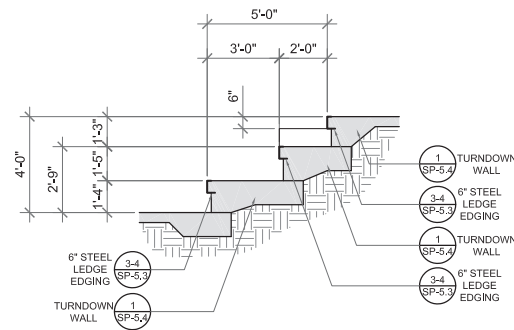
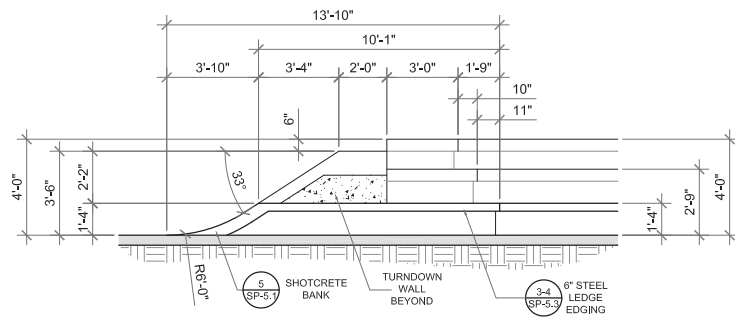
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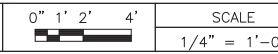
REFER TO SP-4.1 FOR KEY MAP

CONCRETE GENERAL/SPECIALTY WORK LEGEND

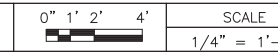
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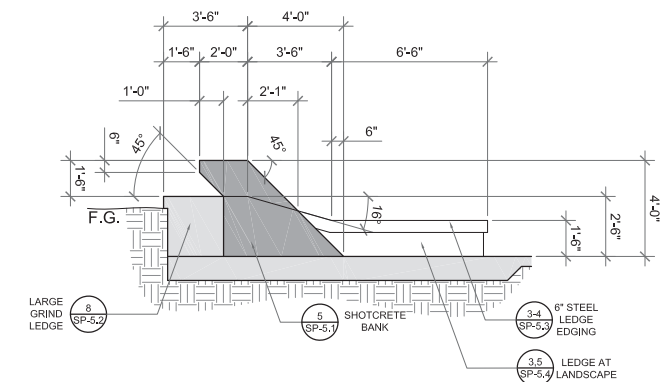
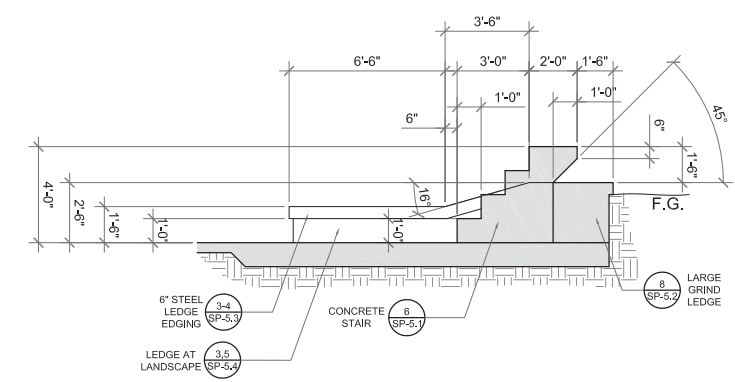
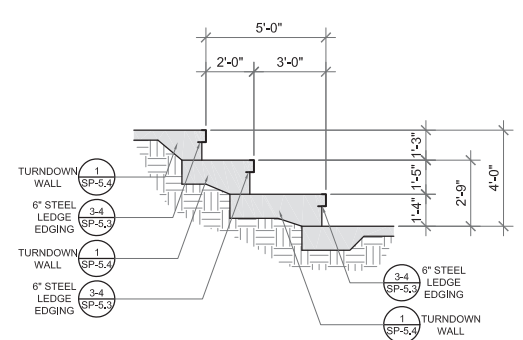
25 SECTION



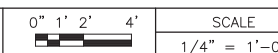
26 SECTION



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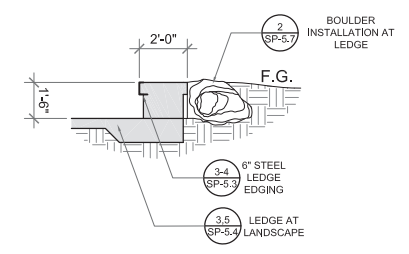
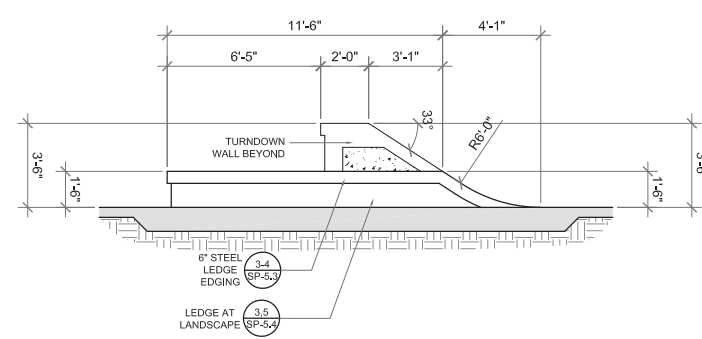
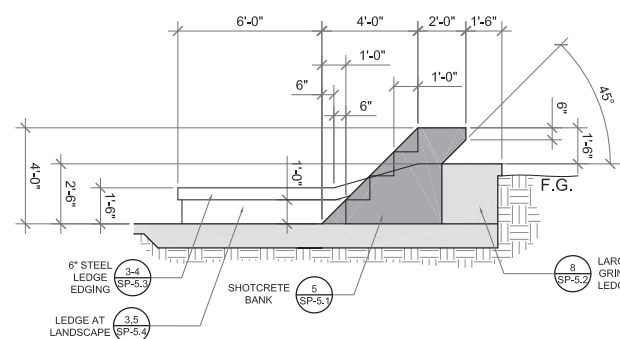
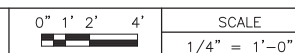
27 SECTION



28 SECTION



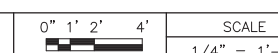
29 SECTION



30 SECTION



31 SECTION



32 SECTION



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CONCRETE GENERAL/SPECIALTY WORK LEGEND

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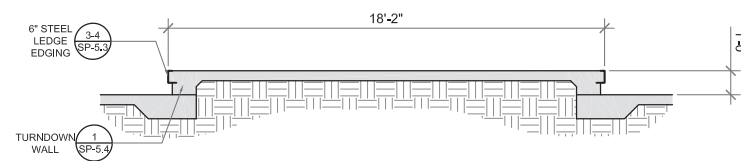


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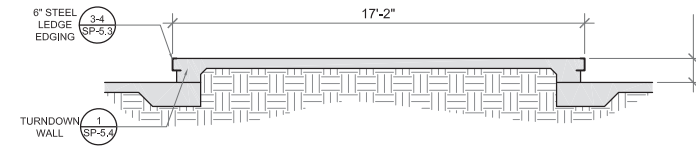
PLOT NAME: -----

REV. DATE: -----

33 SECTION SCALE 1/4" = 1'-0"

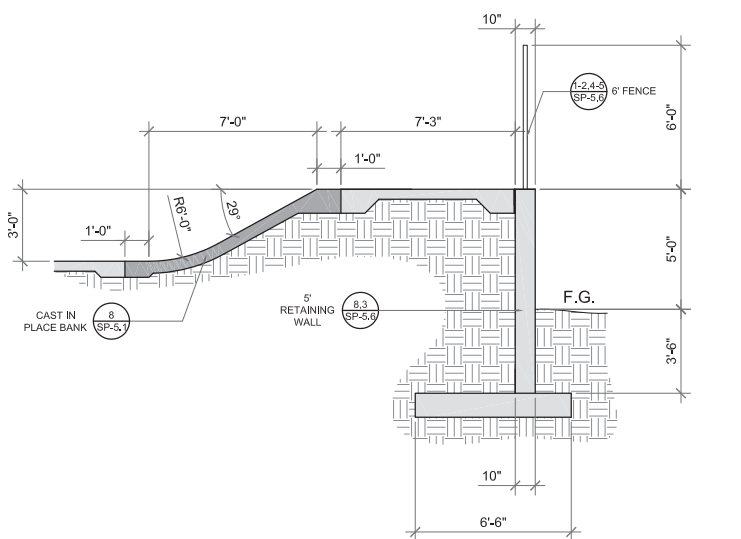


34 SECTION SCALE 1/4" = 1'-0"

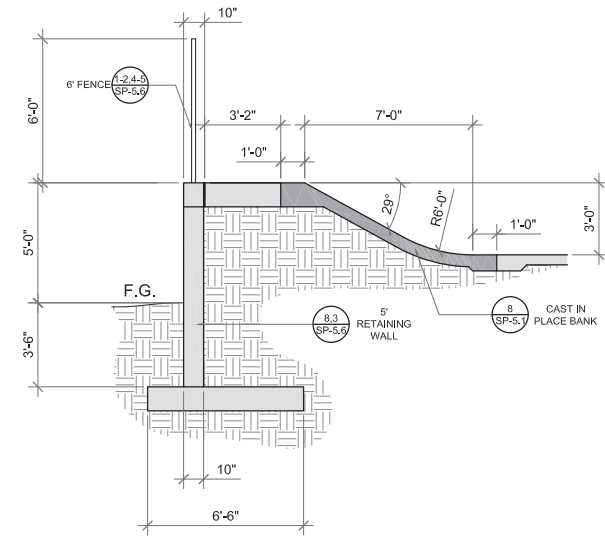


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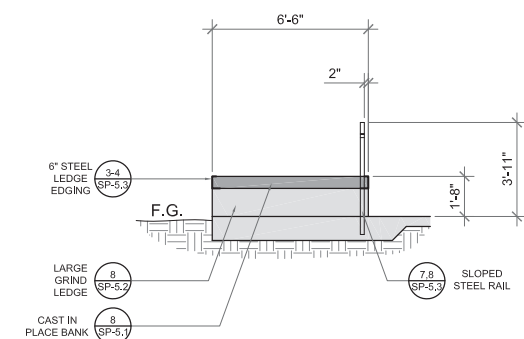
35 SECTION SCALE 1/4" = 1'-0"



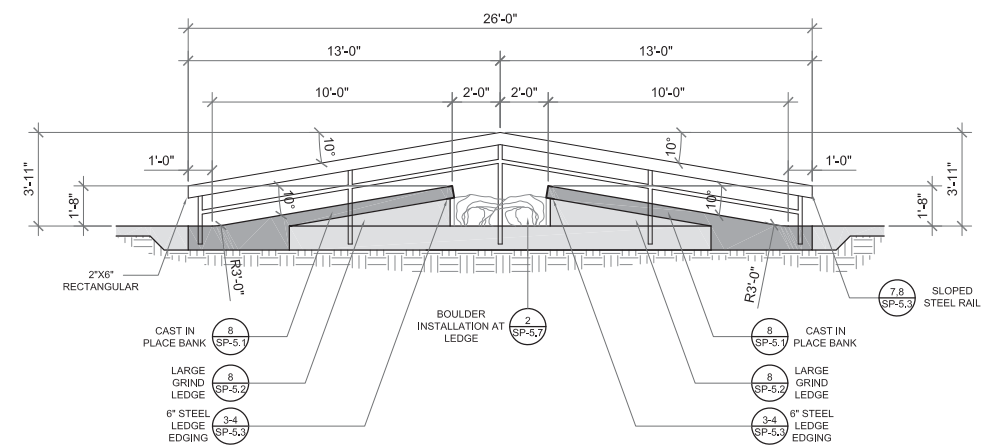
36 SECTION SCALE 1/4" = 1'-0"



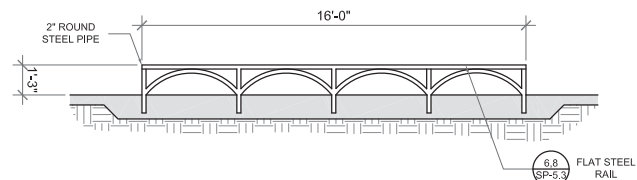
37 SECTION SCALE 1/4" = 1'-0"



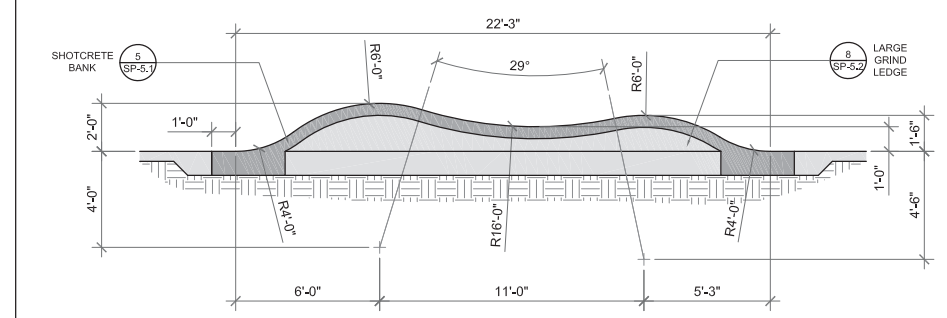
38 SECTION SCALE 1/4" = 1'-0"



39 SECTION SCALE 1/4" = 1'-0"



40 SECTION- BID ALTERNATE A SCALE 1/4" = 1'-0"



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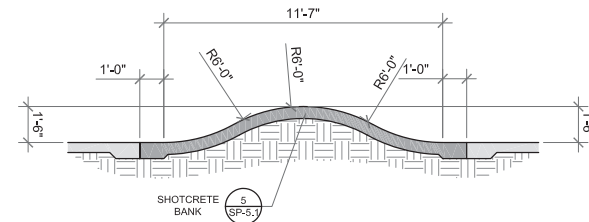
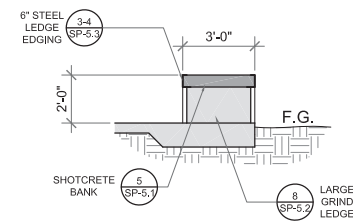
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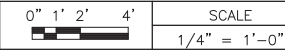
REFER TO SP-4.1 FOR KEY MAP

CONCRETE GENERAL/SPECIALTY WORK LEGEND

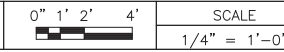
- CONCRETE WORK TO BE PERFORMED BY GENERAL CONTRACTOR
- CONCRETE WORK TO BE PERFORMED BY SKATE PARK SPECIALTY CONTRACTOR



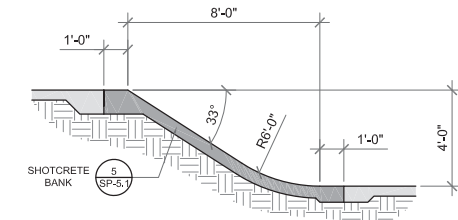
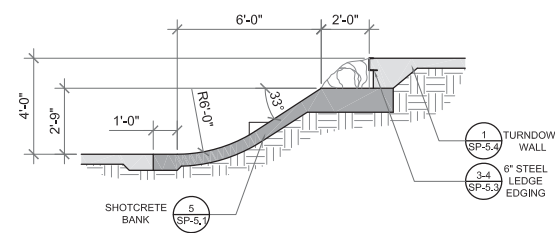
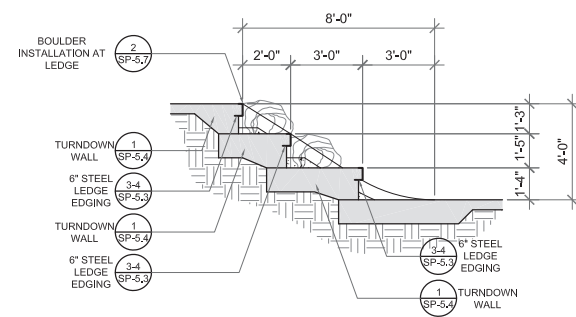
41 SECTION- BID ALTERNATE A



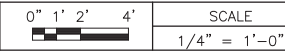
42 SECTION



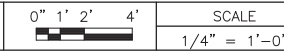
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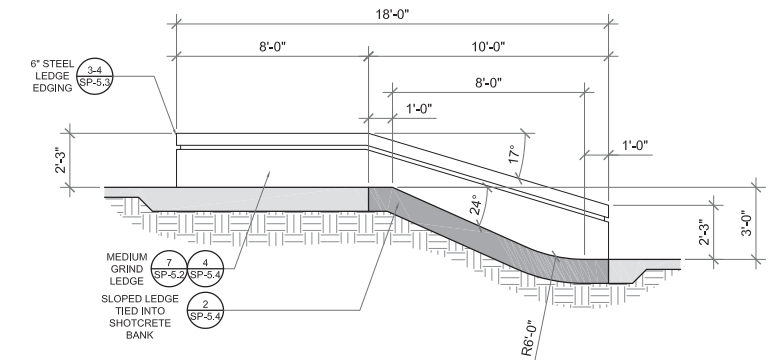
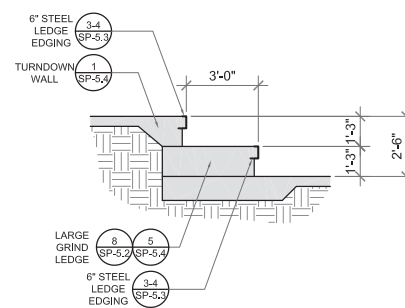
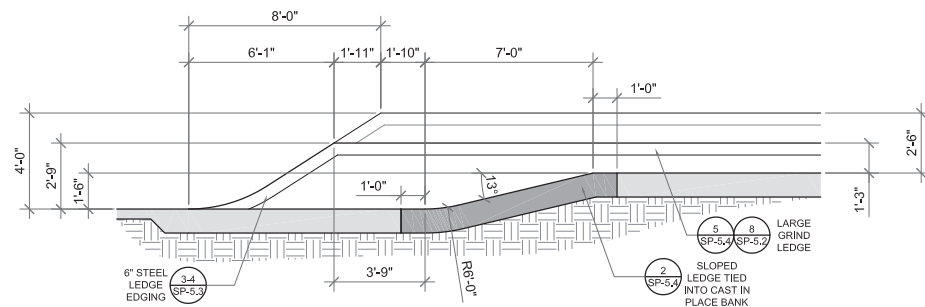
43 SECTION



