

MARY RYAN BOYS & GIRLS CLUB

SITE IMPROVEMENTS

SHERMAN PARK, 3000 N SHERMAN BLVD.
MILWAUKEE, WI 53210

OWNER

MILWAUKEE COUNTY PARKS
9480 WATERTOWN PLANK RD.
WAUWATOSA, WI 53226
P: 414-257-7275
WWW.COUNTY.MILWAUKEE.GOV/EN/PARKS

GENERAL CONTRACTOR

VJS CONSTRUCTION SERVICES
W233 N2847 ROUNDY CIRCLE WEST
PEWAUKEE, WI 53072
P: 262.542.9000
WWW.VJSCS.COM

ARCHITECT

KATHERINE KAWCZYNSKI
VJS CONSTRUCTION SERVICES
W233 N2847 ROUNDY CIRCLE WEST
PEWAUKEE, WI 53072
P: 262.542.9000
WWW.VJSCS.COM

CIVIL ENGINEER

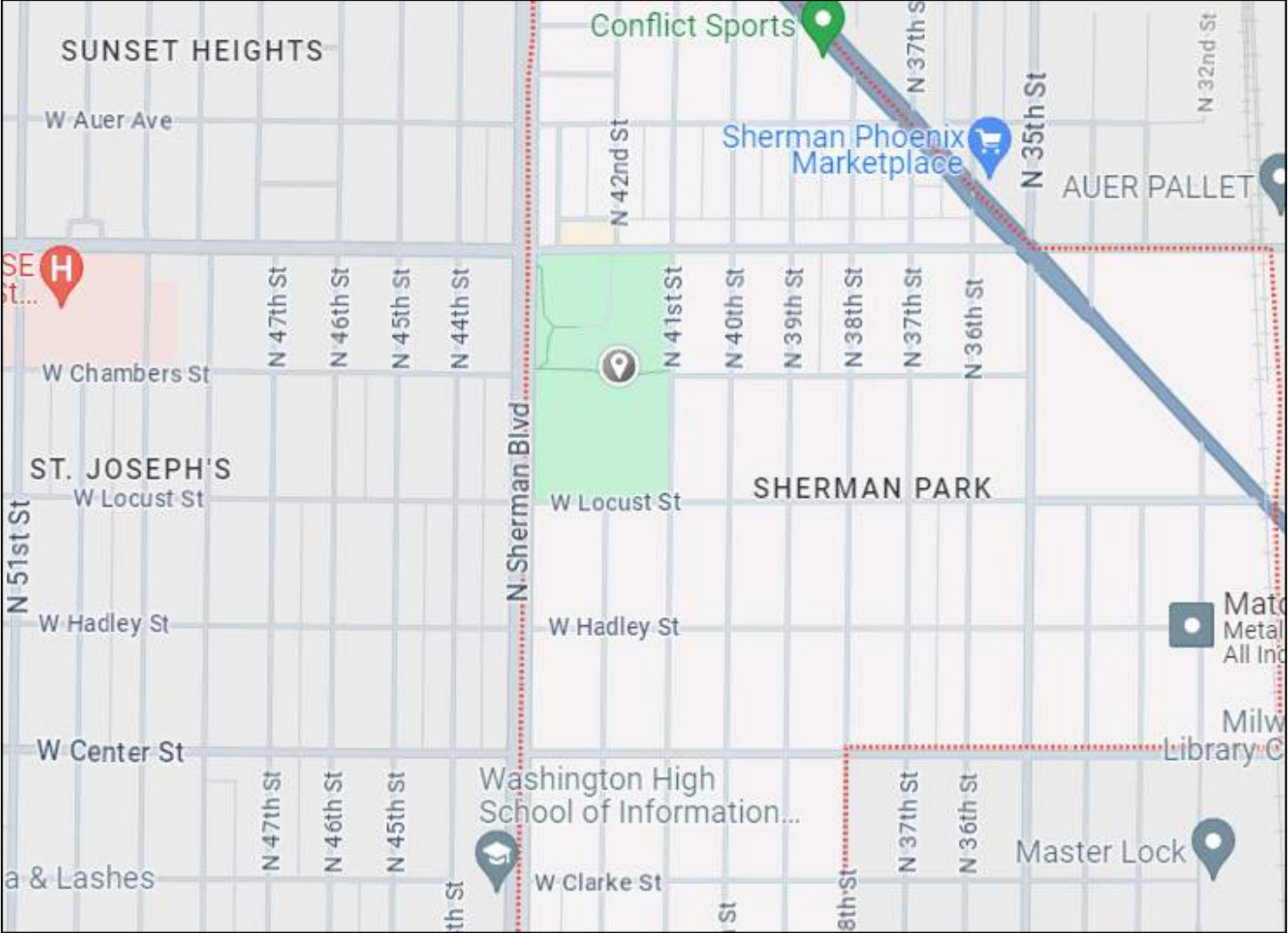
ENDPOINT SOLUTIONS
6871 S. LOVERS LANE
FRANKLIN, WI 53132
P: 414.427.1200

ELECTRICAL ENGINEER

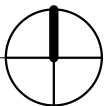
FLITEWAY TECHNOLOGIES
4850 S. PENNSYLVANIA AVE. SUITE 100
CUDAHY, WI 53110
P: 414.483.5600

SPLASH PAD CONSULTANT

DESIGN STUDIO BY CRS
807 LIBERTY DR #101
VERONA, WI 53593
P: 877.896.8442



1 PROJECT LOCATION
N.T.S.



SHEET INDEX	
T1.01	TITLE SHEET
C1	PRE-CONSTRUCTION CONDITIONS NORTH
C2	PRE-CONSTRUCTION CONDITIONS SOUTH
C3	DEMOLITION PLAN NORTH
C4	DEMOLITION PLAN SOUTH
C5	PROPOSED SITE LAYOUT NORTH
C6	PROPOSED SITE LAYOUT SOUTH
C7	PROPOSED SITE DETAIL NORTH
C8	PROPOSED GRADING DETAIL NORTH
C9	PROPOSED UTILITY DETAIL NORTH
C10	EROSION CONTROL NOTES & DETAILS
C11	GENERAL CONSTRUCTION NOTES
C12	CONSTRUCTION DETAILS
E1	ELECTRICAL NOTES & SYMBOLS
E2	ELECTRICAL SINGLE LINE
E3	ELECTRICAL SITE LAYOUT NORTH
E4	ELECTRICAL SITE LAYOUT SOUTH
E5	ELECTRICAL SCHEDULES & DETAILS
E6	LIGHTING CONTROL PANEL SCHEMATIC & DETAILS
M1	SPLASH PAD FEATURES
M2	SPLASH PAD DETAILS
M3	SPLASH PAD DETAILS
M4	SPLASH PAD DETAILS
A-001	SITE LAYOUT
PE-001	PLUMBING & ELECTRICAL LAYOUT
AC 1.03	ENLARGED SITE PLAN
AC 1.04	DUMPSTER ENCLOSURE
AC 1.05	SEATING & FENCE DETAILS
28	



MARY RYAN BOYS & GIRLS CLUB
SITE IMPROVEMENTS

SHERMAN PARK, 3000 N SHERMAN BLVD.
MILWAUKEE, WI 53210

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF VJS CONSTRUCTION SERVICES. THE ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE PLANS FOR ANY PROJECT OTHER THAN SPECIFICALLY AUTHORIZED BY THEM AND SIGNED AND SEALED FOR SUCH SPECIFIC LOCATION IN THE STATE, PROVINCE, OR TERRITORY SHOWN ON THE SEAL.

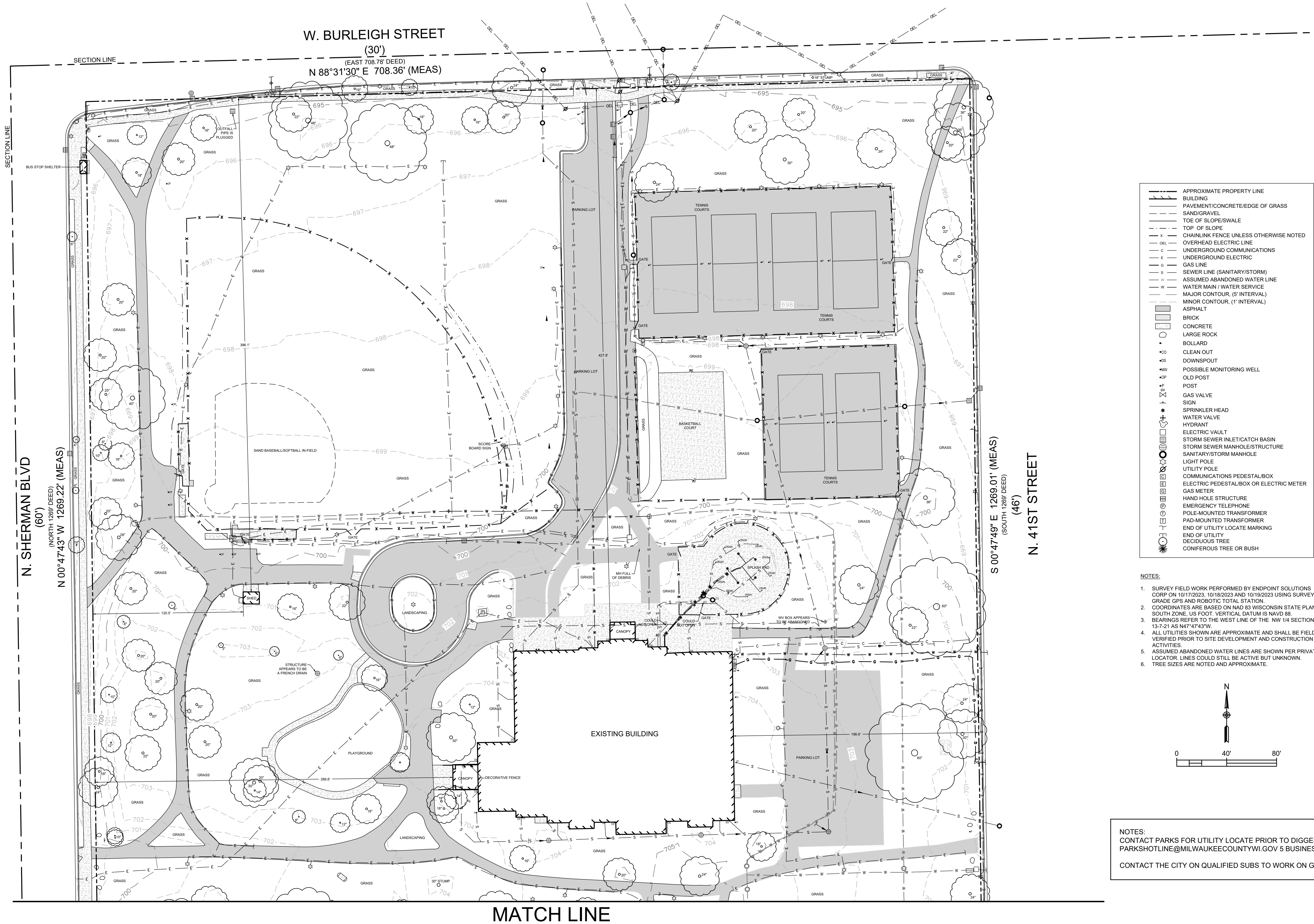
ISSUANCE & REVISIONS

PROJECT NUMBER 8230073
PROJECT ISSUED 09/30/2024
DRAWN BY DJM
CHECKED BY KAK
SCALE N.T.S.

TITLE SHEET

T1.01

Sep 30, 2024 12:58pm PLOTTED BY: jheinenen, SAVED BY: jheinenen
P:\VUS - 525\028 - Sherman Park-Boys and Girls Club CAD\028-002 Civil Design\Shit CI_525-028-002 Pre-Construction Conditions - North.dwg Layout1
IMAGES: T:\Template Forms\CADD\Logos\Endpoint Solutions HI-Res.jpg
XREFS: \Survey Basemap-VIS Sherman Park.dwg; \22x34 Border Sherman Park.dwg



- APPROXIMATE PROPERTY LINE
BUILDING
PAVEMENT/CONCRETE/EDGE OF GRASS
SAND/GRAVEL
TOE OF SLOPE/SWALE
TOP OF SLOPE
CHAINLINK FENCE UNLESS OTHERWISE NOTED
OVERHEAD ELECTRIC LINE
UNDERGROUND COMMUNICATIONS
UNDERGROUND ELECTRIC
GAS LINE
SEWER LINE (SANITARY/STORM)
ASSUMED ABANDONED WATER LINE
WATER MAIN / WATER SERVICE
MAJOR CONTOUR, (5' INTERVAL)
MINOR CONTOUR, (1' INTERVAL)
ASPHALT
BRICK
CONCRETE
LARGE ROCK
BOLLARD
CLEAN OUT
DOWNSPOUT
POSSIBLE MONITORING WELL
OLD POST
POST
GAS VALVE
SIGN
SPRINKLER HEAD
WATER VALVE
HYDRANT
ELECTRIC VAULT
STORM SEWER INLET/CATCH BASIN
STORM SEWER MANHOLE/STRUCTURE
SANITARY/STORM MANHOLE
LIGHT POLE
UTILITY POLE
COMMUNICATIONS PEDESTAL/BOX
ELECTRIC PEDESTAL/BOX OR ELECTRIC METER
GAS METER
HAND HOLE STRUCTURE
EMERGENCY TELEPHONE
POLE-MOUNTED TRANSFORMER
PAD-MOUNTED TRANSFORMER
END OF UTILITY LOCATE MARKING
END OF UTILITY
DECIDUOUS TREE
CONIFEROUS TREE OR BUSH

- NOTES:
1. SURVEY FIELD WORK PERFORMED BY ENDPOINT SOLUTIONS CORP ON 10/17/2023, 10/18/2023 AND 10/19/2023 USING SURVEY GRADE GPS AND ROBOTIC TOTAL STATION.
 2. COORDINATES ARE BASED ON NAD 83 WISCONSIN STATE PLANE, SOUTH ZONE, US FOOT. VERTICAL DATUM IS NAVD 88.
 3. BEARINGS REFER TO THE WEST LINE OF THE NW 1/4 SECTION 13-21 AS N47°47'45"W.
 4. ALL UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO SITE DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
 5. ASSUMED ABANDONED WATER LINES ARE SHOWN PER PRIVATE LOCATOR. LINES COULD STILL BE ACTIVE BUT UNKNOWN.
 6. TREE SIZES ARE NOTED AND APPROXIMATE.

NOTES:
CONTACT PARKS FOR UTILITY LOCATE PRIOR TO DIGGERS HOTLINE AT PARKSHOTLINE@MILWAUKEECOUNTYWI.GOV 5 BUSINESS DAYS TO CLEAR
CONTACT THE CITY ON QUALIFIED SUBS TO WORK ON GRID

Endpoint Solutions

6871 S. LOVERS LANE
FRANKLIN, WI 53132
PHONE: (414) 427-1200

THE BOYS AND GIRLS CLUB OF WISCONSIN

PRE-CONSTRUCTION CONDITIONS

NORTH

SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

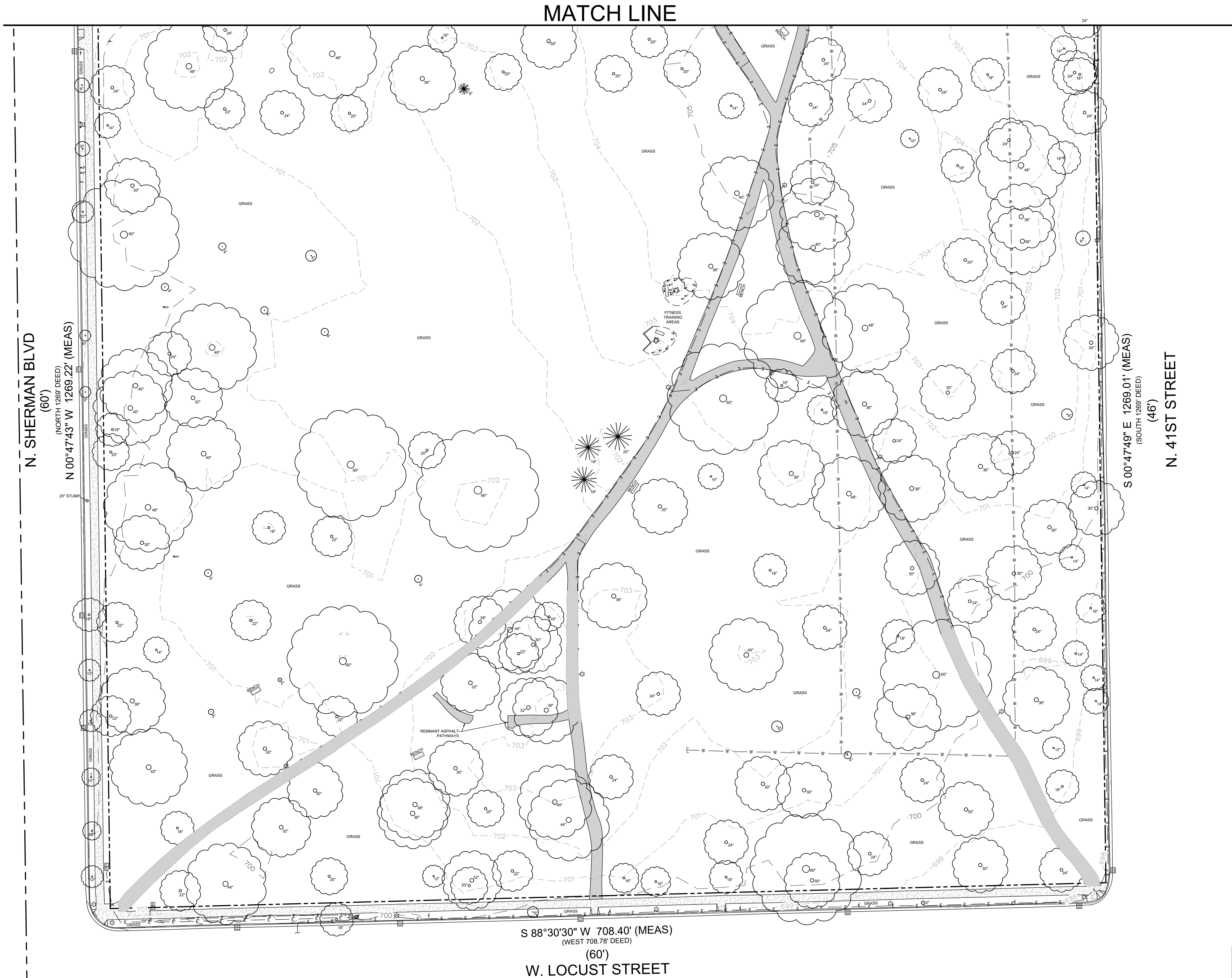
DRAWN BY: NWD/JAH
CHECKED BY: NWD
APPROVED BY: JAH

DATE: 09/30/2024

PROJECT NO.
525-028-002

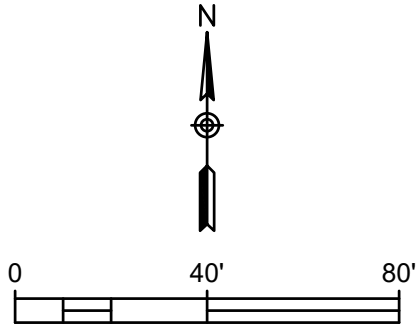
SHEET NO.
C1

Sep 30, 2024 12:59pm - PLOTTED BY: jheinenen, SAVED BY: jheinenen
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XREFS: \Survey Basemap-VUS Sherman Park.dwg; \22x34 Border Sherman Park.dwg



	APPROXIMATE PROPERTY LINE
	BUILDING
	PAVEMENT/CONCRETE/EDGE OF GRASS
	SAND/GRAVEL
	TOE OF SLOPE/SWALE
	TOP OF SLOPE
	CHAINLINK FENCE UNLESS OTHERWISE NOTED
	OVERHEAD ELECTRIC LINE
	UNDERGROUND COMMUNICATIONS
	UNDERGROUND ELECTRIC
	GAS LINE
	SEWER LINE (SANITARY/STORM)
	ASSUMED ABANDONED WATER LINE
	WATER MAIN / WATER SERVICE
	MAJOR CONTOUR, (5' INTERVAL)
	MINOR CONTOUR, (1' INTERVAL)
	ASPHALT
	BRICK
	CONCRETE
	LARGE ROCK
	BOLLARD
	CLEAN OUT
	DOWNSPOUT
	POSSIBLE MONITORING WELL
	OLD POST
	POST
	GAS VALVE
	SIGN
	SPRINKLER HEAD
	WATER VALVE
	HYDRANT
	ELECTRIC VAULT
	STORM SEWER INLET/CATCH BASIN
	STORM SEWER MANHOLE/STRUCTURE
	SANITARY/STORM MANHOLE
	LIGHT POLE
	UTILITY POLE
	COMMUNICATIONS PEDESTAL/BOX
	ELECTRIC PEDESTAL/BOX OR ELECTRIC METER
	GAS METER
	HAND HOLE STRUCTURE
	EMERGENCY TELEPHONE
	POLE-MOUNTED TRANSFORMER
	PAD-MOUNTED TRANSFORMER
	END OF UTILITY LOCATE MARKING
	END OF UTILITY
	DECIDUOUS TREE
	CONIFEROUS TREE OR BUSH

- NOTES:
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 - BEARINGS REFER TO THE WEST LINE OF THE NW 1/4 SECTION 13-7-21 AS N47°47'45\"/>



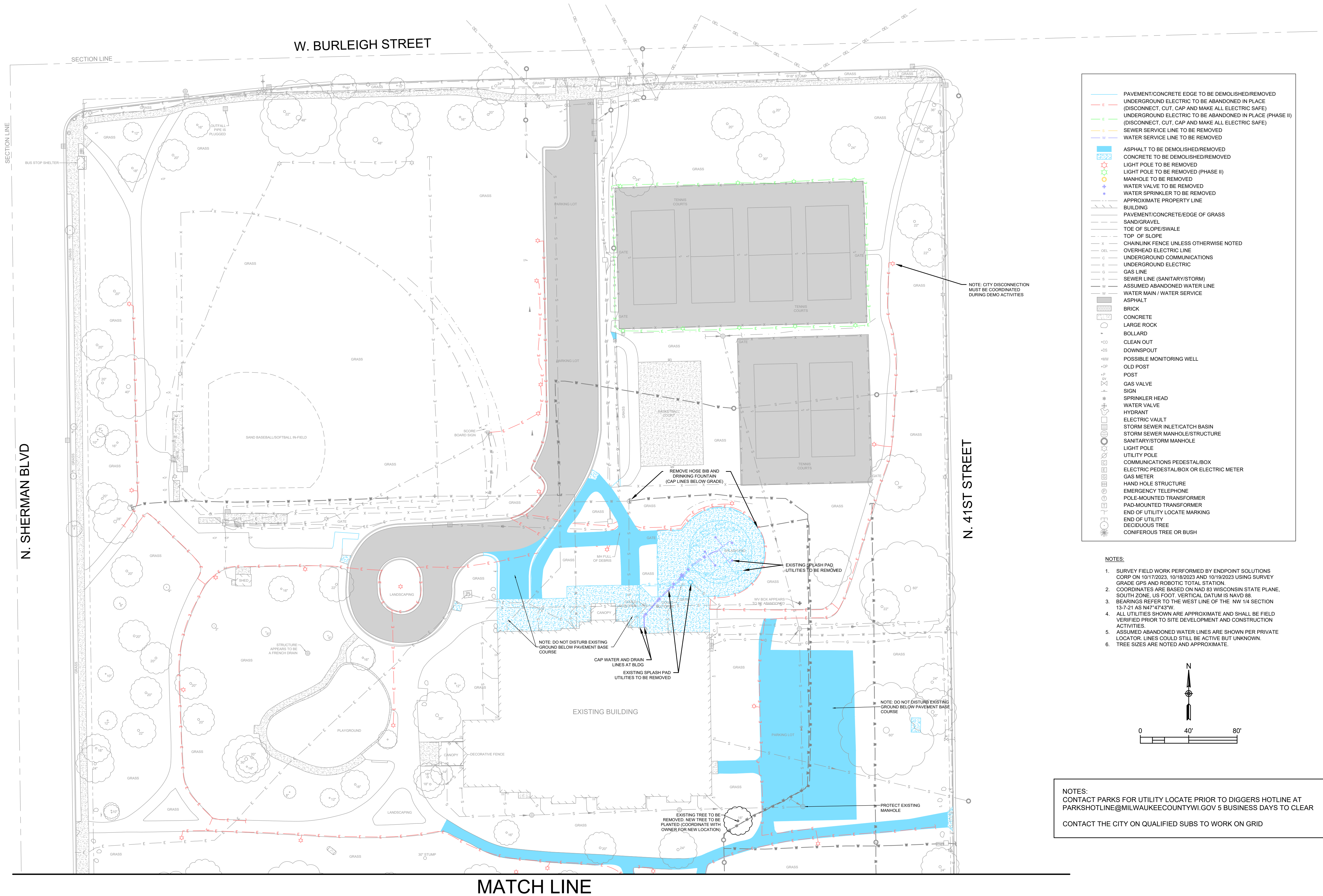
NOTES:
CONTACT PARKS FOR UTILITY LOCATE PRIOR TO DIGGERS HOTLINE AT PARKSHOTLINE@MILWAUKEECOUNTYWI.GOV 5 BUSINESS DAYS TO CLEAR
CONTACT THE CITY ON QUALIFIED SUBS TO WORK ON GRID

THE BOYS AND GIRLS CLUB OF WISCONSIN PRE-CONSTRUCTION CONDITIONS SOUTH SHERMAN PARK, 3000 N. SHERMAN BLVD MILWAUKEE WISCONSIN 53210	
DRAWN BY: NWD/JAH	DATE: 09/30/2024
CHECKED BY: NWD	
APPROVED BY: JAH	
PROJECT NO. 525-028-002	
SHEET NO. C2	

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6871 S. LOVERS LANE
FRANKLIN, WI 53132
PHONE: (414) 427-1200

Sep 30, 2024 12:59pm PLOTTED BY: jhehonen SAVED BY: jhehonen
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Endpoint Solutions

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FRANKLIN, WI 53132
PHONE: (414) 427-1200

THE BOYS AND GIRLS CLUB OF WISCONSIN

DEMOLITION PLAN

NORTH

SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: NWD/JAH
CHECKED BY: NWD
APPROVED BY: JAH

DATE: 09/30/2024

PROJECT NO.

525-028-002

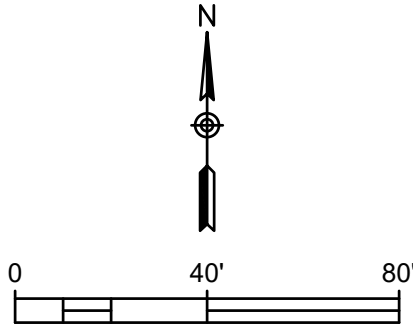
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C3

MATCH LINE



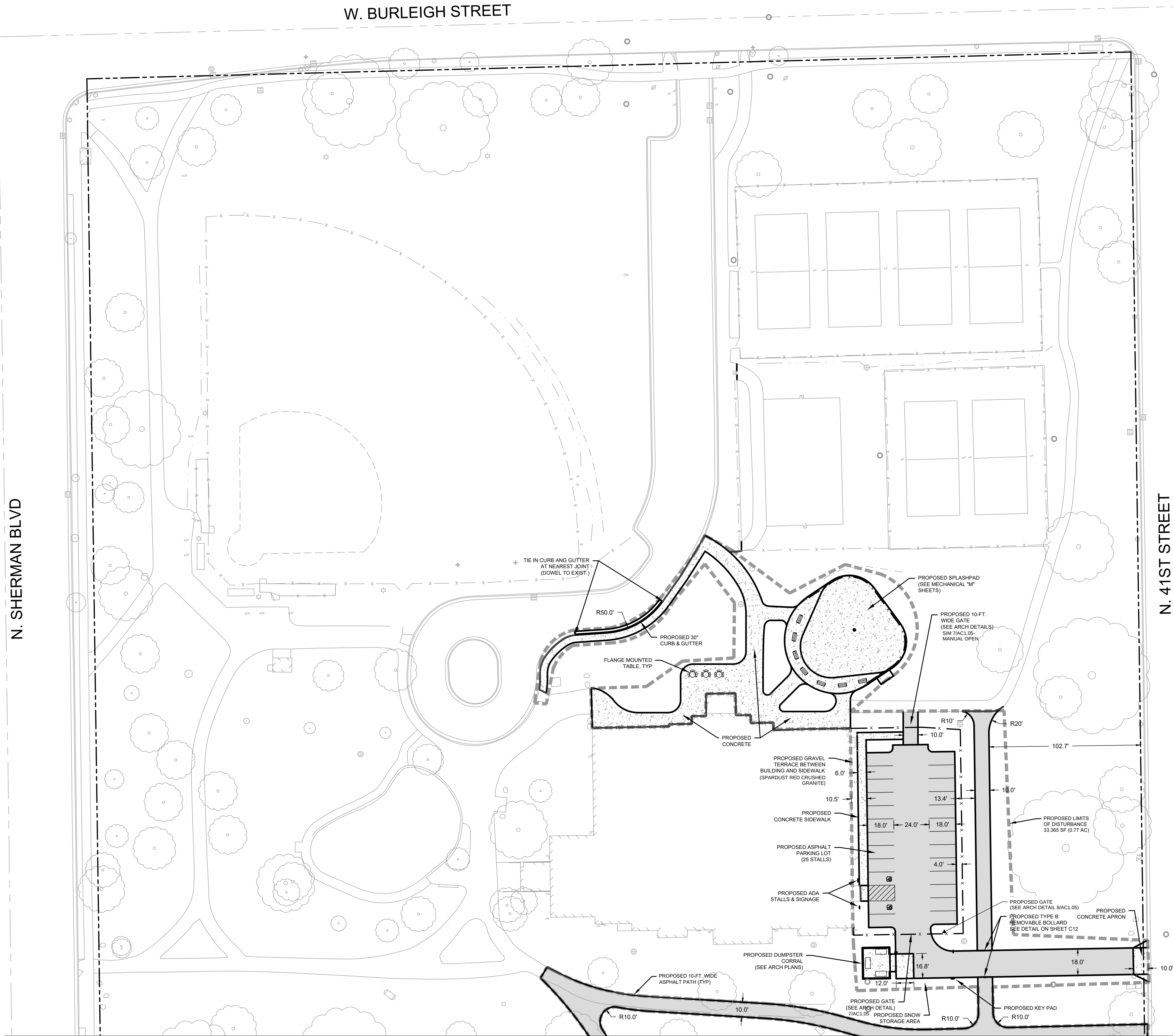
- NOTES:**
1. SURVEY FIELD WORK PERFORMED BY ENDPOINT SOLUTIONS CORP ON 10/17/2023, 10/18/2023 AND 10/19/2023 USING SURVEY GRADE GPS AND ROBOTIC TOTAL STATION.
 2. COORDINATES ARE BASED ON NAD 83 WISCONSIN STATE PLANE, SOUTH ZONE, US FOOT. VERTICAL DATUM IS NAVD 88.
 3. BEARINGS REFER TO THE WEST LINE OF THE NW 1/4 SECTION 13-7-21 AS N47°47'43"W.
 4. ALL UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO SITE DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
 5. ABANDONED/ABANDONED WATER LINES ARE SHOWN PER PRIVATE LOCATOR. LINES COULD STILL BE ACTIVE BUT UNKNOWN.
 6. TREE SIZES ARE NOTED AND APPROXIMATE.



