PIRATE COVE PICNIC AREA IMPROVEMENTS

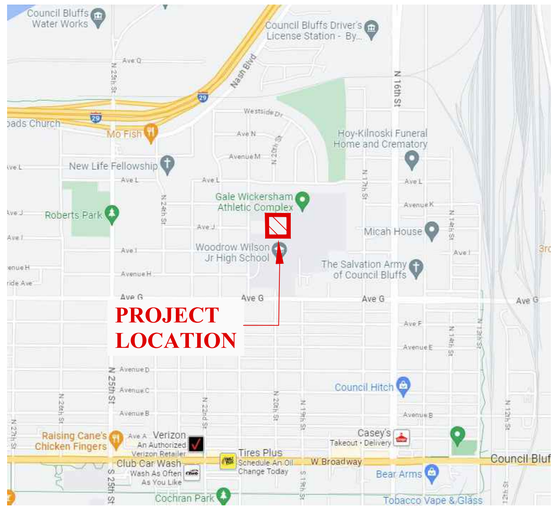
915 N 21st Street

Council Bluffs Parks and Recreation Department

CB PROJECT
#R2605

SCHEDULE OF SHEETS

SHEET C0.0	COVER SHEET
SHEET C0.1	SITE SURVEY
SHEET C1.0	DEMOLITION, LAYOUT PLANS & DETAILS
SHEET C2.0	SITE GRADING PLAN
SHEET C3.0	LANDSCAPE PLAN
SHEET EG0.0	ELECTRICAL GENERAL INFO
SHEET ES1.0	ELECTRICAL SITE PLAN



LOCATION MAP
NOT TO SCALE

N

GENERAL NOTES

1. UTILITY FACILITIES SHOWN ARE FROM LOCATES OR RECORDS PROVIDED BY OTHERS, AND SHALL BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST (EITHER IN SERVICE OR ABANDONED) AND THEIR LOCATION MAY NOT BE PRESENTLY KNOWN OR IDENTIFIED ON THE PLANS. THE ENGINEER MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE CONTRACTOR SHALL NOTIFY THE IOWA ONE-CALL SYSTEM AT 1-800-292-8989 TO IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITY FACILITIES WITHIN THE CONSTRUCTION AREA.

   THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL PUBLIC AND PRIVATE UTILITY FACILITIES LOCATED WITHIN THE CONSTRUCTION AREA TO AVOID DAMAGE IN ACCORDANCE WITH SECTION 480.4, CODE OF IOWA. DAMAGE TO UTILITIES DUE TO THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED OR REPLACED WITHOUT COST TO THE OWNER OR ENGINEER.

   WHERE EXISTING UTILITY FACILITIES ARE SHOWN IN THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITIES AND CONDUCTING WORK NEAR UTILITY FACILITIES REQUIRED BY SECTION 480.4, CODE OF IOWA.

   THE CONTRACTOR SHALL COOPERATE WITH UTILITY COMPANIES IN THEIR ADJUSTMENT OPERATIONS SO THAT THESE OPERATIONS MAY PROGRESS, THE DUPLICATION OF ADJUSTMENT WORK MAY BE REDUCED, AND THAT SERVICES RENDERED BY THOSE PARTIES WILL NOT BE INTERRUPTED.

   THE CONTRACTOR SHALL REVIEW ALL UTILITIES SHOWN IN THE PLANS AND COORDINATE WITH ALL UTILITY COMPANIES NECESSARY TO SCHEDULE WORK FOR ALL KNOWN AND POTENTIAL CONFLICTS. THE CONTRACTOR SHALL BE AWARE THAT UTILITY SERVICES ARE NOT ROUTINELY LOCATED OR SHOWN ON THE PLANS, HOWEVER MAY BE A CONFLICT WITH THE WORK PERFORMED. DELAYS, INCONVENIENCE, OR DAMAGE CLAIMED BY THE CONTRACTOR DUE TO ANY INTERFERENCE OF UTILITIES SHOWN IN THE PLANS OR SERVICES SHALL NOT BE CONSIDERED A CIRCUMSTANCE FOR ADDITIONAL TIME OR COMPENSATION.