44 SECTION



45 SECTION



46 SECTION



47 SECTION



48 SECTION



PLOT SCALE: -----

PLOT NAME: -----

REV. DATE: -----

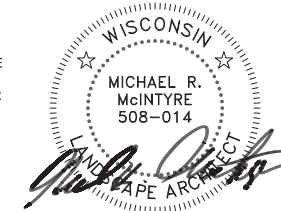
ORIGINATOR: CITY_OF_MADISON_STREETS_DIVISION

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CONCRETE GENERAL/SPECIALTY
WORK LEGEND

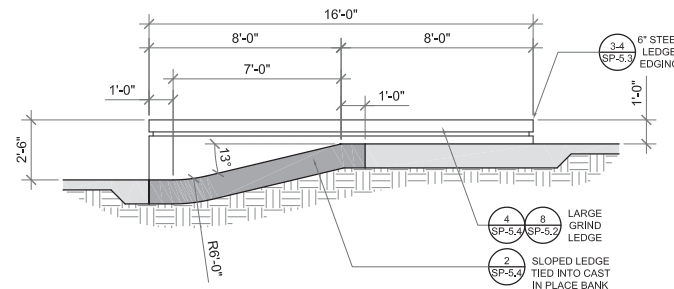
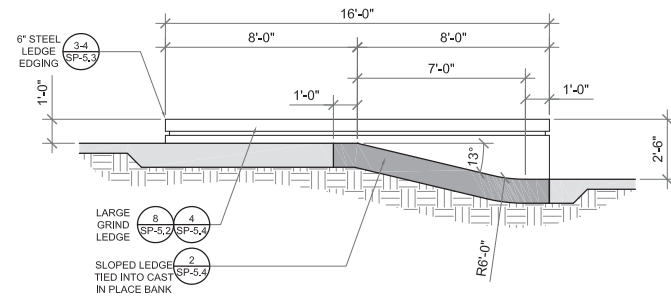
- CONCRETE WORK TO BE PERFORMED BY GENERAL CONTRACTOR
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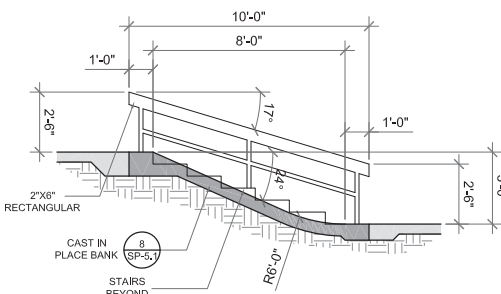
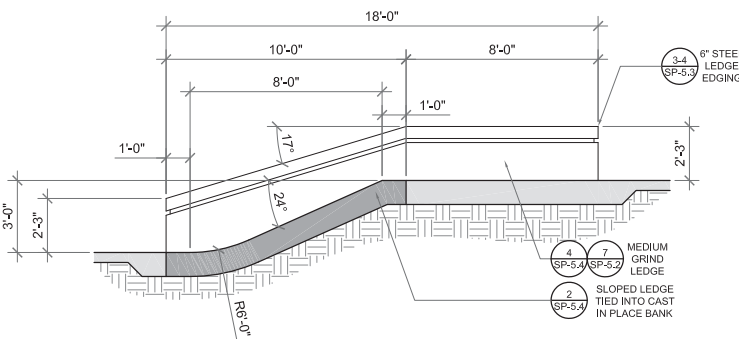
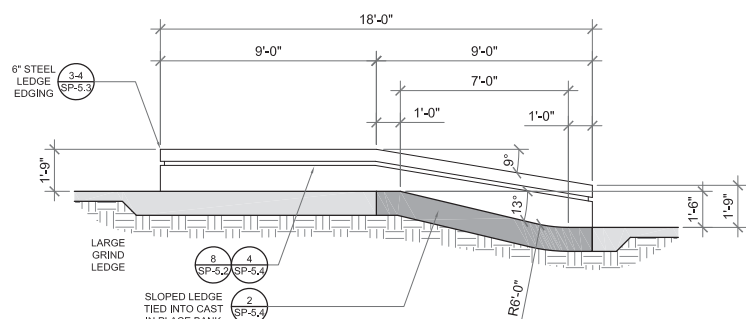
49 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

50 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

NOTES



51 SECTION

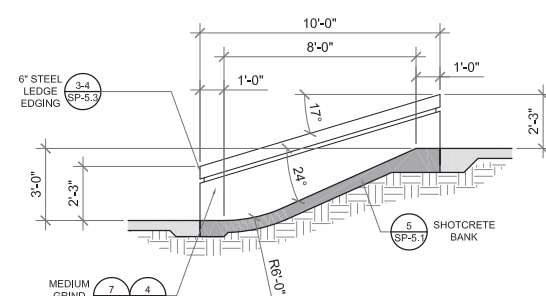
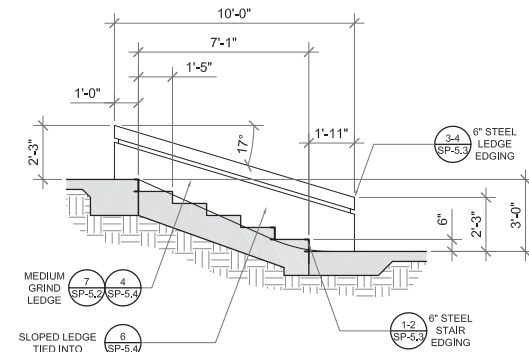
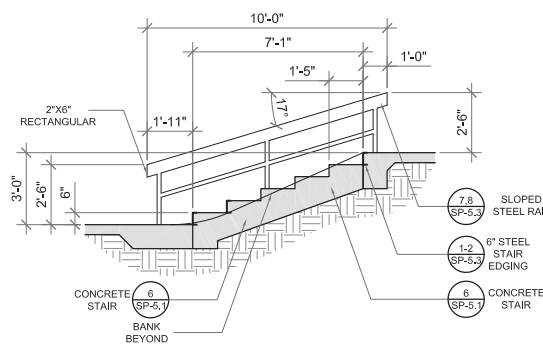
0" 1' 2' 4' SCALE
1/4" = 1'-0"

52 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

53 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"



54 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

55 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

56 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

PLOT SCALE: -----

PLOT NAME: -----

REV. DATE: -----

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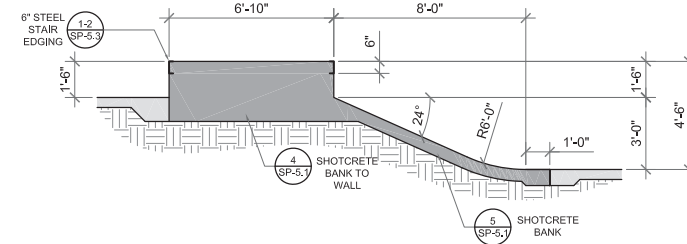
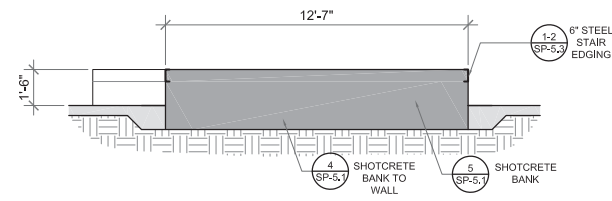
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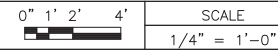
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CONCRETE GENERAL/SPECIALTY WORK LEGEND

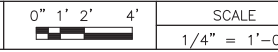
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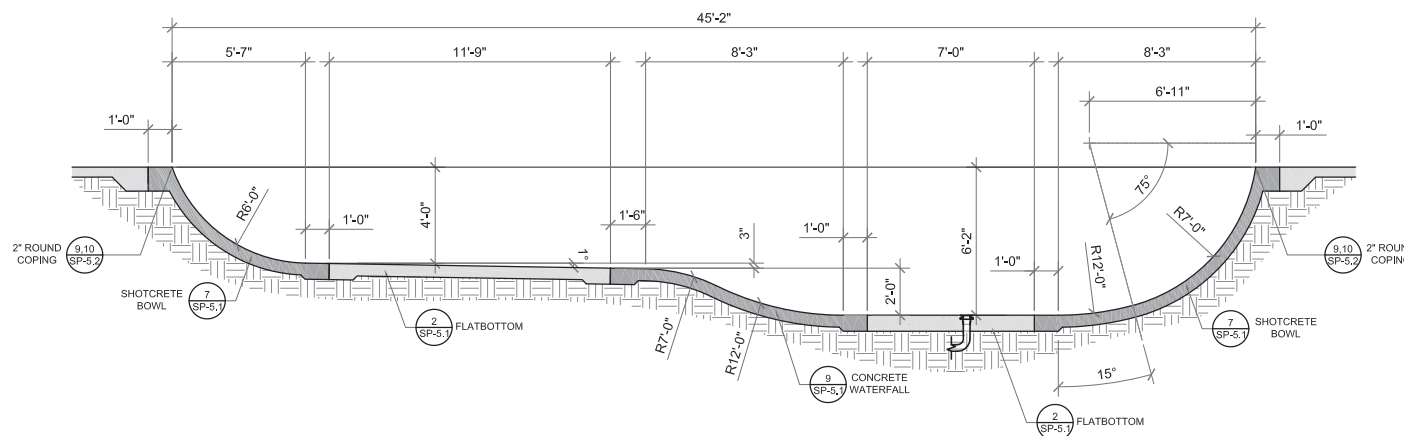
57 SECTION



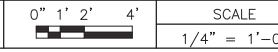
58 SECTION



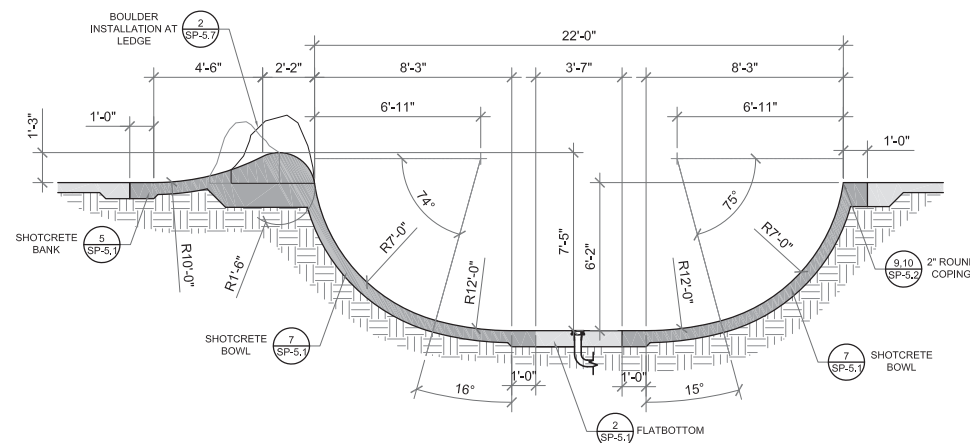
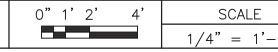
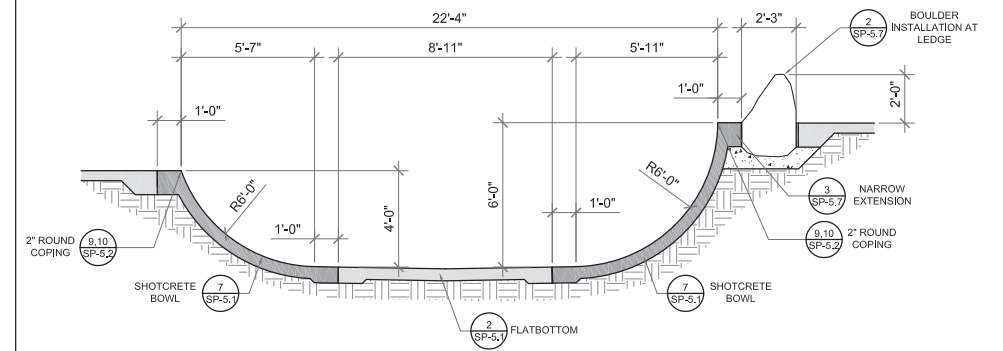
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59 SECTION



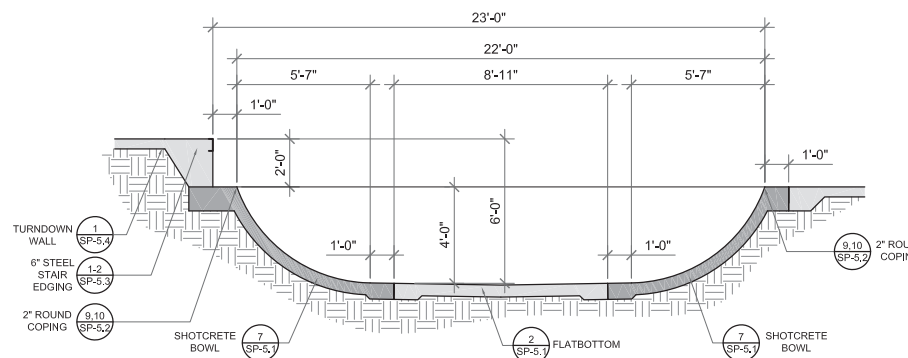
60 SECTION



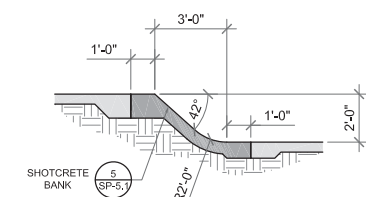
61 SECTION



62 SECTION



63 SECTION- BID ALTERNATE B



PLOT SCALE: -----

PLOT NAME: -----

REV. DATE: -----

SKATE PARK - SECTIONS/ PROFILES

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CONCRETE GENERAL/SPECIALTY
WORK LEGEND

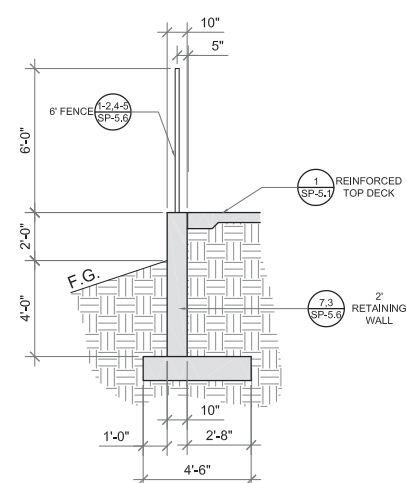
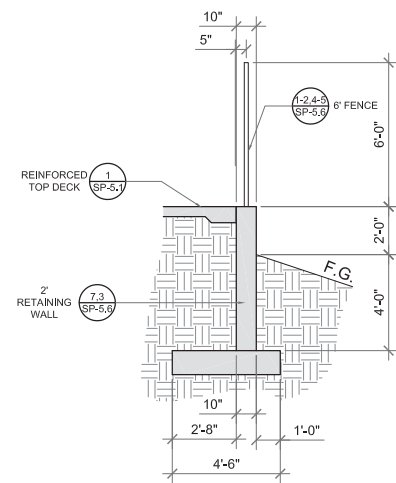
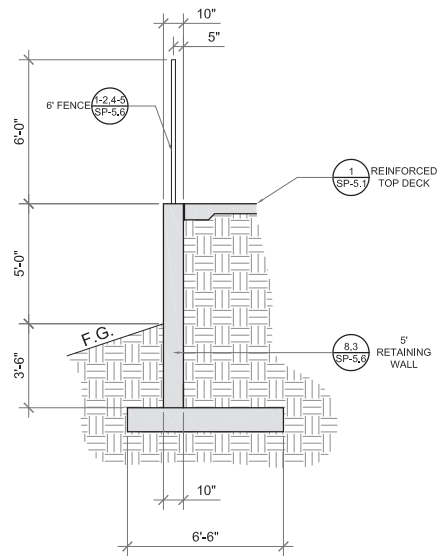
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64 SECTION

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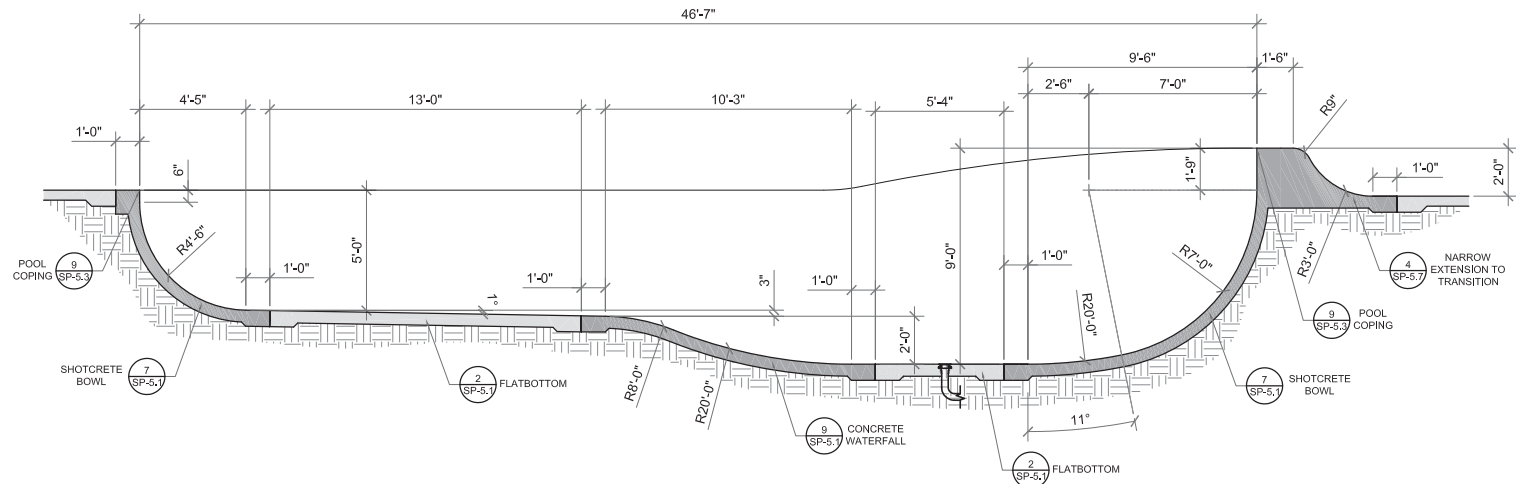
65 SECTION