NOTES:
CONTACT PARKS FOR UTILITY LOCATE PRIOR TO DIGGERS HOTLINE AT
PARKSHOTLINE@MILWAUKEECOUNTYWI.GOV 5 BUSINESS DAYS TO CLEAR
CONTACT THE CITY ON QUALIFIED SUBS TO WORK ON GRID

THE BOYS AND GIRLS CLUB OF WISCONSIN DEMOLITION PLAN SOUTH SHERMAN PARK, 3000 N. SHERMAN BLVD MILWAUKEE WISCONSIN 53210		 6871 S. LOVERS LANE FRANKLIN, WI 53132 PHONE: (414) 427-1200	REV. DATE: 6 - 5 - 4 - 3 - 2 - 1 - 0 -
DRAWN BY: NWD/JAH CHECKED BY: NWD APPROVED BY: JAH	DATE: 09/30/2024		
PROJECT NO. 525-028-002			
SHEET NO. C4			

Sep 30, 2024 12:59pm PLOTTED BY: jhehonen SAVED BY: jhehonen
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XREFS: Survey Basemap-VUS Sherman Park.dwg; \22x34 Border Sherman Park.dwg; \Proposed Basemap-Sherman Park.dwg



---	PROPOSED ASPHALT/CONCRETE EDGE
-x-	PROPOSED FENCE
---	PROPOSED ASPHALT, NEW
---	PROPOSED CONCRETE
---	APPROXIMATE PROPERTY LINE
---	BUILDING
---	PAVEMENT/CONCRETE/EDGE OF GRASS
---	SAND/GRAVEL
---	TOE OF SLOPE/SWALE
---	TOP OF SLOPE
-x-	CHAINLINK FENCE UNLESS OTHERWISE NOTED
-DEL-	OVERHEAD ELECTRIC LINE
-C-	UNDERGROUND COMMUNICATIONS
-E-	UNDERGROUND ELECTRIC
-G-	GAS LINE
-S-	SEWER LINE (SANITARY/STORM)
-W-	ASSUMED ABANDONED WATER LINE
-W-	WATER MAIN / WATER SERVICE
○	LARGE ROCK
+	BOLLARD
+CO	CLEAN OUT
+DS	DOWNSPOUT
+MW	POSSIBLE MONITORING WELL
+OP	OLD POST
+P	POST
+V	GAS VALVE
+S	SIGN
+H	SPRINKLER HEAD
+W	WATER VALVE
+H	HYDRANT
+E	ELECTRIC VAULT
+S	STORM SEWER INLET/CATCH BASIN
+S	STORM SEWER MANHOLE/STRUCTURE
+S	SANITARY/STORM MANHOLE
+L	LIGHT POLE
+U	UTILITY POLE
+C	COMMUNICATIONS PEDESTAL/BOX
+E	ELECTRIC PEDESTAL/BOX OR ELECTRIC METER
+G	GAS METER
+H	HAND HOLE STRUCTURE
+T	EMERGENCY TELEPHONE
+P	POLE-MOUNTED TRANSFORMER
+P	PAD-MOUNTED TRANSFORMER
+E	END OF UTILITY LOCATE MARKING
+E	END OF UTILITY
+D	DECIDUOUS TREE
+C	CONIFEROUS TREE OR BUSH

- NOTES:
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 2. COORDINATES ARE BASED ON NAD 83 WISCONSIN STATE PLANE, SOUTH ZONE, US FOOT. VERTICAL DATUM IS NAVD 88.
 3. BEARINGS REFER TO THE WEST LINE OF THE NW 1/4 SECTION 13-7-21 AS N47°42'51"W.
 4. ALL UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO SITE DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
 5. ASSUMED ABANDONED WATER LINES ARE SHOWN PER PRIVATE LOCATOR. LINES COULD STILL BE ACTIVE BUT UNKNOWN.
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NOTES:
CONTACT PARKS FOR UTILITY LOCATE PRIOR TO DIGGERS HOTLINE AT PARKSHOTLINE@MILWAUKEECOUNTY.WI.GOV 5 BUSINESS DAYS TO CLEAR
CONTACT THE CITY ON QUALIFIED SUBS TO WORK ON GRID

THE BOYS AND GIRLS CLUB OF WISCONSIN
PROPOSED SITE LAYOUT
NORTH
SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: NWD/JAH
CHECKED BY: NWD
APPROVED BY: JAH

PROJECT NO.
525-028-002

SHEET NO.
C5

Endpoint Solutions
6871 S. LOVERS LANE
FRANKLIN, WI 53132
PHONE: (414) 427-1200

REV	DATE
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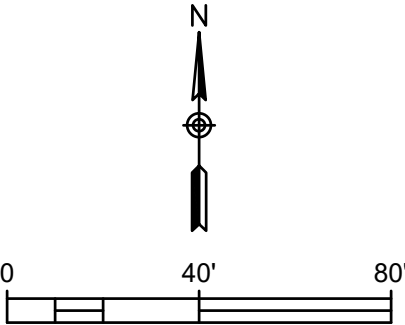
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XREFS: \Survey Basemap-VJS Sherman Park.dwg; _22x34 Border Shee



- | | |
|---|---|
|  | PROPOSED ASPHALT/CONCRETE EDGE |
|  | PROPOSED ASPHALT, NEW |
|  | APPROXIMATE PROPERTY LINE |
|  | BUILDING |
|  | PAVEMENT/CONCRETE/EDGE OF GRASS |
|  | SAND/GRAVEL |
|  | TOE OF SLOPE/SWALE |
|  | TOP OF SLOPE |
|  | CHAINLINK FENCE UNLESS OTHERWISE NOTED |
|  | OVERHEAD ELECTRIC LINE |
|  | UNDERGROUND COMMUNICATIONS |
|  | GAS LINE |
|  | SEWER LINE (SANITARY/STORM) |
|  | ASSUMED ABANDONED WATER LINE |
|  | WATER MAIN / WATER SERVICE |
|  | LARGE ROCK |
|  | BOLLARD |
|  | CLEAN OUT |
|  | DOWNSPOUT |
|  | POSSIBLE MONITORING WELL |
|  | OLD POST |
|  | POST |
|  | GAS VALVE |
|  | SIGN |
|  | SPRINKLER HEAD |
|  | WATER VALVE |
|  | HYDRANT |
|  | ELECTRIC VAULT |
|  | STORM SEWER INLET/CATCH BASIN |
|  | STORM SEWER MANHOLE/STRUCTURE |
|  | SANITARY/STORM MANHOLE |
|  | LIGHT POLE |
|  | UTILITY POLE |
|  | COMMUNICATIONS PEDESTAL/BOX |
|  | ELECTRIC PEDESTAL/BOX OR ELECTRIC METER |
|  | GAS METER |
|  | HAND HOLE STRUCTURE |
|  | EMERGENCY TELEPHONE |
|  | POLE-MOUNTED TRANSFORMER |
|  | PAD-MOUNTED TRANSFORMER |
|  | END OF UTILITY LOCATE MARKING |
|  | END OF UTILITY |
|  | DECIDUOUS TREE |
|  | CONIFEROUS TREE OR BUSH |

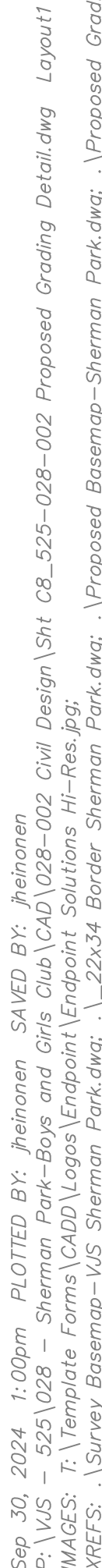
NOTES:

1. SURVEY FIELD WORK PERFORMED BY ENDPOINT SOLUTIONS CORP ON 10/17/2023, 10/18/2023 AND 10/19/2023 USING SURVEY GRADE GPS AND ROBOTIC TOTAL STATION.
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3. BEARINGS REFER TO THE WEST LINE OF THE NW 1/4 SECTION 13-7-21 AS 73°15'53"W.
4. ALL DISTANCES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO SITE DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
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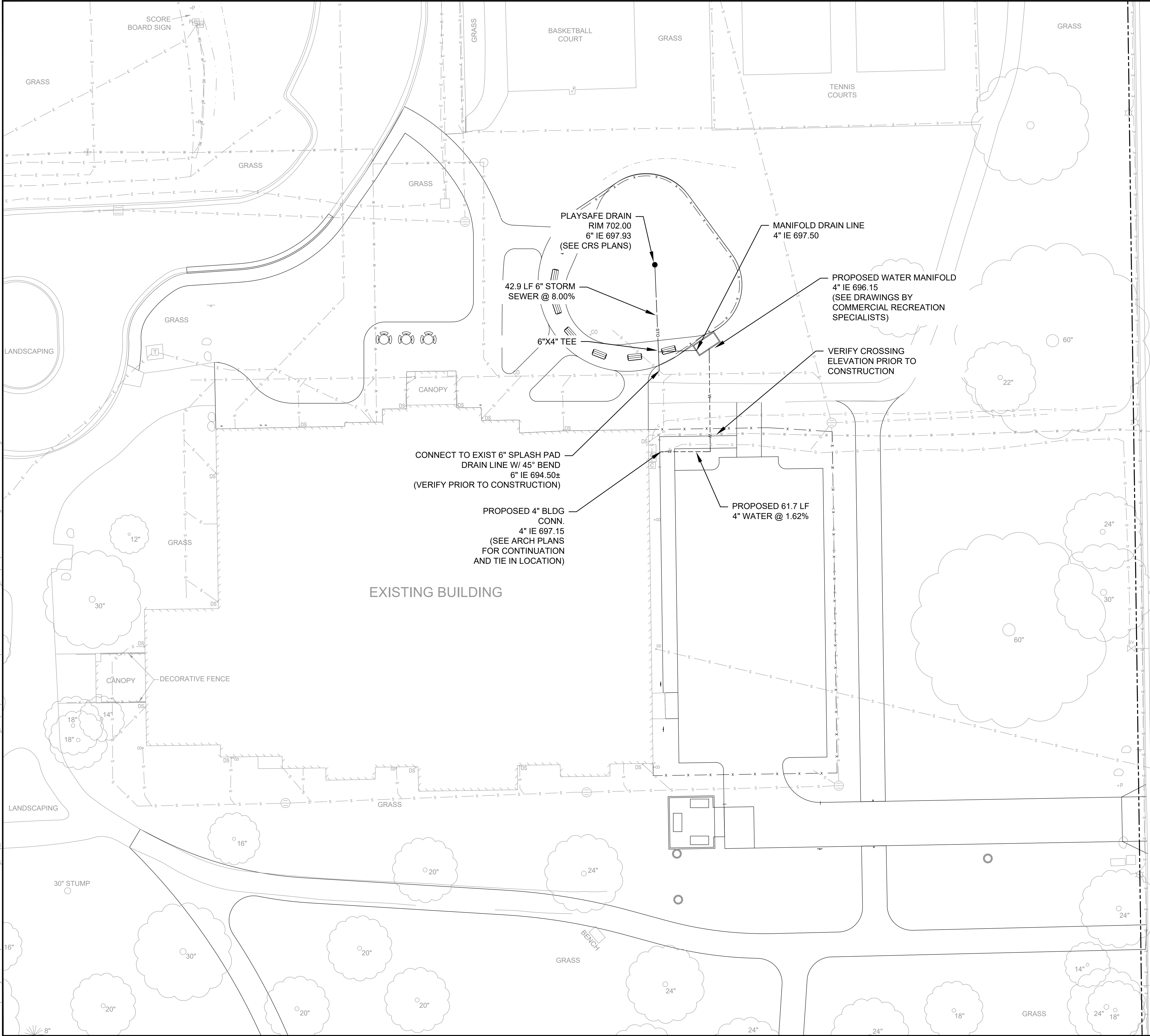


NOTES:
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THE BOYS AND GIRLS CLUB OF WISCONSIN PROPOSED SITE LAYOUT SOUTH SHERMAN PARK, 3000 N. SHERMAN BLVD MILWAUKEE WISCONSIN 53210		 6871 S. LOVERS LANE FRANKLIN, WI 53132 PHONE: (414) 427-1200	
DRAWN BY: NWD/JAH CHECKED BY: NWD APPROVED BY: JAH		DATE: 09/30/2024	
PROJECT NO. 525-028-002			
SHEET NO. C6			



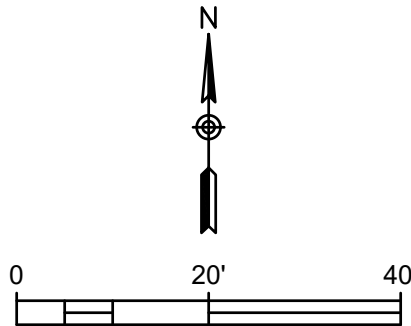
Sep 30, 2024 1:00pm PLOTTED BY: jheinenen SAVED BY: jheinenen
P:\VUS - 525\028 - Sherman Park-Boys and Girls Club\CAD\028-002 Civil Design\Shit C9_525-028-002 Proposed Utility Detail.dwg Layout1
IMAGES: T:\Template Forms\CADD\Logos\Endpoint Solutions HI-Res.jpg
XREFS: \Survey Basemap-VUS Sherman Park.dwg; \22x34 Border Sherman Park.dwg; \Proposed Basemap-Sherman Park.dwg; \Proposed Grading-Sherman Park.dwg



WATER NOTE:
A NEW WATER SERVICE PERMIT FROM MILWAUKEE WATER WORKS WILL NEED TO BE OBTAINED BY THE CONTRACTOR/OWNER. ALL WATER SERVICE MATERIALS SHALL BE IN CONFORMANCE WITH THE MILWAUKEE WATER WORKS SPECIFICATIONS. CONTRACTOR TO COORDINATE AND VERIFY PRIOR TO CONSTRUCTION.

---	APPROXIMATE PROPERTY LINE
---	BUILDING
---	PAVEMENT/CONCRETE/EDGE OF GRASS
---	SAND/GRAVEL
---	TOE OF SLOPE/SWALE
---	TOP OF SLOPE
-X-	CHAINLINK FENCE UNLESS OTHERWISE NOTED
-OEL-	OVERHEAD ELECTRIC LINE
-C-	UNDERGROUND COMMUNICATIONS
-E-	UNDERGROUND ELECTRIC
-G-	GAS LINE
-S-	SEWER LINE (SANITARY/STORM)
-W-	ASSUMED ABANDONED WATER LINE
-W-	WATER MAIN / WATER SERVICE
○	LARGE ROCK
+	BOLLARD
+CO	CLEAN OUT
+DS	DOWNSPOUT
+MW	POSSIBLE MONITORING WELL
+OP	OLD POST
+P	POST
+X	GAS VALVE
+S	SIGN
+S	SPRINKLER HEAD
+S	WATER VALVE
+S	HYDRANT
+S	ELECTRIC VAULT
+S	STORM SEWER INLET/CATCH BASIN
+S	STORM SEWER MANHOLE/STRUCTURE
+S	SANITARY/STORM MANHOLE
+S	LIGHT POLE
+S	UTILITY POLE
+S	COMMUNICATIONS PEDESTAL/BOX
+S	ELECTRIC PEDESTAL/BOX OR ELECTRIC METER
+S	GAS METER
+S	HAND HOLE STRUCTURE
+S	EMERGENCY TELEPHONE
+S	POLE-MOUNTED TRANSFORMER
+S	PAD-MOUNTED TRANSFORMER
+S	END OF UTILITY LOCATE MARKING
+S	END OF UTILITY
+S	DECIDUOUS TREE
+S	CONIFEROUS TREE OR BUSH

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 2. COORDINATES ARE BASED ON NAD 83 WISCONSIN STATE PLANE, SOUTH ZONE, US FOOT, VERTICAL DATUM S NAVD 83.
 3. BEARINGS REFER TO THE WEST LINE OF THE NW 1/4 SECTION 13-7-21 AS N47°47'43"W.
 4. ALL UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO SITE DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
 5. ASSUMED ABANDONED WATER LINES ARE SHOWN PER PRIVATE LOCATOR. LINES COULD STILL BE ACTIVE BUT UNKNOWN.
 6. TREE SIZES ARE NOTED AND APPROXIMATE.



NOTES:
CONTACT PARKS FOR UTILITY LOCATE PRIOR TO DIGGERS HOTLINE AT PARKSHOTLINE@MILWAUKEECOUNTYWI.GOV 5 BUSINESS DAYS TO CLEAR
CONTACT THE CITY ON QUALIFIED SUBS TO WORK ON GRID

THE BOYS AND GIRLS CLUB OF WISCONSIN

PROPOSED UTILITY DETAIL

NORTH

SHERMAN PARK, 3000 N. SHERMAN BLVD

MILWAUKEE WISCONSIN 53210

DRAWN BY: NWD/JAH

CHECKED BY: NWD

APPROVED BY: JAH

DATE: 09/30/2024

PROJECT NO.

525-028-002

SHEET NO.

C9

Endpoint Solutions

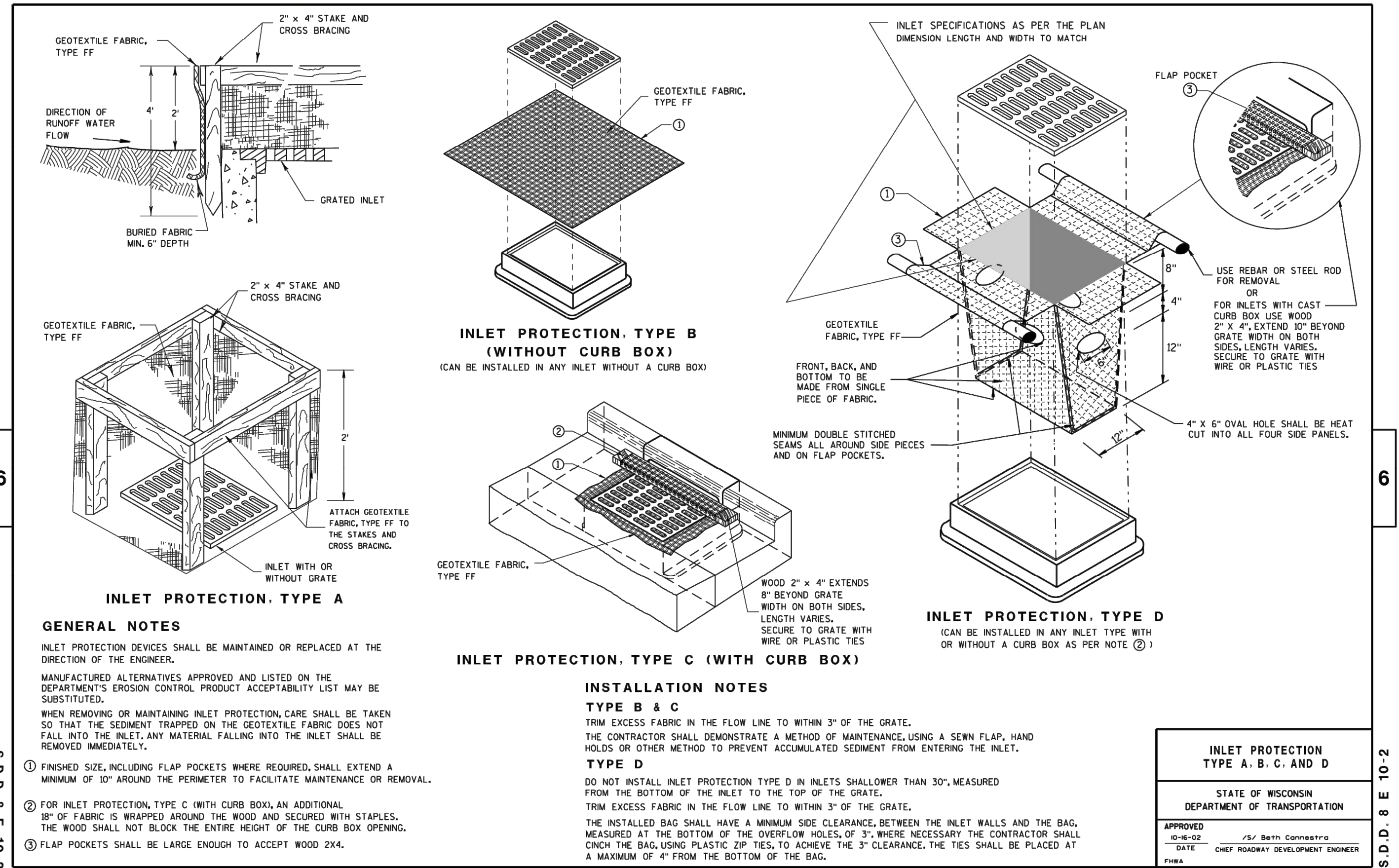
6871 S. LOVERS LANE

FRANKLIN, WI 53132

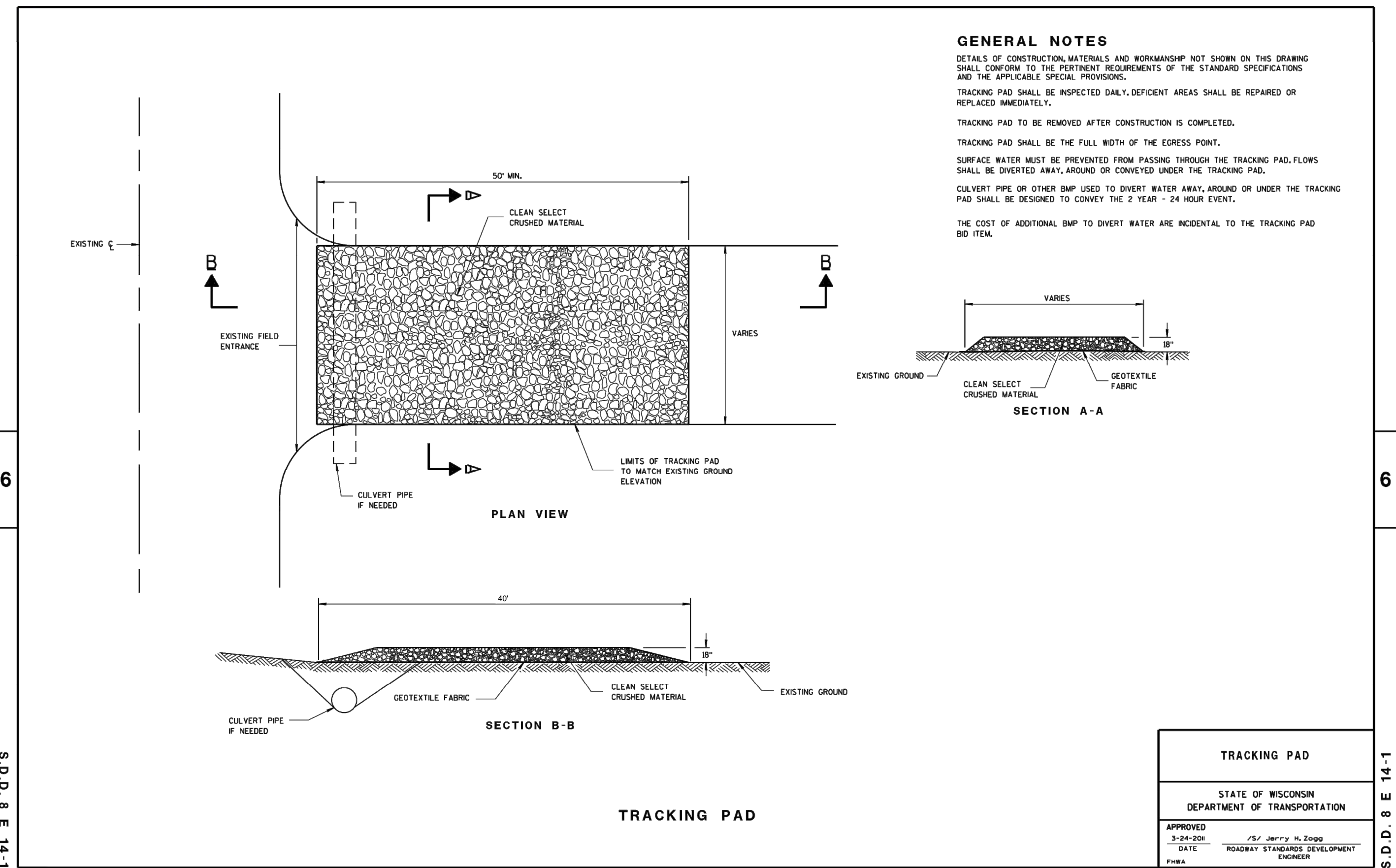
PHONE: (414) 427-1200

REV	DATE	
6		
5		
4		
3		
2		
1		
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8E10: Inlet Protection Type A, B, C and D

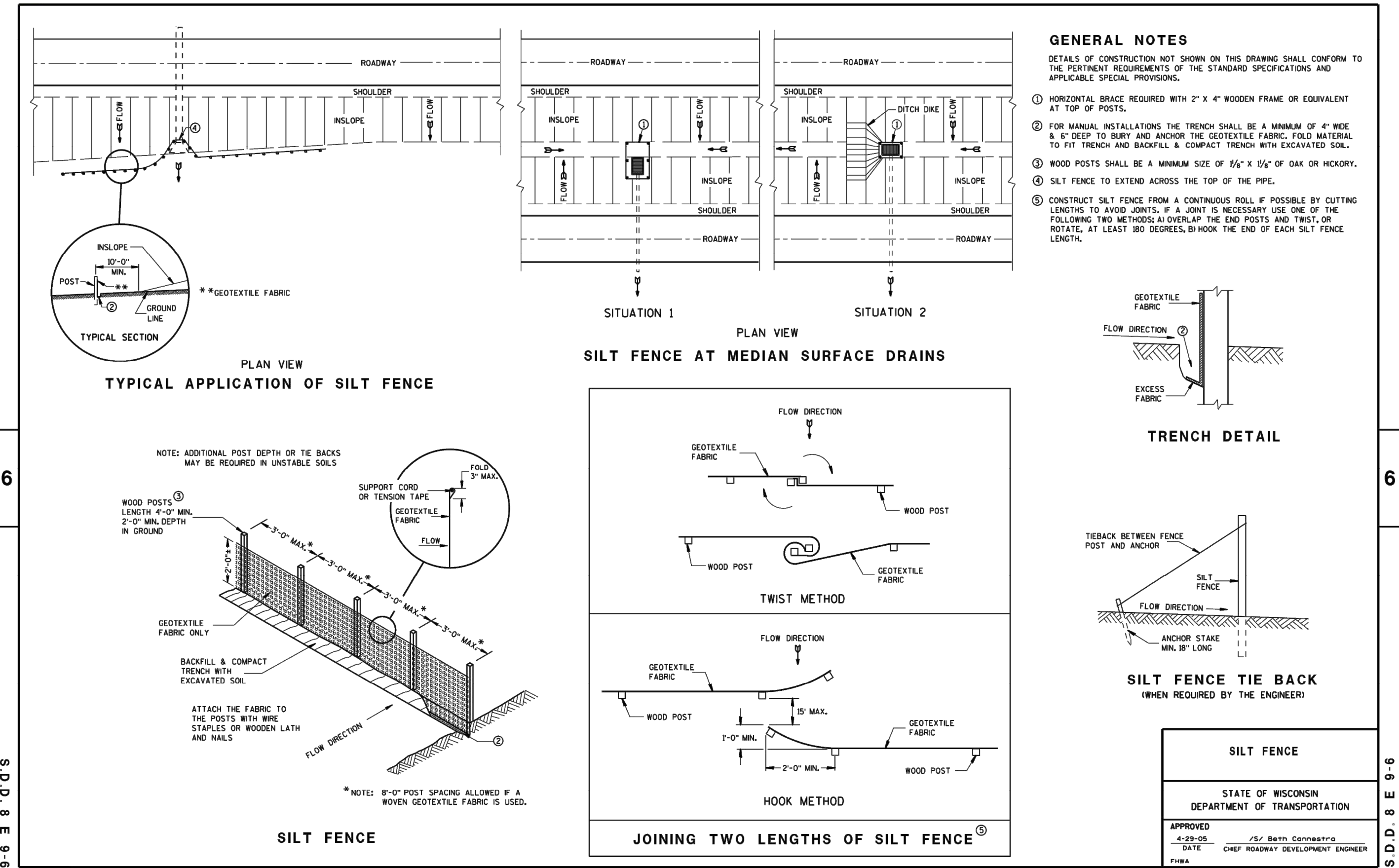


1 INLET PROTECTION
NOT TO SCALE



3 TRACKING PAD
NOT TO SCALE

8E9: Silt Fence



2 SILT FENCE
NOT TO SCALE

EROSION AND SEDIMENT CONTROL

- CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) CHAPTERS NR 151 AND NR 216, WISCONSIN ADMINISTRATIVE CODE, AND APPROPRIATE WDNR TECHNICAL STANDARDS. EROSION AND SEDIMENT CONTROL PRODUCTS SHALL BE LISTED IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION PRODUCT ACCEPTABILITY LIST (WisDOT PAL). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF THESE STATE REQUIREMENTS, TECHNICAL STANDARDS, AND WisDOT PAL.
- IMPLEMENT EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) PRIOR TO SOIL DISTURBING ACTIVITIES (E.G., CLEARING, GRUBBING, TOPSOIL STRIPING, EXCAVATION, MATERIAL STOCKPILING, ETC.). INSTALL EROSION CONTROL MEASURES AROUND STOCKPILE LOCATIONS.
- MINIMIZE DISTURBED AREA BY PHASING OR SEQUENCING CONSTRUCTION AND PRESERVING EXISTING VEGETATION WHERE POSSIBLE.
- DIVERT STORM WATER AWAY FROM DISTURBED OR EXPOSED AREAS WHEN POSSIBLE.
- PROTECT ADJACENT PROPERTIES WITH SEDIMENT BALE BARRIERS OR SILT FENCE UNTIL CONSTRUCTION IS COMPLETE IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS 1055 OR 1056, RESPECTIVELY.
- INSTALL A GRAVEL TRACKING PAD AT EACH NONPAVED CONSTRUCTION AREA ENTRANCE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1057. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPED PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
- PROTECT INLETS, CATCH BASINS, AND OTHER CONVEYANCE STRUCTURES WITH STRAW BALES, FILTER FABRIC, OR OTHER APPROPRIATE MEASURES IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1060.
- DURING DEWATERING ACTIVITIES, UTILIZE A COMPARTMENTED CONTAINER, SETTLING BASIN, FILTER, OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICE FOR TREATING SEDIMENT-LADEN WATER PRIOR TO DISCHARGE OFF-SITE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061.
- INSPECT THE SITE REGULARLY AND PROPERLY MAINTAIN BMPs, ESPECIALLY AFTER RAINSTORMS. AT MINIMUM, INSPECTIONS OF CONSTRUCTION BMPs ARE REQUIRED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.5 INCH OR MORE.
- BMPs MUST BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION OR NOTIFICATION OF A PROBLEM.
- KEEP THE CONSTRUCTION SITE CLEAN BY PUTTING TRASH IN TRASH CANS, KEEPING STORAGE BINS COVERED, AND PREVENTING OR REMOVING EXCESS SEDIMENT ON ROADS AND OTHER IMPERVIOUS SURFACES.
- SITE RESTORATION AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF INACTIVITY.

THE BOYS AND GIRLS CLUB OF WISCONSIN

EROSION CONTROL NOTES & DETAILS

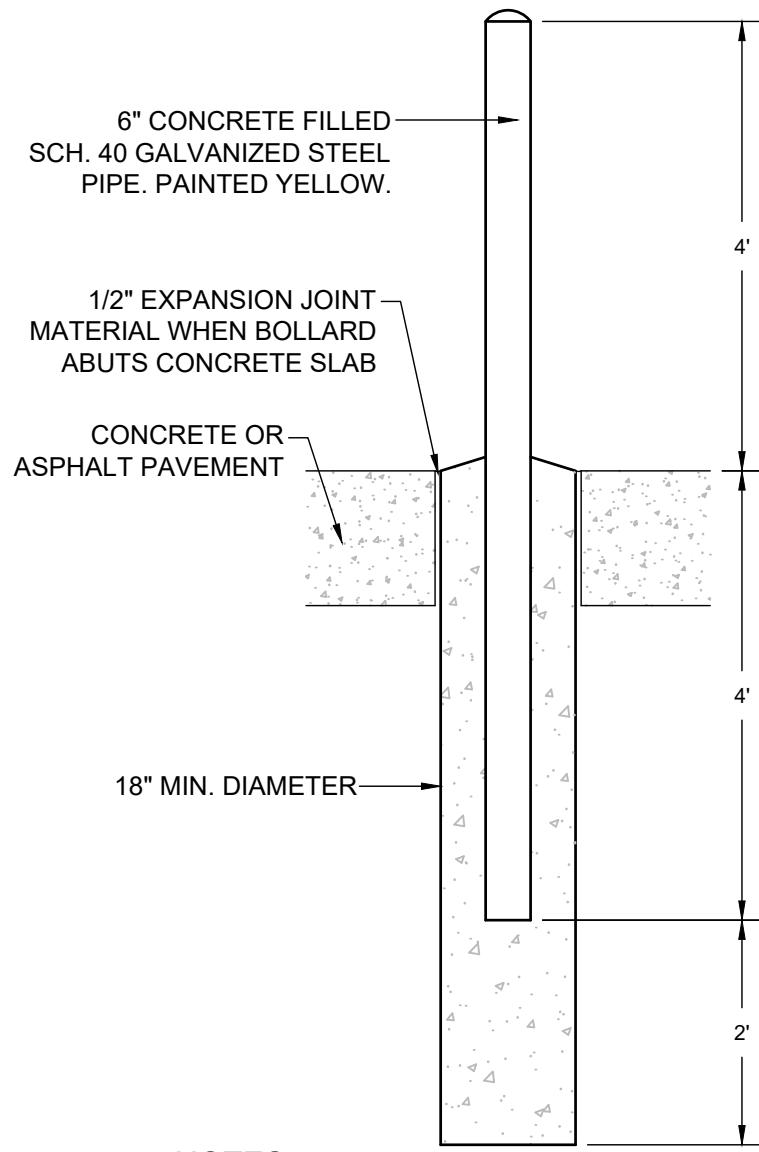
SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: NWD/JAH
CHECKED BY: NWD
APPROVED BY: JAH
DATE: 09/30/2024

PROJECT NO.
525-028-002

SHEET NO.
C10

Sep 30, 2024 1:00pm PLOTTED BY: jheinenon -SAVED BY: jheinenon
P:\VUS - 525\028 - Sherman Park-Boys and Girls Club\CAD\028-002 General Construction Notes.dwg - Layout1
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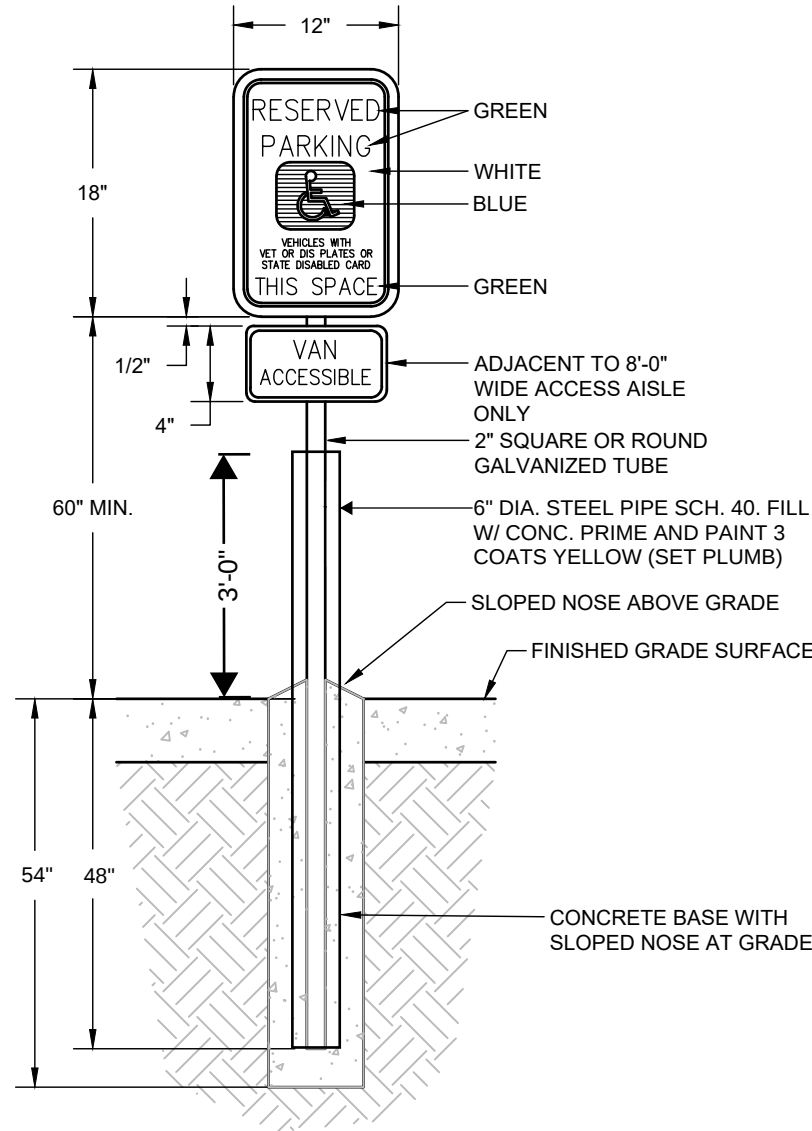


NOTES:
1. COORDINATE NUMBER AND LOCATION OF BOLLARDS WITH OWNER.