2. THE CONTRACTOR SHALL KEEP SANITARY SEWER AND STORM SEWER LINES AND STRUCTURES CLEAN AND FREE OF DEBRIS THAT IS A RESULT OF CONSTRUCTION OPERATIONS. ANY CLEANING AND REMOVAL OF DEBRIS THAT ENTERS AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE COMPLETED AT THE EXPENSE OF THE CONTRACTOR.

3. ALL ITEMS SHOWN TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.

4. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS, INCLUDING EQUIPMENT AND MATERIAL STORAGE, WITHIN THE CONSTRUCTION ROW AND/OR EASEMENTS OF THE PROJECT. IF THE CONTRACTOR IS GRANTED PERMISSION TO STORE MATERIALS OR EQUIPMENT ON ADJACENT PRIVATE PROPERTY THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WRITTEN PROOF OF PERMISSION FROM THE LANDOWNER.

5. THE CONTRACTOR SHALL MAINTAIN THE PROJECT LIMITS. BY COMMENCING THE WORK IN A GIVEN AREA, THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR ONGOING REQUIRED MAINTENANCE SUCH AS MOWING AND WEED CONTROL WITHIN THE PROJECT LIMITS.

6. CONSTRUCTION STAKING SHALL BE FURNISHED BY THE CONTRACTOR.

7. THE CONTRACTOR SHALL CONTROL CONSTRUCTION DEBRIS, HAZARDOUS WASTE SPILLS, AND CONCRETE TRUCK WASHOUT AREA(S). THE CONTRACTOR SHALL CLEAN-UP AND DISPOSE OF ALL WASTE PROPERLY OFF-SITE AT AN APPROVED DISPOSAL FACILITY. NO CONSTRUCTION MATERIAL WASTES OR UNUSED MATERIALS SHALL BE BURIED, DUMPED, BURNED, OR DISCHARGED WITHIN THE PROJECT LIMITS.

8. THE CONTRACTOR SHALL TAKE STEPS TO CONTROL SOIL EROSION AND FUGITIVE DUST DURING CONSTRUCTION. IF NECESSARY, HAY BALES, CHECK DAMS, SEDIMENT TRAPS OR ADDITIONAL SILT FENCE (NOT INDICATED ON THE PLANS) SHALL BE USED TO RETAIN SILT AND PREVENT SILT FROM ENTERING THE STORM DRAINAGE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT OPERATIONS IN ACCORDANCE WITH THE CITY STANDARDS AND MAINTAIN CLEAN PAVEMENT AND SIDEWALKS THROUGHOUT AND UPON COMPLETION OF PROJECT.

9. ALL CONCRETE TRUCKS SHALL RETURN TO THE PLANT TO WASHOUT UNLESS THE CONTRACTOR DESIGNATES A LOCATION ON SITE FOR THE TRUCKS TO WASH. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND CLEANUP OF THE WASHOUT LOCATION.

10. THE CONTRACTOR SHALL ADEQUATELY BARRICADE WORK AREA DURING CONSTRUCTION TO INSURE PUBLIC SAFETY. IN ADDITION, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ORANGE SAFETY FENCE AROUND THE JOB SITE PERIMETER FOR THE DURATION OF THE PROJECT.

12. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES FOR ALL UTILITIES IS REQUIRED AND SHALL BE INCIDENTAL TO THE PROJECT.

    CONTRACTOR SHALL NOT DISTURB THE EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION. IF A DIRECT CONFLICT EXISTS AFTER FIELD VERIFICATION, THE ENGINEER RESERVES THE RIGHT TO REVISE THE PLAN TO ELIMINATE THE CONFLICT WITH THE EXISTING UTILITIES WITHOUT ADJUSTMENTS TO THE CONTRACT

13. THE CONTRACTOR WILL BE RESPONSIBLE TO SECURE THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO COMPLETE FIELD TESTING FOR SITE CONCRETE INCLUDING SLUMP/AIR AND CONCRETE STRENGTH (CYLINDERS) AND ON-SITE SOIL TESTING INCLUDING COMPACTION TESTS (MOISTURE AND DENSITY). COPIES OF REPORTS SHALL BE SENT TO THE ENGINEER.