0" 1' 2' 4' SCALE
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66 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

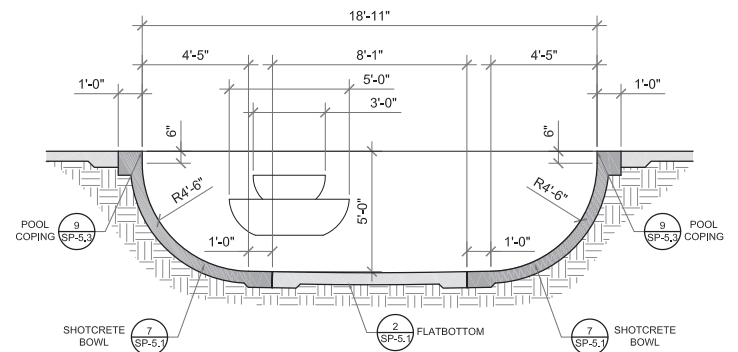
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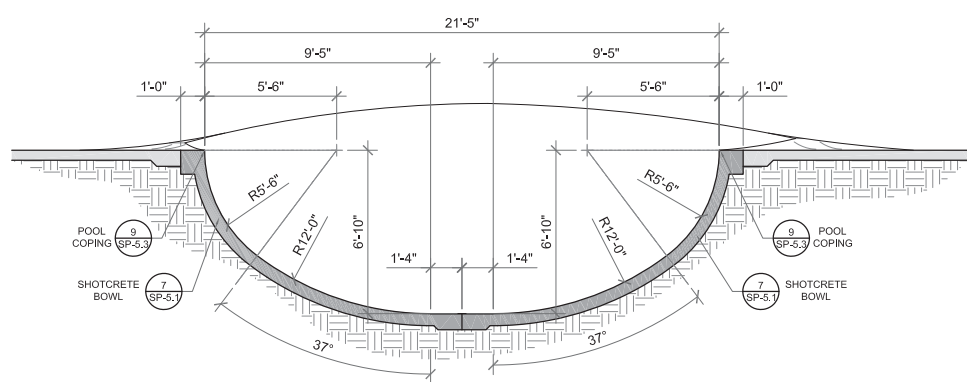
67 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

68 SECTION



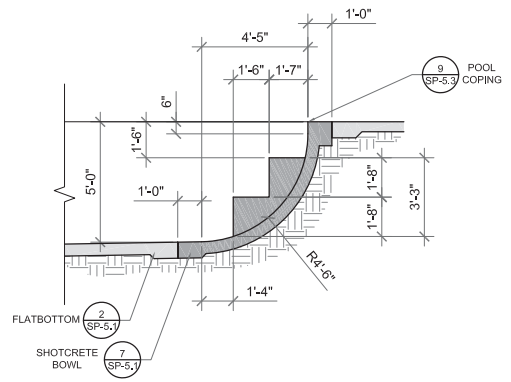
0" 1' 2' 4' SCALE
1/4" = 1'-0"



69 SECTION

0" 1' 2' 4' SCALE
1/4" = 1'-0"

70 SECTION



0" 1' 2' 4' SCALE
1/4" = 1'-0"

SECTION

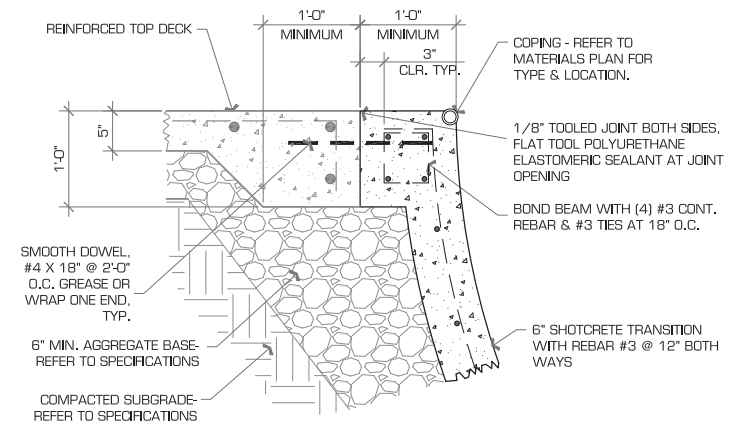
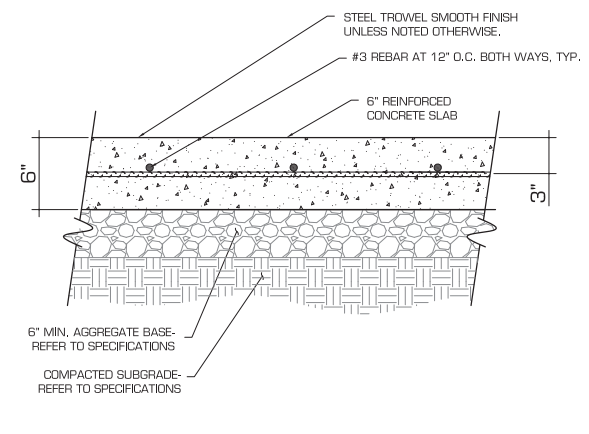
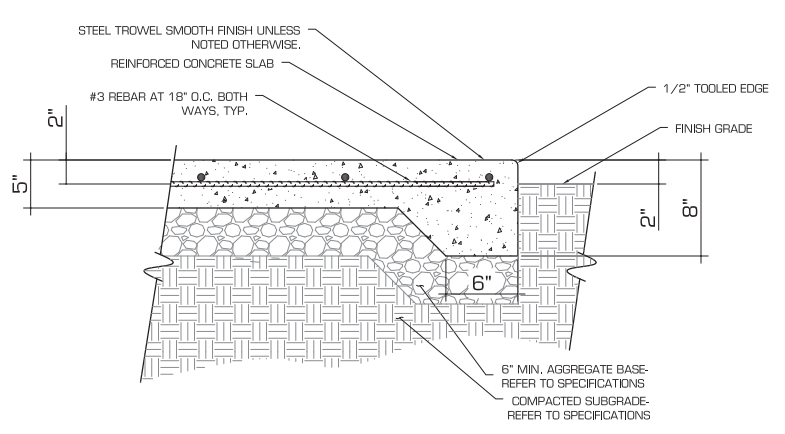
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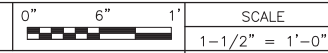
REV. DATE: -----

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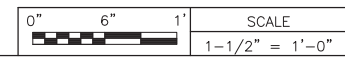
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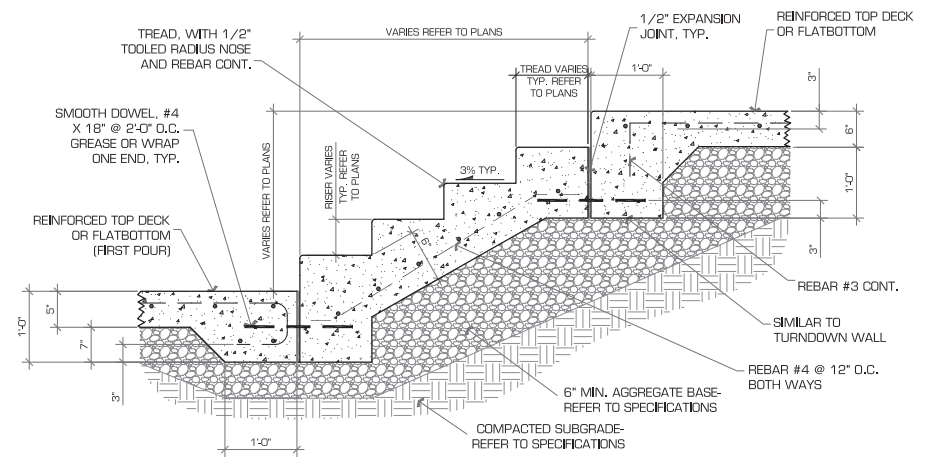
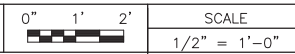
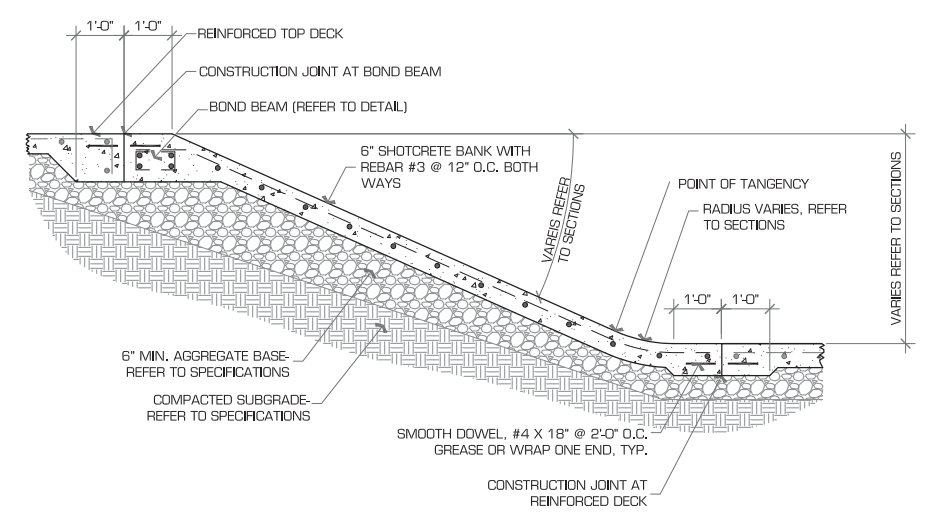
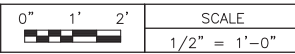
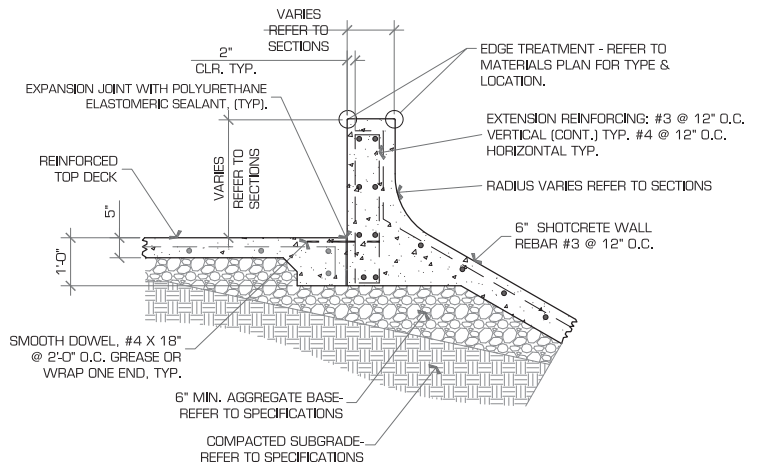
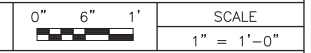
1 Top Deck Concrete Slab



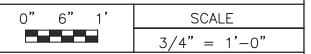
2 Flatbottom Concrete Slab



3 Typical Bond Beam



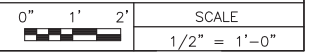
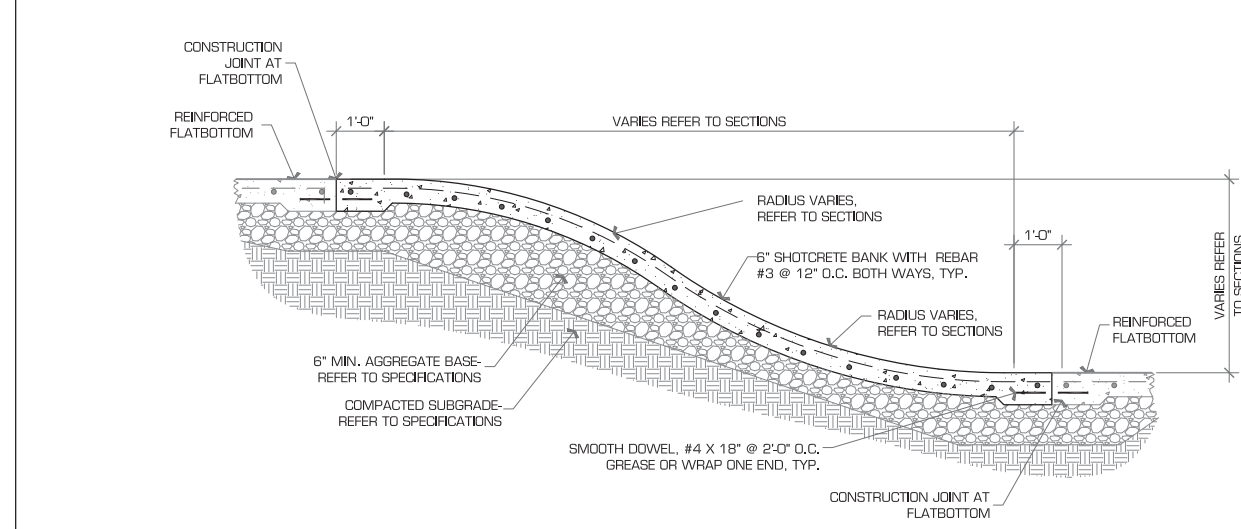
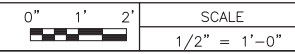
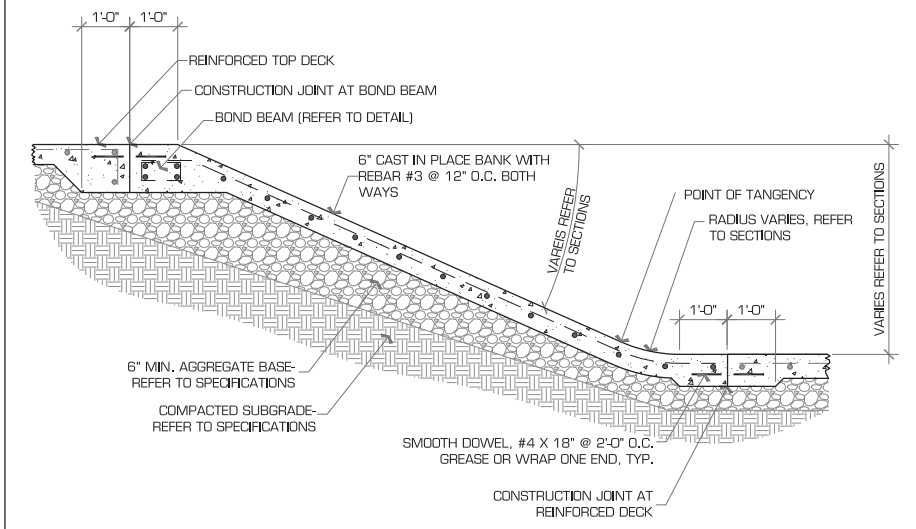
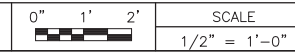
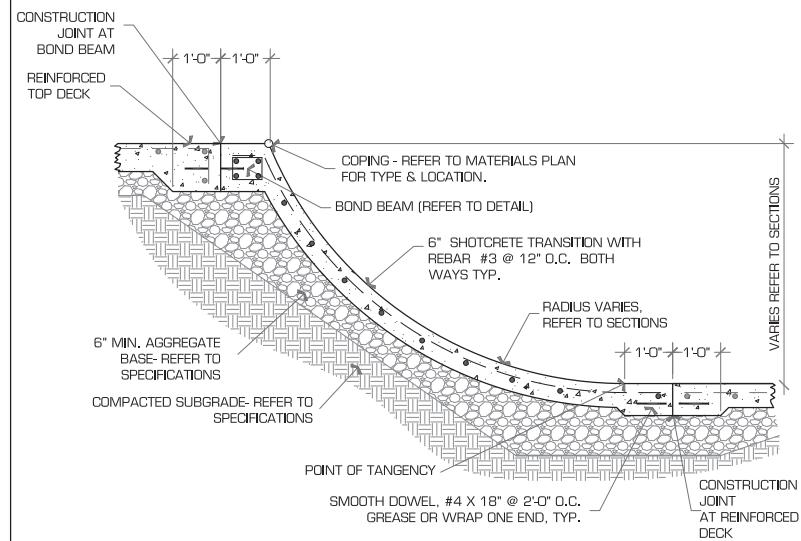
NOTES:
REFER TO PLAN FOR STEP LOCATION.
CONTRACTOR TO ADJUST TOP AND BOTTOM TREAD, AND NUMBER OF RISERS AS PER PLAN.
ONLY TREADS TO RECEIVE A LIGHT BROOM FINISH.