CRASH BOLLARD DETAIL

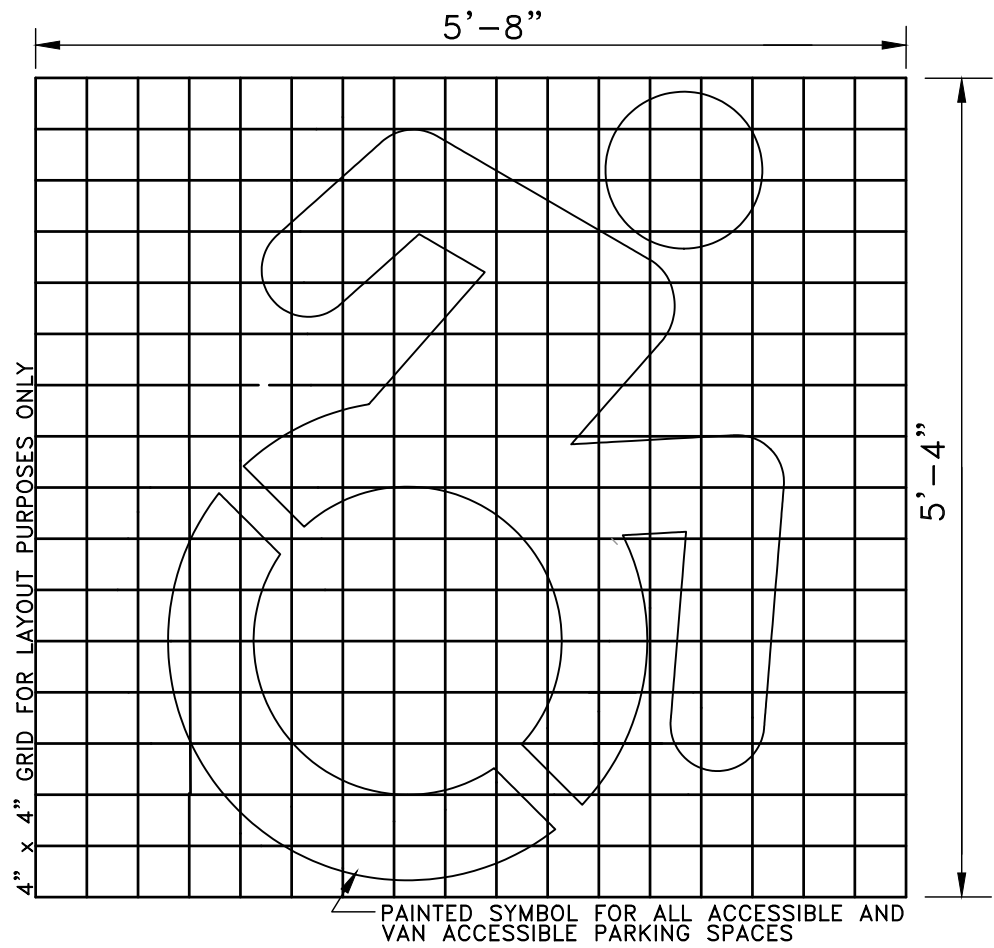
NOT TO SCALE

CRASH BOLLARDS LOCATED IN DUMPSTER ENCLOSURE - SEE ARCH PLANS



ACCESSIBLE PARKING SIGN

NOT TO SCALE



PAINTED ADA SYMBOL

NOT TO SCALE

GENERAL GRADING NOTES

- THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE D.O.T. STANDARD SPECIFICATIONS, LOCAL ORDINANCES AND SPECIFICATIONS, AND RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
- THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
- GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AND ON-SITE EARTHWORK BALANCE, GRADING THE PROPOSED BUILDING PADS AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
- THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS THE SITE SPECIFIC SWPPP (IF APPLICABLE). ALL LAND DISTURBING ACTIVITIES MAY BE SUBJECT TO INSPECTION BY LOCAL AUTHORITIES AND THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES.
- CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE EXTENT POSSIBLE. CONTRACTOR RESPONSIBLE FOR RESTORATION OF ALL DISTURBED AREAS.
- RUBBISH, TRASH, GARBAGE, LITTER OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REMOVAL OF CONSTRUCTION WASTE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE SITE HAS STABILIZED.
- NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE. THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE ANY MATERIAL IS PLACED.
- ALL FILL SHALL BE CONSIDERED STRUCTURAL FILL AND SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT
- BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE SIZE, LOCATION AND ELEVATION OF ALL UTILITIES.
- TEMPORARY EROSION CONTROL MATTING SHALL BE PLACED ON ALL SLOPES THAT ARE STEEPER THAN 4:1.
- ALL PROPOSED CONTOURS REPRESENT FINAL FINISHED GRADE ELEVATIONS.

GENERAL NOTES

- THE BIDDER WILL BE SOLELY RESPONSIBLE FOR QUANTITIES AND ESTIMATE OF WORK REQUIRED AND SHALL STATE SUCH QUANTITIES IN THEIR BID.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION OF THIS PROJECT.
- SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
- SOIL CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT IS AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT THEIR WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
- CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES DURING CONSTRUCTION. ANY PROPERTY (PRIVATE OR PUBLIC) WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE TO REQUEST FIELD STAKING OF EXISTING UTILITIES AND NOTIFY THE UTILITIES OF THE PROJECT COMPONENTS.
- CONTRACTOR SHALL ENSURE ALL MUD AND DEBRIS IS NOT DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE AGENCY HAVING JURISDICTION ON THE ROADWAYS.
- SUBMITTALS:
A. SHOP DRAWINGS AND/OR MANUFACTURER'S PRODUCT DATA SUBMITTALS ARE REQUIRED ONLY IF THE PRODUCT OR METHOD OF CONSTRUCTION:
a. IS DIFFERENT FROM THAT SPECIFIED OR
b. IS PART OF THE WORK THAT WILL BE DEDICATED AS A PUBLIC UTILITY OR ROADWAY AT THE END OF THE PROJECT OR
c. IF REQUIRED BY THE MUNICIPAL ENGINEER.
B. FOR UTILITY OR ROAD WORK THAT WILL BE DEDICATED TO A MUNICIPALITY, CONTRACTOR MUST MAKE SUBMITTALS TO THE MUNICIPALITY AS WELL AS ENGINEER.

PRIVATE UTILITIES

- THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE MILWAUKEE WATER WORKS SPECIFICATIONS, WISCONSIN ADMINISTRATIVE CODE, SECTION SPS 382-384, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
- PROPOSED STORM, SANITARY SEWER AND WATER MAIN SHOWN ON THIS PLAN SHALL TERMINATE AT A POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL.
- MATERIALS FOR PROPOSED STORM SEWER SHALL BE AS FOLLOWS:

STORM SEWER PIPE 24" OR LESS SHALL BE EITHER:

A. HIGH DENSITY POLYETHYLENE (HDPE) WITH A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS, SUCH AS ADS N-12 WT. HDPE PIPE SHALL CONFORM TO ASTM F2648 AND F2306. JOINTS SHALL BE WATER TIGHT CONFORMING TO ASTM D3212 WITH ELASTOMERIC SEALS (GASKETS) CONFORMING TO ASTM F477.

B. POLYVINYL CHLORIDE (PVC) PIPE, ASTM D-3034, SDR 35, WITH ELASTOMERIC PUSH-ON JOINTS CONFORMING TO ASTM D-3212.

C. REINFORCED CONCRETE, ASTM C-76, CLASS III OR GREATER, WITH ELASTOMERIC SEALS CONFORMING TO ASTM C-443.

TRENCH SECTION SHALL BE CLASS "C" FOR CONCRETE AND CLASS "B" FOR ALL OTHER MATERIALS.
- MATERIALS FOR WATER SERVICE SHALL BE AS FOLLOWS:

WATER SERVICE SHALL BE CLASS 55 DUCTILE IRON (DI), ASTM A-377, WITH ELASTOMERIC JOINTS (AWWA C-111), WITH A VALVE AT THE SUPPLY MAIN OR C900 PVC PRESSURE RATED FOR WATER.

TRENCH SECTION SHALL CONFORM TO SECTION 4.3.C, FILE NO. 38 OF THE STANDARD SPECIFICATIONS. SAND OR STONE CHIP BEDDING MATERIAL IS REQUIRED.
- EXTREME CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. MECHANICALLY COMPACTED GRANULAR BACKFILL IS REQUIRED UNDER & WITHIN 5 FEET OF ALL PAVEMENT INCLUDING SIDEWALKS. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED. THE COST OF THIS GRANULAR MATERIAL AND ITS COMPACTION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY.
- UPON COMPLETION OF FINAL PAVING OPERATIONS, THE UTILITY CONTRACTOR SHALL ADJUST ALL MANHOLE AND INLET RIMS AND VALVE BOXES TO FINISHED GRADE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH A SET OF MARKED-UP PRINTS SHOWING ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE OWNER.
- TRACER WIRE SHALL BE INSTALLED ON ALL BURIED NON-METALLIC SANITARY SEWERS, PRIVATE SANITARY INTERCEPTOR MAIN SEWERS, STORM BUILDING SEWERS, AND PRIVATE STORM INTERCEPTOR MAIN SEWERS THAT DISCHARGE TO MUNICIPAL MAINS. TRACER WIRE SHALL ALSO BE INSTALLED ON ALL BURIED NON-METALLIC WATER SERVICES AND PRIVATE WATER MAINS CONNECTED TO MUNICIPAL SUPPLY SYSTEMS. TRACER WIRE SHALL BE IN ACCORDANCE WITH SPS 382.30(11)(h) AND SPS 382.36(7)(d)10.b.

PAVING

- THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS, AND THE GEOTECHNICAL REPORT.
- PAVING SHALL CONSIST OF FINE GRADING PAVEMENT AREAS, INSTALLATION OF CRUSHED STONE BASE, CONCRETE AND/OR BITUMINOUS PAVEMENT, PAVEMENT MARKING, AND CLEANUP. ALL MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
- AGGREGATES USED IN THE HMA SHALL BE IN ACCORDANCE WITH SUBSECTION 460.2.2.3 OF THE STANDARD SPECIFICATIONS.
- CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS: SECTION 415 FOR CONCRETE PAVEMENT AND SECTION 602 FOR CONCRETE SIDEWALKS.
- PAVEMENT MARKINGS SHALL BE PAINT IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. THE FOLLOWING ITEMS SHALL BE PAINTED WITH COLORS NOTED BELOW:

PARKING STALLS: WHITE
PEDESTRIAN CROSSWALKS: WHITE
ADA SYMBOLS: BLUE OR PER LOCAL CODE
EXTERIOR SIDEWALK CURBED, LIGHTPOLE BASES, AND GUARD POSTS: YELLOW

THE BOYS AND GIRLS CLUB OF WISCONSIN

GENERAL CONSTRUCTION NOTES

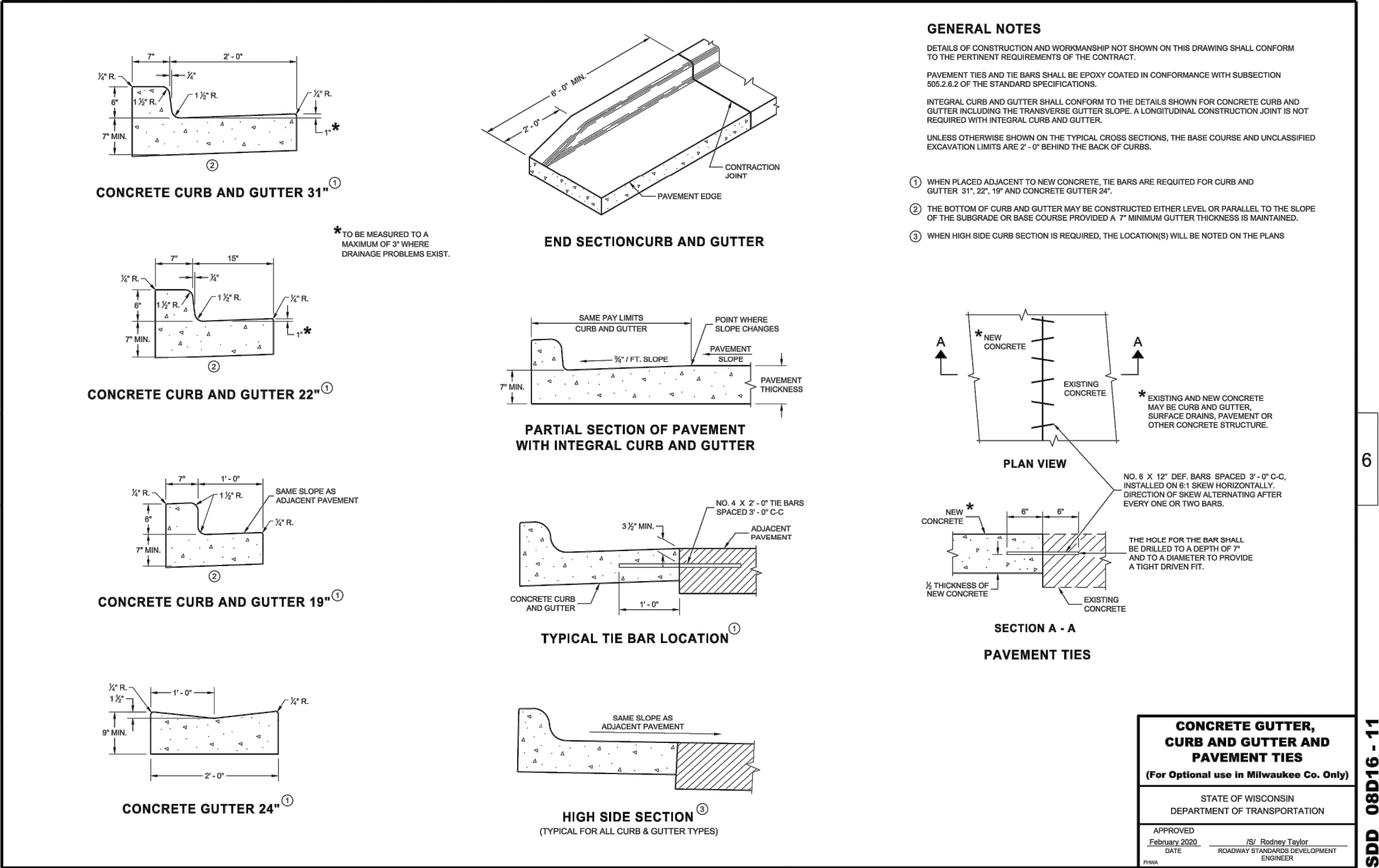
SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: NWD/JAH
CHECKED BY: NWD
APPROVED BY: JAH
DATE: 09/30/2024

PROJECT NO.
525-028-002

SHEET NO.
C11

SDD 08D16 Concrete Gutter, Curb and Gutter and Pavement Ties



31-IN. CONCRETE CURB & GUTTER

NOT TO SCALE



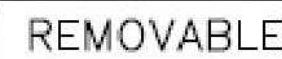
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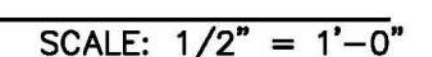
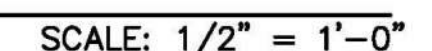
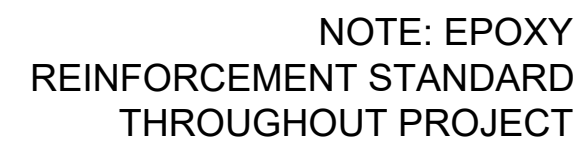
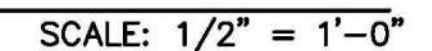
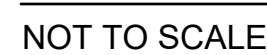
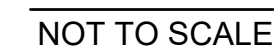
NOT TO SCALE



NOT TO SCALE



SCALE: 1" = 1'-0"



NOT TO SCALE

FRANKLIN, WI 53132
PHONE: (414) 427-1200

THE BOYS AND GIRLS CLUB OF WISCONSIN

CONSTRUCTION DETAILS

SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

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525-028-002

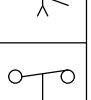
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C12

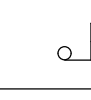
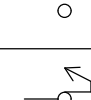
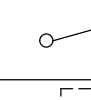
ABBREVIATIONS

A	AMPERE	MDR	MANUFACTURERS DESIGNATION FOR SPECIFIC POWER SUPPLY
AC	ALTERNATING CURRENT	MH	MANHOLE
A/C	AIR CONDITIONING	MTG	MOUNTING
AF	AMPERE FRAME, CKT. BKR. RATING	MIN	MINIMUM, MINUTES
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AH	AMP HOUR	MOV	MOTOR OPERATED VALVE
AHU	AIR HANDLING UNIT	MS	MOTOR STARTER
AL	ALUMINUM	MMS	MANUAL MOTOR STARTER
AI	ANALOG IN	MTD	MOUNTED
AIT	CHLORINE RESIDUAL ANALYZER	MTR	MOTOR
AM	AMMETER	MTS	MANUAL TRANSFER SWITCH
ANN	ANNUNCIATOR	MUX	MULTIPLEXING PANEL
AMP	AMPERES, AMPERAGE	N	NEUTRAL
AO	ANALOG OUT	NA	NON-AUTOMATIC
APC	AMERICAN POWER CORP.	NC	NORMALLY CLOSED
APPD	APPROVED	NO	NORMALLY OPEN
AS	AMMETER SWITCH	NO	NUMBER
AT	AMPERE TRIP	NOS	NUMBERS
ATS	AUTOMATIC TRANSFER SWITCH	NP	NAMEPLATE
AUTO	AUTOMATIC	(N)	NEW OR PROPOSED
AUX	AUXILIARY	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	O	OPEN
B	BLOWER	OC	ON CENTER
BATT	BATTERY	CC	CENTER TO CENTER
BKR	BREAKER	OL	OVERLOAD RELAY
BLDG	BUILDING	OSC	OSCILLATION
C	CONDUIT	P	POLE
CAB	CABINET	PB	PUSH BUTTON
CB	CIRCUIT BREAKER	PCM	PROCESS CONTROL MODULE
CKT	CIRCUIT	PCP	PROCESS CONTROL PANEL
CL	CIRCUIT	PF	POWER FACTOR
CO	CONDUIT ONLY	PH, Ø	PHASE
COM	COMMON	PI	PULSE IN
COMPT	COMPARTMENT	PIC	POTENTIOMETER
COMPR	COMPRESSOR	PL	PILOT LIGHT
COND	CONDUIT	PLC	PROGRAMMABLE LOGIC CONTROLLER
CP	CONTROL PANEL	PNL	PANEL
CPT	CONTROL POWER TRANSFORMER	PNLBD	PANELBOARD
CR	CONTROL RELAY	POS	POSITION
CT	CURRENT TRANSFORMER	PQM	POWER QUALITY MONITOR
CU	COPPER	POT	POTENTIOMETER
DC	DIRECT CURRENT	PR1	PRIMARY
DH	DATA HIGHWAY	P/S	POWER SUPPLY
DI	DIGITAL IN	PS	PRESSURE SWITCH
DIO	DIGITAL IN OUTPUT	PT	POTENTIAL TRANSFORMER
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE
DISTR	DISTRIBUTION	REC	RECEPTACLE
DPDT	DOUBLE POLE DOUBLE THROW	RECPITS	RECEPTACLES
DWG	DRAWING	REQD	REQUIRED
(E)	EXISTING	REV	REVERSE
EF	EXHAUST FAN	RGS	RIGID GALVANIZED STEEL
EHU	ELECTRIC HEATING UNIT	RTU	REMOTE TERMINAL UNIT
ELEV	ELEVATION	RVMR	REDUCED VOLTAGE NON-REVERSING
EMERG	EMERGENCY	RVSS	REDUCED VOLTAGE SOLID STATE
EMT	ELECTRICAL METALLIC TUBING	S	SOLENOID
ENCL	ENCLOSURE	SC	SHORT CIRCUIT CURRENT
EQPT	EQUIPMENT	SCH	SCHEDULE
ER	CONDUCTANCE RELAY	SEC	SECONDARY, SECONDS
EP	EXPLOSION PROOF	SECT	SECTION
ETM	ELAPSED TIME METER	SS	SELECTOR SWITCH
EXH	EXHAUST	SEQ	SEQUENCE
EXIST	EXISTING	SHLD	SHIELDED
FDR	FEEDER	SHT	SHEET
FLEX	FLEXIBLE	SIG	SIGNAL
FLUOR	FLUORESCENT	SP	SPARE
FUT	FUTURE	SPDT	SINGLE POLE DOUBLE THROW
FVR	FULL VOLTAGE REVERSING	SPECS	SPECIFICATIONS
FVMR	FULL VOLTAGE NON-REVERSING	SP	SPACE HEATER
FWD	FORWARD	SPST	SINGLE POLE SINGLE THROW
GALV	GALVANIZED	SS	SOLID STATE
GEN	GENERATOR	ST	SHUNT TRIP
GND	GROUND	STA	STATION
H	HOT CONDUCTOR	STD	STANDARD
HH	HAND HOLE	STL	STEEL
HID	HIGH INTENSITY DISCHARGE	STR	STARTER
HG	MERCURY	SOV	SOLENOID OPERATED VALVE
HMI	HUMAN MACHINE INTERFACE	SW	SWITCH
HOA	HAND-OFF-AUTOMATIC	SYS	SYSTEM
HP	HORSEPOWER	SYM	SYMMETRICAL
HPS	HIGH PRESSURE SODIUM	TB	TERMINAL BOX
HT TR	HEAT TRACED	TC	TIME CLOCK
HTR	HEATER	TACH	TACHOMETER
HVAC	HEATING, VENTILATING, A/C	TEMP	TEMPERATURE
HZ	HERTZ - CYCLES PER SECOND	TERM	TERMINAL
IMC	INTERMEDIATE METAL CONDUIT	TSTAT	THERMOSTAT
INCAND	INCANDESCENT	TR	TIMING RELAY
IND	INDICATION, INDICATING	TD	TIME DELAY
I/O	INPUT/OUTPUT	TS	TEMPERATURE SWITCH
INST	INSTANTANEOUS	TSP	TWISTED SHIELDED PAIR
INSTR	INSTRUMENT	TU	TREATMENT UNIT
INVT	INVERT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
JB	JUNCTION BOX	TYP	TYPICAL
J BOX	JUNCTION BOX	UG	UNDERGROUND
KVA	KILO VOLT AMPERES	UH	UNIT HEATER
KW	KILOWATTS	UI	UNIVERSAL IN
KWH	KILOWATT HOUR	UON	UNLESS OTHERWISE NOTED
KCM	1,000 CIRCULAR MILS	UPS	UNINTERRUPTIBLE POWER SUPPLY
L	LINE	V	VOLTAGE, VOLTS
LC	LIGHTING CONTACTOR	VAR	VAR METER
LCB	LOCAL CONTROL BOARD	VFD	VARIABLE FREQUENCY DRIVE
LCP	LOCAL CONTROL PANEL	VP	VAPOR PROOF
LOC	LOCAL	VS	VOLTMETER SWITCH, VARIABLE SPEED
LO	LOCKOUT	W	WATTS, WIRE
LOS	LOOKOUT STOP	WHD	WATTHOUR DEMAND METER
LS	LEVEL SWITCH	WHM	WATTHOUR METER
LT	LIGHT	WP	WEATHERPROOF
LTG	LIGHTING		
LTS	LIGHTS		
M	MOTOR CONTACTOR COIL		
mA	MILLIAMPS		
MAN	MANUAL		
MAG	MAGNETIC		
MAX	MAXIMUM		
MCC	MOTOR CONTROL CENTER		
MCB	MAIN CONTROL BOARD		
MCP	MOTOR CIRCUIT PROTECTOR		
MD	MOTORIZED DAMPER		

TIME DELAY CONTACTS

	OFF DELAY TIMER	INST. CLOSE TIME OPEN
		INST. OPEN TIME CLOSE
	ON DELAY TIMER	TIME CLOSE INST. OPEN
		TIME OPEN INST. CLOSE

OPERATORS

	LOCKOUT STOP PUSH BUTTON
	PUSHBUTTON NORMALLY CLOSED
	PUSHBUTTON NORMALLY OPEN
	TWO POSITION SELECTOR SWITCH
	THREE POSITION SELECTOR SWITCH X DENOTES CLOSED CONTACT IN THAT POSITION
	TOSGLE SWITCH
	PILOT LIGHT - PUSH TO TEST, X DENOTES COLOR

DRAWING LEGEND

	EXISTING EQUIPMENT, WIRING, DEVICES
	NEW WORK
	DEMOLISH OR REMOVE
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	EQUIPMENT OR DEVICE TAG
	SHEET NOTE TAG
	HVAC/LIGHTING DESIGNATION
	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R
	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R
	STRIP OR TROFFER TYPE LIGHTING FIXTURE
	EMERGENCY CIRCUIT LIGHTING FIXTURE
	EXTERIOR WALL-PACK LIGHTING FIXTURE
	LED EXIT LIGHT
	LED EXIT LIGHT WITH DUAL LIGHTING HEADS
	DUAL TECHNOLOGY OCCUPANCY SENSOR
	ELECTRIC MOTOR
	JUNCTION BOX, SIZE PER NEC
	WALL MOUNTED LUMINAIRE
	LIGHT SWITCH, SUBSCRIPT "s" INDICATES LUMINAIRE CONTROLLED, MOUNT AT 48"
	3/4" x 8" CU CLAD GROUND ROD.
	UNDERGROUND CONDUIT OR DUCTBANK.
	INSTRUMENTATION DEVICE
	MINI-POWER ZONE (COMBINATION TRANSFORMER & PANELBOARD)
	SHORT HASH MARK INDICATES HOT WIRE
	INDICATES GROUND CONDUCTOR
	LONG HASH MARK INDICATES NEUTRAL WIRE
NOTE: NO HASH MARK INDICATES 3/4"2, 2#12+1#12G	

ELECTRICAL COMPONENTS

	EARTH GROUND
	CHASSIS GROUND
	GROUNDLED RECEPTACLE
	FUSE
	HORN
	TRANSFORMER
	SOLENOID
	OVERLOAD RELAY
	CIRCUIT BREAKER
	MOTOR (NO. DENOTES HORSEPOWER)
	COIL
	RELAY CONTACT, N.O.
	RELAY CONTACT, N.C.
	SHIELDED CABLE
	DIODE, SURGE SUPPRESSOR
	SURGE SUPPRESSOR
	TERMINAL BLOCK
	SEPARABLE CONNECTOR
	POTENTIOMETER
	CURRENT TRANSFORMER

NOTES-GENERAL ELECTRICAL CONSTRUCTION

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND ROUTE CONDUITS WITHOUT DISTURBING EXISTING UTILITIES. IN ADDITION, CONDUIT ROUTING MUST BE APPROVED BY THE PROCESS EQUIPMENT DESIGN ENGINEER. FEASIBILITY OF THE PROPOSED LOCATION OF THE EQUIPMENT SHALL BE FIELD VERIFIED. COORDINATE WITH ALL TRADES.
- VERIFY, LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES & DRAIN TILE. REPAIR ALL UTILITIES DAMAGED DURING CONSTRUCTION TO PROCESS EQUIPMENT DESIGNENGINEERS SATISFACTION.
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THEIR BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE INTENT OF THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.
- THE ELECTRICAL INSTALLATION SHALL COMPLY WITH ALL LOCAL, STATE, AND NATIONAL CODES, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
- ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES OR OTHER OSHA APPROVED NATIONALLY RECOGNIZED TESTING LABORATORIES.
- THE WORD PROVIDE AS USED ON THE DRAWINGS SHALL BE DEFINED AS CONTRACTOR FURNISHED AND INSTALLED.
- AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION WORK, THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT FOR LOCATING AND MARKING UTILITIES IN THE AREAS OF THE WORK.
- ALL UNDERGROUND CONDUITS SHALL BE PVC, SCHEDULE 40 OR BETTER UNLESS OTHERWISE NOTED.
- ALL PERMITS REQUIRED FOR THE WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE AUTHORITY HAVING JURISDICTION.
- PROVIDE LIGHTNING PROTECTION MEETING REQUIREMENTS OF UL 96A & NFPA 780

NOTES-RACEWAYS

- CONDUIT ROUTING SHOWN ON DRAWINGS IS DIAGRAMMATIC TO ILLUSTRATE DESIGN INTENT. CONTRACTOR SHALL FIELD DETERMINE THE MOST SUITABLE ROUTING TO FACILITATE INSTALLATION.
- ALL CONDUIT RUNS SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS AND OFFSETS. GENERALLY, A RUN OF CONDUIT CONTAINING LOW VOLTAGE (600 VOLT MAXIMUM) WIRE SHALL HAVE A MAXIMUM PULLING DISTANCE OF 300 FEET AND CONTAIN NO MORE THAN THREE AND ONE-HALF QUARTER BENDS (315 DEGREES TOTAL), INCLUDING OFFSETS AND BENDS LOCATED IMMEDIATELY ADJACENT TO THE PULL LOCATION. ON RUNS OVER 300 FEET THIS SHALL BE REDUCED TO TWO QUARTER BENDS (180 DEGREES TOTAL).
- FOR 600 VOLT CABLES, THE MINIMUM RADIUS OF CONDUIT BENDS SHALL BE SIX TIMES THE DIAMETER OF THE CONDUIT. WHERE BENDS OR OFFSETS ARE REQUIRED, THEY SHALL BE MADE WITH SUITABLE CONDUIT BENDING EQUIPMENT. A UNIFORM CIRCULAR CROSS SECTION OF THE CONDUIT SHALL BE MAINTAINED AT BENDS. NO SINGLE BEND SHALL BE GREATER THAN 90 DEGREES.
- CONDUIT UNIONS SHALL BE INSTALLED AT REMOVABLE DEVICES SUCH THAT THE DEVICES CAN BE EASILY AND INDEPENDENTLY REMOVED.
- NOT ALL FITTINGS REQUIRED FOR A COMPLETE CONDUIT SYSTEM ARE SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL THE NUMBER AND TYPE OF FITTINGS REQUIRED FOR A COMPLETE CONDUIT SYSTEM WHICH COMPLIES WITH ALL APPLICABLE CODES AND STANDARDS. THE THREADS OF FITTINGS, INCLUDING COVER SCREWS AND BOLTS, SHALL BE COATED WITH A CONDUCTIVE THREAD LUBRICANT PRIOR TO INSTALLATION TO PROTECT AGAINST CORROSION.
- ALL CONDUIT FITTINGS AND JUNCTION BOXES SHALL BE INSTALLED SO THAT THEIR COVERS ARE EASILY REMOVED.
- ALL METALLIC CONDUIT SHALL BE TERMINATED WITH INSULATED BUSHINGS TO PREVENT DAMAGE TO WIRE DURING PULLING OPERATIONS, EXCEPT IN ENCLOSURES WHERE HUB DESIGN IS ADEQUATE TO PREVENT INSULATION DAMAGE. GROUNDING CONNECTIONS SHALL BE PROVIDED ON ALL INSTALLED BUSHINGS FOR GROUND CONTINUITY.
- CONDUITS SHALL NOT BE SUPPORTED FROM EQUIPMENT OR PIPING. CONDUITS SHALL BE SUPPORTED AT INTERVAL AS REQUIRED BY NEC 344.30, "SECURING AND SUPPORTS" AND TABLE 344.30(B)(2), TO PREVENT NOTICEABLE SAG. NO NOTICEABLE SAG SHALL BE ALLOWED. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL SUPPORT REQUIRED TO PREVENT OBJECTIONABLE SAG.
- LIQUID-TITE FLEXIBLE CONDUIT WITH PVC JACKET SHALL BE USED WHERE VIBRATION IS PRESENT, WHERE FLEXIBILITY IS REQUIRED, AND AT ALL MOTOR CONDUIT BOXES. TERMINATIONS OF FLEXIBLE METALLIC CONDUIT SHALL BE MADE USING LIQUID-TIGHT CONNECTORS WITH INTEGRAL INSULATED BUSHINGS AND POSITIVE GROUND CONNECTIONS. THE MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 24 INCHES FOR INSTRUMENTS AND EQUIPMENT, 36 INCHES FOR MOTORS, AND 48 INCHES FOR LIGHTING.
- ALL ABOVE GROUND, STRAIGHT CONDUIT RUNS OVER 200 FEET LONG SHALL HAVE EXPANSION FITTINGS, WITH PROVISION FOR 4 INCHES TOTAL EXPANSION. BONDING JUMPERS SHALL BE INSTALLED TO ASSURE GROUNDING CONTINUITY.
- THREADED JOINTS FOR CONDUITS SHALL BE MADE UP WITH A METAL OXIDE PAINT SUCH AS "T&B" KOPR-SHIELD, BURNDY PENETROX E OR APPROVED EQUAL.
- PROVIDE ABOVE GRADE CONDUIT SUPPORT AT LEAST EVERY 10 FEET. FASTEN CONDUIT WITHIN 3 FEET OF EACH OUTLET BOX OR FITTING.
- USE CABLE PULLING LUBRICANT, SUCH AS, POLYWATER OR EQUAL FOR CABLE PULLS IN CONDUIT GREATER THAN 10-FEET.
- RIGID STEEL CONDUIT (RGS) REQUIRED IN EXPOSED EXTERIOR LOCATIONS. ELECTRICAL METAL TUBING (EMT) SHALL BE PERMITTED WITHIN INTERIOR SPACES.