14. CONCRETE ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER AND SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTAL FOR THE SPECIFIED MIX DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS.

15. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN FINAL GRADING HAS BEEN COMPLETED. THE ENGINEER SHALL PERFORM A FIELD REVIEW OF THE GRADING PRIOR TO ANY SEEDING OR HYDROMULCHING BY THE CONTRACTOR. FAILURE TO COMPLY WITH THE FINAL GRADING REVIEW MAY RESULT IN RE-GRADING, RE-SEEDING AND/OR RE-HYDROMULCHING IN AREAS THAT DO NOT MEET SPECIFICATIONS. ANY ADDITIONAL WORK WILL BE AT THE EXPENSE OF THE CONTRACTOR.

16. PROTECT ALL BUILDINGS, STRUCTURES, DRIVES, SIDEWALKS, STREETS, POLES, FENCES, SHRUBS, TREES, SIGNS, UTILITY BOXES, ETC. THAT ARE NOT DESIGNATED FOR REMOVAL. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL CLEAN ALL PAVEMENTS SURFACES ONCE CONSTRUCTION IS COMPLETE.

17. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

18. ALL TURF AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND BLANKETED.

19. THE CONTRACTOR WILL NOT BE PERMITTED TO WORK ON SATURDAYS, SUNDAYS, OR ANY LEGAL HOLIDAY WITHOUT THE OWNER'S WRITTEN CONSENT.

20. THE CITY WILL PURCHASE ITEMS AS NOTED ON THE PLANS AND IN THE SPECIFICATIONS AND THE CONTRACTOR WILL BE RESPONSIBLE TO PICK ITEMS UP AT CITY MAINTENANCE FACILITY LOCATED AT 3200 16TH AVE, COUNCIL BLUFFS AND DELIVER TO SITE FOR INSTALLATION.

SIDEWALK CONSTRAINTS

1. CROSS SLOPES: CONSTRUCT ALL SIDEWALKS, CURB RAMPS, AND LANDINGS/TURNING SPACES AT A TARGET CROSS SLOPE OF 1.5%, VERIFY WITH ENGINEER WITH EXISTING SPOT ELEVATIONS. CROSS SLOPES EXCEEDING 2.0% WILL NOT BE ALLOWED, EXCEPT FOR AREAS TYING INTO EXISTING PAVEMENT. IN THESE AREAS, TRANSITION FROM EXISTING PAVEMENT CROSS SLOPE TO A CROSS SLOPE OF LESS THAN 2.0% WITHIN ONE PANEL AT A RATE NOT TO EXCEED 1.0% PER FOOT.

2. LONGITUDINAL SLOPES:
   A. SIDEWALKS. WHEN ROADWAY SLOPE EXCEEDS 5.0% SIDEWALK LONGITUDINAL SLOPE EXCEEDING THE ROADWAY SLOPE BY MORE THAN 2.0% WILL NOT BE ALLOWED. WHEN ROADWAY SLOPE 5.0% OR LESS: SIDEWALK LONGITUDINAL SLOPE EXCEEDING 5.0% WILL NOT BE ALLOWED.

   B. RAMPS: WHEN RAMPS ARE 15.0' IN LENGTH OR LESS THE LONGITUDINAL SLOPE EXCEEDING 8.3% WILL NOT BE ALLOWED. WHEN RAMPS ARE GREATER THAN 15.0' IN LENGTH, CONSTRUCT WITH THE LONGITUDINAL SLOPE NECESSARY TO CONFORM TO THE DESIGN.

3. LANDING/TURNING SPACES: LONGITUDINAL SLOPES EXCEEDING 2.0% WILL NOT BE ALLOWED.

   ALL WORK COMPLETED THAT DOES NOT MEET THESE REQUIREMENTS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

SPECIAL SCHEDULE REQUIREMENTS

1. FINAL COMPLETION OF THE OVERALL PROJECT IS SET FOR OCTOBER 31, 2025, BUT A PORTION OF THE PROJECT MUST BE COMPLETED BY MAY 16, 2025, PRIOR TO THE POOL BEING OPENED TO THE PUBLIC.