4 Typical Bank to Wall

5 Typical Shotcrete Concrete Bank

6 Typical Concrete Stair



7 Typical Concrete Bowl

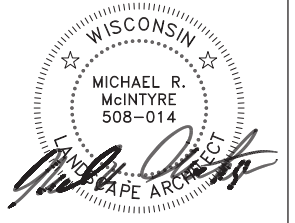
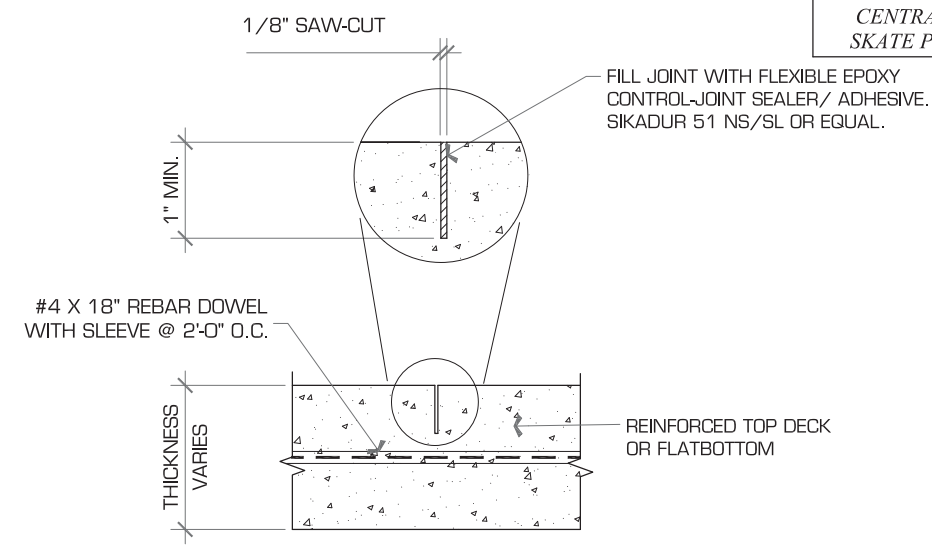
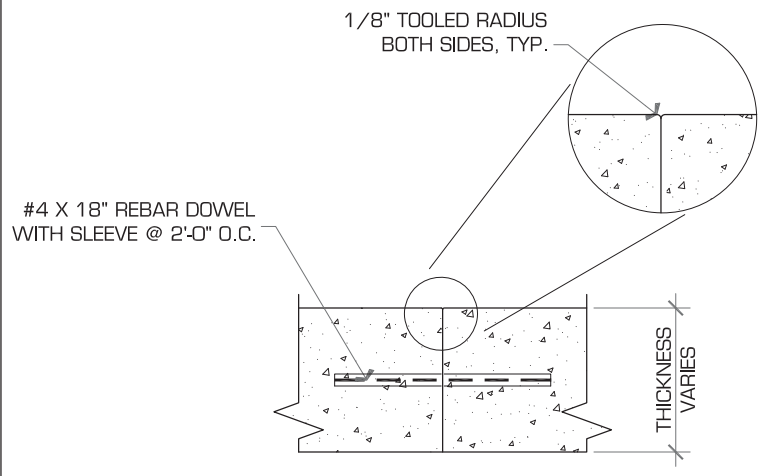
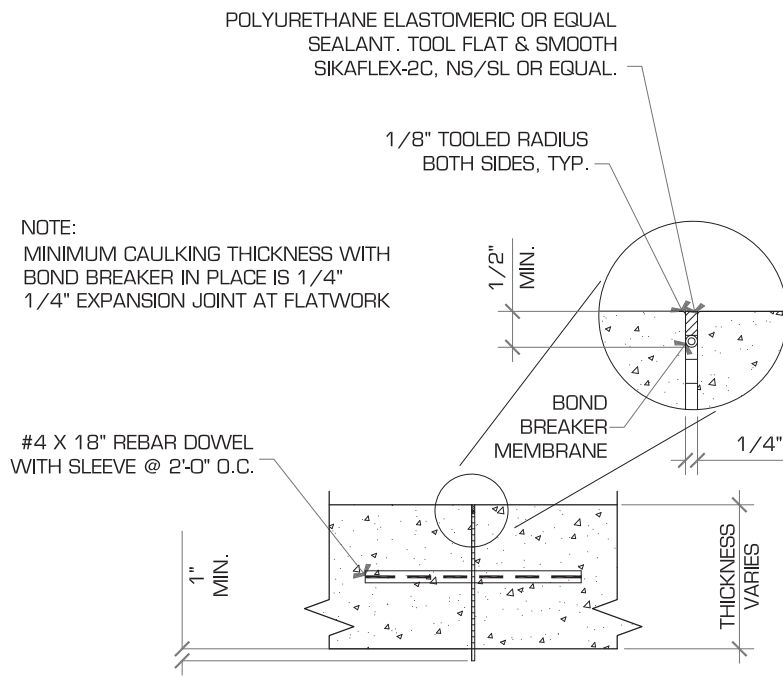
8 Typical Cast In Place Concrete Bank

9 Typical Concrete Water Fall

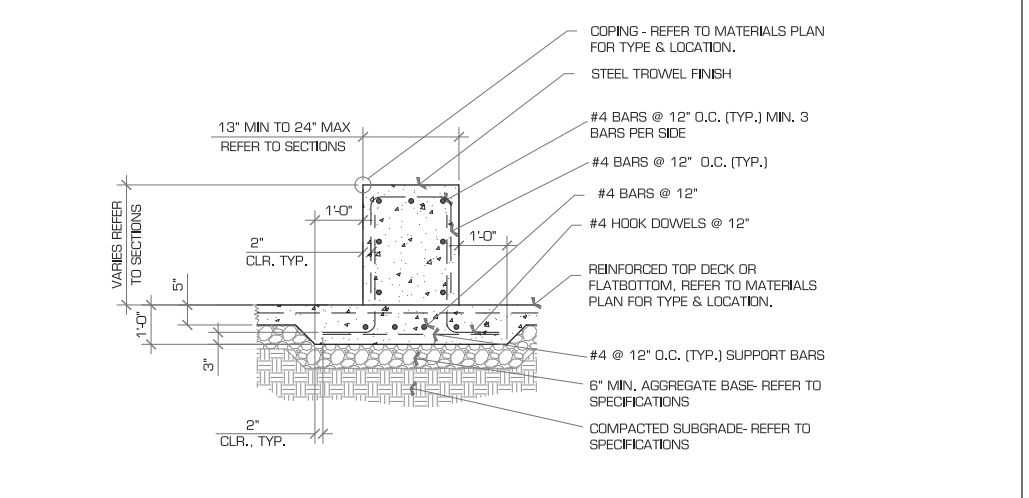
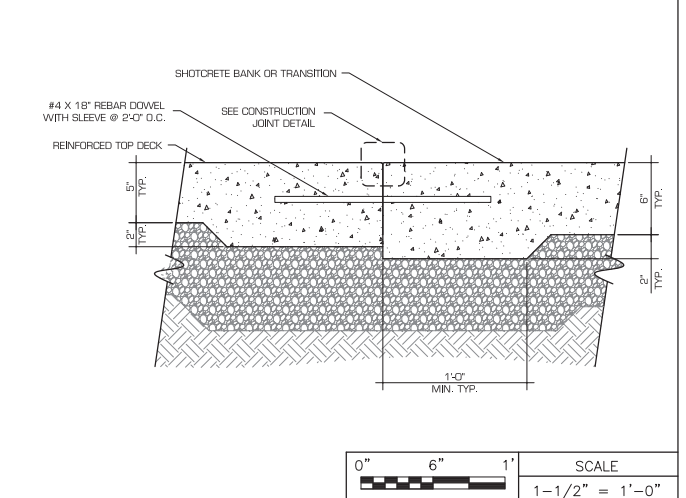
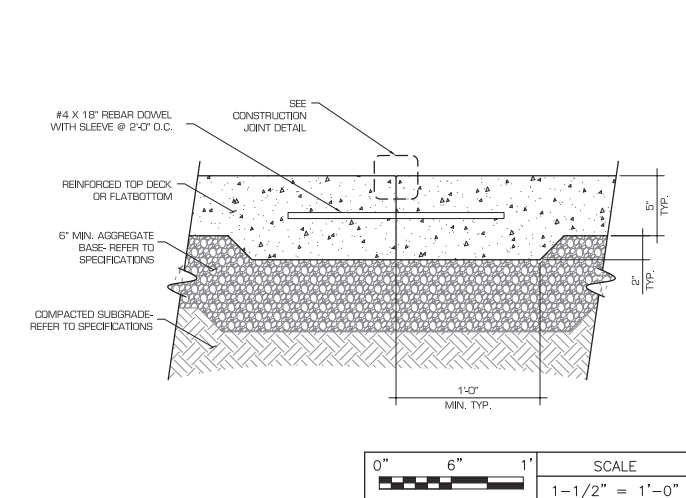
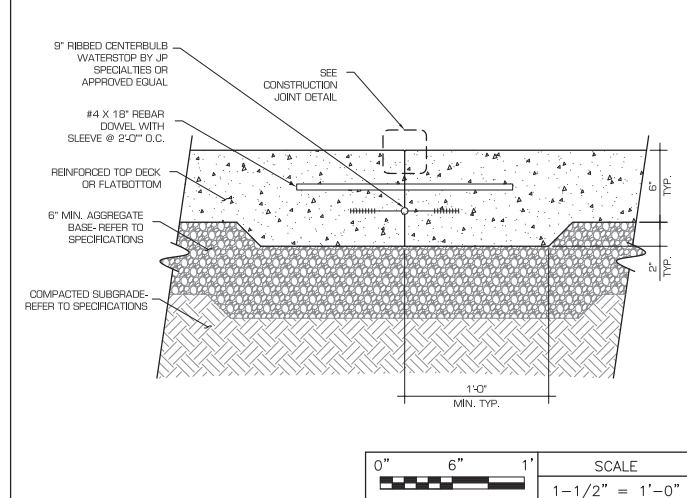
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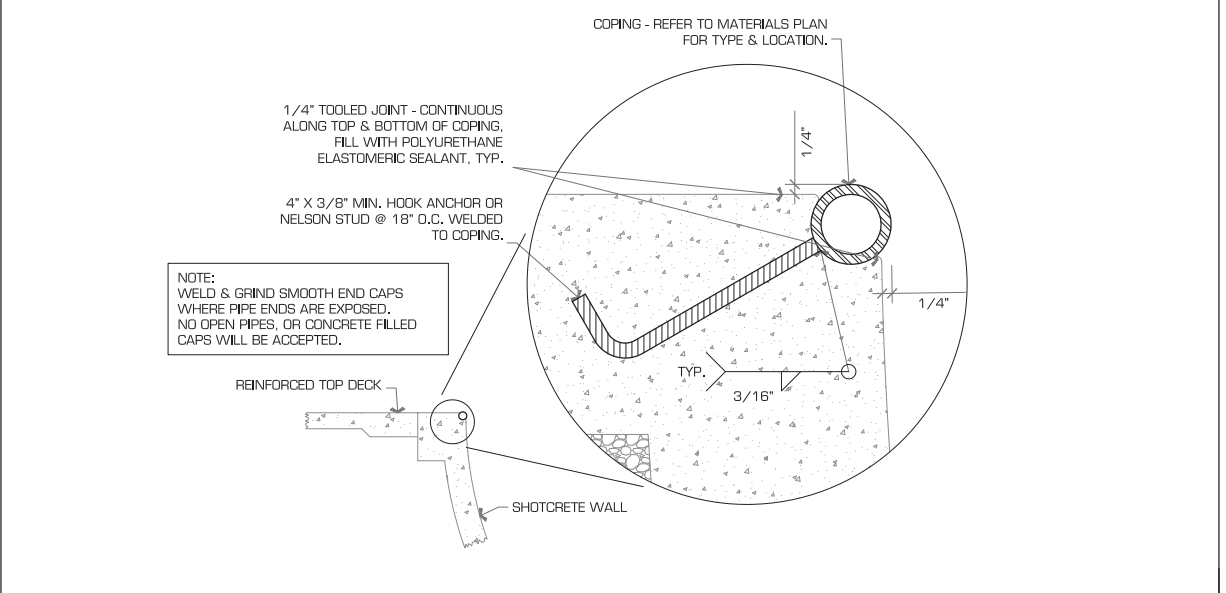
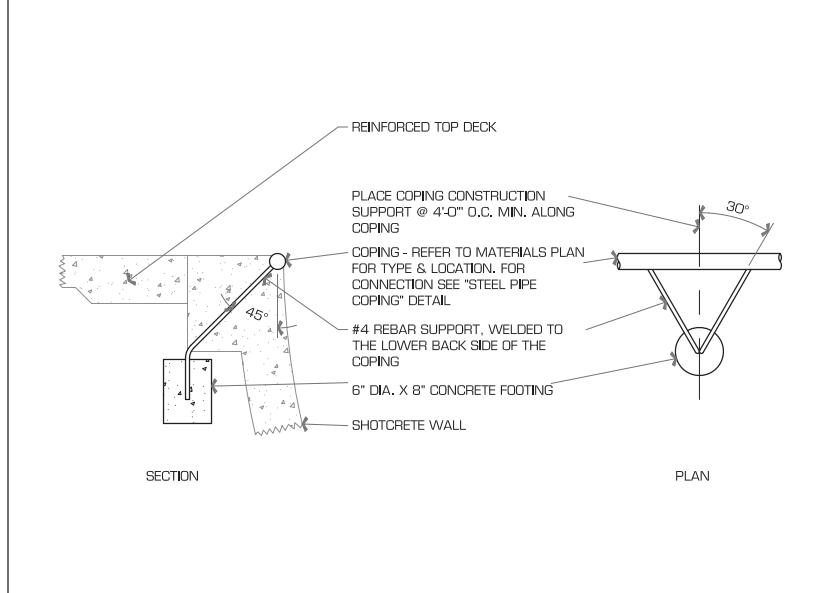
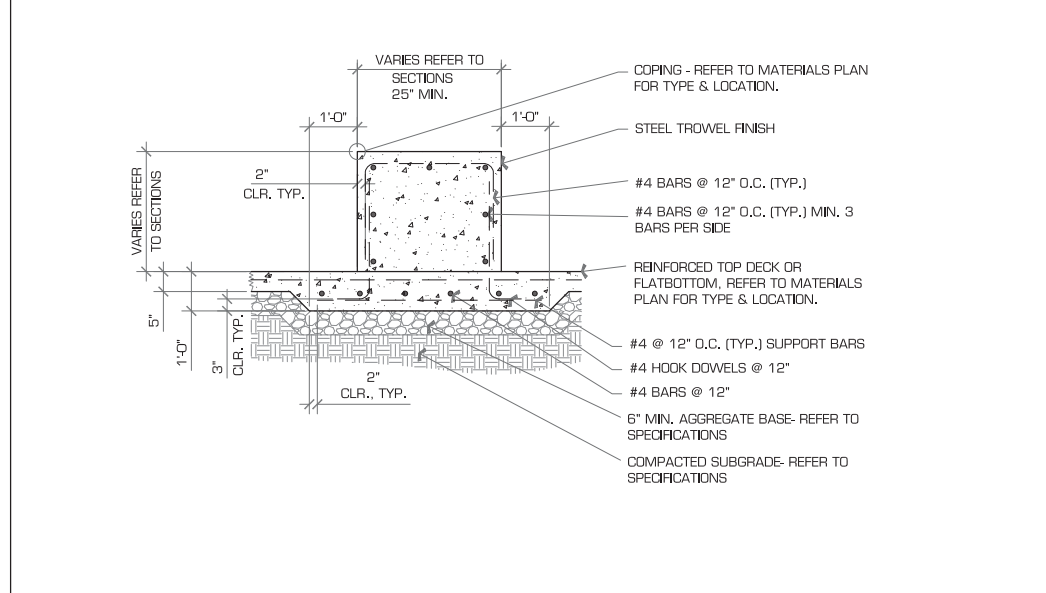
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MICHAEL R. McINTYRE
508-014

1 Expansion Joint at Flatwork **2 Construction Joint at Flatwork** **3 Sawcut Joint at Flatwork**

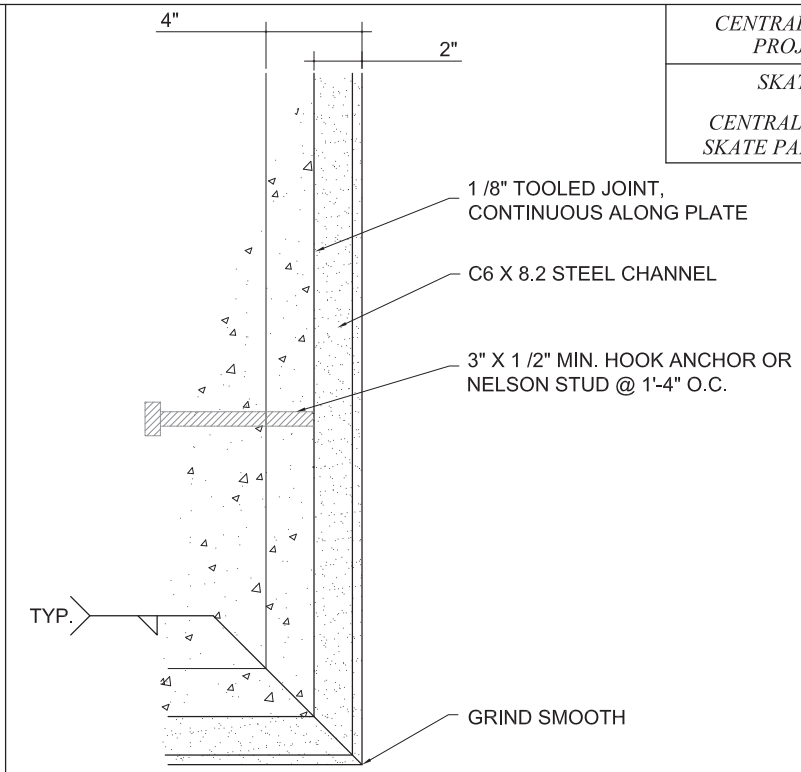
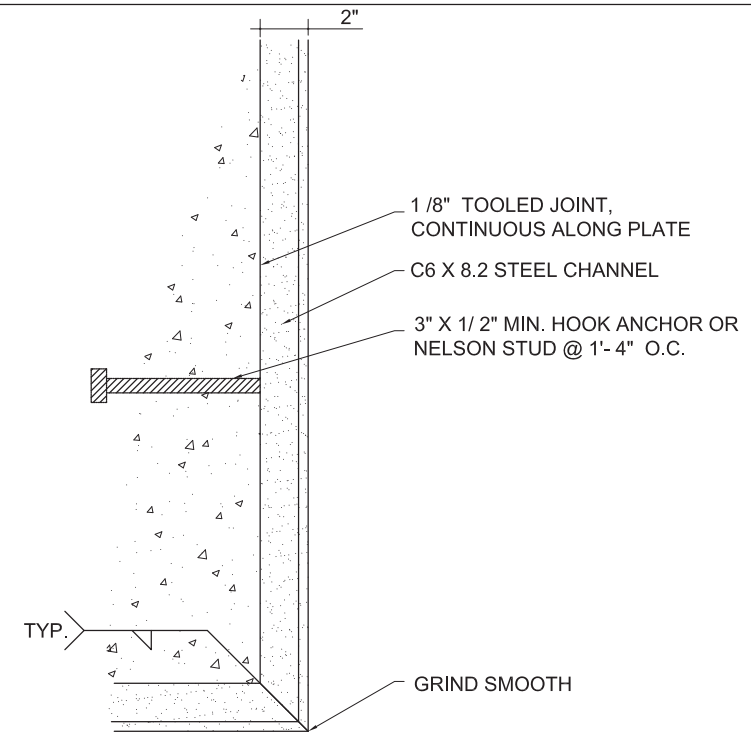
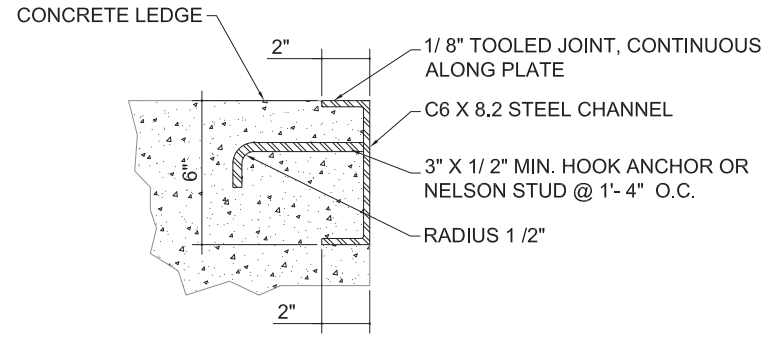
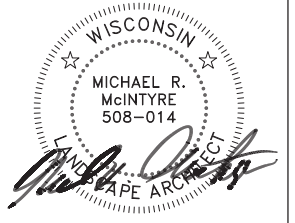