NOTES-WIRING

- SINGLE OR MULTICONDUCTOR CABLE MAY BE USED FOR CONTROL, INSTRUMENT, COMMUNICATION AND SIGNAL CIRCUITS. SINGLE-CONDUCTOR SHALL BE #14 AWG MINIMUM. SINGLE PAIRED CABLES SHALL BE #18 AWG MINIMUM. AND MULTICONDUCTOR CABLE SHALL BE #18 AWG MINIMUM. CIRCUITS CLASSIFIED AS CLASS I CIRCUITS BY NEC ARTICLE 725 SHALL BE #18 AWG MINIMUM, 600 VOLT INSULATION CLASS.
- ALL FIELD POWER, CONTROL AND LIGHTING CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

POWER FEEDER WIRE SHALL BE IDENTIFIED BY THE FOLLOWING COLORS
CONTROL WIRING SHALL BE IDENTIFIED BY THE FOLLOWING COLOR CODE
• RED - ALL 120VAC CONTROL WIRING FROM PANEL POWER SOURCE.
• WHITE - ALL NEUTRAL AC CURRENT-CARRYING CONTROL CIRCUIT CONDUCTORS
• BLUE - UNGROUND DC CURRENT-CARRYING CONTROL CIRCUIT CONDUCTORS.
• BLUE/WHITE STRIPE - GROUND DC CURRENT-CARRYING CONTROL CIRCUIT CONDUCTORS.
• YELLOW - ALL PANEL CONTROL WIRING FROM AN EXTERNAL POWER SOURCE.

ALL INTERIOR CONTROL PANEL WIRING SHALL BE PER UL 508A, LATEST EDITION.
- NO MORE THAN TWO CONDUCTORS SHALL BE CONNECTED TO ANY ONE TERMINAL ON A TERMINAL STRIP. IF MORE THAN TWO CONDUCTORS MUST BE TERMINATED AT THE SAME POINT, THE TERMINATIONS SHALL BE MADE ON AS MANY TERMINALS AS NECESSARY AND THE TERMINALS INTERCONNECTED WITH JUMPERS. THE JUMPERS SHALL BE PHYSICALLY SEPARATED FROM THE CONDUCTORS.
- FOR POWER AND LIGHTING CIRCUITS, 600 VOLTS AND BELOW, THE SMALLEST WIRE SHALL BE #12 AWG, EXCEPT THAT #14 AWG SHALL BE USED FOR CONTROLS. WIRES SHALL BE SINGLE CONDUCTOR, COPPER, STRANDED 600 VOLT HEAT AND MOISTURE RESISTANT THERMOPLASTIC INSULATED TYPE "THHN/THWN", UNDERGROUND CONDUCTORS MUST BE XHHW, UNLESS OTHERWISE NOTED.
- #10 AWG OR LARGER SHALL BE XHHW-2 UNLESS NOTED OTHERWISE.
- MOTOR JUNCTION BOX CONNECTIONS SHALL BE CRIMP LUG/BOLTED CONNECTIONS WITH 3M MOTOR SPLICE KIT 5300 SERIES INSULATORS.

NOTES-GROUNDING

- ALL INSULATED GROUNDING CONDUCTORS SHALL BE MADE OF SOFT DRAWN, STRANDED COPPER WIRE, UTILIZING GREEN, FIRE RETARDANT INSULATION. ALL EXPOSED GROUNDING CONDUCTORS SHALL BE MINIMUM #6 AWG (UNLESS OTHERWISE NOTED), RIGIDLY SUPPORTED, AND PROTECTED FROM MECHANICAL INJURY.
- ALL UN-INSULATED GROUNDING CONDUCTORS (STRANDED OR SOLID) SHALL BE TINNED COPPER.
- ALL CONNECTIONS SHALL BE COATED WITH A CONDUCTIVE, CORROSION PREVENTIVE COMPOUND BEFORE JOINING.
- ALL COPPER BUS BARS MUST BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION.

NOTES-LABELING

- PROVIDE LAMINATED PLASTIC EQUIPMENT NAMEPLATE LABELS AT ALL FIELD DEVICES, DENOTING EQUIPMENT NAME, VOLTAGE AND FEEDER ORIGIN. PLASTIC NAMEPLATES SHALL BE WHITE WITH BLACK LETTERS. ALL PANELBOARD CIRCUIT DIRECTORIES SHALL BE UPDATED DENOTING NEW EQUIPMENT LOADS.
- ALL JUNCTION BOX COVERPLATES SHALL BE LABELED WITH CIRCUIT NUMBERS IT CONTAINS.
- NAMEPLATES AND TAGS SHALL BE PROVIDED FOR ELECTRICAL EQUIPMENT AND DEVICES, INCLUDING ALL PUSHBUTTONS, SELECTOR SWITCHES, CIRCUIT BREAKERS AND STARTERS. WHERE EQUIPMENT ALSO CAN BE STARTED FROM ANOTHER LOCATION, OR STARTED AUTOMATICALLY, A CAUTION NAMEPLATE SHALL BE PROVIDED.
- THE NAMEPLATE DESCRIPTION SHALL SHOW THE EQUIPMENT NUMBER AND SERVICE OF THE CONTROLLED EQUIPMENT. ALL PANELBOARDS SHALL HAVE NAMEPLATES STATING THE APPROPRIATE DESIGNATION, VOLTAGE, CONTINUOUS RATING, AND NUMBER OF PHASES. LIGHTING AND POWER PANELS SHALL BE SUPPLIED WITH COMPLETED CIRCUIT DIRECTORIES.
- ALL WIRING SHALL BE IDENTIFIED AT EACH TERMINATION WITH PERMANENT, PRINTED, HEAT-SHRINKABLE PLASTIC SLEEVES OR WITH CLEAR, HEAT-SHRINKABLE SLEEVES THAT COVER ADHESIVE WRAP-ON MARKERS. CONTRACTOR SHALL USE A BRADY OR EQUAL TYPE WIRE MARKER. THE WIRE IDENTIFICATION NUMBER SHALL INCLUDE THE COMPLETE CIRCUIT OR INSTRUMENT NUMBER. THE WIRE IDENTIFICATION SHALL BE THE IDENTIFICATION SHOWN ON THE WIRING DIAGRAM. IF NONE IS SHOWN ON A WIRING DIAGRAM, THE OWNERS REPRESENTATIVE SHALL BE CONSULTED FOR PROPER IDENTIFICATION. ELECTRICAL CABLES SHALL BE LABELED WITH THE CIRCUIT NUMBER AND PHASE DESIGNATION AT EACH END OF CABLE. IF THE CABLE IS IN CONDUIT, THE CONDUIT TAG MAY SERVE AS AN INDICATION OF THE CIRCUIT NUMBER FOR POWER CIRCUITS.

NOTES-DIGGING

- CONTACT PARKS FOR UTILITY LOCATE PRIOR TO DIGGERS HOTLINE AT PARKSHOTLINE@MILWAUKEECOUNTYWI.GOV 5 BUSINESS DAYS TO CLEAR
- CONTACT THE CITY ON QUALIFIED SUBS TO WORK ON GRID

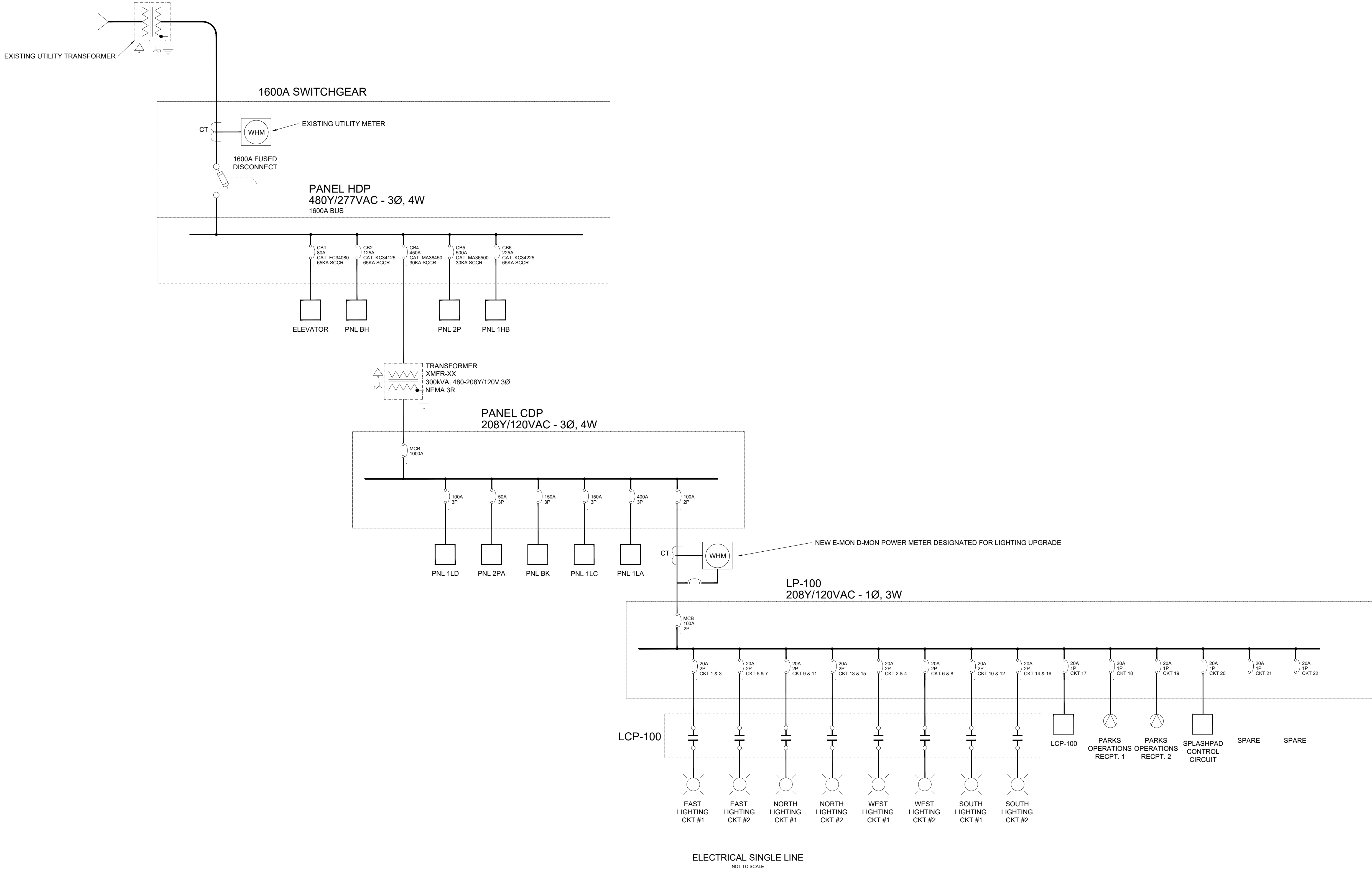
THE BOYS AND GIRLS CLUB OF WISCONSIN
ELECTRICAL NOTES & SYMBOLS
SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY:	BDC	DATE:	
CHECKED BY:	JS	9/30/2024	
APPROVED BY:	JS		

PROJECT NO.
525-028-002

SHEET NO.

E1



GENERAL NOTES

- SEE SHEET E-1 FOR MISC ELECTRICAL NOTES AND LEGEND. SEE SHEETS E-3 & E-4 FOR ELECTRICAL SITE LAYOUT. SEE SHEET E-5 FOR ELECTRICAL SCHEDULES AND DETAILS
- ELECTRICAL CONTRACTOR (EC) TO COORDINATE WITH GENERAL CONTRACTOR (GC) FOR ALL UNDERGROUND CONDUITS. IT IS NOT THE RESPONSIBILITY OF THE ENGINEER TO VERIFY ANY AND ALL EXISTING UNDERGROUND OBSTRUCTIONS.
- EC SHALL BE RESPONSIBLE TO DETERMINE VOLTAGE DROP AND CONDUCTOR DE-RATING BASED ON PREFERRED ROUTING.
- EC TO REFERENCE LATEST REVISION OF NFPA 70 (NEC) FOR ALL APPLICABLE CODES REFERRING TO ELECTRICAL INSTALLATION.
- EC TO REFERENCE LAYOUT & DETAIL DRAWINGS FOR DETAILS/CLARIFICATION ON EQUIPMENT TO BE INSTALLED AS PART OF THIS DESIGN PACKAGE.

DRAWING NOTES

- ALL CONDUIT CONNECTIONS TO SHEET METAL ENCLOSURES SHALL UTILIZE MYERS-TYPE HUBS. NO "DOUBLE-LOCKNUTTED" CONDUIT CONNECTIONS SHALL BE PERMITTED.
- CIRCUIT BREAKER INTERRUPT CAPACITY BASED ON ESTIMATES OF EXPECTED INCOMING SHORT CIRCUIT CURRENT RATING COMBINED WITH LAYOUT GEOMETRY OF EQUIPMENT ON SITE.
- CONTRACTOR SHALL INCREASE CONDUCTOR SIZES AND QUANTITIES AS REQUIRED FOR VOLTAGE DROP BASED ON PREFERRED ROUTING PATH. CONTRACTOR SHALL PROVIDE HAND HOLES FOR TERMINATION AS DESCRIBED IN THE ATTACHED DRAWING DOCUMENTS.
- CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE AND WE-ENERGIES ON FINAL LOCATION OF NEW UTILITY SERVICE, METER AND LIGHTING PANEL LP-100.

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FLITEWAY
TECHNOLOGIES

4850 S. PENNSYLVANIA AVE SUITE 100
CUDAHY, WI 53110
PHONE: (414) 483-5600

THE BOYS AND GIRLS CLUB OF WISCONSIN

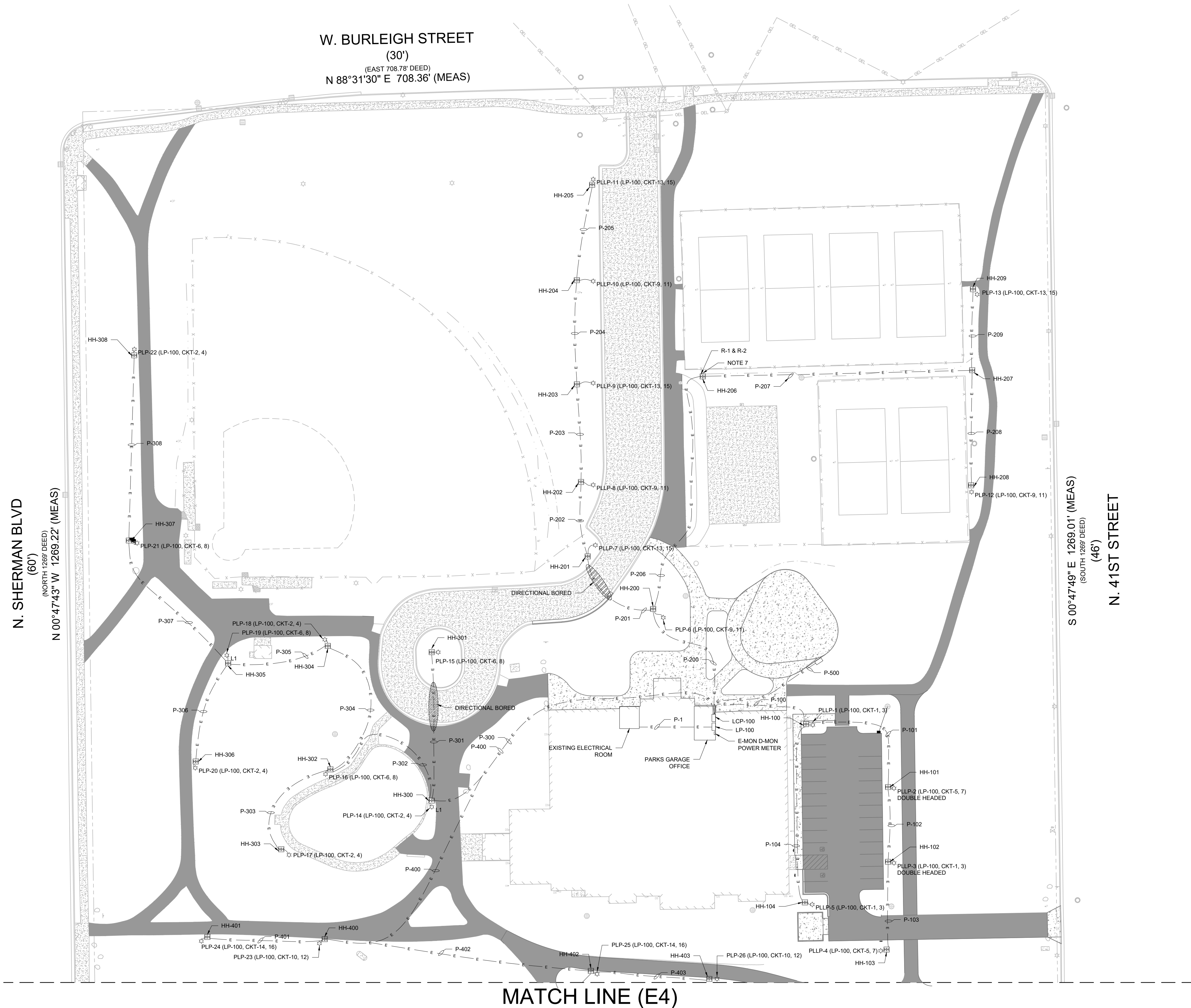
**ELECTRICAL
SINGLE LINE**

SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: BDC DATE:
CHECKED BY: JS 9/30/2024
APPROVED BY: JS

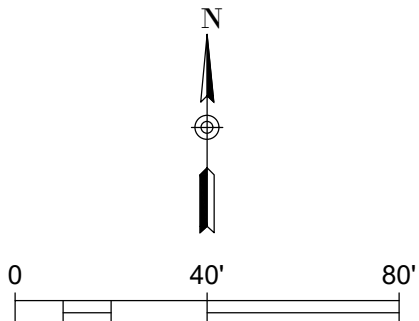
PROJECT NO.
525-028-002

SHEET NO.
E2



---	APPROXIMATE PROPERTY LINE
---	BUILDING
---	PAVEMENT/CONCRETE/EDGE OF GRASS
---	SAND/GRAVEL
---	TOE OF SLOPE/SWALE
---	TOP OF SLOPE
---	CHAINLINK FENCE UNLESS OTHERWISE NOTED
---	OVERHEAD ELECTRIC LINE
---	UNDERGROUND COMMUNICATIONS
---	UNDERGROUND ELECTRIC
---	GAS LINE
---	SEWER LINE (SANITARY/STORM)
---	ASSUMED ABANDONED WATER LINE
---	WATER MAIN / WATER SERVICE
---	MAJOR CONTOUR, (5' INTERVAL)
---	MINOR CONTOUR, (1' INTERVAL)
---	ASPHALT
---	BRICK
---	CONCRETE
---	LARGE ROCK
---	BOLLARD
---	CLEAN OUT
---	DOWNSPOUT
---	POSSIBLE MONITORING WELL
---	OLD POST
---	POST
---	GAS VALVE
---	SIGN
---	SPRINKLER HEAD
---	WATER VALVE
---	HYDRANT
---	ELECTRIC VAULT
---	STORM SEWER INLET/CATCH BASIN
---	STORM SEWER MANHOLE/STRUCTURE
---	SANITARY/STORM MANHOLE
---	LIGHT POLE
---	UTILITY POLE
---	COMMUNICATIONS PEDESTAL/BOX
---	ELECTRIC PEDESTAL/BOX OR ELECTRIC METER
---	GAS METER
---	HAND HOLE STRUCTURE
---	EMERGENCY TELEPHONE
---	POLE-MOUNTED TRANSFORMER
---	PAD-MOUNTED TRANSFORMER
---	END OF UTILITY LOCATE MARKING
---	END OF UTILITY
---	DECIDUOUS TREE
---	CONIFEROUS TREE OR BUSH

- NOTES:
- REFERENCE PLAT OF SURVEY FOR ADDITIONAL SITE DETAILS.
 - ALL UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO SITE DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
 - ALL UNDERGROUND CONDUIT SHALL BE TRENCHED. DIRECTIONAL BORED OR A COMBINATION OF THE TWO, THERE ARE SELECT AREAS AS NOTED ON THE DRAWINGS REQUIRING A DIRECTIONAL BORE.
 - THE CONTRACTOR SHALL DETERMINE THE BEST INSTALLATION METHOD BASED ON THE EXISTING SITE CONDITIONS.
 - CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE AND WE-ENERGIES ON FINAL LOCATION OF NEW UTILITY SERVICE, METER AND LIGHTING PANEL LP-100.
 - SINGLE DUSK TO DAWN PHOTOCELL WITH CONTROL RELAY LOGIC TO BE LOCATED AT LCP-100 FOR CONTROL OF EACH CIRCUIT.
 - HH-206 TO BE FULLY ENCLOSED STYLE TO HOLD A TWO-GANG BOX WITH (2) GFCI RECEPTACLES. THIS IS ONLY TO BE USED BY PARKS OPERATIONS STAFF AND WILL NOT BE OPEN/AVAILABLE TO THE PUBLIC.



THE BOYS AND GIRLS CLUB OF WISCONSIN
ELECTRICAL SITE LAYOUT
NORTH
SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

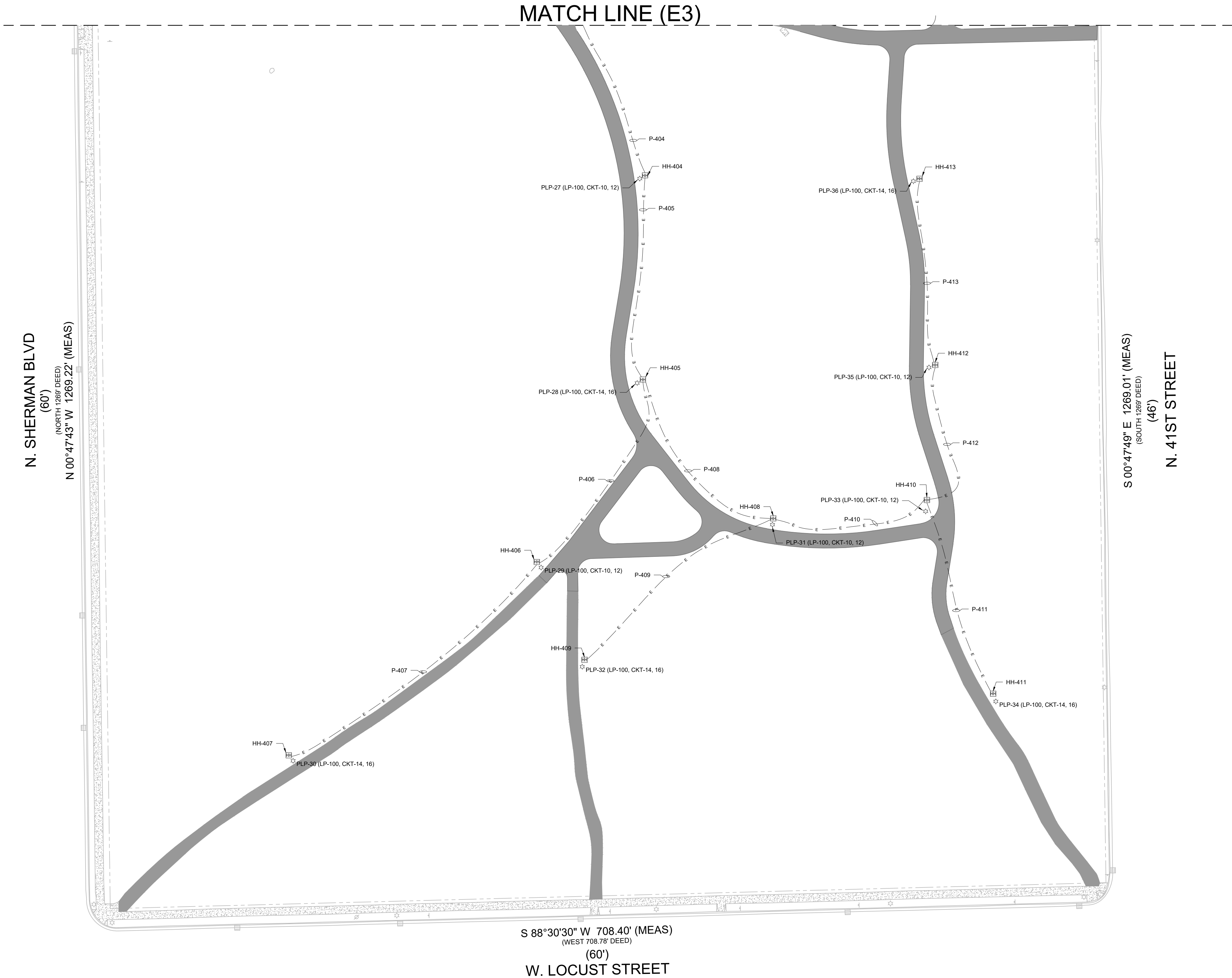
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APPROVED BY: JS

PROJECT NO.
525-028-002

SHEET NO.
E3

FLITEWAY
TECHNOLOGIES
4850 S. PENNSYLVANIA AVE SUITE 100
CUDAHY, WI 53110
PHONE: (414) 483-5600

REV	DATE
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**FLITEWAY**
TECHNOLOGIES

4850 S. PENNSYLVANIA AVE SUITE 100
CUDAHY, WI 53110
PHONE: (414) 483-5600

THE BOYS AND GIRLS CLUB OF WISCONSIN
ELECTRICAL SITE LAYOUT
SOUTH
SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

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APPROVED BY:	JS	

PROJECT NO.
525-028-002

SHEET NO.
E4

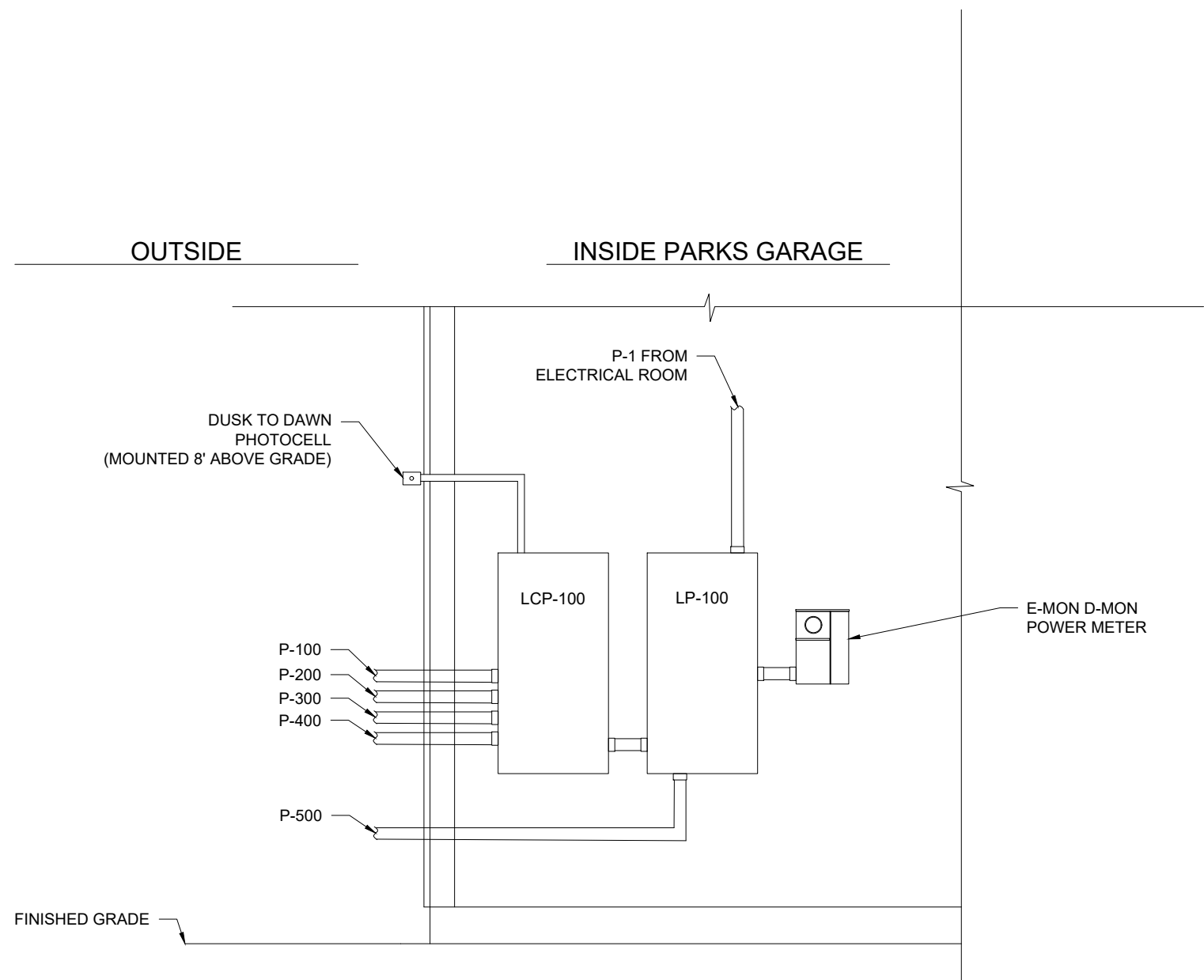
LIGHTING SCHEDULE				
TAG	DEVICE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	VOLTAGE WATTAGE	REMARKS
PLLP-XX	PARKING LOT LIGHT POLE	LUMINAIRE - CREE OSQ-M-C-16L-30K7-2M-UL-NM-BK MOUNT - CREE OSQ-ML-C-DA-BK LIGHT POLE - HAPCO RTA25C78F-BA	120-277V 86W	PHASE 1 CONSTRUCTION
PLP-XX	PATH LIGHT POLE	LUMINAIRE - CREE OSQ-M-C-11L-30K7-2M-UL-NM-BK MOUNT - CREE OSQ-ML-C-DA-BK LIGHT POLE - HAPCO RTA12B5AE-BA	120-277V 86W	PHASE 1 CONSTRUCTION
HH-XX	ELECTRICAL HAND HOLE	NEWBASIS PCX POLYMER CONCRETE ENCLOSURE BOX, OPEN BOTTOM CONSTRUCTION, 12" x 12" x 12" PN: PCA121212-00042	N/A	PHASE 1 CONSTRUCTION
HH-206	ELECTRICAL HAND HOLE	HUBBELL QUAZITE PC STYLE ENCLOSURE BOX, FULLY ENCLOSED CONSTRUCTION, 12" x 12" x 12" BOX PN: PC1212DG12 COVER PN: PC1212CG00	N/A	PHASE 1 CONSTRUCTION
R-1, R-2	GFCI RECEPTACLE	HUBBELL GFRST20W OR APPROVED EQUIVALENT	120VAC, 20A RATED 1920W	PHASE 1 CONSTRUCTION