2. PHASE ONE: MAY 16, 2025 COMPLETION SHALL CONSIST OF DEMOLITION, DRAINAGE WORK, CONCRETE WORK, JOINT SEALANT APPLICATION, CONDUIT INSTALLATION TO THE FUTURE SHELTER FOOTING LOCATIONS, AND LANDSCAPING.

3. PHASE 2: THE CONTRACTOR SHALL RETURN AFTER SEPTEMBER 15, 2025 TO INSTALL SHELTER FOOTINGS, INSTALL SHELTERS, AND COMPLETE ELECTRICAL WORK AS SHOWN.

SPECIFICATIONS:

THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2025, AND CITY OF COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS 2025, SHALL APPLY TO THIS PROJECT, OR THE MOST CURRENT.

IOWA ONE CALL

THESE DOCUMENTS SHALL NOT BE SCANNED, COPIED, OR DUPLICATED IN ANY MANNER.

STATE OF IOWA — TODD M. MAIELLARO — 00559 — PROFESSIONAL LANDSCAPE ARCHITECT

I hereby certify that this document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Landscape Architect under the laws of the State of Iowa.

2/13/2025
TODD M. MAIELLARO (DATE)
LICENSE NO. 00559

My license renewal date is JUNE 30, 2025.

Pages or sheets covered by this seal:
ALL SHEETS, EXCEPT EG0.0 AND ES1.0

LICENSED PROFESSIONAL ENGINEER — SHANE M. HOSS 19675 — IOWA

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

(signature) 2/13/2025 (date)
Shane Hoss

My license renewal date is December 31, 2025.

Pages or sheets covered by this seal:
ALL ELECTRICAL SHEETS

hgm ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

this drawing is being made available by hgm associates inc. for use on this project in accordance with the hgm associates inc. agreement for professional services. hgm associates inc. assumes no liability for unauthorized use of this drawing or any part thereof except in accordance with the terms of the above agreement.