4 Construction Joint at 6 inch Slab **5 Construction Joint at 5 inch Slab** **6 Construction Joint at 5 inch to 6 inch Slab** **7 Medium Grind Ledge**

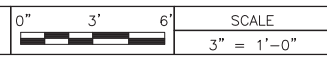


8 Large Grind Ledge **9 Typical Coping Support** **10 Round Coping**

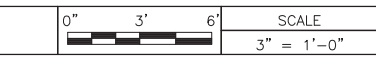
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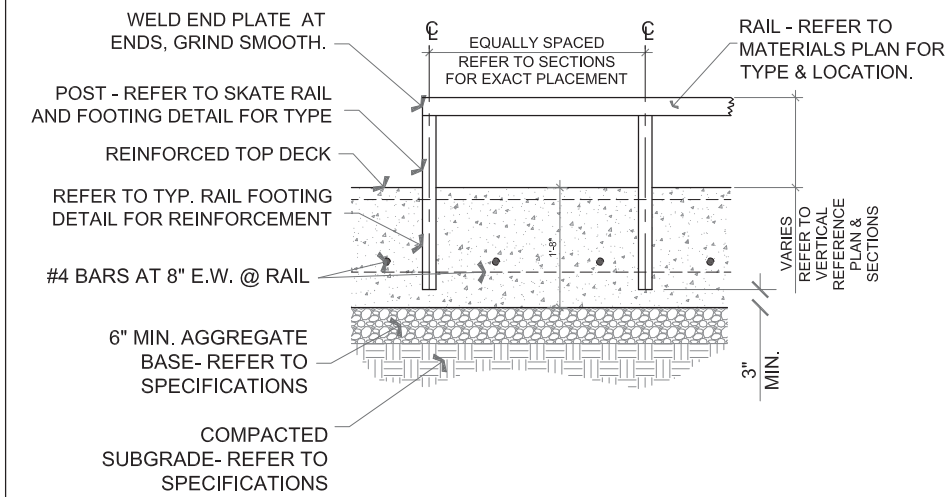
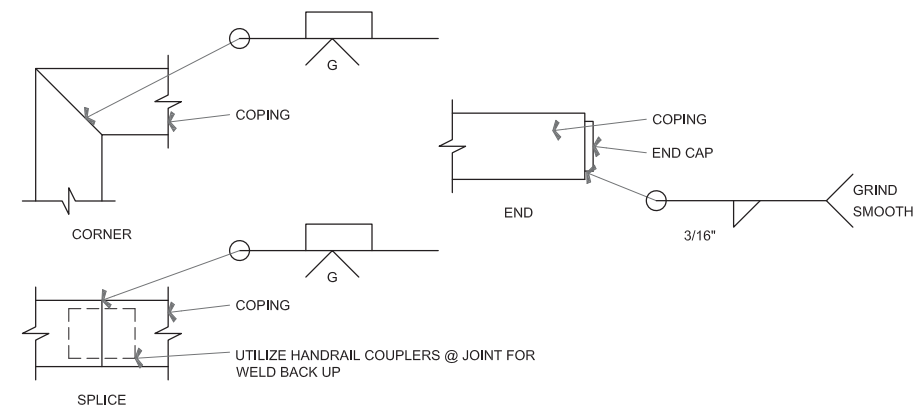
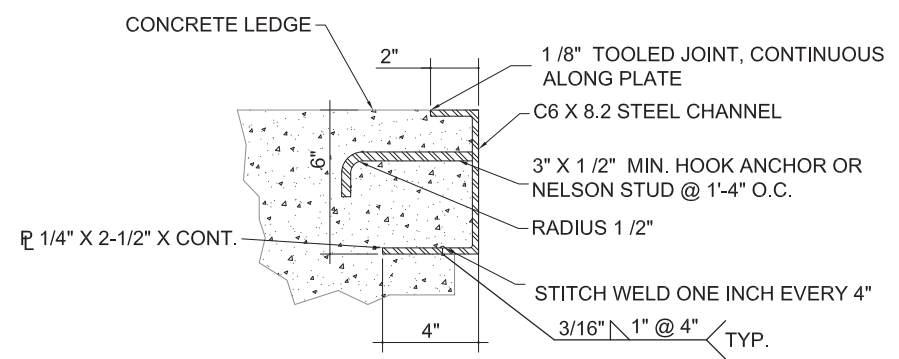
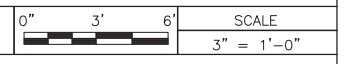
1 6" Steel Stair Edging Detail- Section



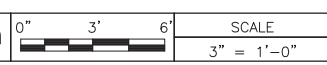
2 6" Steel Stair Edging Detail- Plan



3 6" Steel Ledge Edging Detail- Plan



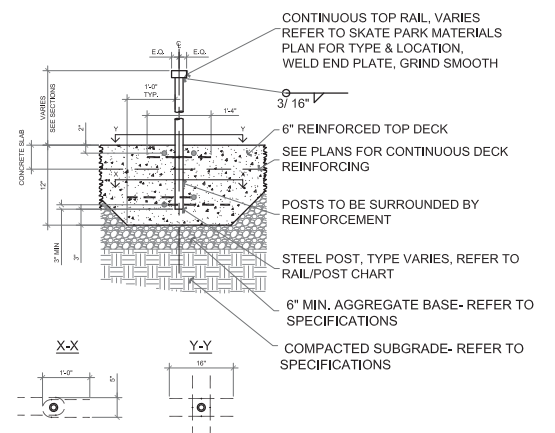
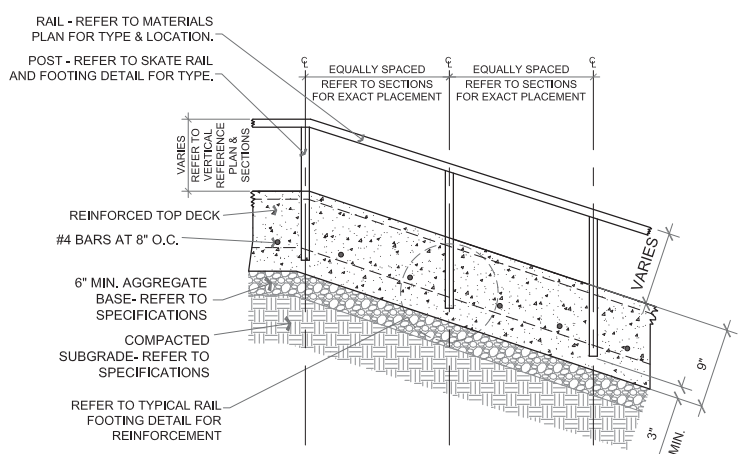
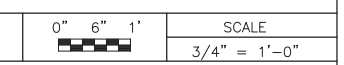
4 6" Steel Ledge Edging Detail- Section



5 Typical Coping Joints

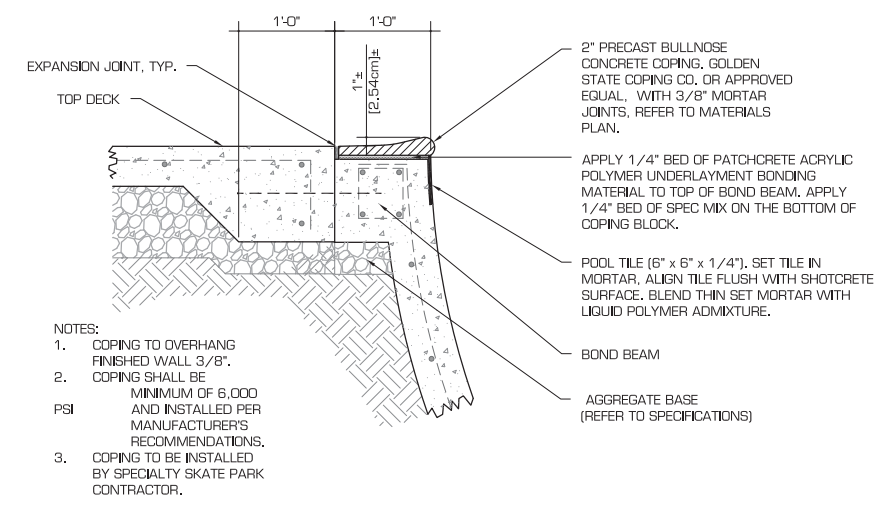
NTS

6 Flat Steel Rail

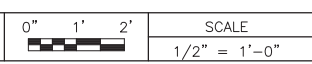


rail/post chart	
ROUND PIPE	
RAIL	POST
3" ROUND	2-1/2" ROUND
3-1/2" ROUND	2-1/2" ROUND
4" ROUND	2-1/2" ROUND
HORIZONTAL FLAT BAR	
RAIL	POST
2" X 3" SQUARE	2" ROUND
2" X 6" SQUARE	2" X 2" SQUARE
2" X 8" SQUARE	2" X 2" SQUARE
3" X 3" SQUARE	2-1/2" ROUND
4" X 4" SQUARE	3" ROUND
VERTICAL FLAT BAR	
RAIL	POST
2-1/2" X 4" SQUARE	2" X 2" SQUARE
3" X 5" SQUARE	2-1/2" ROUND
4" X 6" SQUARE	3" ROUND

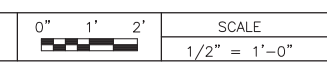
USE THESE RAIL/POST COMBINATIONS UNLESS OTHERWISE NOTED.



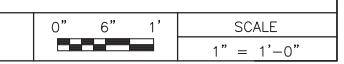
7 Sloped Steel Rail



8 Typical Rail Footing



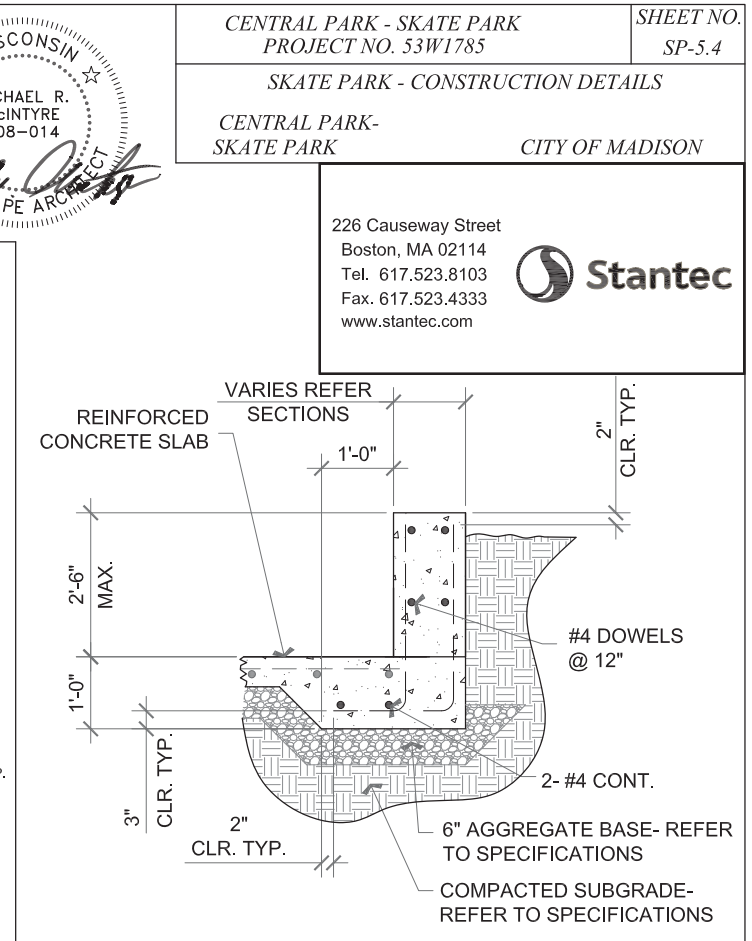
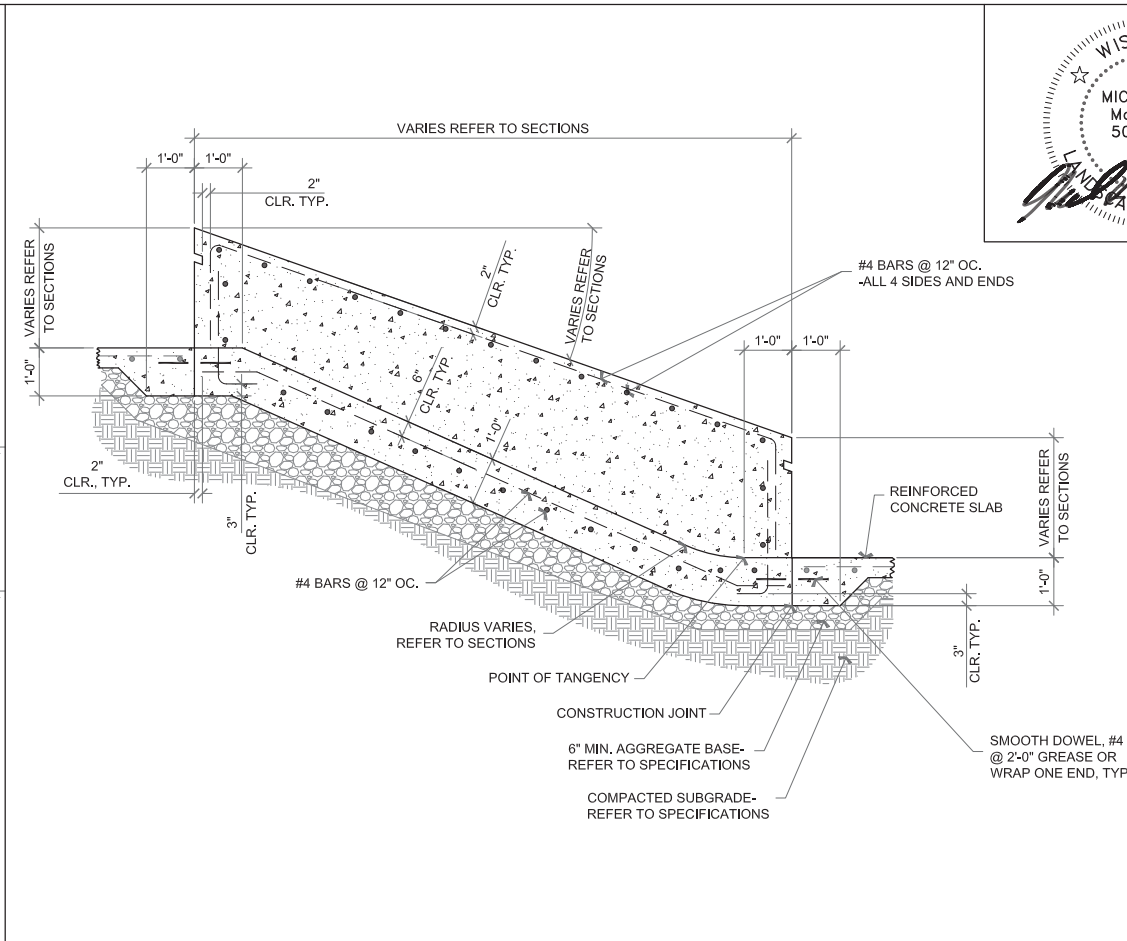
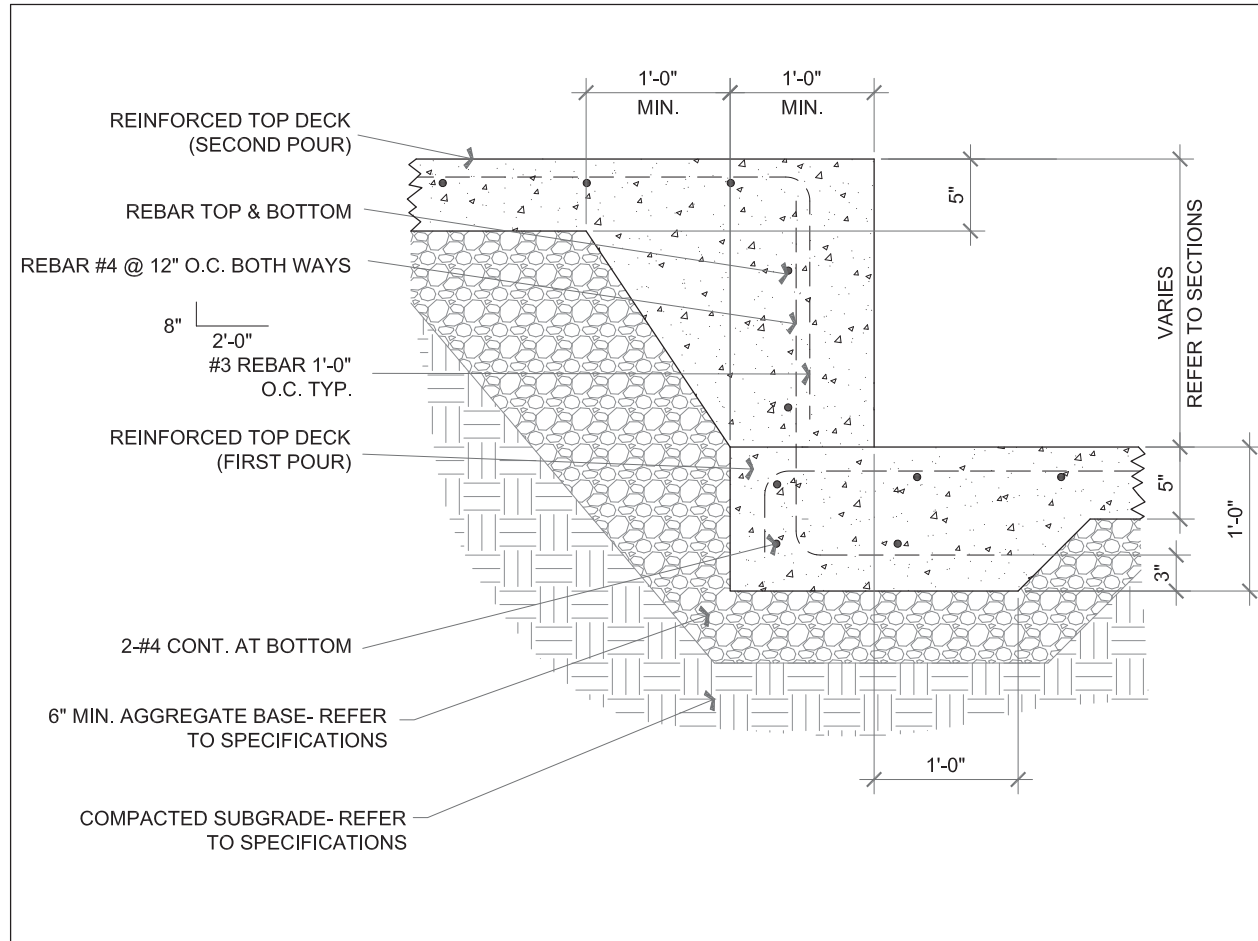
9 Pool Coping