LIGHTING SCHEDULE
NOT TO SCALE

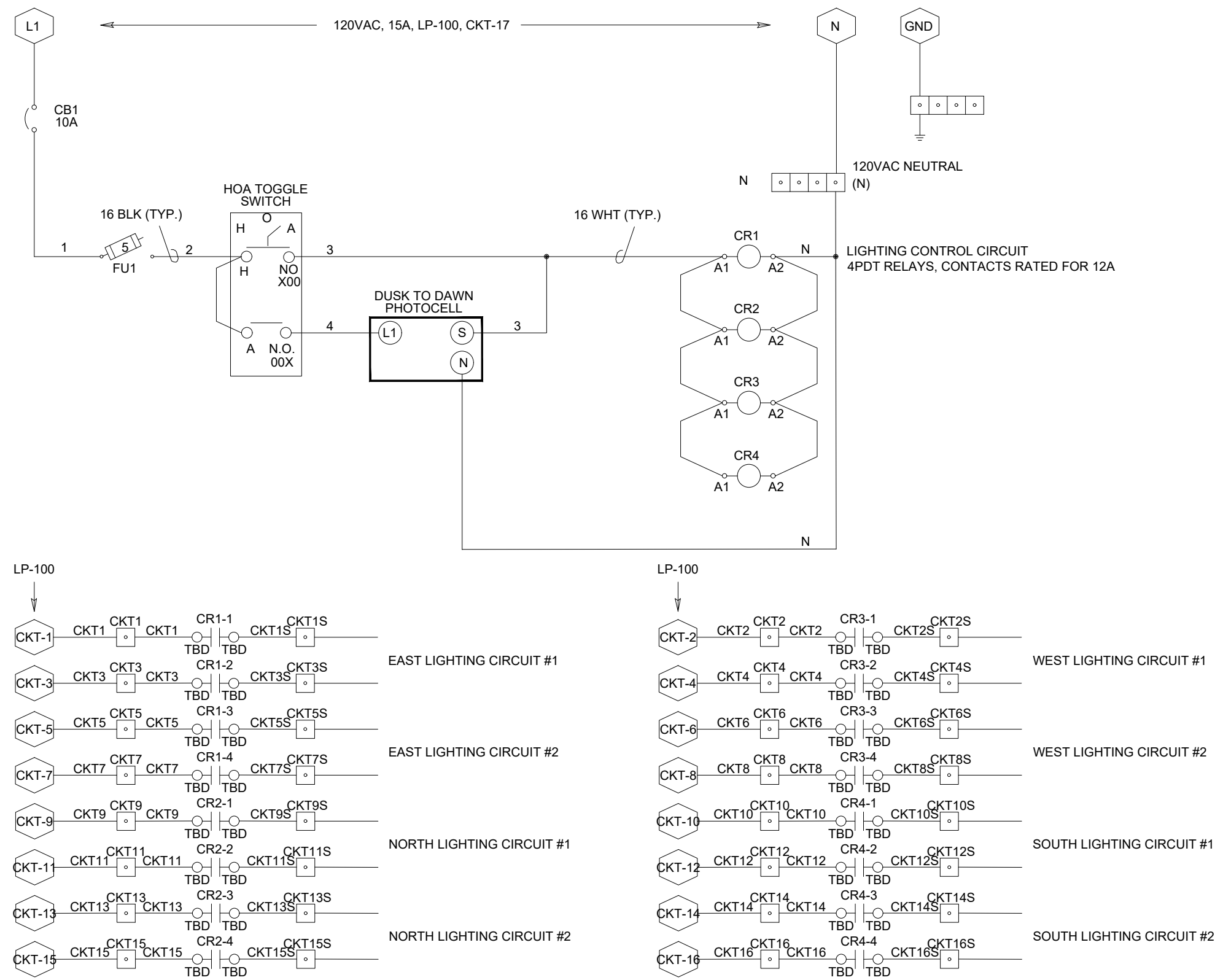
PANEL		PANEL LP-100					LOCATED ON NORTHWEST CORNER OF BUILDING									
VOLTS	120 / 208 V.	1 PHASE, 3 WIRE			MAIN NEMA TYPE		100		MCB		DOUBLE LUGS				NO	
BUS AMPS (COPPER)		100	GND	YES	NEUTRAL	YES	NEMA 3R		ISOLATED GND BUS				NO			
AIC BRACING (min)		22KA	FEED-THRU LUGS			NO	MOUNTING SURFACE		200% NEUTRAL				NO			
CKT	DESCRIPTION	L	R	T S O M A E H	CB	PHASE A B	CB	T S O M A E H	L	R	DESCRIPTION		CKT			
1	East Lighting Circuit #1	258			20		20			430	West Lighting Circuit #1		2			
3	LP-1, LP-3, LP-5										LP-14, LP-16, LP-18, LP-20, LP-22		4			
5	East Lighting Circuit #2										West Lighting Circuit #2		6			
7	LP-2, LP-4	172			20		20			344	LP-15, LP-17, LP-19, LP-21		8			
9	North Lighting Circuit #1	344			20		20			602	South Lighting Circuit #1		10			
11	LP-6, LP-8, LP-10, LP-12										LP-23, LP-25, LP-27, LP-29, LP-31, LP-33, LP-35		12			
13	North Lighting Circuit #2										South Lighting Circuit #2		14			
15	LP-7, LP-9, LP-11, LP-13	344			20		20			602	LP-24, LP-26, LP-28, LP-30, LP-32, LP-34, LP-36		16			
17	LCP-100	100			20		20			1920	HH-206 GFCI Receptacle #1		18			
19	HH-206 GFCI Receptacle #2	1920			20		20			1920	SplashPad Control Circuit		20			
21	Spare	0			20		20			0	Spare		22			
23													24			
25													26			
27													28			
29													30			
BRANCH CIRCUITS ABOVE		LOADS ABOVE ARE IN VOLT-AMPERES (VA)								BRANCH CIRCUITS ABOVE						
RECAP CATEGORIES		SUBFEED (kVA)	CONNECTED (kVA)		DF	DEMAND (kVA)		PANEL IDENTIFIERS NOTE: ALL CIRCUIT BREAKERS - 20A/1P UNLESS OTHERWISE NOTED "I" = MULTI-POLE CB POSITION "SPR" = SPARE CB "SP" = PLATED & BUSSED SPACE "CB" = CIRCUIT BREAKER "DF" = DEMAND FACTOR PER NEC "VA" = VOLT-AMPS "kVA" = KILOVOLT-AMPS "A" = AMPS								
LIGHTING			3.2	1.25	4.0	kVA										
RECEPT. (1ST 10KW)			3.8	1.00	3.8	kVA										
RECEPT. (REMAINDER)			0.0	0.50	0.0	kVA										
MOTORS			0.0	1.00	0.0	kVA										
LARGEST MOTOR			0.0	1.25	0.0	kVA										
APPLIANCES			0.0	1.00	0.0	kVA										
EQUIPMENT			1.9	1.00	1.9	kVA										
HEATING			0.0	1.00	0.0	kVA										
TRANSFORMER			0.0	1.00	0.0	kVA										
OTHER			0.0	1.00	0.0	kVA										
FEED-THRU LOADS			0.0	1.00	0.0	kVA										
TOTAL LOAD: kVA			9.0	kVA	9.8	kVA										
TOTAL LOAD: AMPS			43.1	A	46.9	A										
DESIGN SPARE					100	A										
					53.1	A										
LOAD ABBREVIATIONS		R = RECEPTACLE				M = HVAC or MOTOR		T = TRANSFORMER		O = OTHER						
L = LIGHTING		E = EQUIPMENT				A = APPLIANCE		S = SUBFEED (VIA CB)		H = HEATING						
* = EQUIPMENT PROVIDED BY OTHERS																

LP-100 PANELBOARD SCHEDULE
NOT TO SCALE

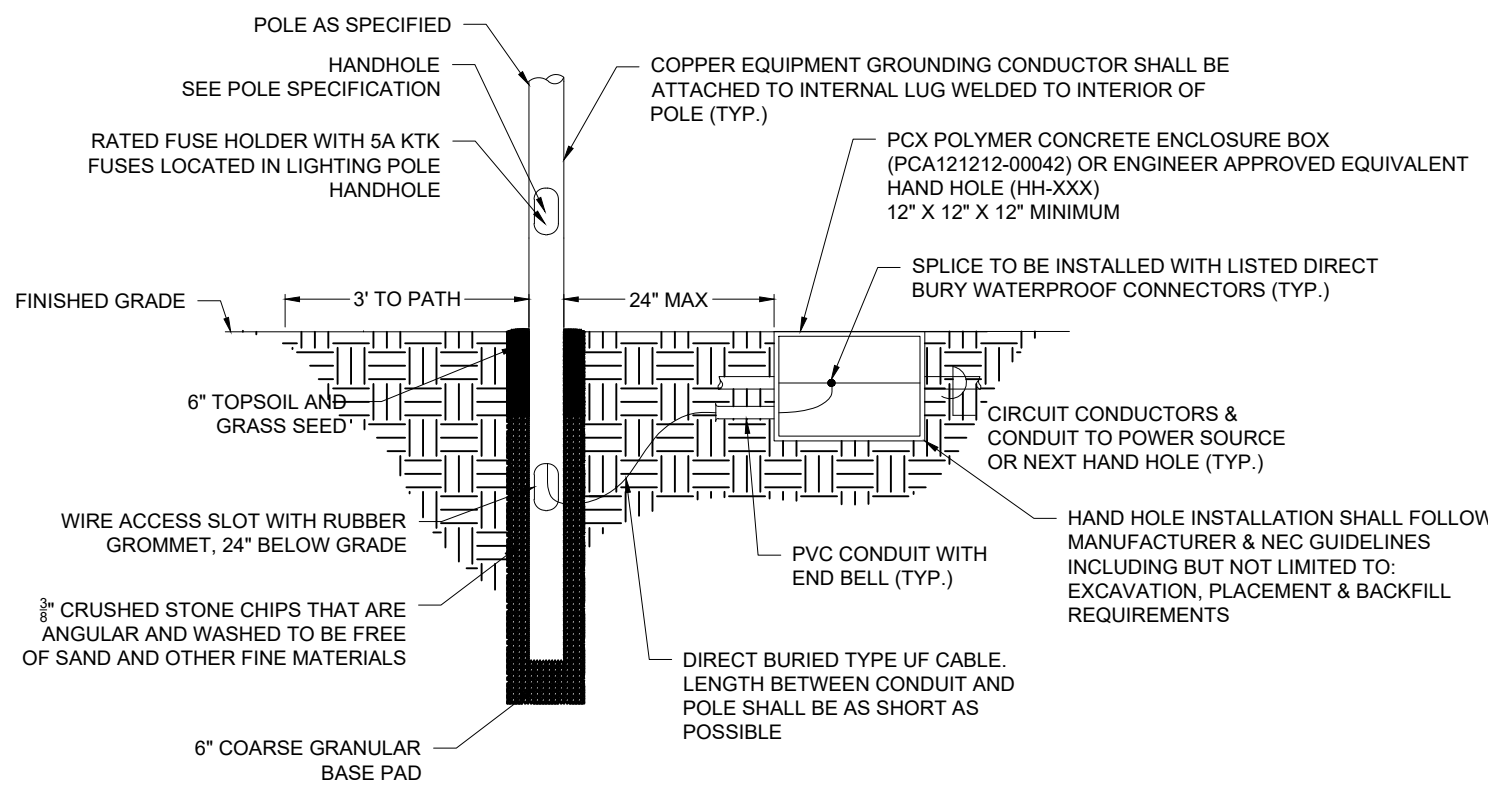
COND. #	VOLTAGE	CONDUIT TYPE	CONDUIT SIZE	CONDUCTOR SIZE & TYPE	ORIGATION	TERMINATION	COMMENTS
P-1	208	RGS	1-1/4"	(3) #1 XHHW-2 + #8 XHHW-2 GND	PANEL CPD	LP-100	
P-100	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	LCP-100	HH-100	
P-100A	208	-	-	#12-2 UF TYPE CABLE	HH-100	LP-1	FUSE HOLDER WITH 5-AMP KTK FUSE TO BE LOCATED IN LIGHT POLE HAND HOLE (TYP.)
P-101	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-100	HH-101	
P-101A	208	-	-	#12-2 UF TYPE CABLE	HH-101	LP-2	
P-102	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-100	HH-102	
P-102A	208	-	-	#12-2 UF TYPE CABLE	HH-102	LP-3	
P-103	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-102	HH-103	
P-103A	208	-	-	#12-2 UF TYPE CABLE	HH-103	LP-4	
P-104	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-103	HH-104	
P-104A	208	-	-	#12-2 UF TYPE CABLE	HH-104	LP-5	
P-200	208/120	HDPE	1-1/4"	(8) #10 XHHW-2 + #10 XHHW-2 GND	LCP-100	HH-200	Qty. (2) 120VAC CIRCUITS DESIGNATED FOR GFCI RECEPTACLES LOACTED IN HH-206
P-200A	208	-	-	#12-2 UF TYPE CABLE	HH-200	LP-6	
P-201	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-200	HH-201	
P-201A	208	-	-	#12-2 UF TYPE CABLE	HH-201	LP-7	
P-202	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-201	HH-202	
P-202A	208	-	-	#12-2 UF TYPE CABLE	HH-202	LP-8	
P-203	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-202	HH-203	
P-203A	208	-	-	#12-2 UF TYPE CABLE	HH-203	LP-9	
P-204	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-203	HH-204	
P-204A	208	-	-	#12-2 UF TYPE CABLE	HH-204	LP-10	
P-205	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-204	HH-205	
P-205A	208	-	-	#12-2 UF TYPE CABLE	HH-205	LP-11	
P-206	208/120	HDPE	1-1/4"	(8) #10 XHHW-2 + #10 XHHW-2 GND	HH-200	HH-206	Qty. (2) 120VAC CIRCUITS DESIGNATED FOR GFCI RECEPTACLES LOACTED IN HH-206
P-207	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-206	HH-207	
P-208	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-207	HH-207	
P-208A	208	-	-	#12-2 UF TYPE CABLE	HH-208	LP-12	
P-209	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-207	HH-209	
P-209A	208	-	-	#12-2 UF TYPE CABLE	HH-209	LP-13	
P-300	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	LCP-100	HH-300	
P-300A	208	-	-	#12-2 UF TYPE CABLE	HH-300	LP-14	
P-301	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-300	HH-301	
P-301A	208	-	-	#12-2 UF TYPE CABLE	HH-301	LP-15	
P-302	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-300	HH-302	
P-302A	208	-	-	#12-2 UF TYPE CABLE	HH-302	LP-16	
P-303	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-302	HH-303	
P-303A	208	-	-	#12-2 UF TYPE CABLE	HH-303	LP-17	
P-304	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-302	HH-304	
P-304A	208	-	-	#12-2 UF TYPE CABLE	HH-304	LP-18	
P-305	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-304	HH-305	
P-305A	208	-	-	#12-2 UF TYPE CABLE	HH-305	LP-19	
P-306	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-304	HH-306	
P-306A	208	-	-	#12-2 UF TYPE CABLE	HH-306	LP-20	
P-307	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-306	HH-307	
P-307A	208	-	-	#12-2 UF TYPE CABLE	HH-307	LP-21	
P-308	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-306	HH-307	
P-308A	208	-	-	#12-2 UF TYPE CABLE	HH-307	LP-22	
P-400	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	LCP-100	HH-400	
P-400A	208	-	-	#12-2 UF TYPE CABLE	HH-400	LP-23	
P-401	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-400	HH-401	
P-401A	208	-	-	#12-2 UF TYPE CABLE	HH-401	LP-24	
P-402	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-400	HH-402	
P-402A	208	-	-	#12-2 UF TYPE CABLE	HH-402	LP-25	
P-403	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-402	HH-403	
P-403A	208	-	-	#12-2 UF TYPE CABLE	HH-403	LP-26	
P-404	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-402	HH-404	
P-404A	208	-	-	#12-2 UF TYPE CABLE	HH-404	LP-27	
P-405	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-404	HH-405	
P-405A	208	-	-	#12-2 UF TYPE CABLE	HH-405	LP-28	
P-406	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-405	HH-406	
P-406A	208	-	-	#12-2 UF TYPE CABLE	HH-406	LP-29	
P-407	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-406	HH-407	
P-407A	208	-	-	#12-2 UF TYPE CABLE	HH-407	LP-30	
P-408	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-405	HH-408	
P-408A	208	-	-	#12-2 UF TYPE CABLE	HH-408	LP-31	
P-409	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-408	HH-409	
P-409A	208	-	-	#12-2 UF TYPE CABLE	HH-409	LP-32	
P-410	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-408	HH-410	
P-410A	208	-	-	#12-2 UF TYPE CABLE	HH-410	LP-33	
P-411	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-410	HH-411	
P-411A	208	-	-	#12-2 UF TYPE CABLE	HH-411	LP-34	
P-412	208	HDPE	1-1/4"	(4) #10 XHHW-2 + #10 XHHW-2 GND	HH-410	HH-412	
P-412A	208	-	-	#12-2 UF TYPE CABLE	HH-412	LP-35	
P-413	208	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	HH-412	HH-413	
P-413A	208	-	-	#12-2 UF TYPE CABLE	HH-413	LP-36	
P-500	120	HDPE	1-1/4"	(2) #10 XHHW-2 + #10 XHHW-2 GND	LCP-100	SPLASHPAD	120VAC CIRCUIT FOR SPLASHPAD CONTROLS



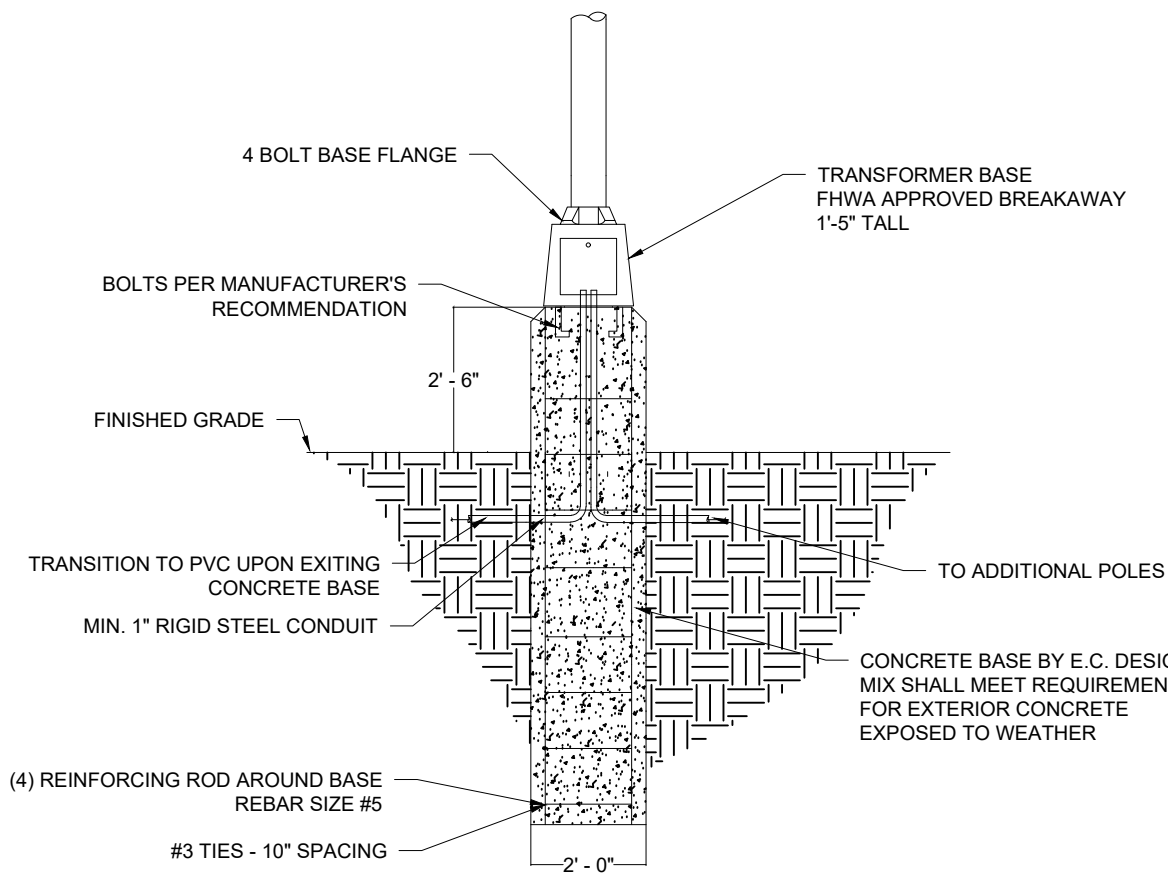
PANEL ELEVATION
NOT TO SCALE



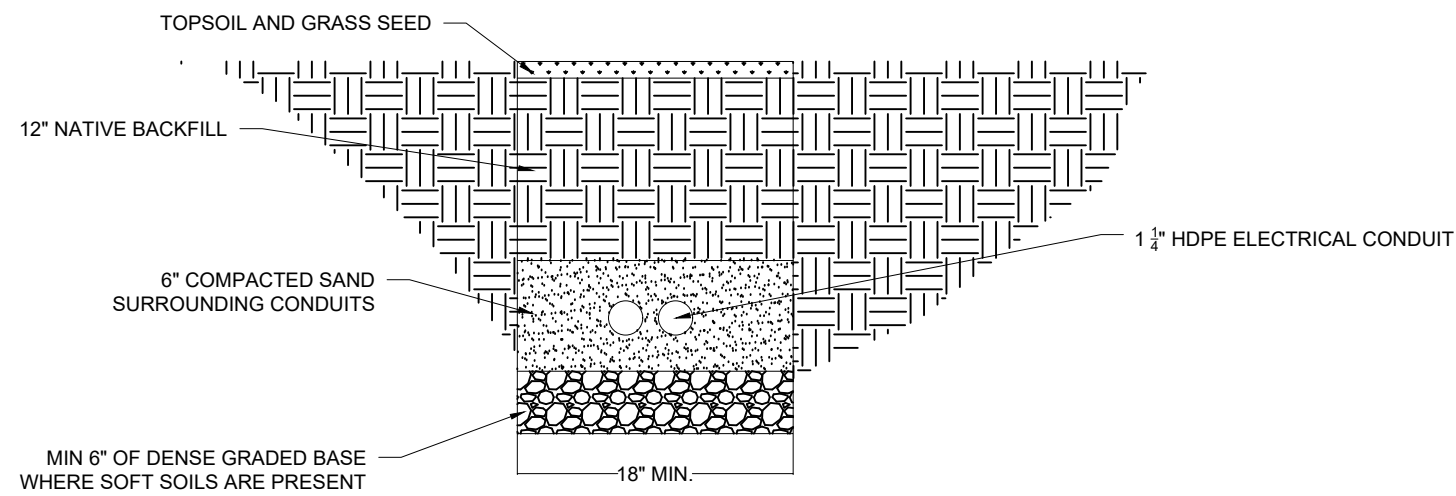
LIGHTING CONTROL PANEL LCP-100 CIRCUIT
NOT TO SCALE



DIRECT BURY POLE DETAIL (TYP.)
NOT TO SCALE



CONCRETE BASE POLE DETAIL (TYP.)
NOT TO SCALE



CONDUIT TRENCH DETAIL (TYP.)
NOT TO SCALE

THE BOYS AND GIRLS CLUB OF WISCONSIN
LIGHTING CONTROL PANEL
SCHEMATIC & DETAILS
SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: BDC DATE:
CHECKED BY: JS 9/30/2024
APPROVED BY: JS

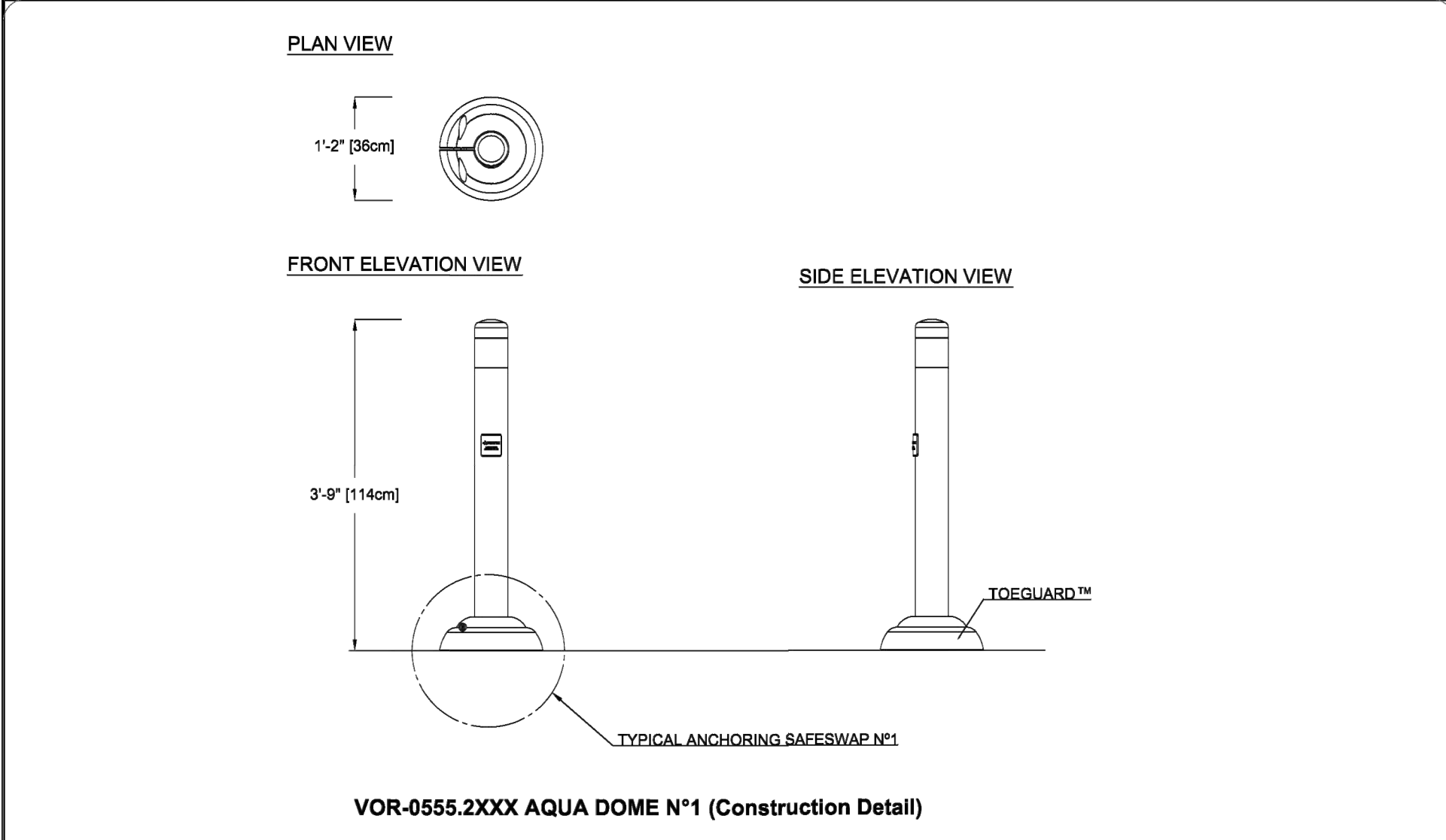
PROJECT NO.
525-028-002

SHEET NO.

E6

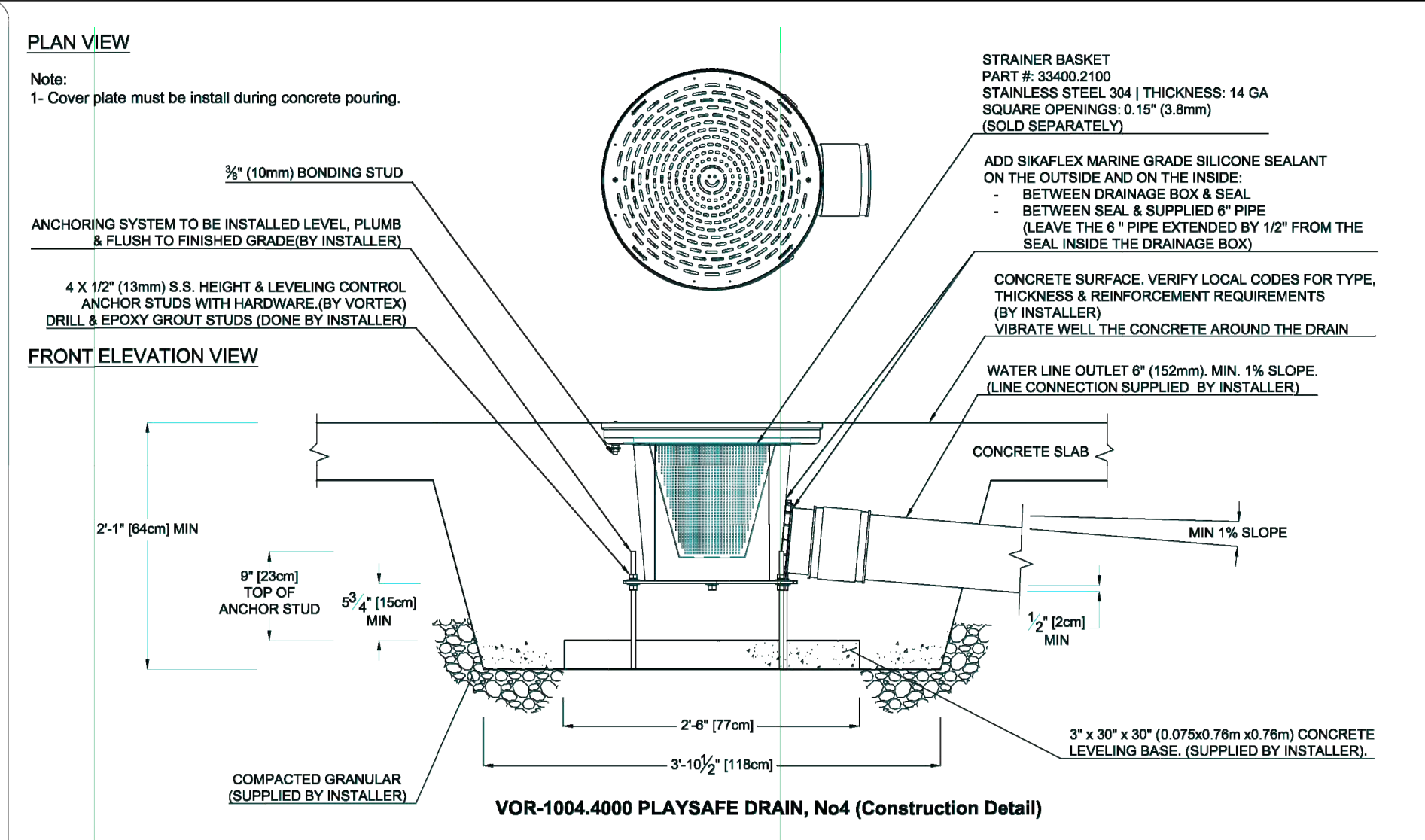
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4850 S. PENNSYLVANIA AVE SUITE 100
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May 31, 2024, 11:10am PLOTTED BY: bolenunckj SAVED BY: bolenunckj
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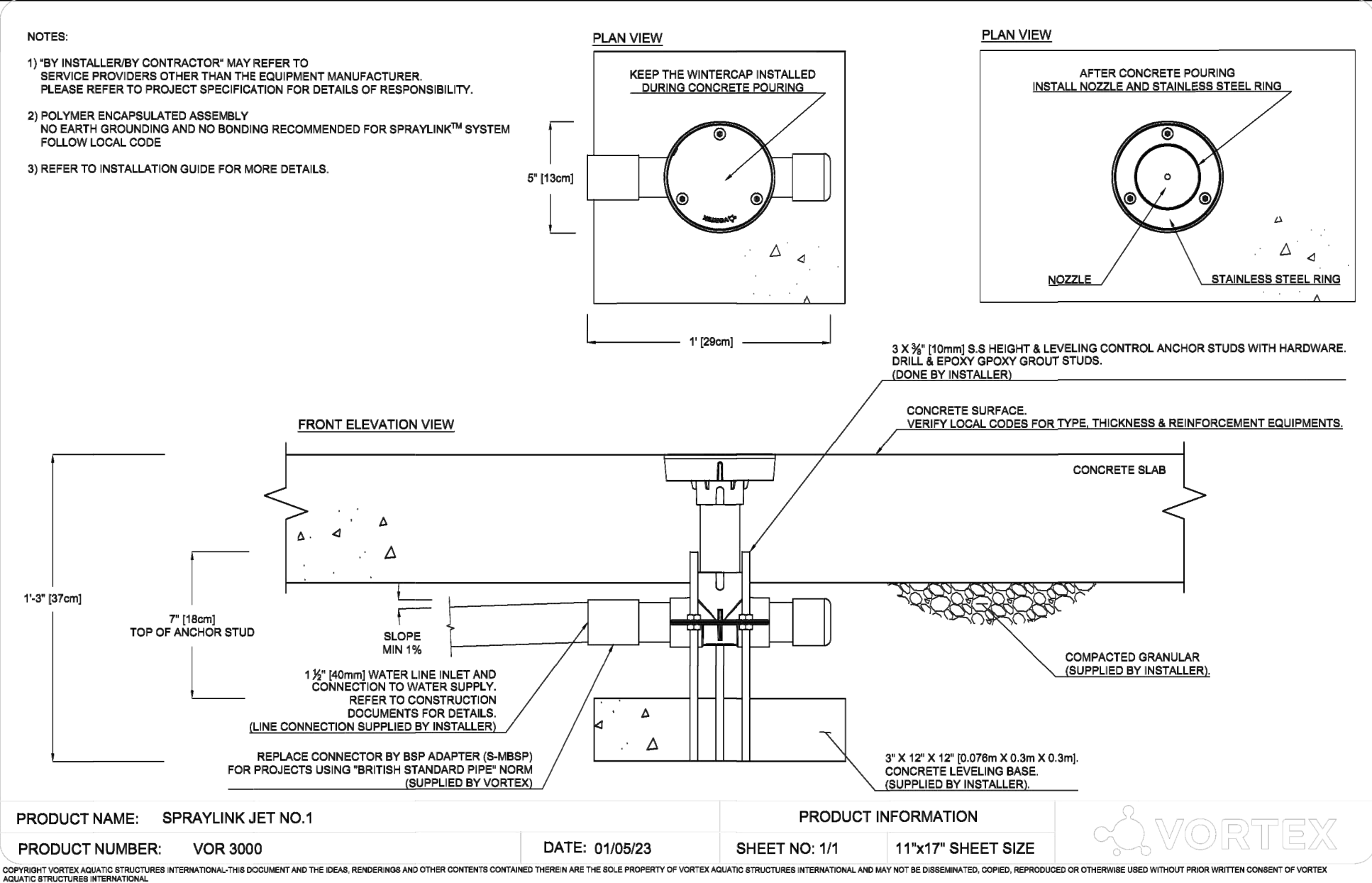
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PRODUCT NUMBER:	VOR-0555.2XXX	DATE:	05/02/1
		SHEET NO:	1/1
		11"x17" SHEET SIZE	