HGM	drown	
TMM	designed	
HGM	approved	
FEB 2025	date	revision date

project: PIRATE COVE PICNIC AREA IMPROVEMENTS
915 N 21st Street

client: PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet: COVER SHEET

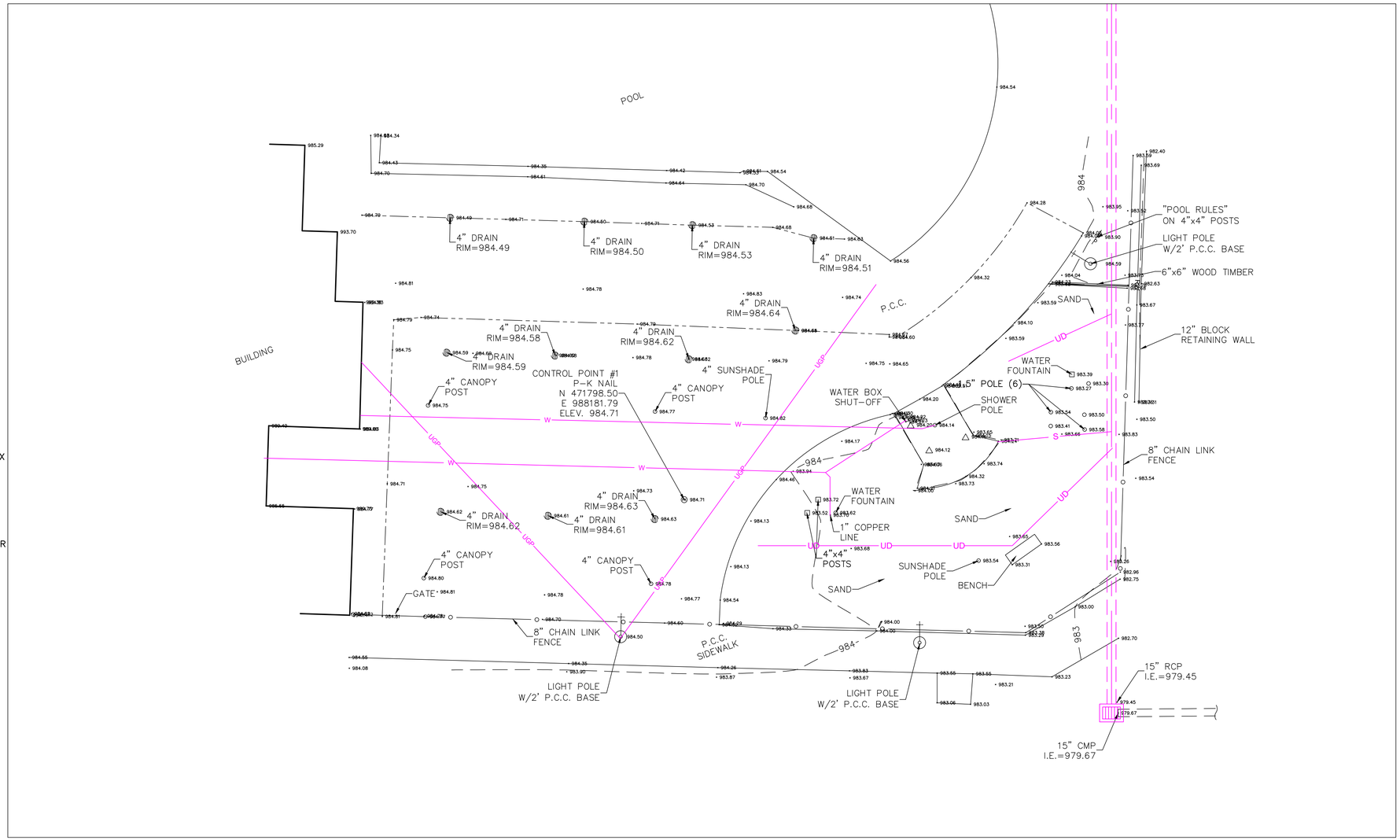
project no. 151123

sheet C0.0

FILENAME: \\SRV28\Shared\Blue_Team\Projects\151123 Pirate Cove Picnic Area\Engineering\Dwgs\Design\151123 DESIGN.dwg
DRAWN BY: tmm, SAVE DATE: Jan 28, 2025 3:00 PM DATE PLOTTED: 2/11/2025 10:36 AM, PLOT SCALE: 1:2.5849

LEGEND

- CENTER LINE
- CENTERLINE OF DITCH
- FENCE – BARB
- FENCE – CHAIN LINK
- FENCE – MIXTURE
- FENCE – PRIVACY
- FENCE – SPLIT RAIL
- FENCE – WOVEN
- GUARDRAIL
- RW — RETAINING WALL
- TOB — TOP OF BANK
- TOE — TOE OF BANK
- BOC — BACK OF CURB
- EOR — END OF RETURN
- HMA — HOT MIX ASPHALT
- PCC — PORTLAND CEMENT CONCRETE
- POB — POINT OF BEGINNING
- UAC — USE AS CONSTRUCTED
- BILLBOARD SIGN
- BORING LOCATION
- FLAG POLE
- GUARDRAIL POST
- MAILBOX
- NO PARKING SIGN
- PIEZOMETER
- POST ROUND
- POST SQUARE
- STOP SIGN
- STREET SIGN
- CATV — CABLE TELEVISION BOX
- CONTROL CABINET
- EB — ELECTRICAL PULL BOX
- TR — ELECTRICAL TRANSFORMER
- ETB — ELECTRICAL TRANSFORMER BOX
- GUY POLE
- GUY WIRE
- LIGHT POLE
- LUMINAIRE
- POWER POLE
- POWER AND LIGHT POLE
- POWER POLE W/ TRANSFORMER
- PB — PULL BOX
- TCB — TRAFFIC CONTROL BOX
- TELEPHONE POLE
- TRAFFIC SIGNAL
- TELEPHONE TERMINAL BOX
- YARD LIGHT
- G — GAS METER
- G — VALVE – GAS
- RRB — RAILROAD CONTROL BOX
- RR — RAILROAD CROSS BUCKS SIGN
- RAILROAD FROG
- RAILROAD POINT OF SWITCH
- RAILROAD SIGNAL
- RAILROAD TRACK
- SAN — SANITARY SEWER
- STM — STORM SEWER
- CLEAN–OUT
- FES — EXISTING PIPE PLUG
- FLARED END SECTION
- INLET–BEEHIVE
- INLET–COMBINATION
- INLET–GRATE (ROUND)
- INLET–GRATE (SQUARE)
- MANHOLE
- BENCH MARK
- CONTROL POINT
- FOUND CONCRETE MONUMENT
- FOUND IRON PIN
- RIGHT OF WAY RAIL
- SET PIN
- BUSH
- HEDGE
- DECIDUOUS TREE
- EVERGREEN TREE
- STUMP W/ DIAMETER
- FIRE HYDRANT
- MW — MONITORING WELL
- POST INDICATOR VALVE
- SCB — SPRINKLER CONTROL BOX
- SPRINKLER HEAD
- VALVE – WATER (MAIN LINE)
- W — WATER METER
- WELL
- YH — YARD HYDRANT