ORIGINATOR: CITY OF MADISON, STREETS DIVISION



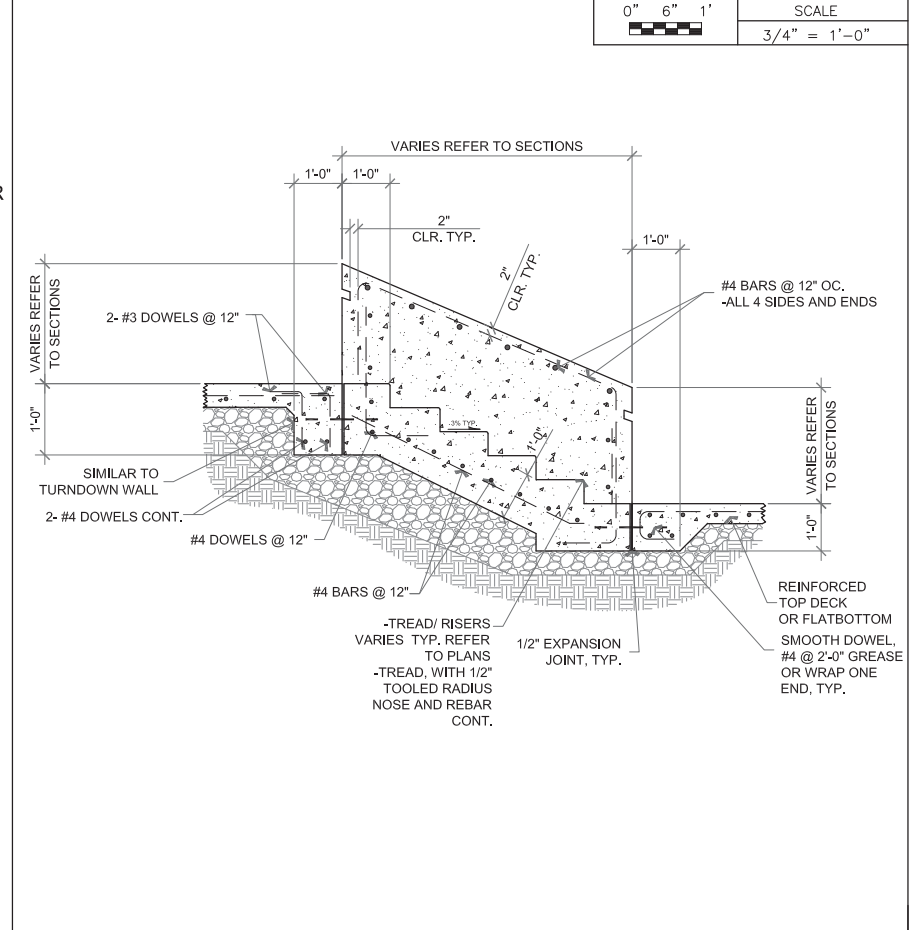
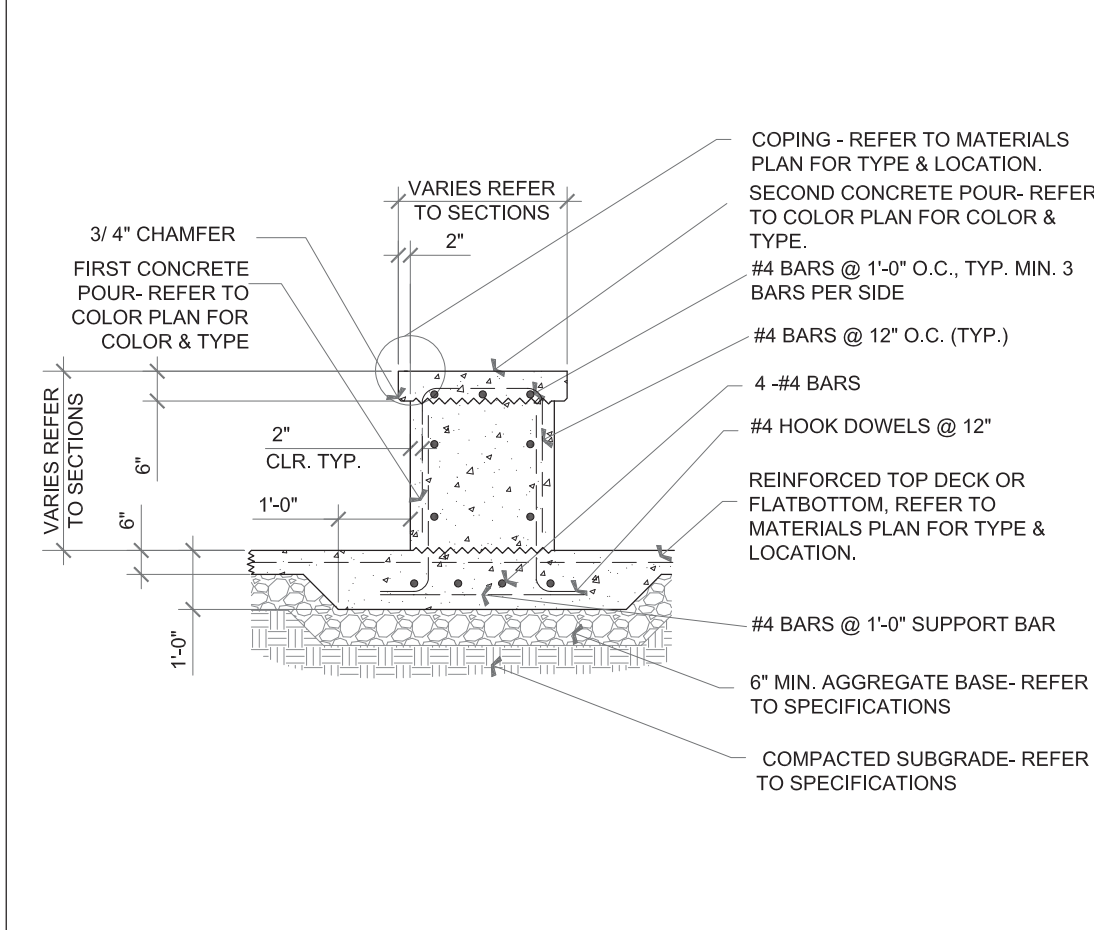
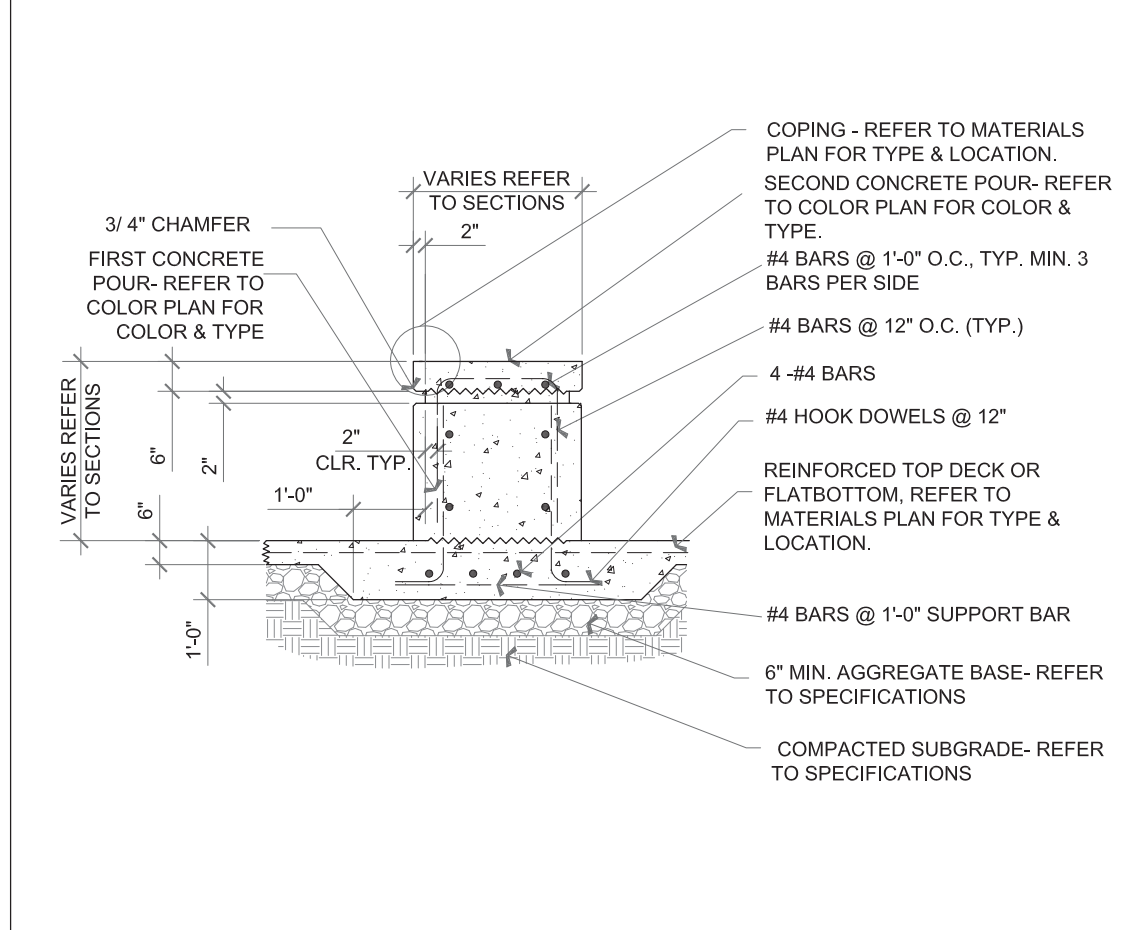
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1 Typical Turndown Wall SCALE 1-1/2" = 1'-0"

2 Sloped Ledge Tied into Bank SCALE 1/2" = 1'-0"

3 Ledge At Bermed Landscape SCALE 3/4" = 1'-0"

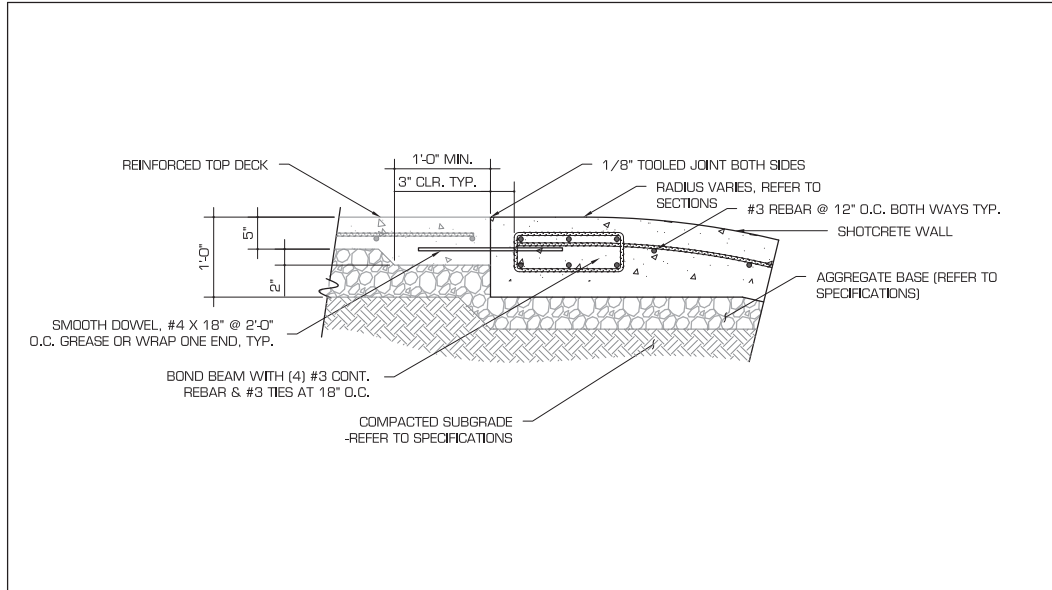


4 Capped Ledge- Type 1 SCALE 3/4" = 1'-0"

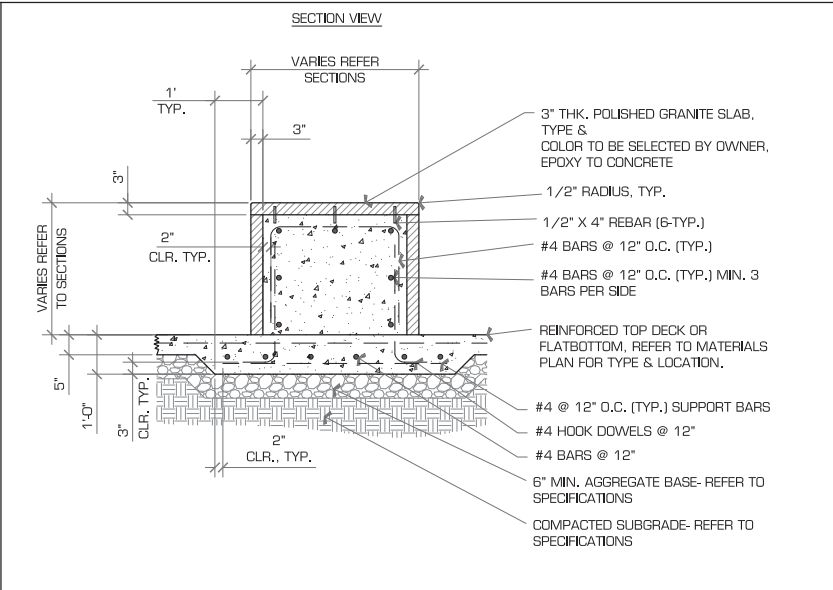
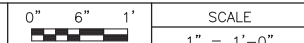
5 Capped Ledge- Type 2 SCALE 3/4" = 1'-0"

6 Sloped Ledge Tied Into Stairs SCALE 1/2" = 1'-0"

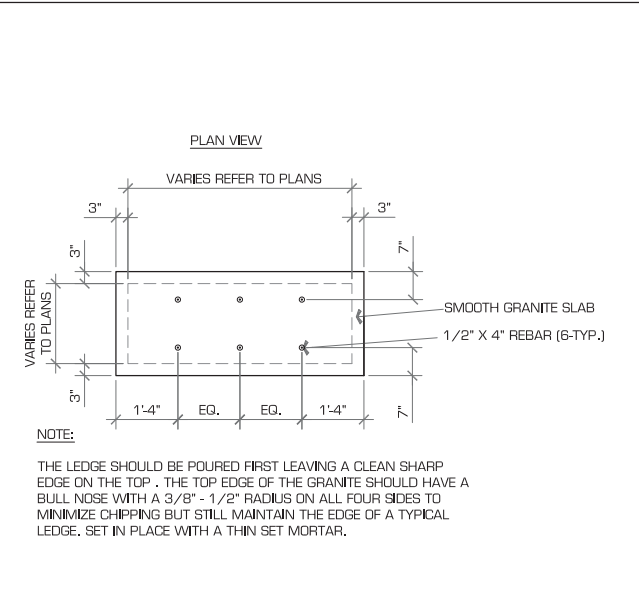
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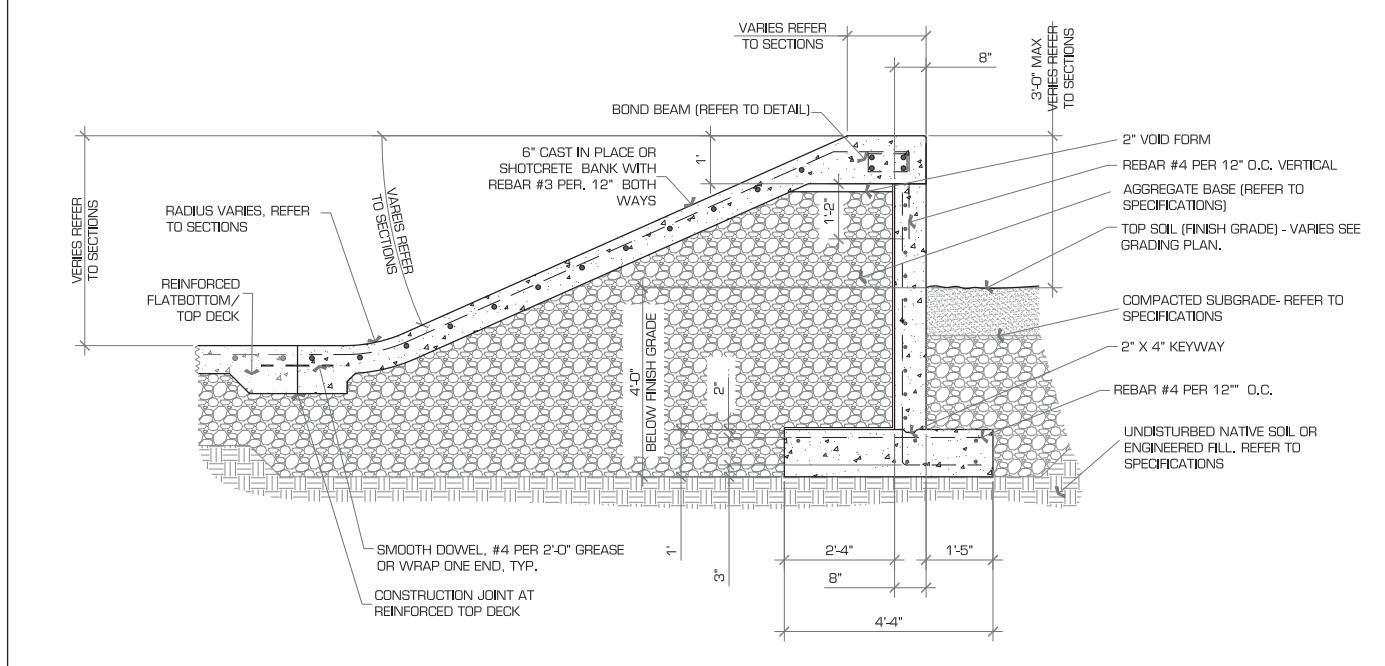
1 Bond Beam With Radius Edge



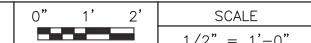
2 Granite Capped Ledge



NOTE:
THE LEDGE SHOULD BE POURED FIRST LEAVING A CLEAN SHARP EDGE ON THE TOP. THE TOP EDGE OF THE GRANITE SHOULD HAVE A BULL NOSE WITH A 3/8" - 1/2" RADIUS ON ALL FOUR SIDES TO MINIMIZE CHIPPING BUT STILL MAINTAIN THE EDGE OF A TYPICAL LEDGE. SET IN PLACE WITH A THIN SET MORTAR.