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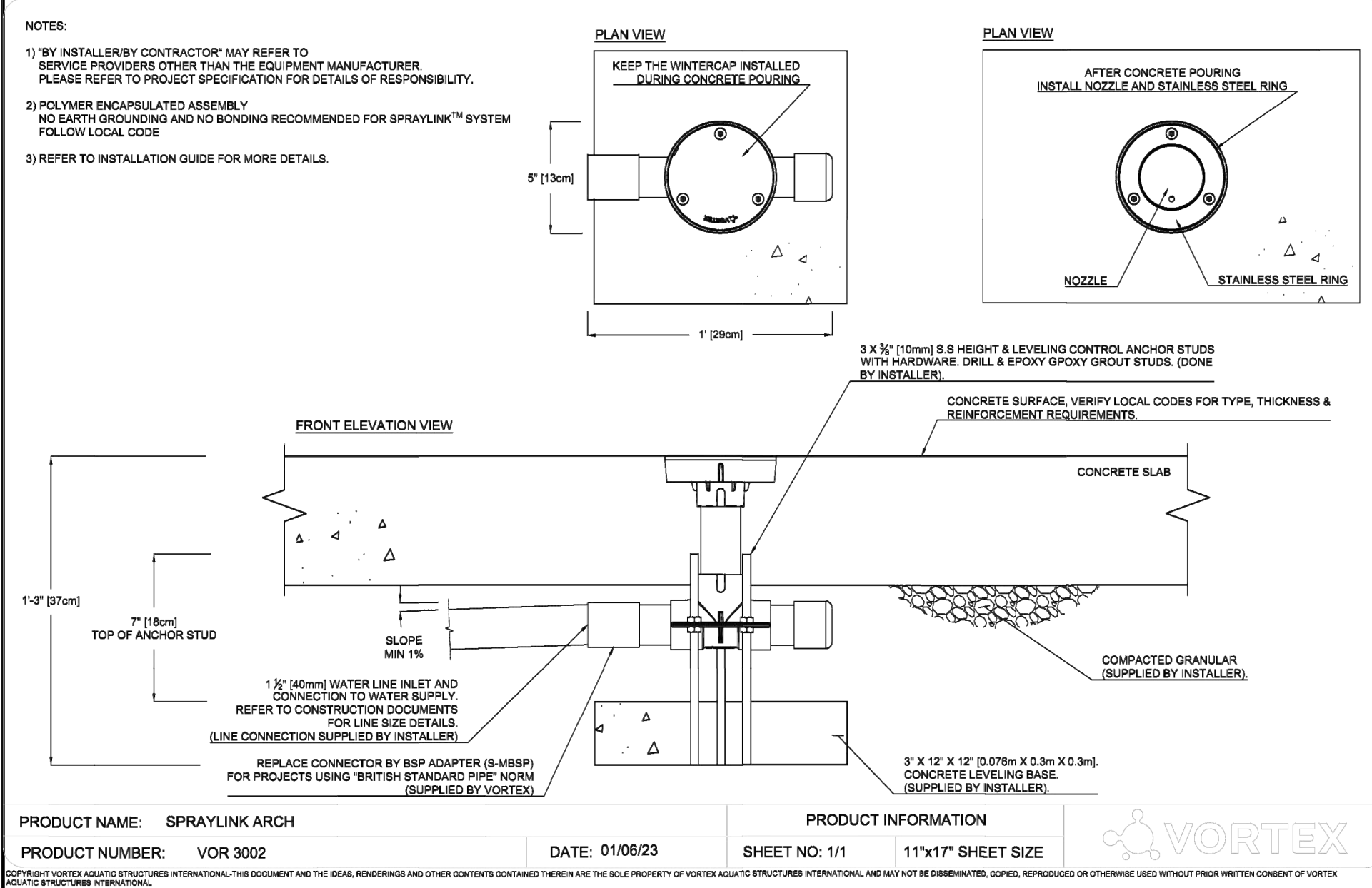


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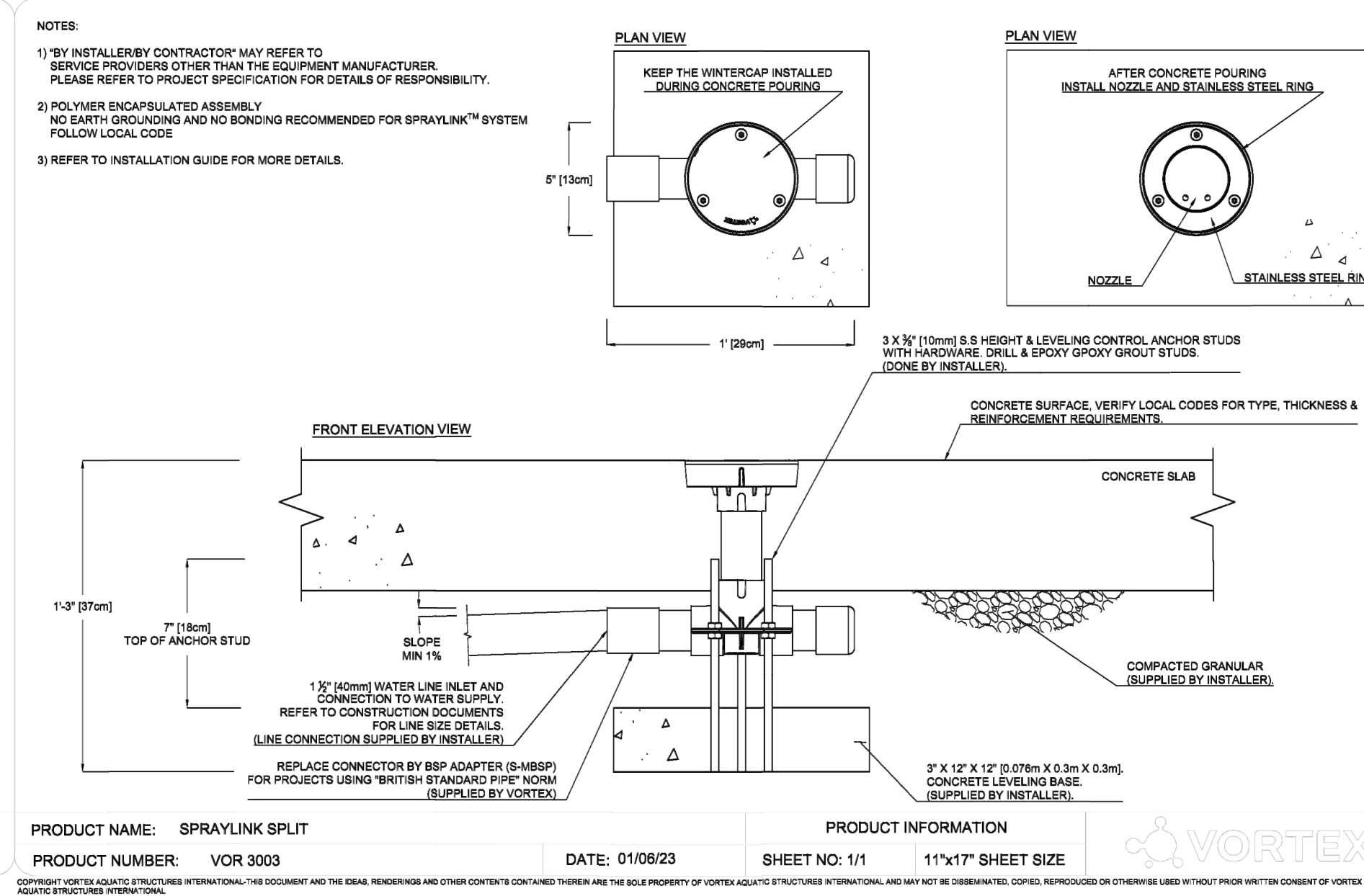
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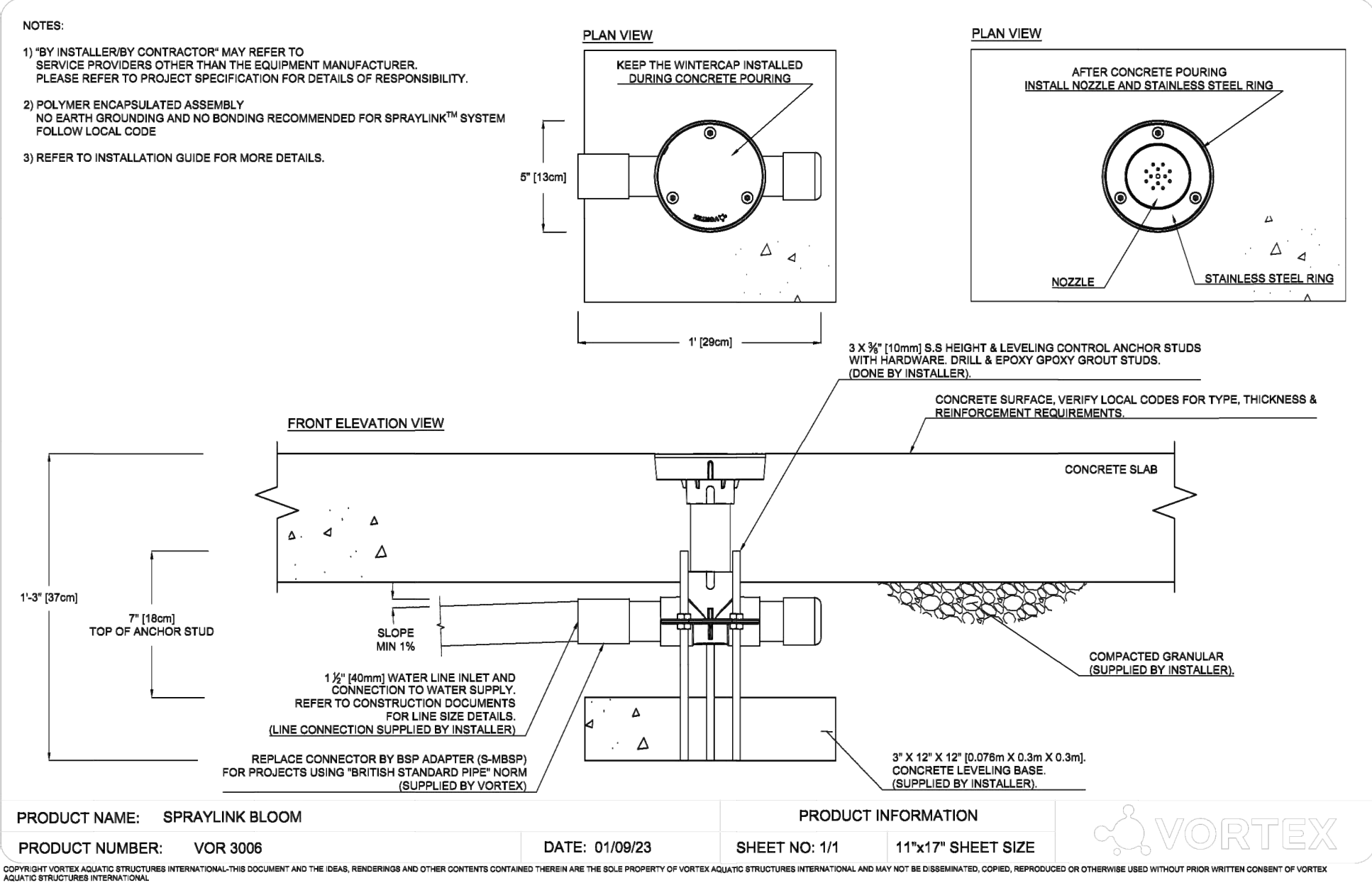
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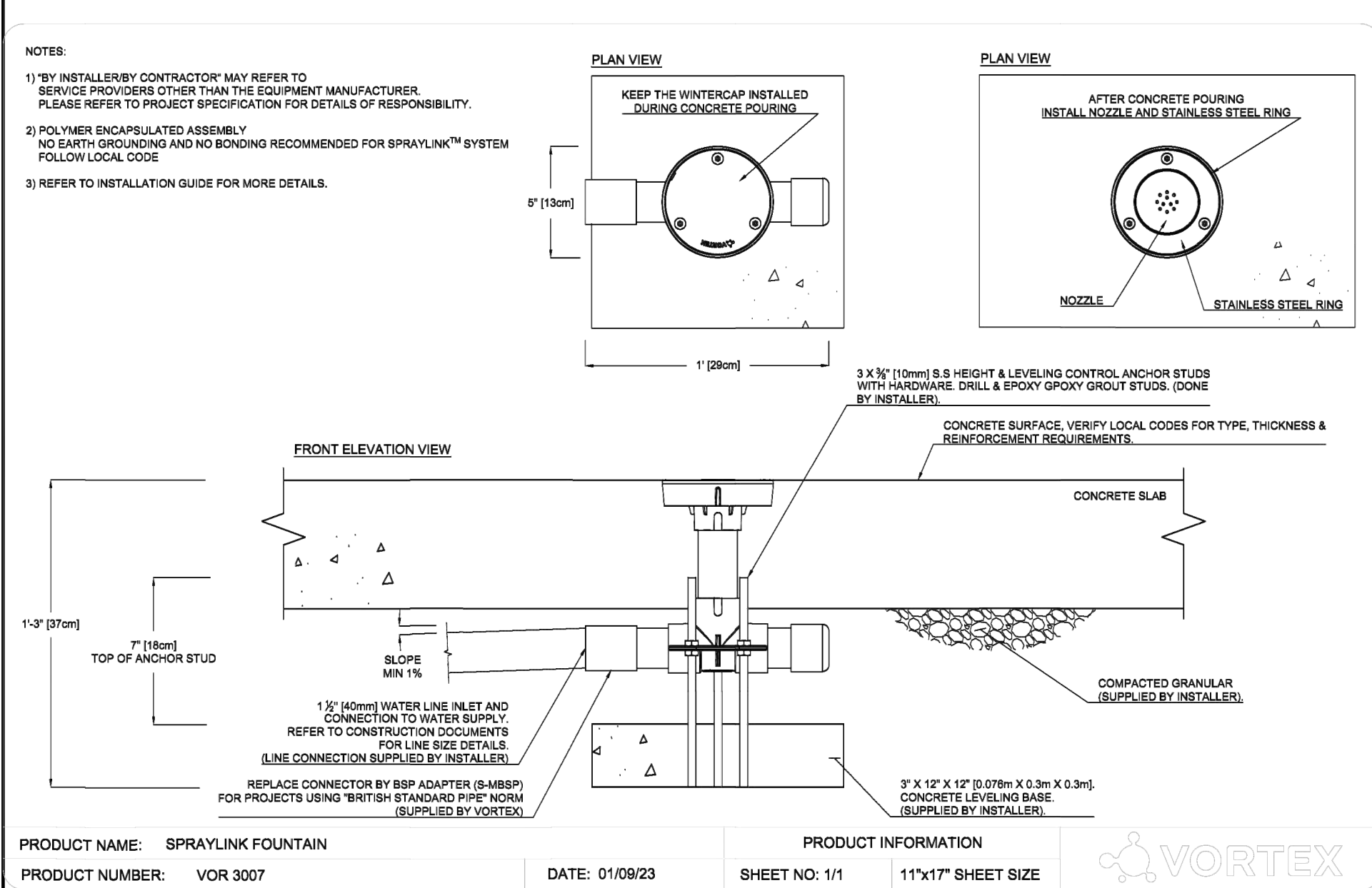
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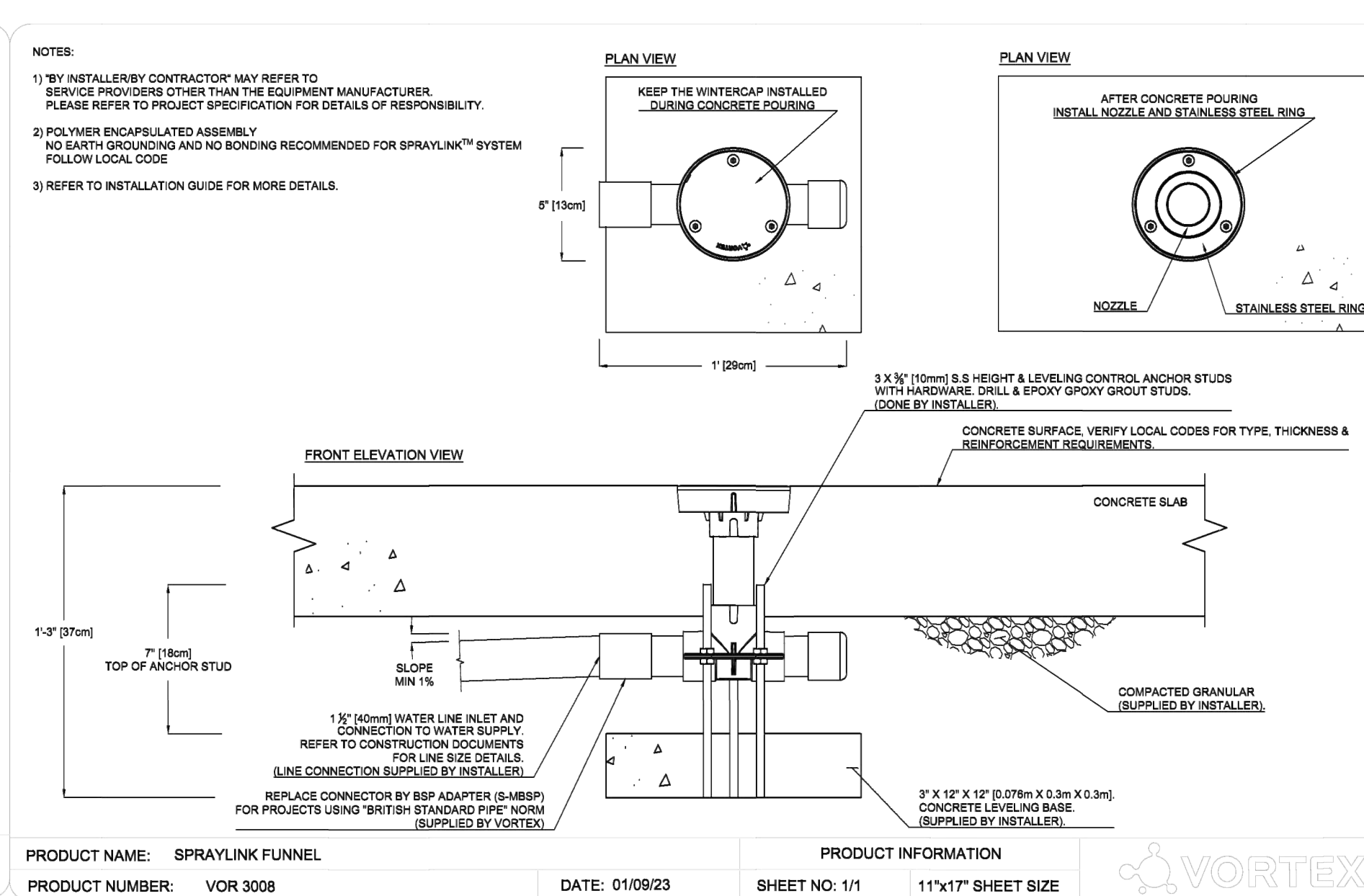
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THE BOYS AND GIRLS CLUB OF WISCONSIN
SPLASHPAD DETAILS

SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: BMD DATE: 09/30/2024
CHECKED BY: -
APPROVED BY: -

PROJECT NO. 525-028-002
SHEET NO. M2

Design Studio
by CRS

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THE BOYS AND GIRLS CLUB OF WISCONSIN
SPLASHPAD DETAILS

SHERMAN PARK, 3000 N. SHERMAN BLVD
MILWAUKEE WISCONSIN 53210

DRAWN BY: BMD	DATE: 09/30/2024
CHECKED BY: -	
APPROVED BY: -	

PROJECT NO.
525-028-002

SHEET NO.
M4

Sherman Park

Project Location

Milwaukee, WI

Project Number

42014

Version

VA

21/Jun/2024	Re-Issued for Approval	02	SN
29 May/2024	Re-Issued for Approval	01	OD
19/April/2024	Issued for Approval	00	OD
Date	Revision Description	No.	By

Drawing Title

Site Layout

Drawn by

SN

Verified by

DS

Scale

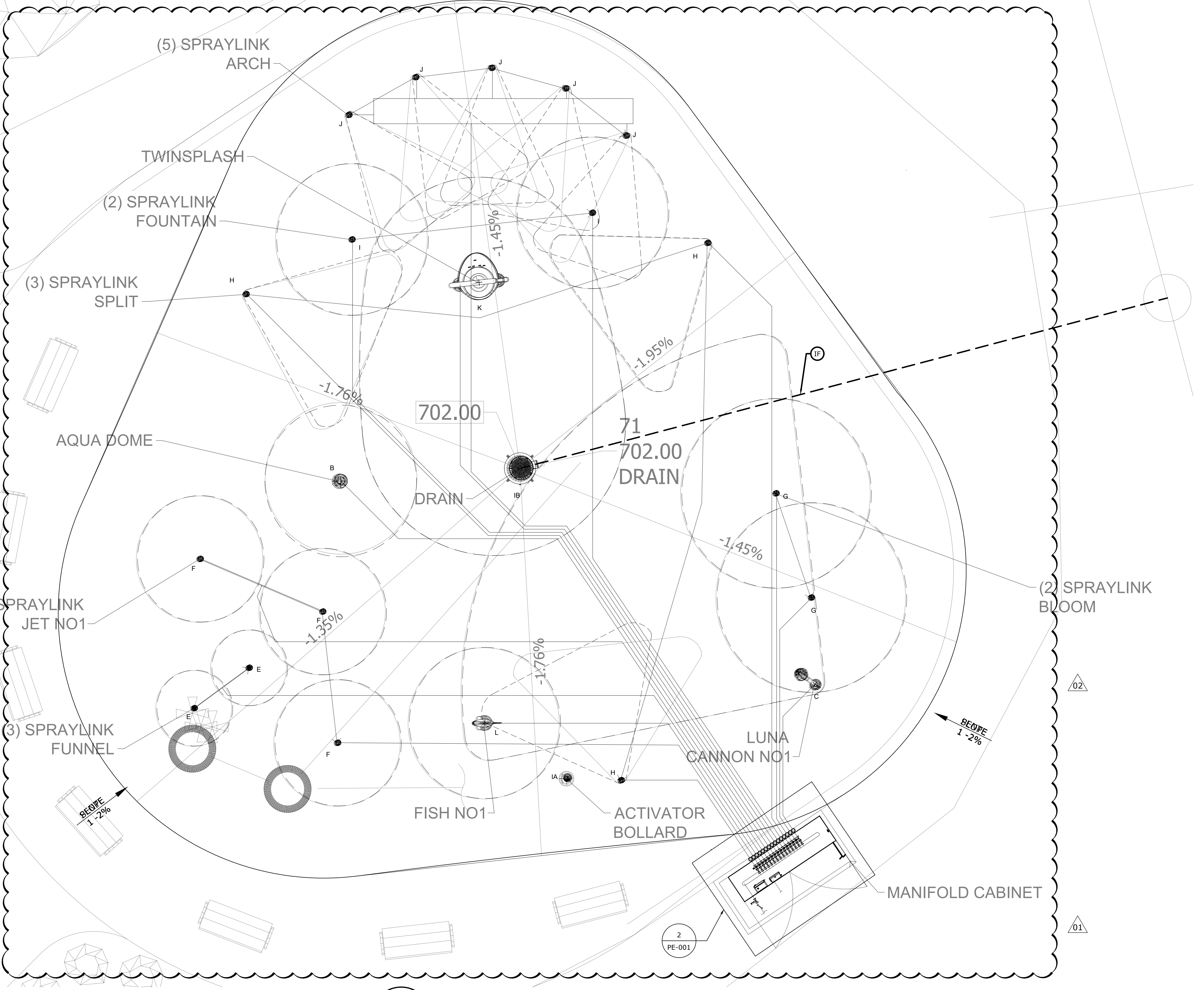
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Date

9/30/2024

Page #

A-001



1

Site Layout

A-001

Abbreviations		Drawing #	Drawing Name	Rev #
A	Architectural	A-001	Site Layout	02
PE	Plumbing & Electrical Layout	PE-001	Plumbing & Electrical Layout	02

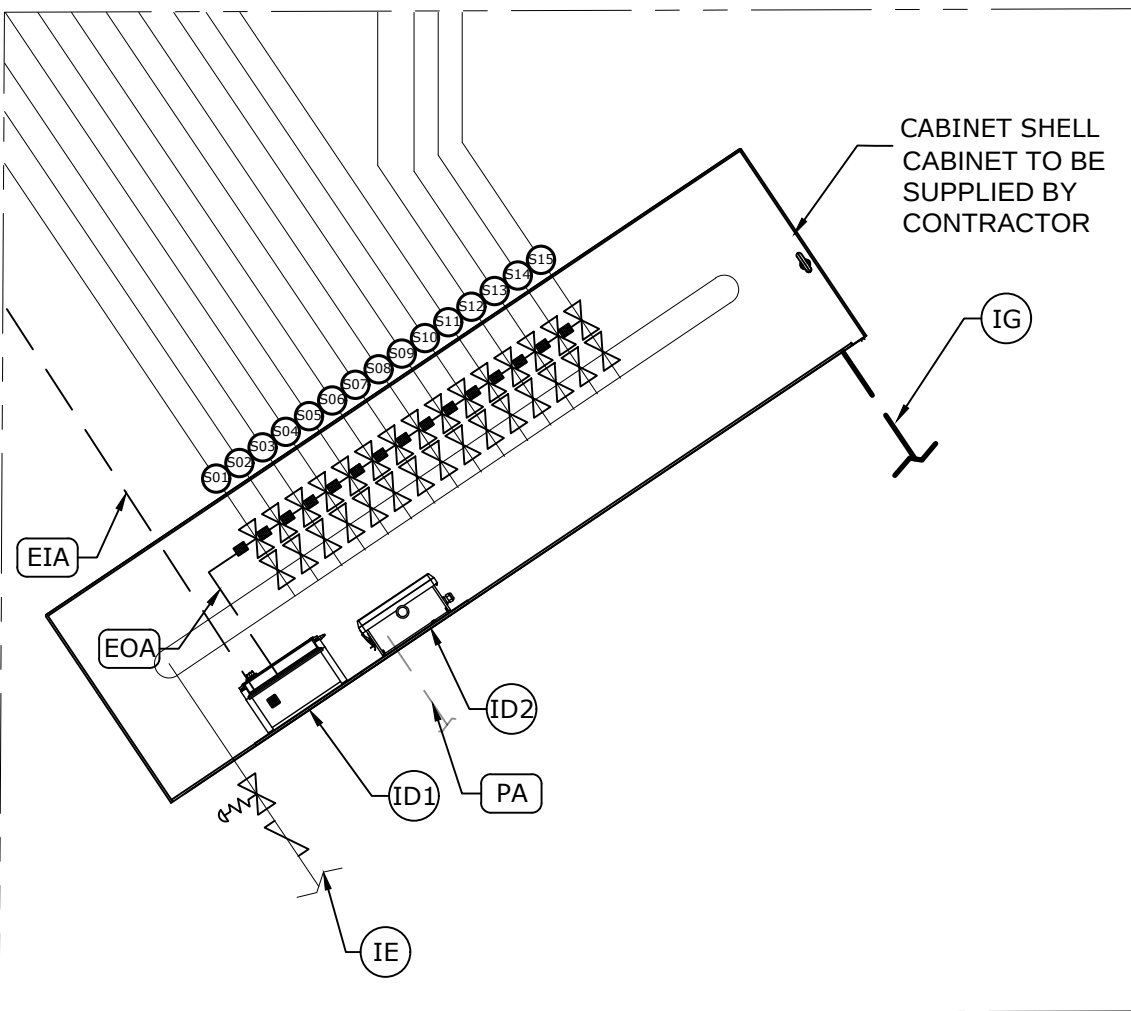
1 PIPING

- 1.1 WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS
- 1.2 ANY REQUIRED WATER METER AND BACKFLOW PREVENTER ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER. PRESSURE REGULATOR WILL BE PROVIDED BY VORTEX
- 1.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.
- 1.4 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 100 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 100 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.
- 1.5 QUANTITY AND LOCATION OF DRAINS BASED ON MAXIMUM FLOW FOR THE INDICATED PIPE DIAMETER AT 1% SLOPE. MODIFICATIONS MAY BE REQUIRED DUE TO SPECIFIC SITE CONDITIONS AND LOCAL CODE.

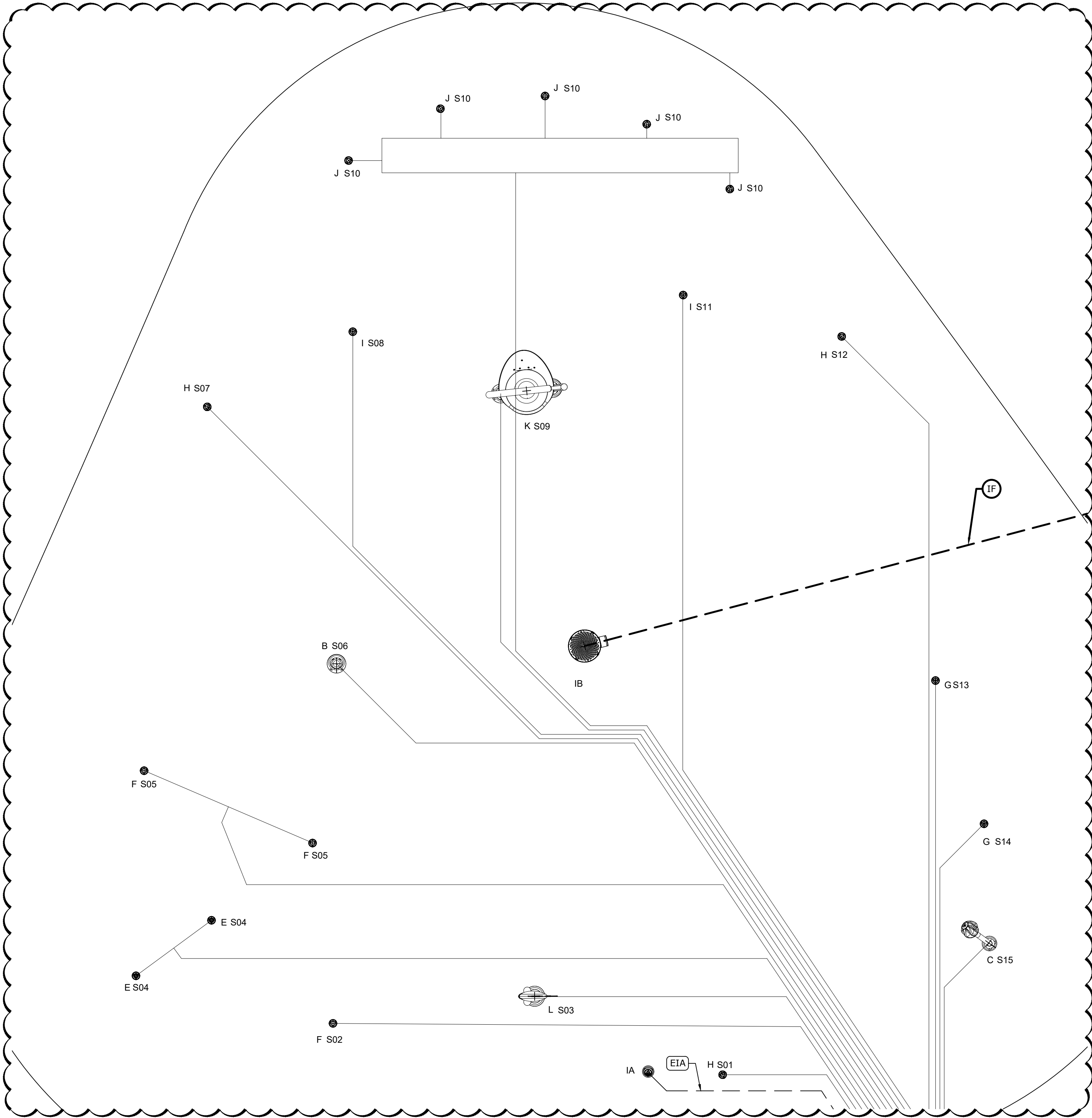
- 1.6 PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC ~~OR PE~~ AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.7 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.
- 1.9 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.10 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.
- 1.12 VALVE NUMBER 1 IS LOCATED TO THE LEFT OF THE MANIFOLD FACING THE SOLENOID.
- 1.13 MINIMUM 50 PSI REQUIRED AT THE INLET OF THE BACKFLOW PREVENTER AND PRESSURE REGULATING DEVICE.
- 1.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 159 GPM.
- 1.15 TOTAL FLOW OF FEATURE IS 101 GPM.
- 1.16 FACTORY MAXIMUM SEQUENCING FLOW IS 71 GPM ACTUAL FLOW MAY VARY DUE TO SITE CONDITIONS.

2 ELECTRICAL

- 2.1 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG. A TOTAL OF TWO (2) CONDUCTORS PER ACTIVATOR.CABLE LENGTH UP TO 328' (100m), PROVIDED BY INSTALLER.
- 2.2 ALL CONNECTIONS TO THE CONTROLLER AND OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVED NEMA 4X CONNECTOR.
- 2.3 WIRE FROM MAIN POWER TO VORTEX PANEL ~~TO BE DETERMINED BY OTHERS~~ RESPECTING THE LOCAL CODE.
- 2.4 MAINTAIN A MINIMUM CLEARANCE ZONE OF 36" IN FRONT OF ELECTRICAL PANEL, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 2.5 USE #8 BARE COPPER BONDING WIRE BETWEEN FEATURES TO A GROUNDING ROD IN THE SOIL, TIED INTO REBAR GRID, OR AS PER LOCAL CODE. SPRAYLINKS FEATURE DO NOT REQUIRE BONDING.
- 2.6 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER CONTROLLER AND ANY OTHER ELECTRICAL ENCLOSURES MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FROM THE INPUT POWER SOURCE.
- 2.7 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES.
- 2.8 THE MAESTROPRO CONTROL PANEL IS POWERED THROUGH A MAESTROPRO POWER BOX.
- 2.9 THE POWER CABLE TO MAESTROPRO POWER BOX IS SUPPLIED BY INSTALLER.
- 2.10 THE MAESTROPRO CONTROL PANEL INTEGRATES 24 DIGITAL OUTPUTS WITH 24 VAC AND 12 DIGITAL INPUTS.
- 2.11 FOR REMOTE ACCESS ABILITY, A HARD CONNECTION TO AN EXISTING NETWORK IS REQUIRED USING A CAT 5 CABLE OR A CELLULAR NANO-SIM CARD WITH DATA-PLAN.
- 2.12 FOR REMOTELY LOCATED CONTROLLER, CONDUCTORS # 18 AWG, 25' LONG WIRE WILL BE PROVIDED BY VORTEX. IF IT EXCEEDS 25' IN LENGTH A MIN. #16 AWG IS REQUIRED, TO BE PROVIDED BY INSTALLER.
- 2.13 MAXIMUM DISTANCE BETWEEN THE CONTROLLER AND THE WATER DISTRIBUTION MANIFOLD SHOULD NOT EXCEED 100 FEET. DISTANCE ABOVE 100 FEET MAY REQUIRE AN INCREASE IN WIRE GAUGE SIZE. PLEASE CONTACT VORTEX.



01



02

Feature Connection Table

Manifold Output Ref.	Solenoid Valve	Feature Ref.	Feature	Qty	Line Size	Gpm	Output (ID1)
S01	1" Std	H	Spraylink Split VOR 3003	1	1"	2.5	Output-1
S02	1" Std	F	Spraylink Jet N°1 VOR 3000	1	1"	2.5	Output-2
S03	1" Std	L	Fish N°1 VOR 7218	1	1"	4	Output-3
S04	1" Std	E	Spraylink Funnel VOR 3008	2	1 1/2"	14	Output-4
S05	1" Std	F	Spraylink Jet N°1 VOR 3000	2	1"	5	Output-5
S06	1" Std	B	Aqua Dome N°1 VOR 0555	1	1 1/2"	14	Output-6
S07	1" Std	H	Spraylink Split VOR 3003	1	1"	2.5	Output-7
S08	1" Std	I	Spraylink Fountain VOR 3007	1	1"	6	Output-8
S09	1" Std	K	Twinsplash VOR 7242	1	1 1/2"	12	Output-9
S10	1" Std	J	Spraylink Arch VOR 3002	5	1"	7.5	Output-10
S11	1" Std	I	Spraylink Fountain VOR 3007	1	1"	6	Output-11
S12	1" Std	H	Spraylink Split VOR 3003	1	1"	2.5	Output-12
S13	1" Std	G	Spraylink Bloom VOR 3006	1	1"	8	Output-13
S14	1" Std	G	Spraylink Bloom VOR 3006	1	1"	8	Output-14
S15	1" Std	C	Luna Cannon N°1 VOR 7235	1	1"	6.5	Output-15

Electrical Line Connections Power

Product Code	From	To	# Conductors	Gauge/ Type	Note
PA	Main Power Line (by Other)	ID2- 120VAC	3	TBD (by Other)	120V, 1 Phase, 60Hz, 10Amps Breaker Recommended ± 5% Voltage Drop is Acceptable

Electrical Line Connections Controller Inputs

Product Code	From	To	# Conductors	Gauge/Type	Note
EIA	ID1-Input 1	IA	2	22	Bollard Activator No 4 24 VDC, Max 345 mA, Max 300' (100m) Long (by Other)

Electrical Line Connections Controller Outputs

Procut Code	From	To	# Conductors	Gauge/ Type	Note
EOA	ID1	Solenoid Valves w/ Ball Valve, 1 to 15	2 per Solenoid Valve	16	24VAC, Max 300 mA (by Installer)

Product Legend

Product Ref.	Product	Qty
IA	Activator NO4 VOR 0622	1
IB	Playsafe Drain No.4 VOR 1004	1
IC	Water Distribution System; ECCC Cabinet Command Center 2.0	1
ID1	42014D2404RC2 MaestroPro Controller (Remotely Located) 24out/12In 33907.3200	1
ID2	MaestroPro Power Box (Remotely Located) 33907.3200	1
IE	3" City Water Line (by Other)	1
IF	6" Drain line To municipal Drain (by Other)	1
IG	4" TYP Drain Line With Strainer Connected to Drainage System. Ensure P-Trap is Below Frost Line to Prevent Freezing. (by Installer)	1
⚡	3" Pressure Regulator (By Vortex)	1
✓	3" Backflow Preventer (By Installer)	1
⚡	1" Solenoid Valve with Ball Valve (By Vortex)	15



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Sherman Park

Project Location

Milwaukee, WI

Project Number

42014

Version

VA

21/Jun/2024	Re-Issued for Approval	02	SN
29 May/2024	Re-Issued for Approval	01	OD
19/April/2024	Issued for Approval	00	BR
Date	Revision Description	No.	By

Drawing Title

Plumbing & Electrical Layout

Drawn by	Verified by
SN	DS

Scale	Date
1/4"=1'-0"	9/30/2024

Page #
PE-001

2

PLUMBING & ELECTRICAL LAYOUT

PE-001

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

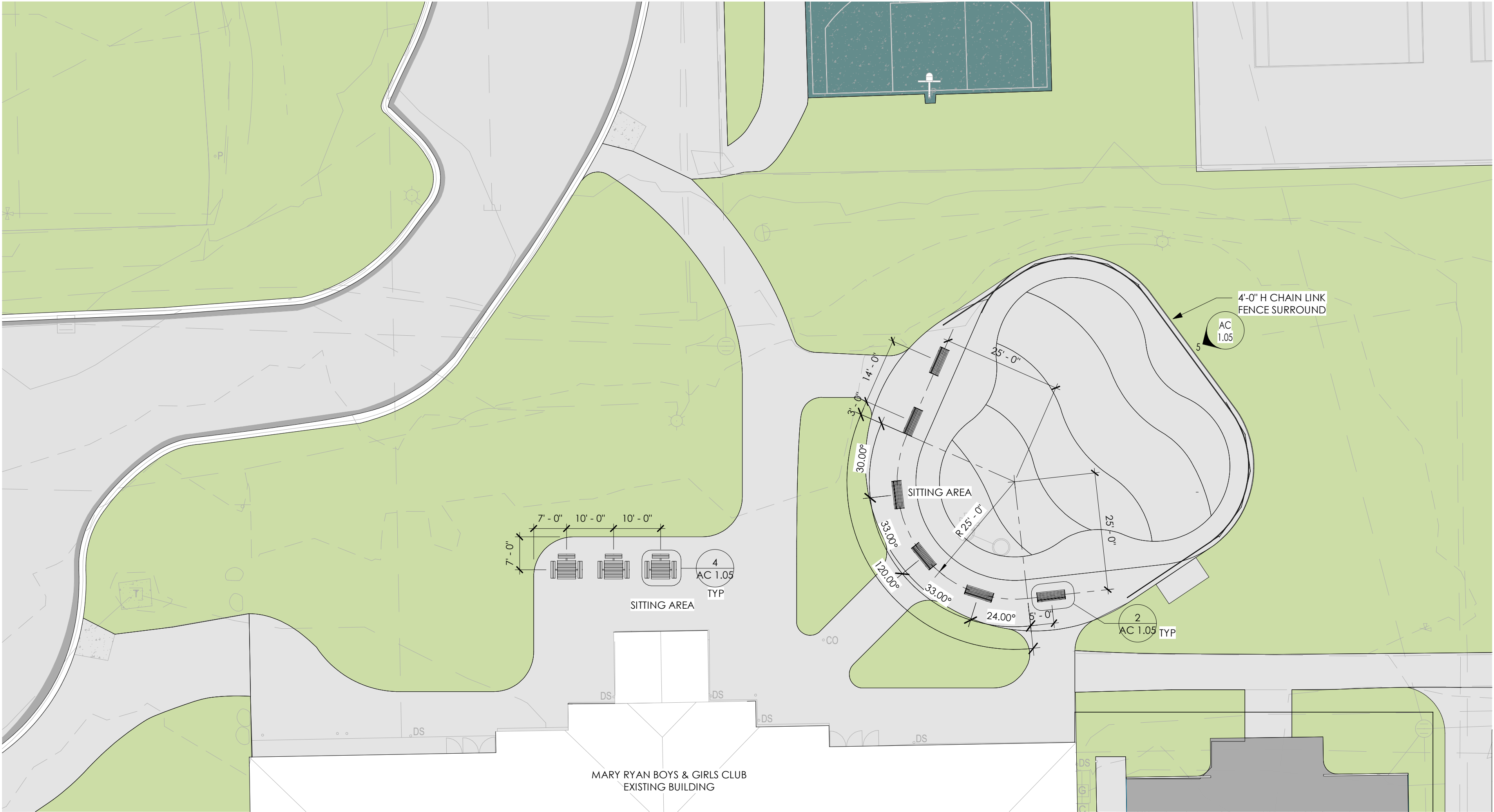
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PE-001

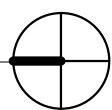
PLUMBING & ELECTRICAL LAYOUT

WATER LINE	—————
DRAIN LINE	-----
ELECTRICAL LINE	

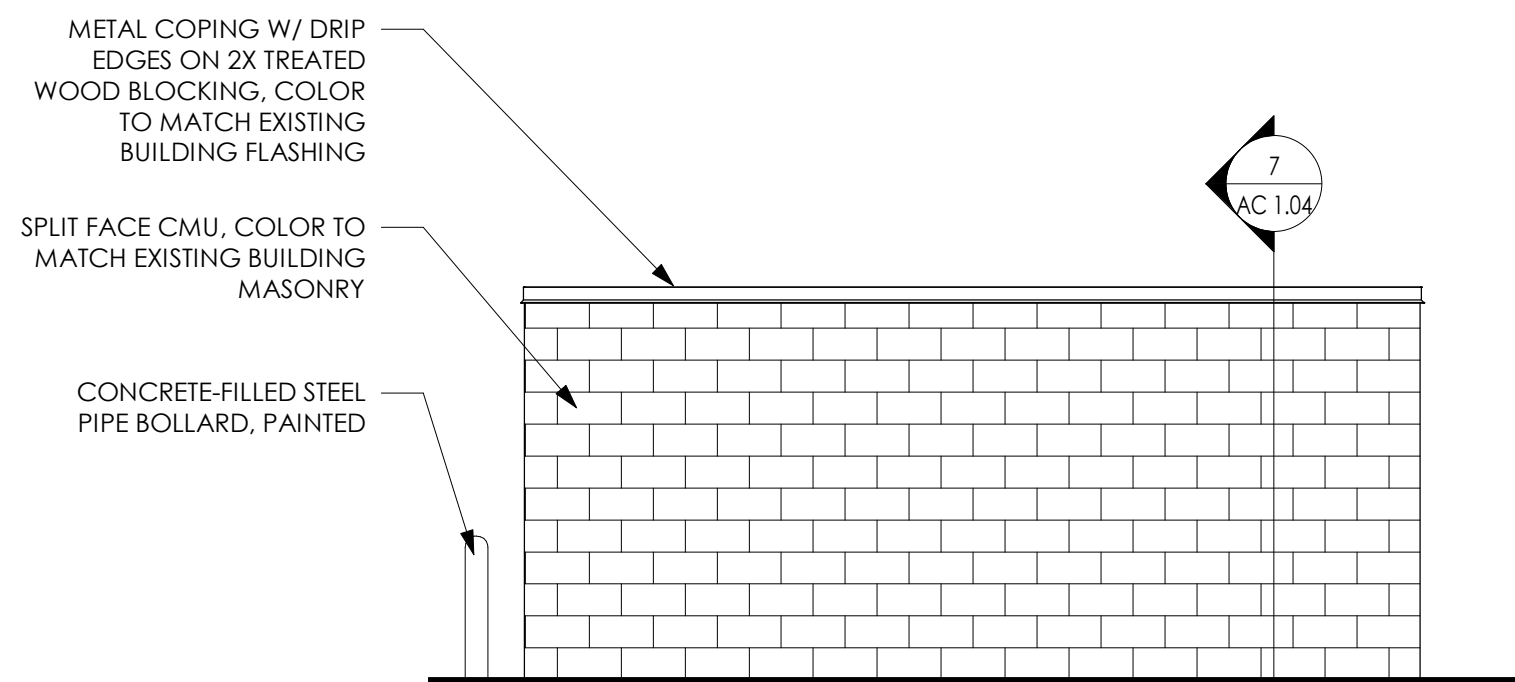
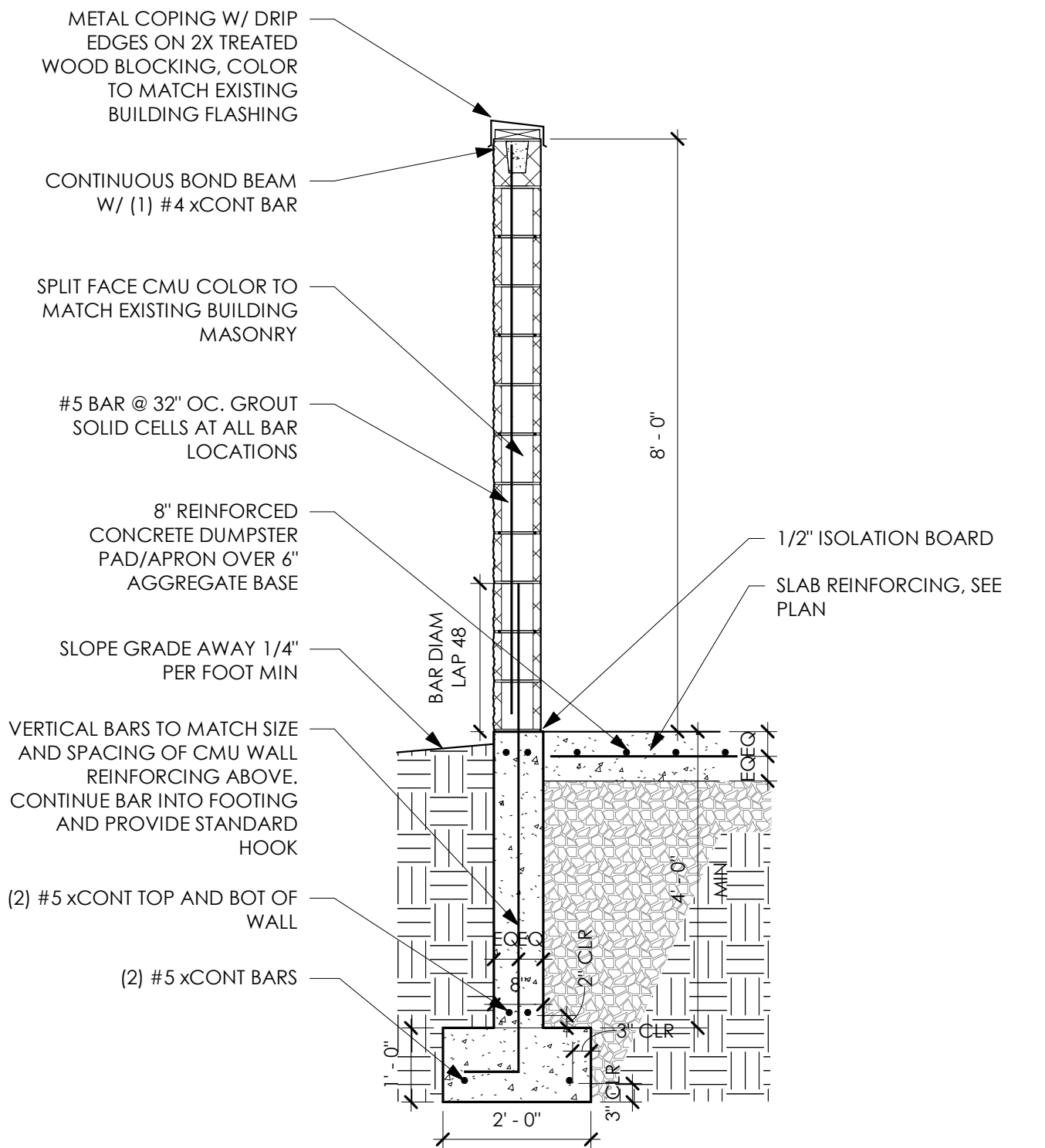
10/18/2024 11:21:38 AM



① ENLARGED SITEPLAN
1/16" = 1'-0"



PROJECT NUMBER	8230073
PROJECT ISSUED	09/30/2024
DRAWN BY	DJM
CHECKED BY	KAK
SCALE	1/16" = 1'-0"



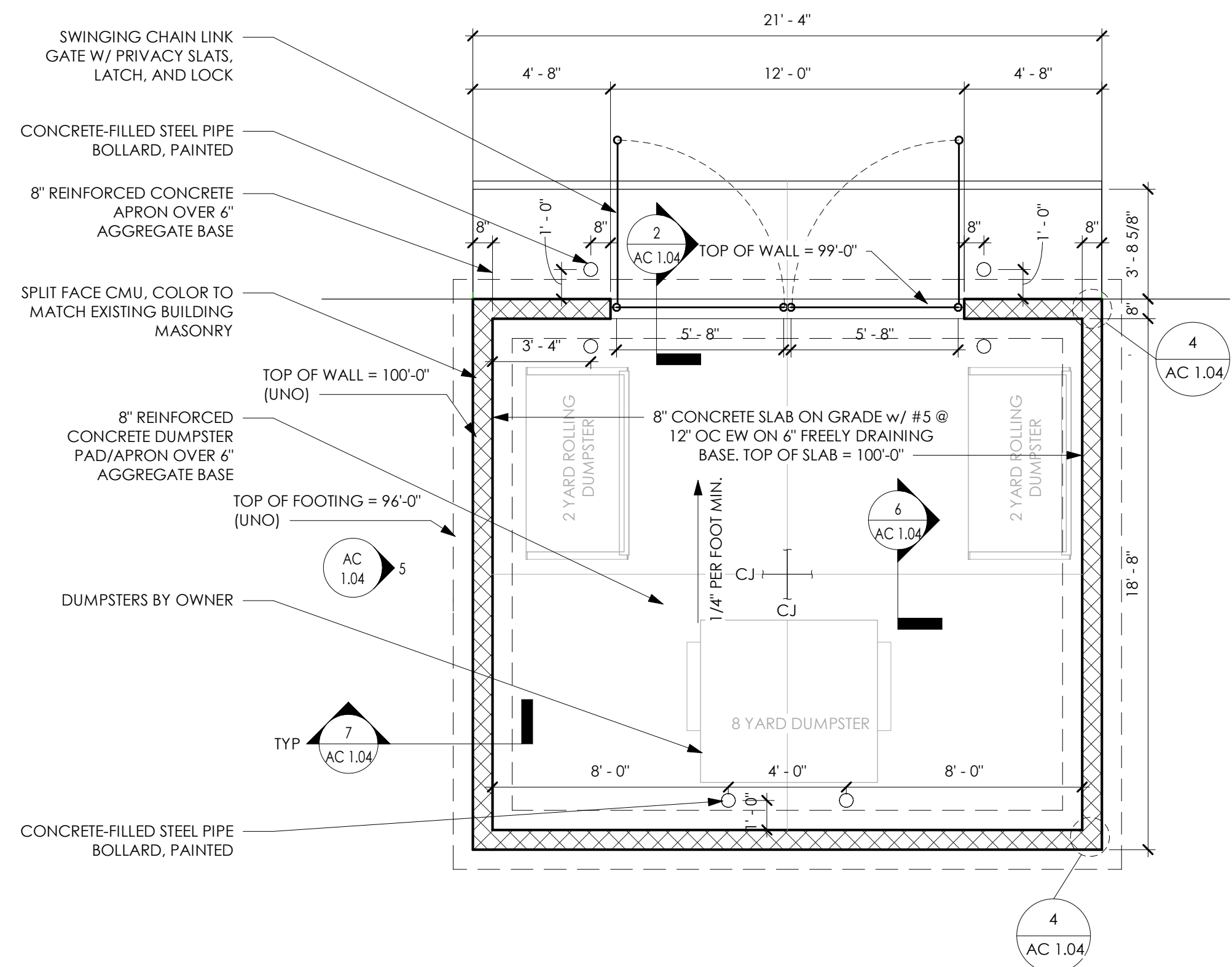
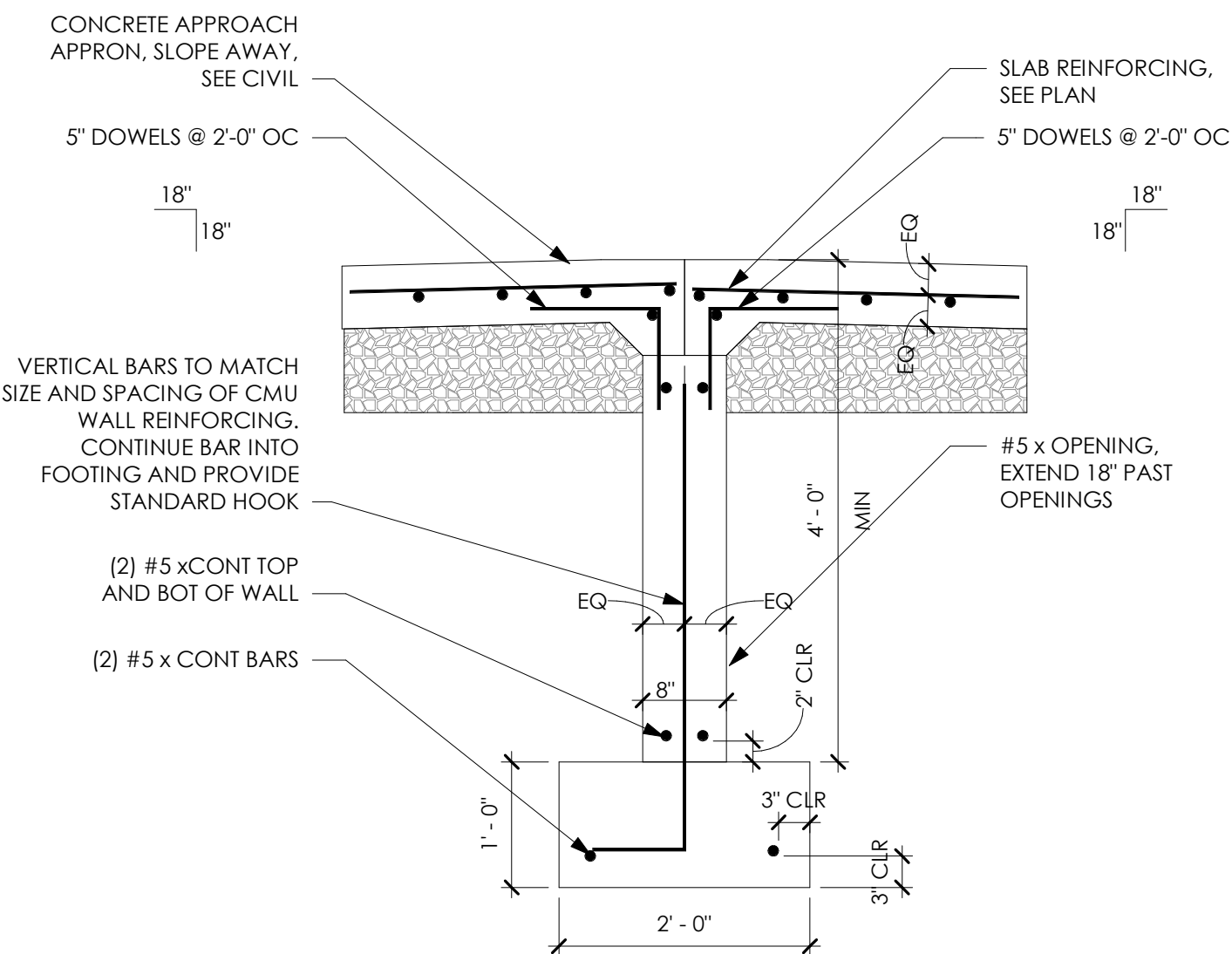
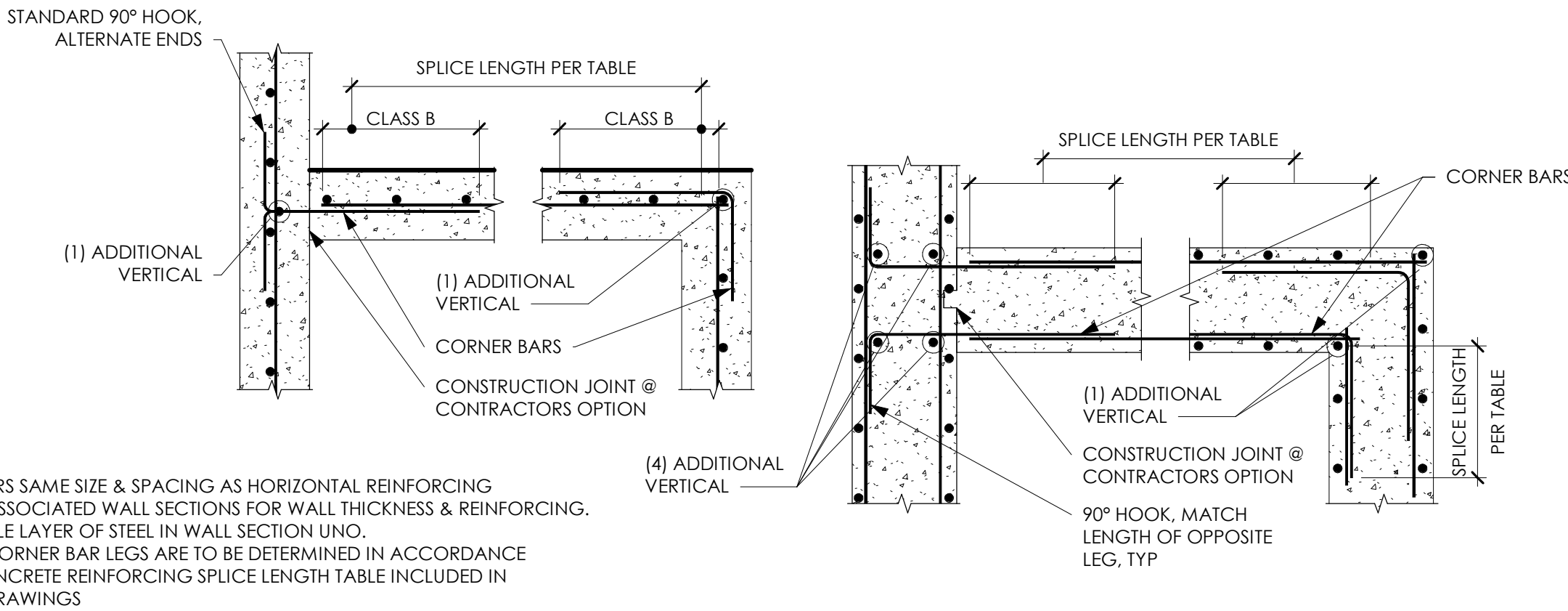
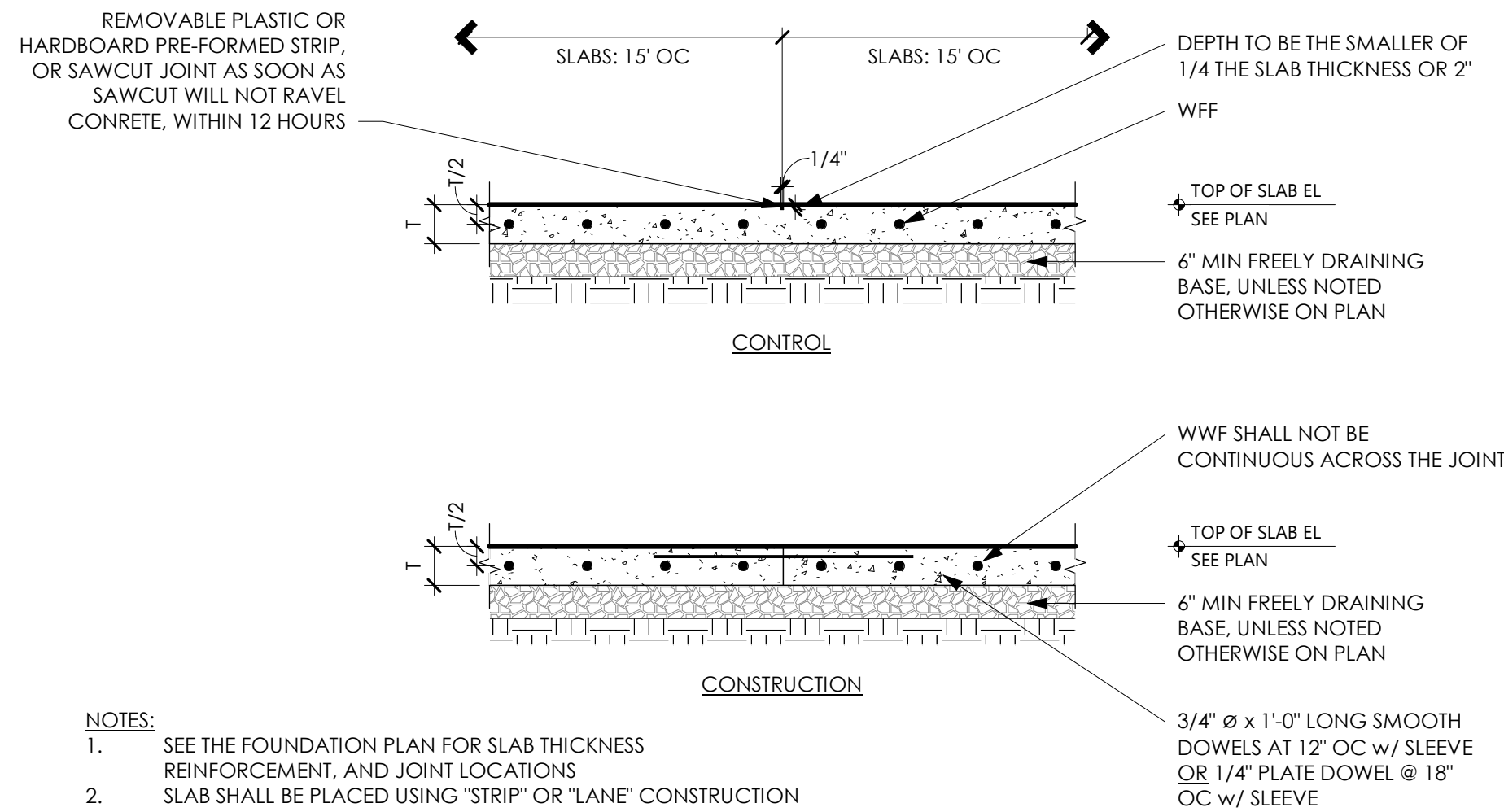
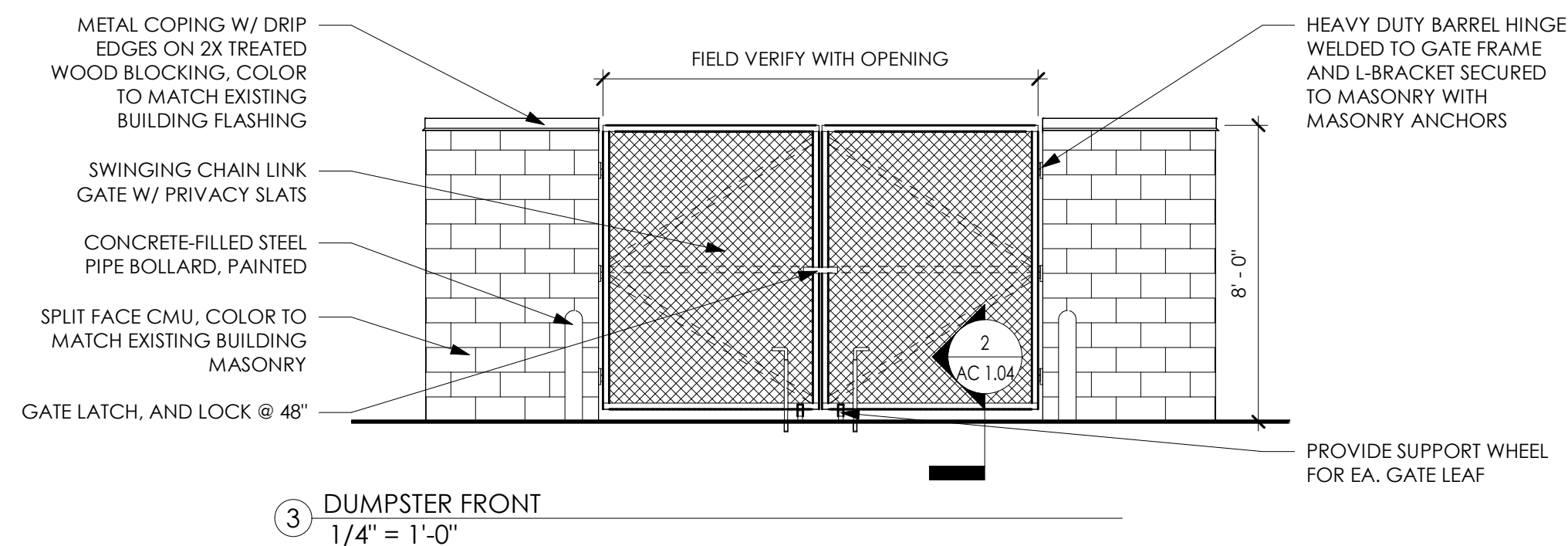
CONCRETE REINFORCING SPLICE LENGTH TABLE

CONCRETE REINFORCING SPLICE LENGTH TABLE PER ACI 318-19-(INCHES)

REBAR SIZE ⁵	CONCRETE MEMBER								
	FTG ³	GRADE BM (TOP) ⁴	GRADE BM (BOT) ⁴	WALL HORIZ ⁴	WALL VERT ⁴	SLAB ⁴	BEAM (TOP) ⁴	BEAM (BOT) ⁴	COL ²
#3	22	25	19	19	19	19	25	19	12
#4	29	33	25	25	25	25	33	25	15
#5	36	41	31	31	31	31	41	31	19

CONCRETE REINFORCING SPLICE LENGTH TABLE NOTES

1. GENERALLY NOT PERMITTED
2. FOR COMPRESSION LAPS ONLY, $F_y \leq 60,000$ PSI, $F_c \geq 3,000$ PSI
3. $F_c = 3,000$ PSI
4. $F_c = 4,000$ PSI
5. ALL REINFORCEMENT ASSUMED UNCOATED.
6. ASSUMED CLASS B (ACI 25.5.2.1)
7. ASSUMED CASE 1
8. ASSUMED GRADE 60



DUMPSTER ENCLOSURE SPECIFICATION NARRATIVE

- DUMPSTER PAD/APRON CONCRETE - 8" OF CONCRETE OVER 6" OF AGGREGATE BASE.
 - CONCRETE SHALL BE STEEL REINFORCED WITH THE FOLLOWING AND PLACED IN THE UPPER 1/3 TO 1/2 OF THE SLAB:
 - TIE BARS AT ALL CONTRACTION JOINTS OF THE CONCRETE. TIE BARS SHALL BE #4 REBAR 30" LONG PLACED AT 30" O.C.
 - DUMPSTER PAD CONCRETE JOINTING SHALL BE AS FOLLOWS:
 - CONTRACTION SAWCUT JOINT - CONTRACTOR SHALL PROVIDE A SAWCUT JOINT AT MAXIMUM SPACING OF 15' ON CENTER. SAWCUT SHALL BE 2" IN DEPTH. TYPICAL POUR CONTROL JOINT - POUR CONTROL JOINT SHALL BE PROVIDED WITH 1-1/4" DIAMETER BY 20" LONG SMOOTH DOWEL PLACED AT 12" O.C. ONE HALF OF THE DOWEL SHALL BE GREASED. GREENSTREAK 9" SPEED DOWEL TUBES SHALL BE USED.
- REINFORCED SPLIT-FACE MASONRY WALL
 - UNITS SHALL BE SPLIT FACED INTEGRAL WATER REPLENT UNITS OF STANDARD UNIT CMU DIMENSIONS LAID IN RUNNING BOND.
 - MORTAR SHALL BE TYPE M OR S PORTLAND-CEMENT LIME MIX WITH INTEGRAL WATER REPELLENT ADMIXTURE.
 - LADDER TYPE HORIZONTAL REINFORCING 16" O.C.
 - VERTICAL REINFORCING SHALL BE 2,500PSI GROUT FILLED CORES WITH REINFORCING BARS AND DOWELS
 - EXTERIOR MASONRY SURFACES SEALED WITH (2) COATS "PROSOCO-SURE KLEAN BLOK-GUARD AND GRAFFITI CONTROL".
 - 3/8" DIA X 8" ANCHOR BOLTS AT 4'-0" O.C. FOR PRESSURE TREATED WOOD BLOCKING AT TOP OF WALL.