3 Retaining Wall Under Bank



REBAR DEVELOPMENT LENGTHS

Rebar Size	3000psi NW Concrete			4000psi		
	English	Metric	Idh	English	Metric	Idh
#3	#10	21" [53.34cm]	16" [40.64cm]	8" [20.32cm]	18" [45.72cm]	14" [35.56cm]
#4	#13	28" [71.12cm]	22" [55.88cm]	11" [27.94cm]	25" [63.50cm]	19" [48.26cm]
#5	#16	36" [91.44cm]	27" [68.58cm]	14" [35.56cm]	31" [78.74cm]	24" [60.96cm]
#6	#19	43" [109.22cm]	33" [83.82cm]	16" [40.64cm]	37" [93.98cm]	28" [71.12cm]
#7	#22	62" [157.48cm]	48" [121.92cm]	19" [48.26cm]	54" [137.16cm]	42" [106.68cm]
#8	#25	71" [180.34cm]	55" [139.70cm]	22" [55.88cm]	62" [157.48cm]	47" [119.38cm]
#9	#29	80" [203.20cm]	62" [157.48cm]	25" [63.50cm]	69" [175.26cm]	53" [134.62cm]
#10	#32	89" [226.06cm]	68" [172.72cm]	27" [68.58cm]	77" [195.58cm]	59" [149.86cm]
#11	#36	98" [248.92cm]	75" [190.50cm]	30" [76.20cm]	85" [215.90cm]	65" [165.10cm]

NOTES:
THESE LENGTHS APPLY TYPICALLY UNLESS NOTED OTHERWISE ON PLANS AND/OR DETAILS
CLEAR SPACING BETWEEN PARALLEL BARS MUST BE AT LEAST ONE BAR DIAMETER BUT NOT LESS THAN 1".
TOP BARS: HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW.
LIGHTWEIGHT CONCRETE: MULTIPLY VALUES IN TABLE BY 1.3
CLASS B SPLICE: Id x 1.3 LAP LENGTH. STAGGER SPLICES MIN. OF 24".

4 Rebar Development Length Chart

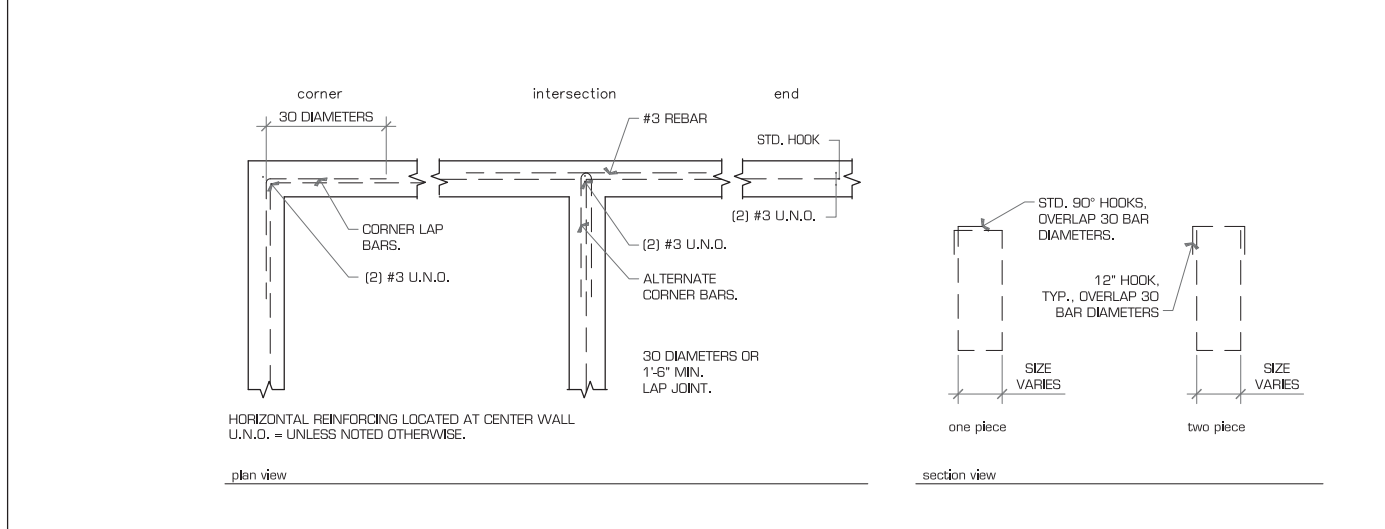
STEEL SHAPES CHART

Nominal Size	Round		Square		Rectangular	
	Actual Size	Imperial	Actual Size	Imperial	Actual Size	Imperial
2"	HSS 2.375 x 0.1875	2" X 2"	HSS 2.000 x 2.000 x 0.1875	2" X 2"	HSS 2.000 x 3.000 x 0.1875	2" X 3"
2-1/2"	HSS 2.875 x 0.1875	3" X 3"	HSS 3.000 x 3.000 x 0.1875	3" X 3"	HSS 2.000 x 6.000 x 0.1875	2" X 6"
3"	HSS 3.500 x 0.1875	3-1/2" X 3-1/2"	HSS 3.500 x 3.400 x 0.1875	3-1/2" X 3-1/2"	HSS 2.000 x 8.000 x 0.1875	2" X 8"
3-1/2"	HSS 4.000 x 0.1875	4" X 4"	HSS 4.000 x 4.000 x 0.1875	4" X 4"	HSS 2.500 x 4.000 x 0.1875	2-1/2" X 4"
4"	HSS 4.500 x 0.1875				HSS 3.000 x 5.000 x 0.1875	3" X 5"

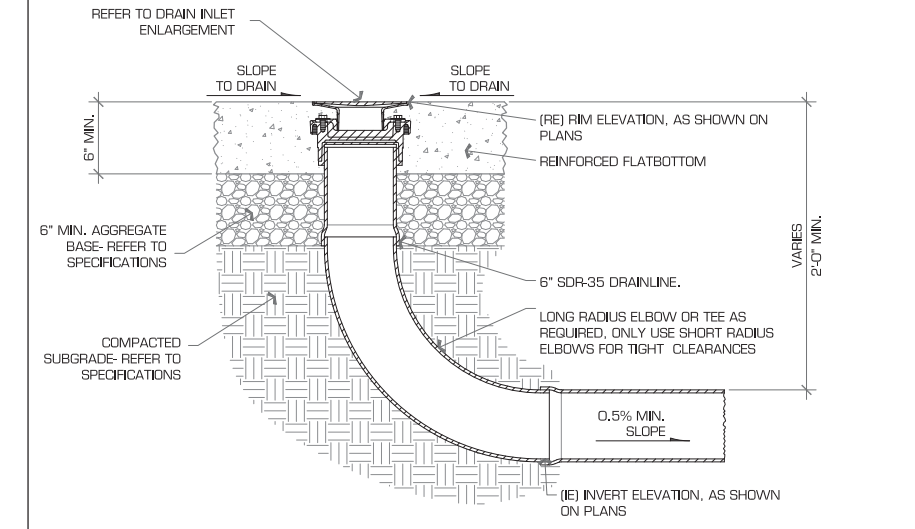
Nominal Size	Round		Square		Rectangular	
	Actual Size	Metric	Actual Size	Metric	Actual Size	Metric
2"	6.03cm x 4.76mm	2" X 2"	5.08cm x 5.08cm x 4.76mm	2" X 2"	5.08cm x 7.62cm x 4.76mm	2" X 3"
2-1/2"	7.30cm x 4.76mm	3" X 3"	7.62cm x 7.62cm x 4.76mm	3" X 3"	5.08cm x 15.24cm x 4.76mm	2" X 6"
3"	8.89cm x 4.76mm	3-1/2" X 3-1/2"	8.89cm x 8.89cm x 4.76mm	3-1/2" X 3-1/2"	5.08cm x 20.32cm x 4.76mm	2" X 8"
3-1/2"	10.16cm x 4.76mm	4" X 4"	10.16cm x 10.16cm x 4.76mm	4" X 4"	6.35cm x 10.16cm x 4.76mm	2-1/2" X 4"
4"	11.43cm x 4.76mm				7.62cm x 12.70cm x 4.76mm	3" X 5"

NOTE: ALL HOLLOW STRUCTURAL SECTIONS (HSS) TO BE ASTM A-500 GRADE B STEEL.

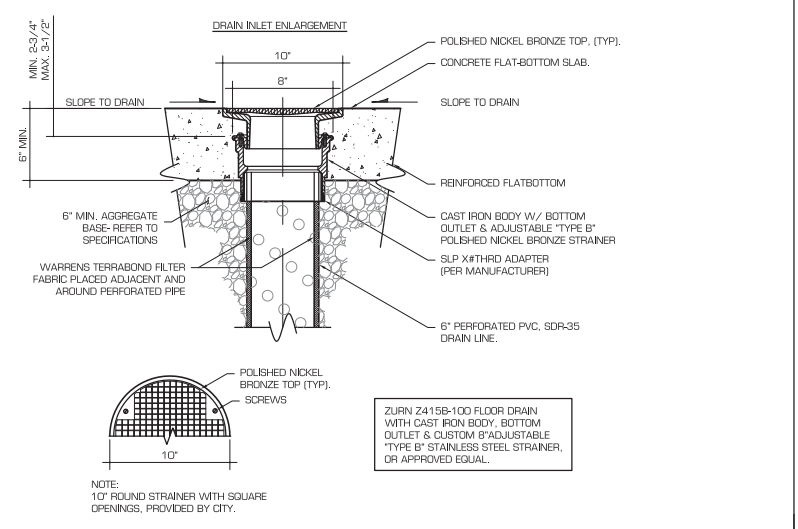
5 Steel Shapes Chart



6 Concrete Reinforcement

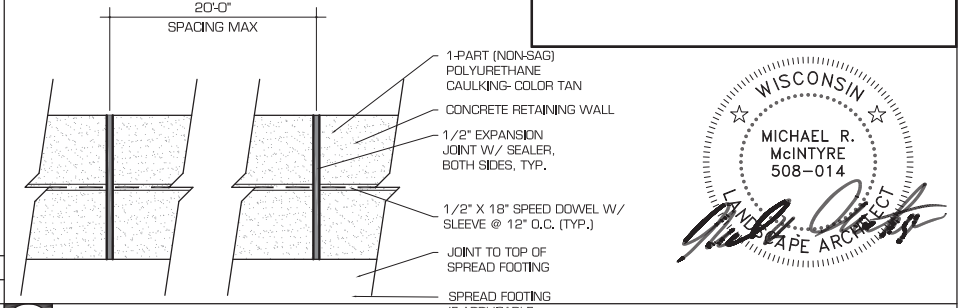
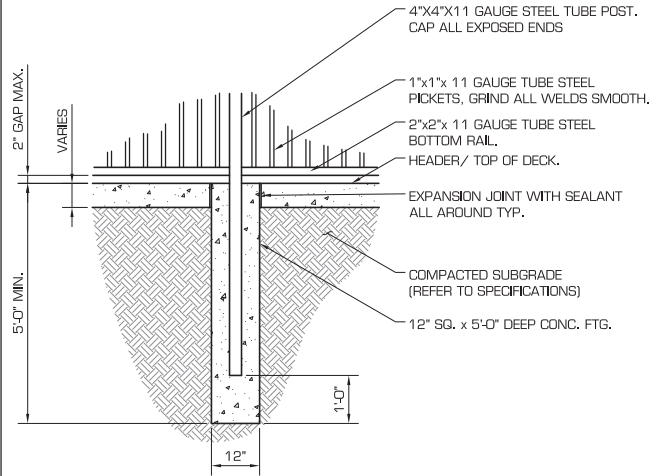
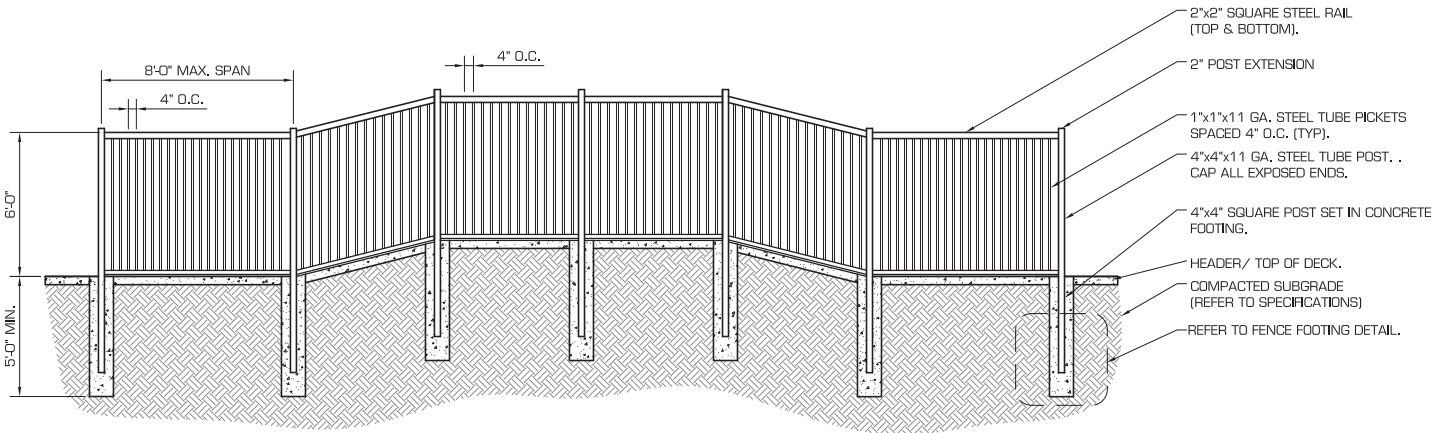
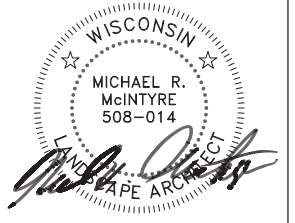


7 Drain Inlet Detail

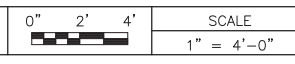


8 Steel Shapes Chart

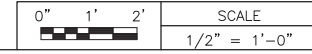
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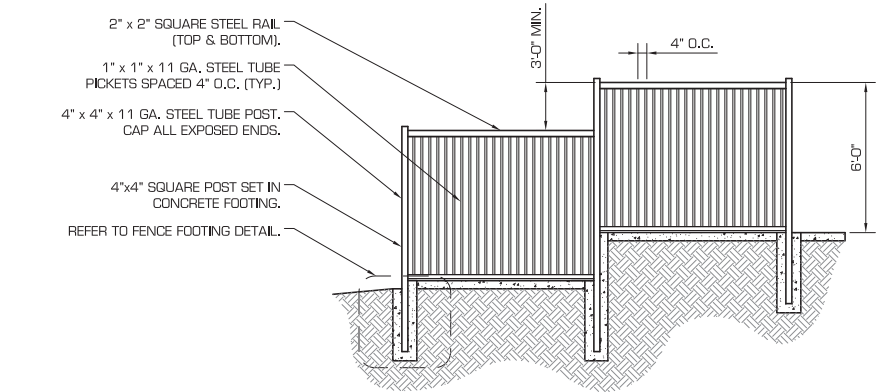
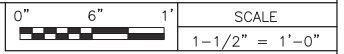
1 Fence Profile- Sloped Deck



2 Fence Footing Detail (Front View)

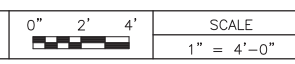


3 Retaining Wall- Expansion Joint & Water Proofing

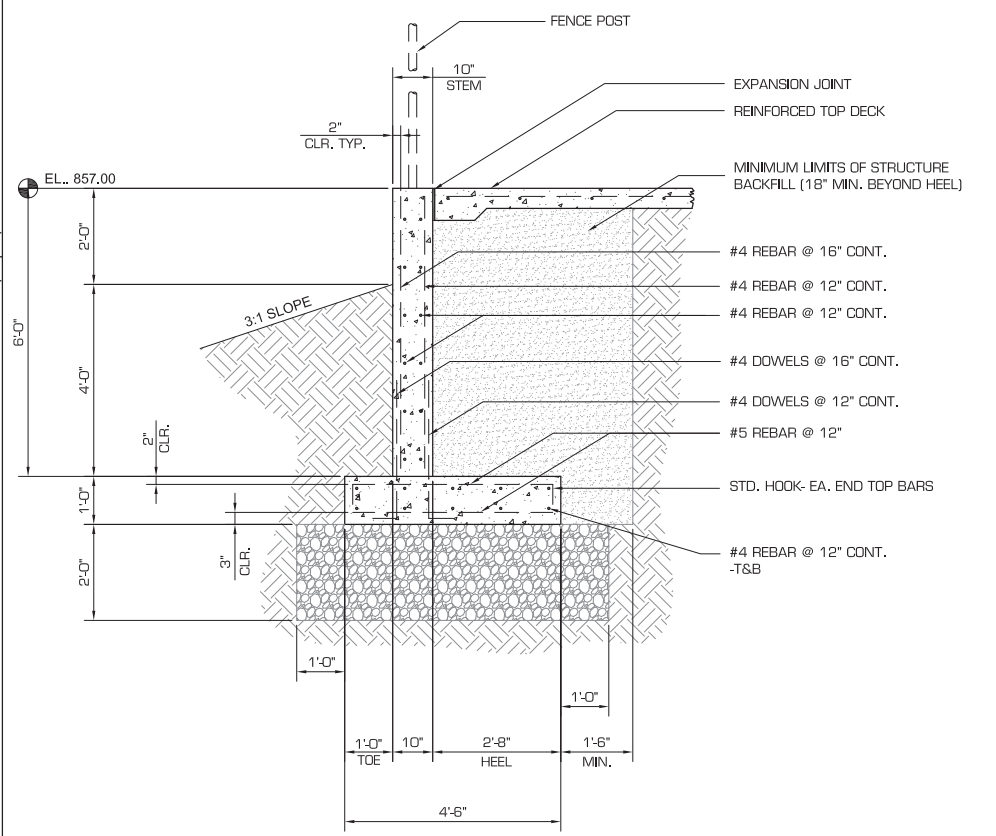
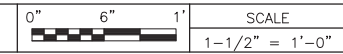
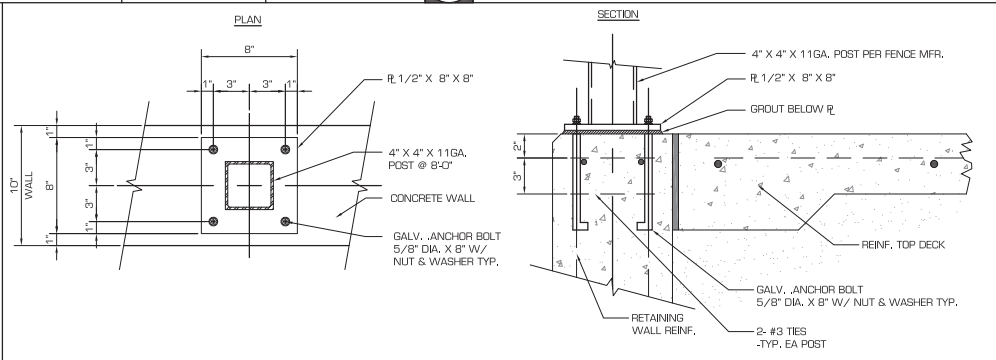


NOTES:
1. ALL TUBULAR STEEL FENCING SHALL RECEIVE THE FOLLOWING APPLICATIONS:
A. SURFACE PREPARATION - ZINC THERMAL SPRAYED METALLIZED FINISH (2 MIL MIN.) AS PROVIDED BY ZINC NATION OR APPROVED EQUAL.
B. INTERMEDIATE COAT - TNEC SERIES L69 EPOXILINE II AT 2.0-4.0 MILS
C. DFT. TOP COAT - TNEC SERIES 750 UVX AT 3.0-5.0 MILS DFT.
2. ALL METAL SHALL BE METALLIZED, PRIMED AND PAINTED TO MATCH COMMUNITY PARK TUBULAR STEEL GATE, REFER TO DETAILS AND SPECS.

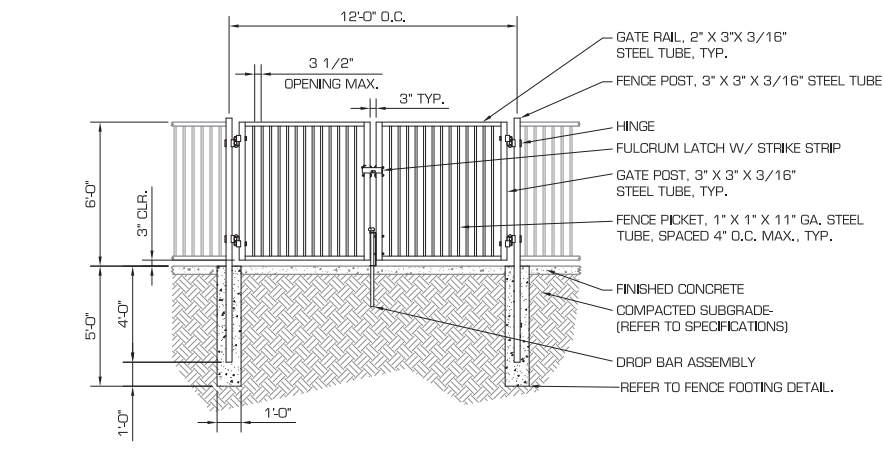
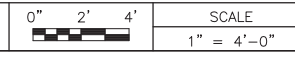
4 Fence Profile- Stepped Deck/ Wall



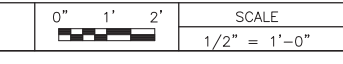
5 Fence Post Detail- Retaining Wall



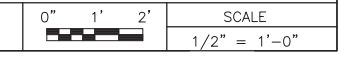
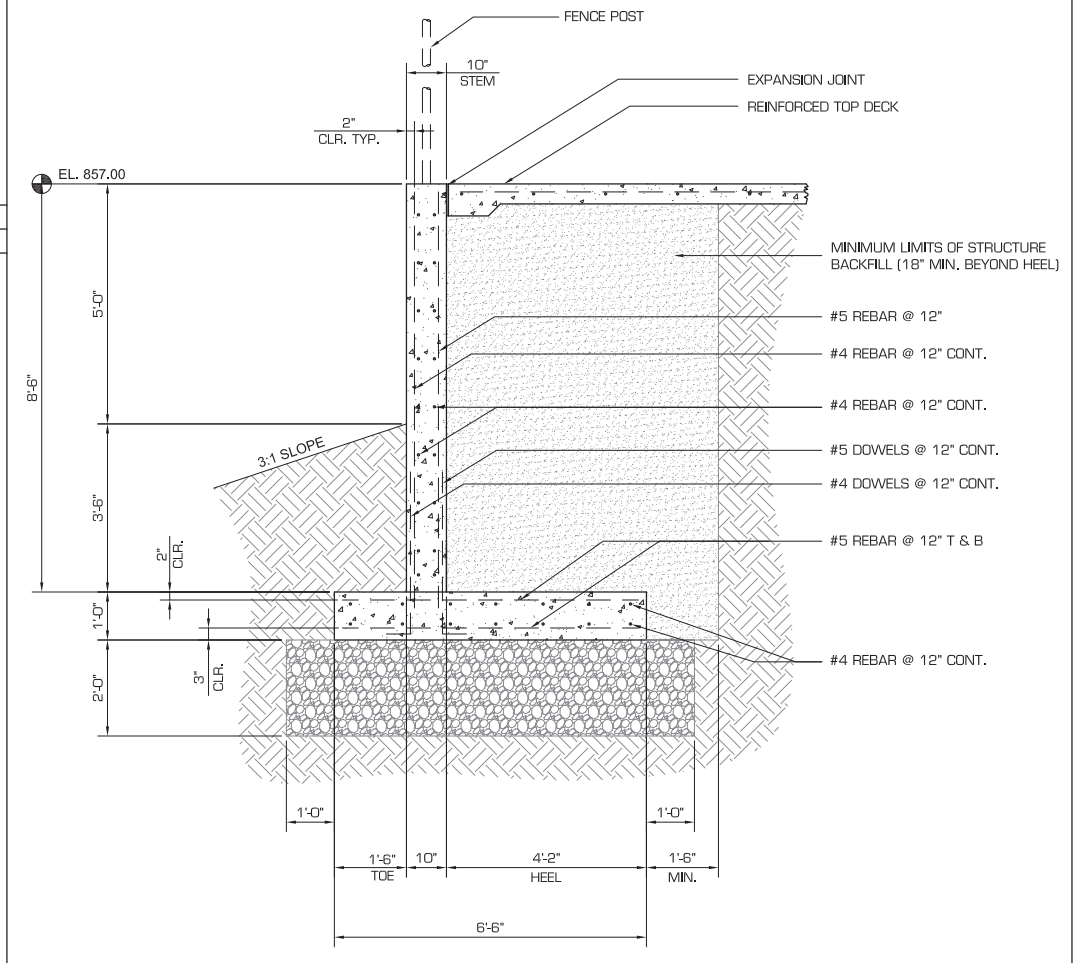
6 Fence Double Swing Gate



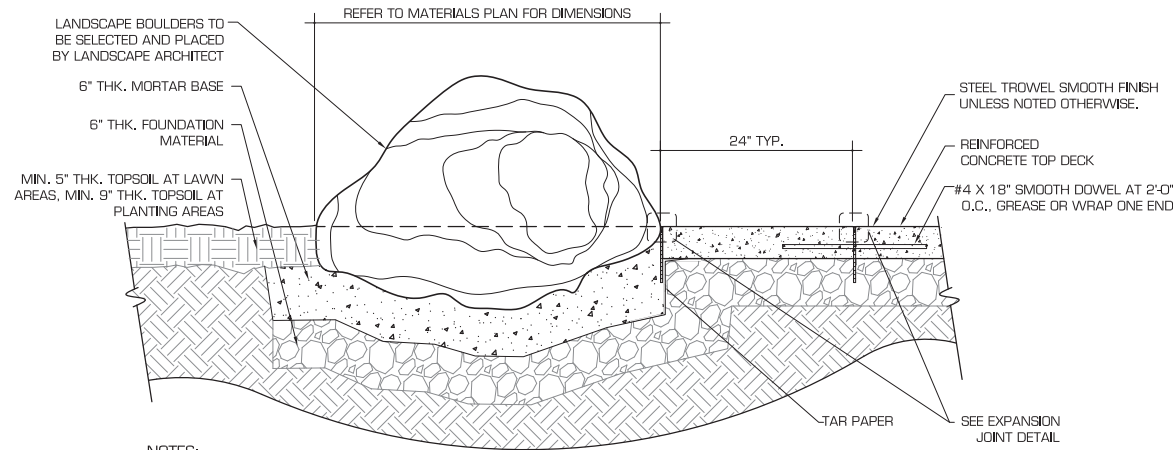
7 2' High Retaining Wall Segment



8 5' High Retaining Wall Segment

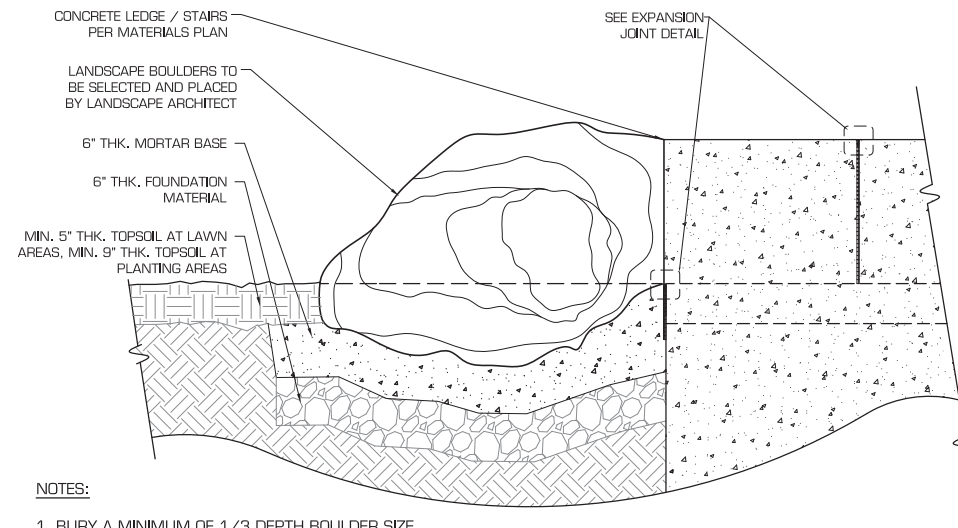


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NOTES:

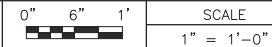
1. BURY A MINIMUM OF 1/3 DEPTH BOULDER SIZE.
2. SCARRED OR BROKEN BOULDERS SHALL NOT BE PERMITTED.
3. PLACE PER PLANS AND LANDSCAPE ARCHITECT'S DIRECTION.
4. BOULDER TO BE PLACED IN MORDER BASE, 5" SLAB TO BE POURED UP TO EDGE OF BOULDER



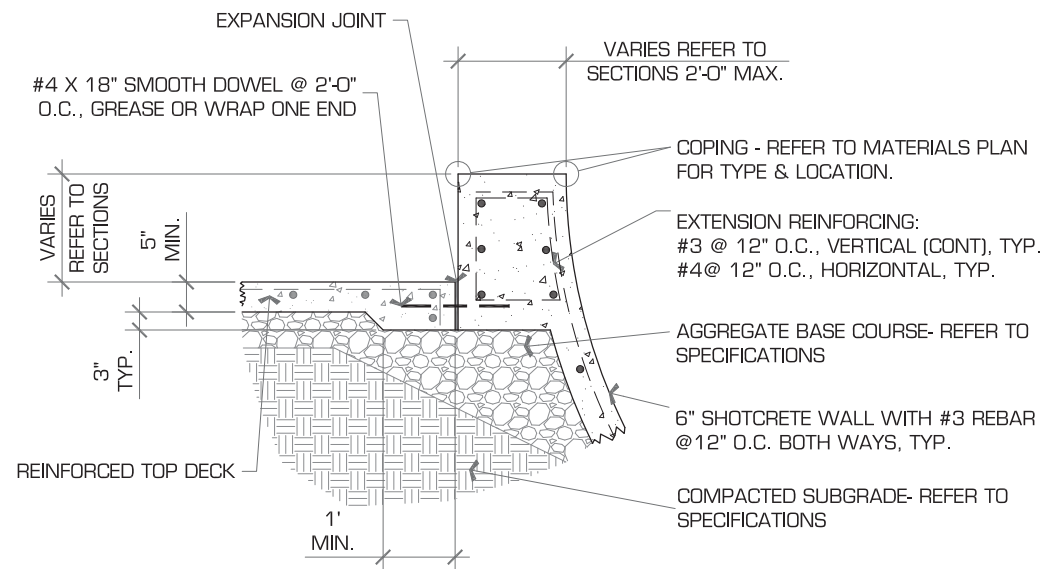
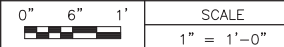
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1 Boulder Installation At Deck



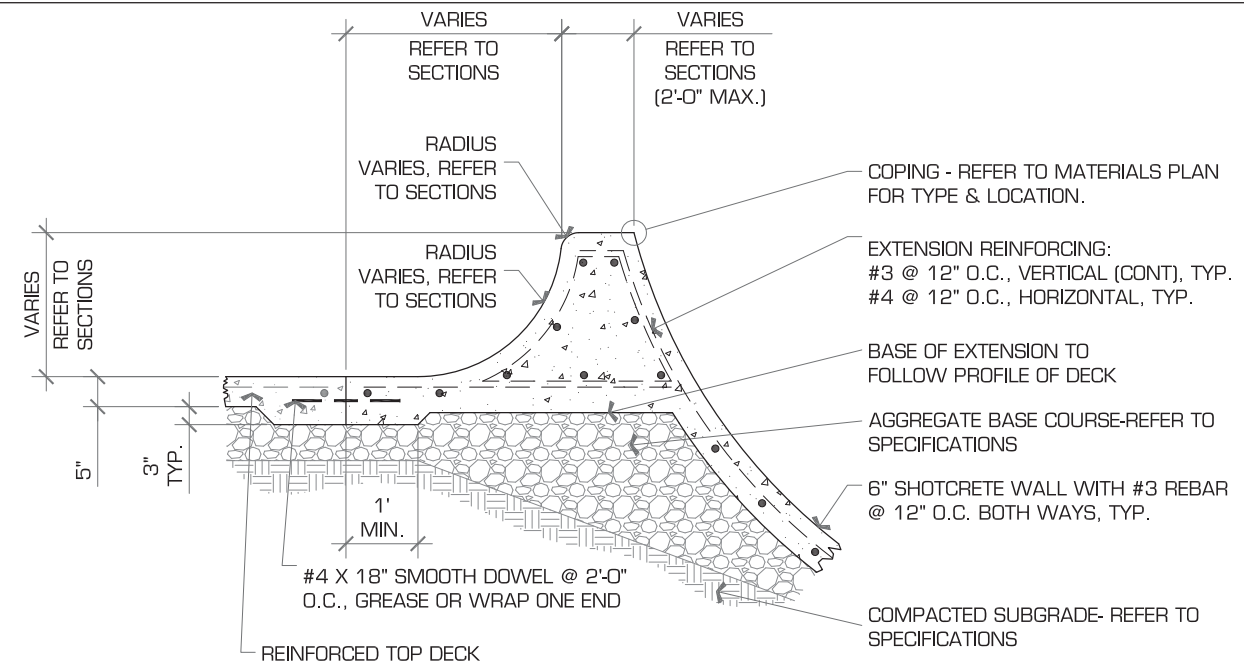
2 Boulder Installation at Ledge



3 Narrow Extension Detail



4 Narrow Extension To Transition Detail



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY_OF_MADISON,_STREETS_DIVISION