MASONRY STRENGTH

CONCRETE MASONRY UNITS (ASTM C90)
 MORTAR (ASTM C270)
 GROUT (ASTM C476)
 MASONRY ASSEMBLY

CONCRETE STRENGTHS:

FOOTINGS
 CONCRETE WALLS & PIERS
 SLAB ON GRADE

REINFORCING STEEL STRENGTHS:

REINFORCING STEEL (ASTM A 615, GRADE 60)

SOIL LOAD INFORMATION:

COEFFICIENT OF SLIDING FRICTION
 LATERAL EARTH PRESSURE
 ACTIVE
 AT REST
 PASSIVE
 ALLOWABLE NET SOIL BEARING PRESSURE

WIND LOAD INFORMATION

BASIC WIND SPEED
 RISK CATEGORY
 WIND EXPOSURE
 INTERNAL PRESSURE COEFFICIENTS
 COMPONENTS AND CLADDING (STRENGTH DESIGN/ULTIMATE LOADS)
 WIDTH OF PRESSURE COEFFICIENT ZONE (A)
 TRIBUTARY WIND LOAD AREAS
 WALLS:
 ZONE 4
 ZONE 5
 POSITIVE PRESSURE ALL ZONES

$f'_{cmu} = 3,250$ psi
 TYPE S
 $f'_m = 2,500$ psi
 $f_m = 2,500$ psi (NET AREA COMPRESSIVE STRENGTH)

$f'_c = 3,000$ psi
 $f'_c = 4,000$ psi
 $f'_c = 4,000$ psi

$F_y = 60,000$ psi
 $F_y = 65,000$ psi

0.30 (ASSUMED)

35 psf/ft (ASSUMED)
 55 psf/ft (ASSUMED)
 200 psf/ft (ASSUMED)

$Q_a = 2,000$ psf (ASSUMED)

115 MPH
 II
 B
 +/- 0.00
 4.6 ft

10 ft2
 50 ft2
 100 ft2

-19.0 psf
 -39.8 psf
 19.4 psf

-17.0 psf
 -31.7 psf
 16.4 psf

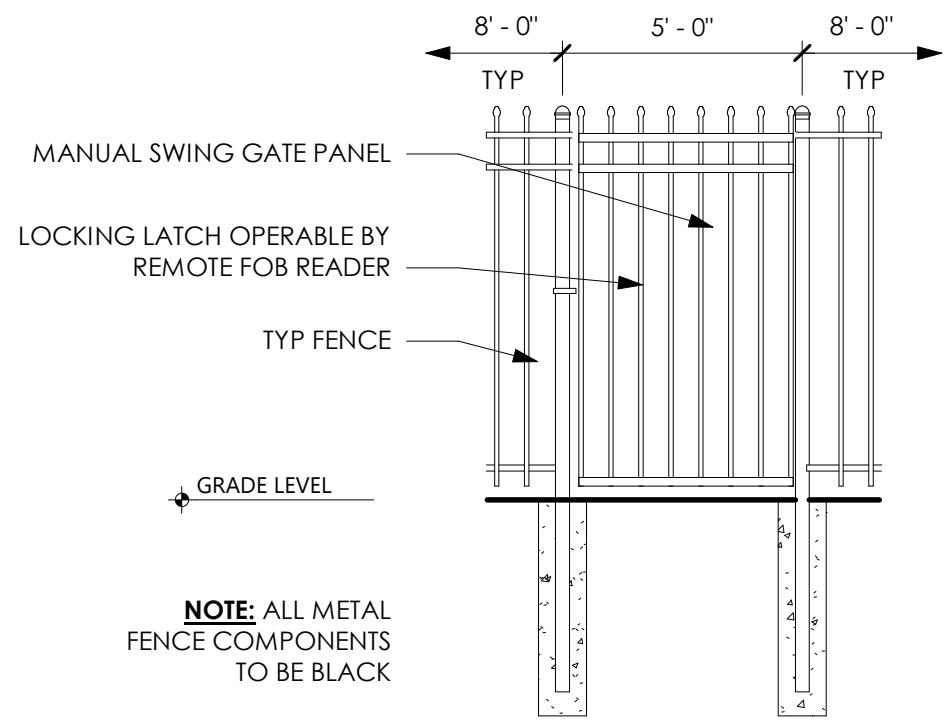
-16.1 psf
 -28.2 psf
 16.0 psf

DUMPSTER ENCLOSURE SPECIFICATION NARRATIVE

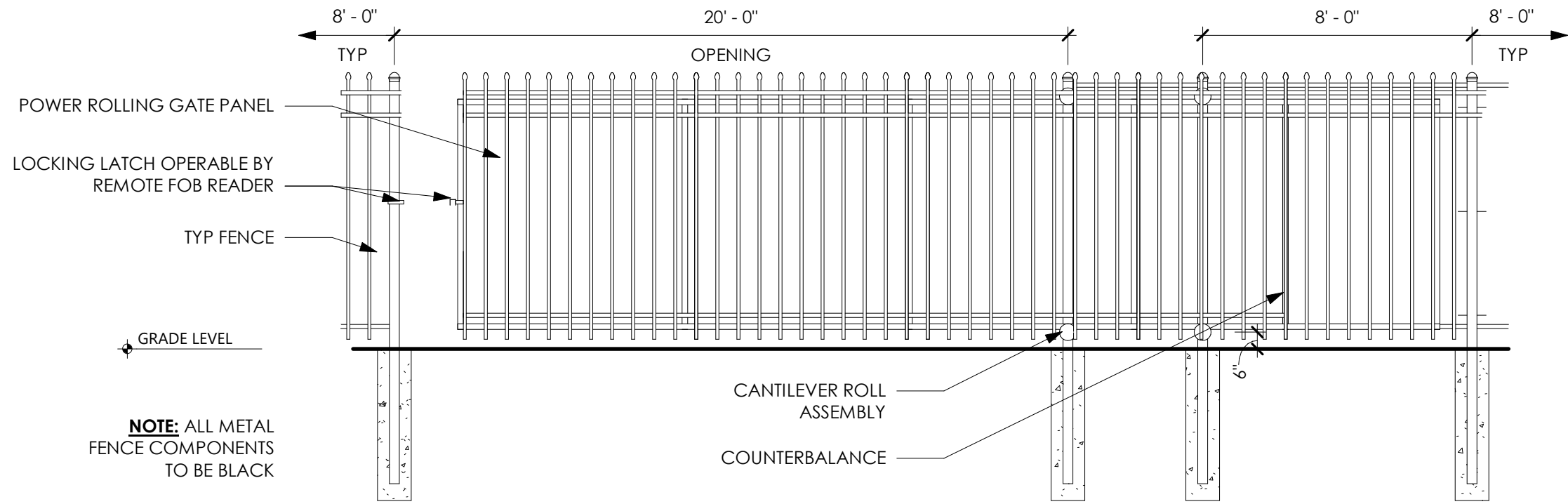
- CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH FOOTINGS 3" MIN
- CONCRETE EXPOSED TO EARTH OR WEATHER: WALLS, COLUMNS, BEAMS: UP THROUGH #5 BARS 1 1/2" MIN

NO.	DATE	DESCRIPTION

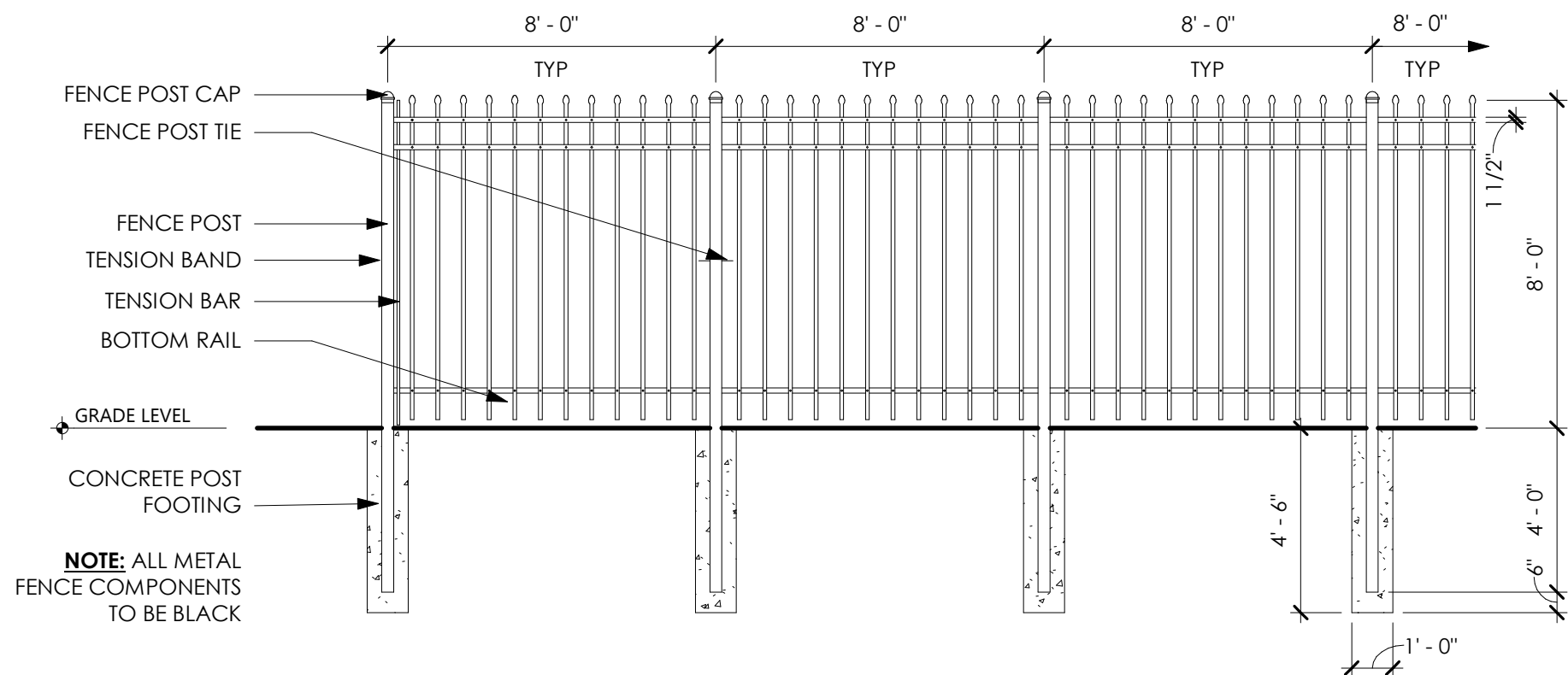
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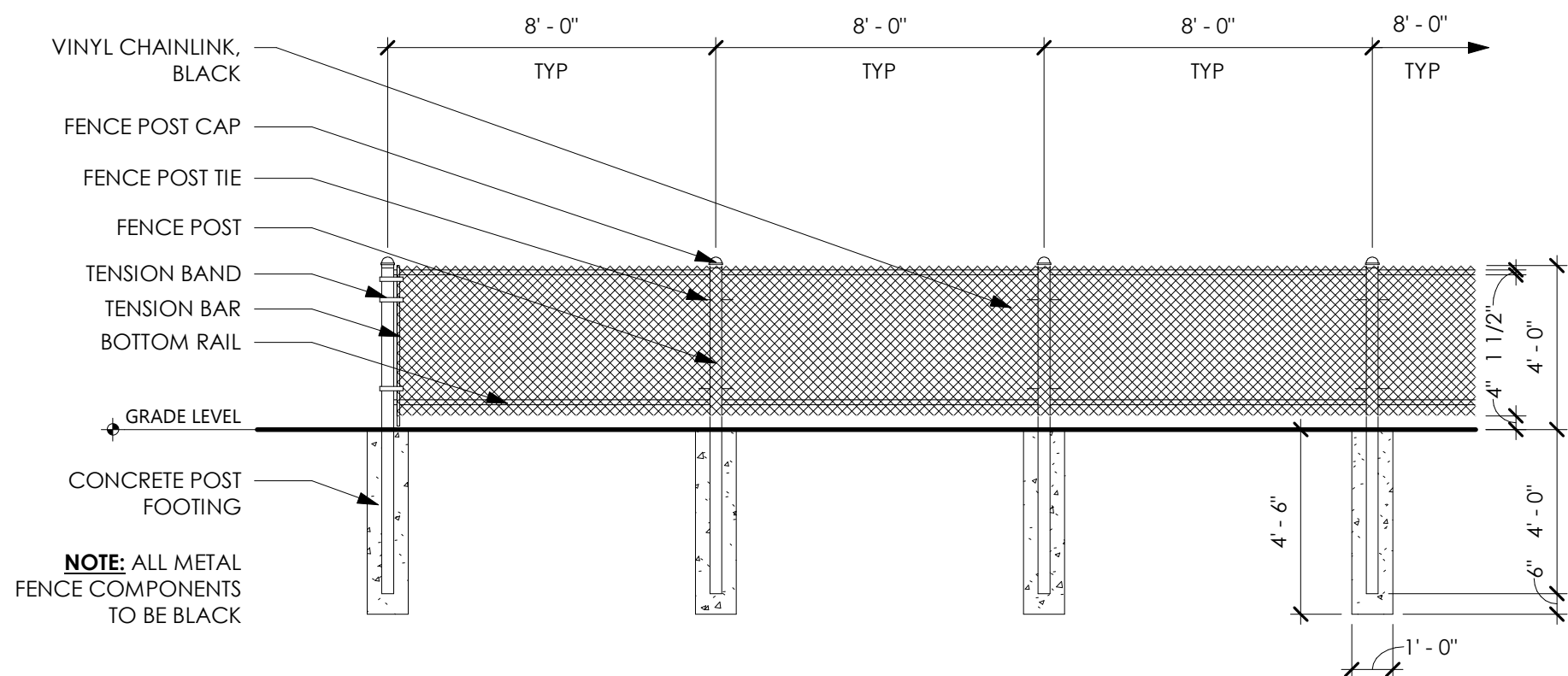
8 TYP FENCE GATE ELEVATION - PERSON GATE
1/4" = 1'-0"



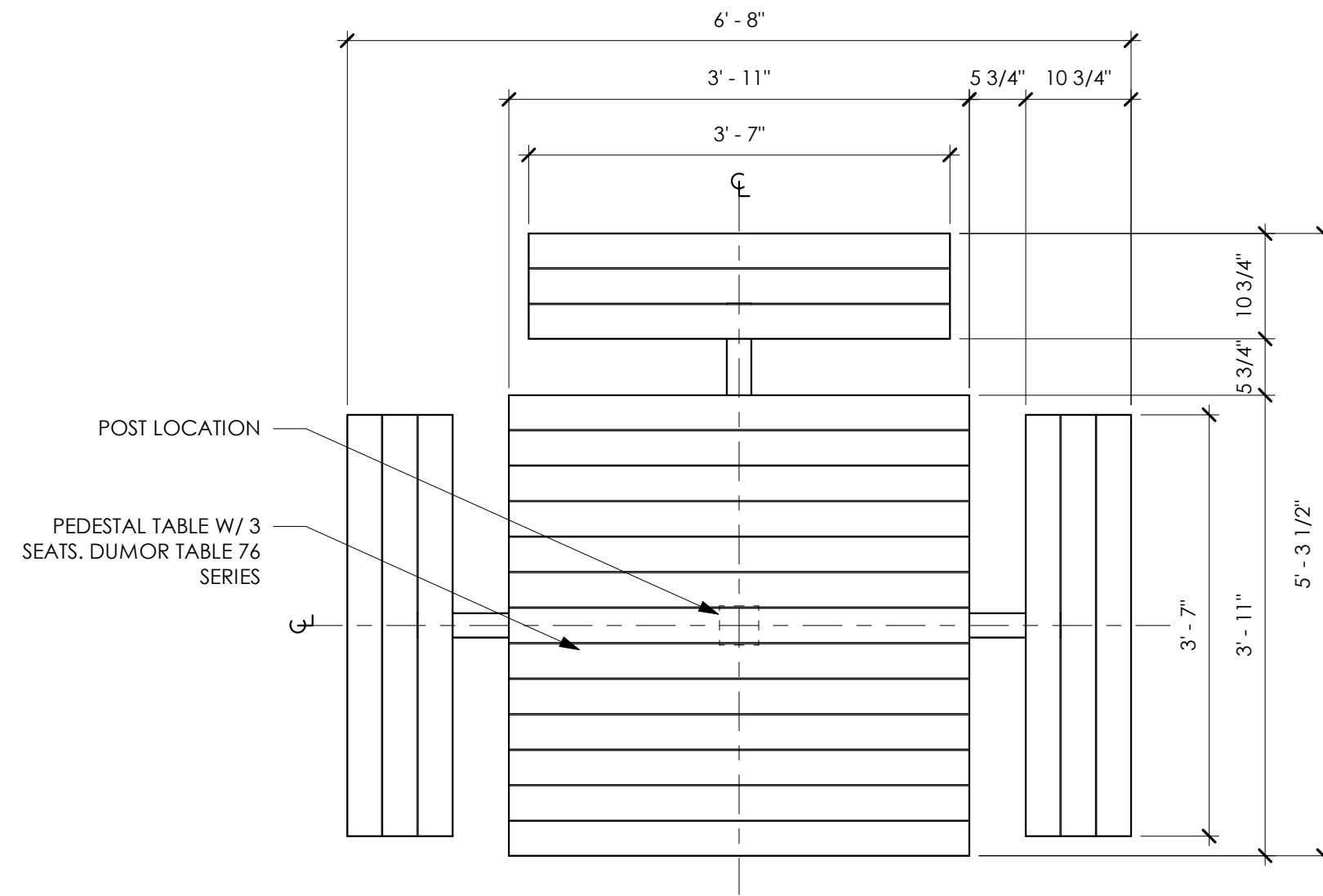
7 TYP FENCE GATE ELEVATION - PARKING
1/4" = 1'-0"



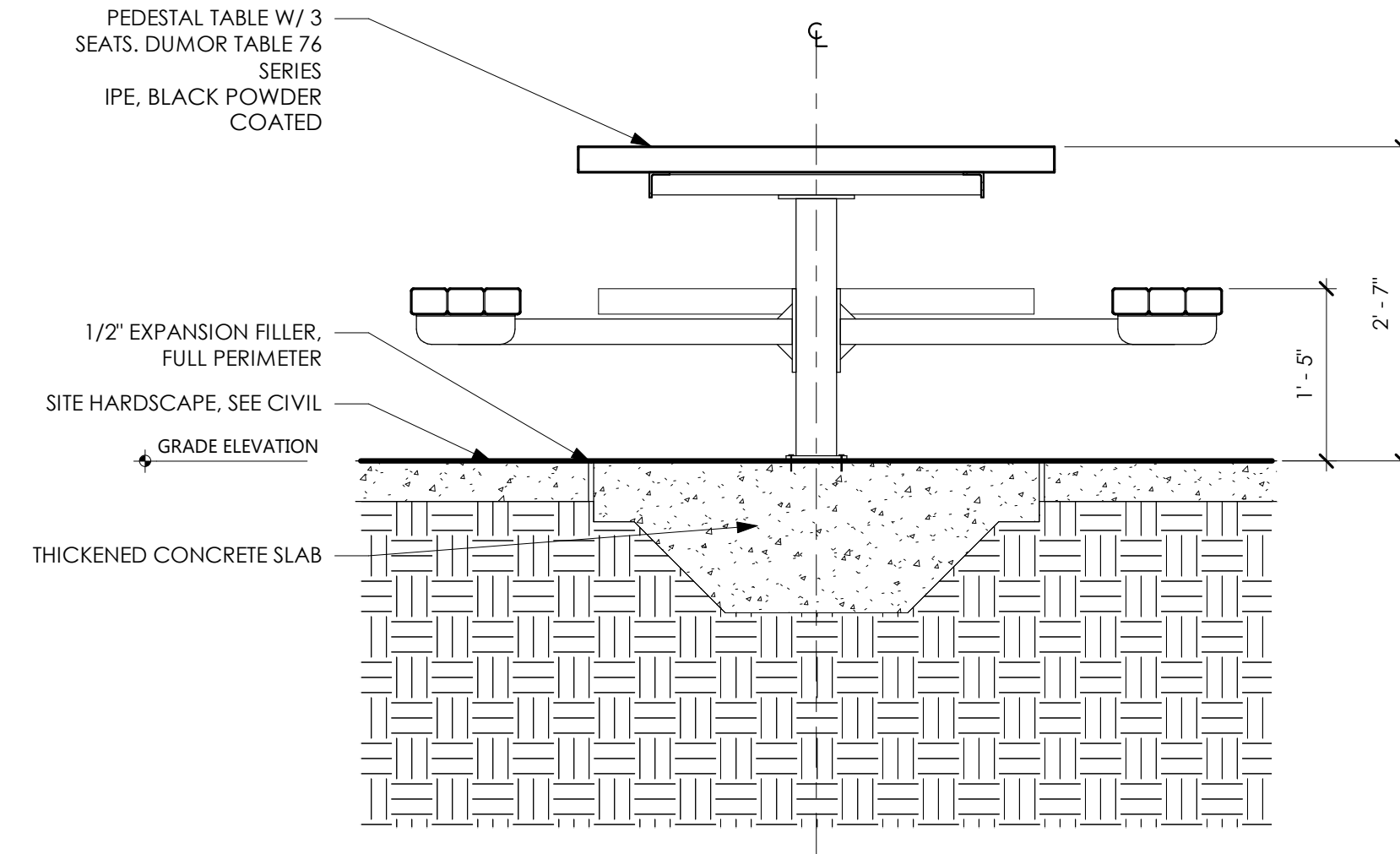
6 TYP FENCE ELEVATION - PARKING
1/4" = 1'-0"



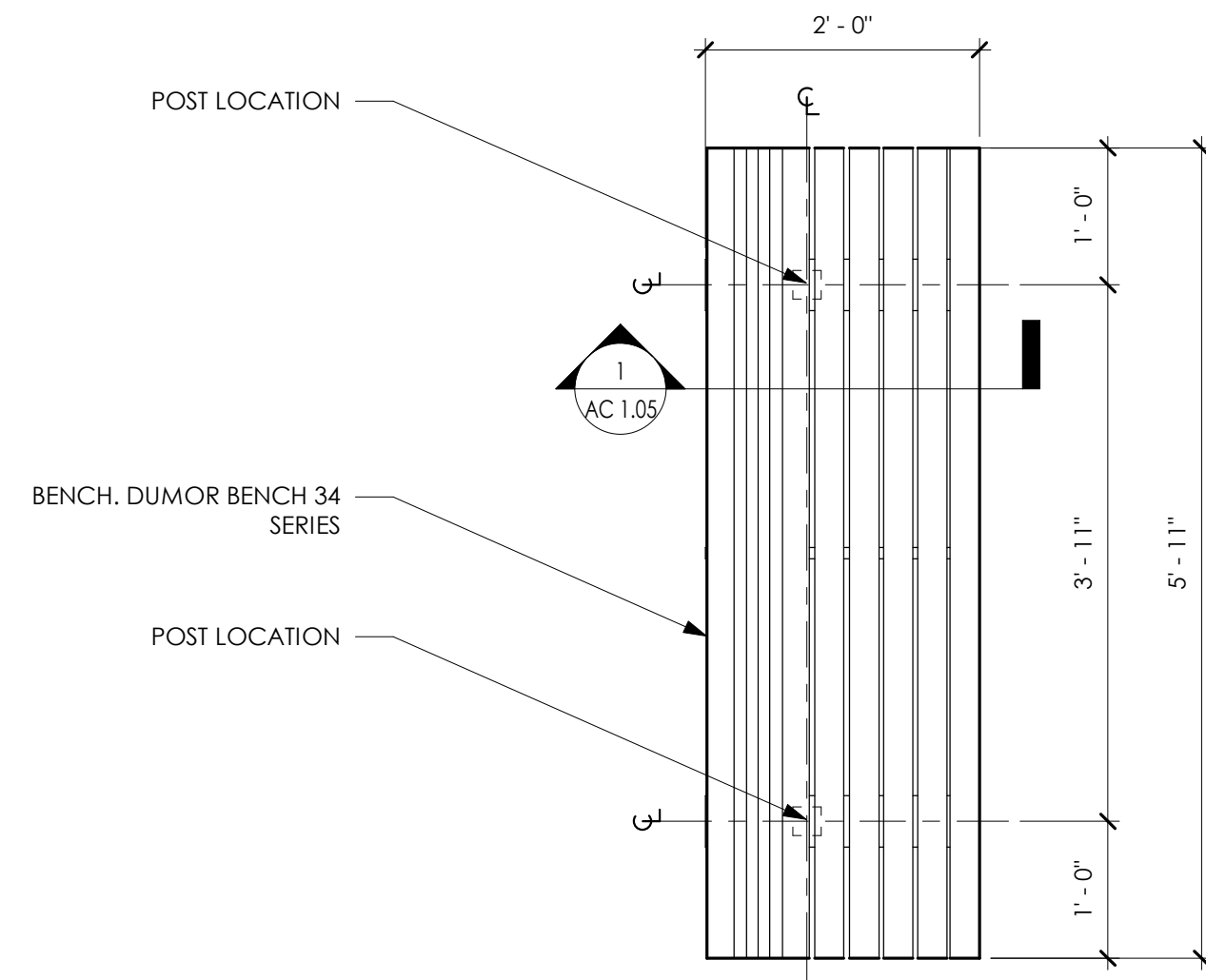
3 TYP FENCE ELEVATION - SPLASH PAD
1/4" = 1'-0"



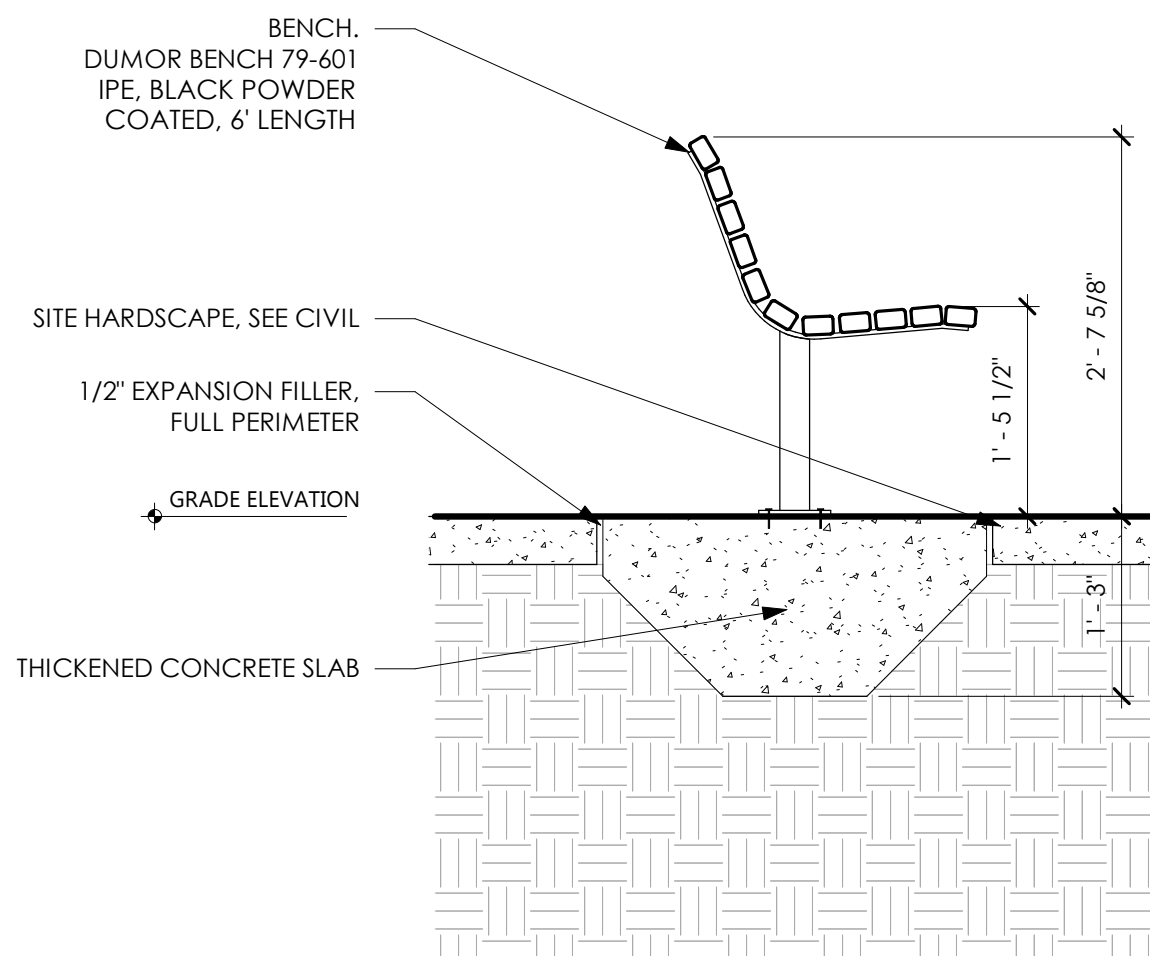
5 TYP PEDESTAL TABLE ASSEMBLY PLAN
3/4" = 1'-0"



2 TYP PEDESTAL TABLE ASSEMBLY SECTION
3/4" = 1'-0"



4 TYP BENCH PLAN
3/4" = 1'-0"



1 TYP BENCH SECTION
3/4" = 1'-0"