1 SITE SURVEY

0 5' 10' 20'

N

NOTE: UTILITIES SHOWN IN MAGENTA ARE DRAWN FROM EXISTING PLANS. CONTRACTOR SHALL CONFIRM LOCATIONS IN FIELD.

NOTE: 11x17 SHEET SIZE IS HALF–SIZE PLAN.

hgm ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

this drawing is being made available by hgm associates inc. for use on this project in accordance with the hgm associates inc. agreement for professional services. hgm associates inc. assumes no liability for any use of this drawing or any part thereof except in accordance with the terms of the above agreement.

HGM	TMM	HGM
drown	designed	approved
FEB 2025		
date		

revision	date

project: PIRATE COVE PICNIC AREA IMPROVEMENTS
915 N 21st Street

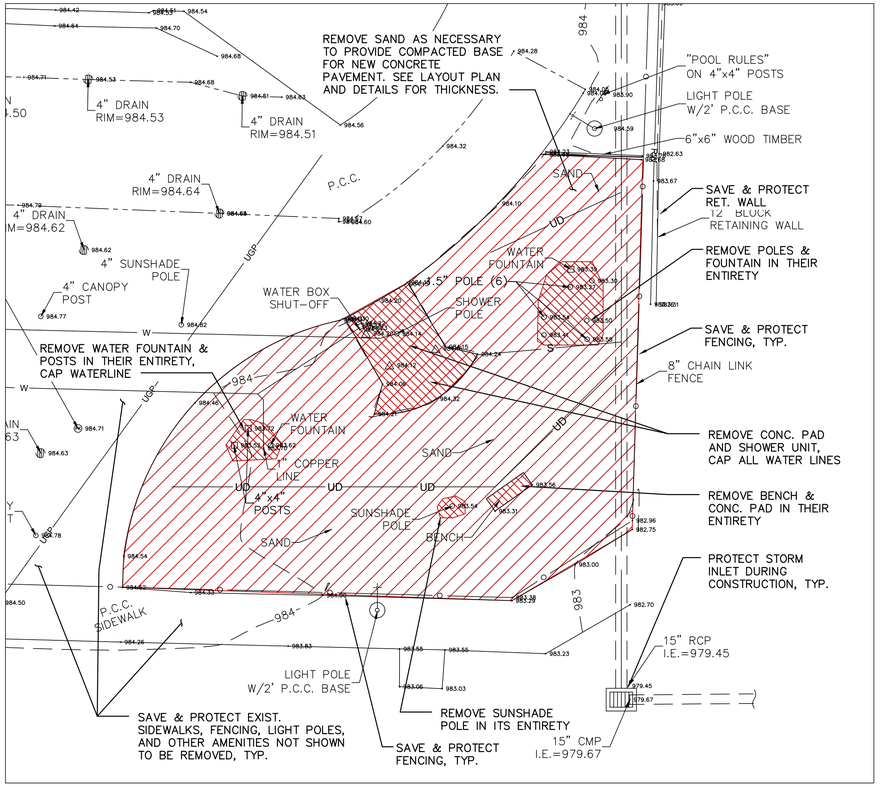
client: PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet: SITE SURVEY

project no. 151123

sheet C0.1

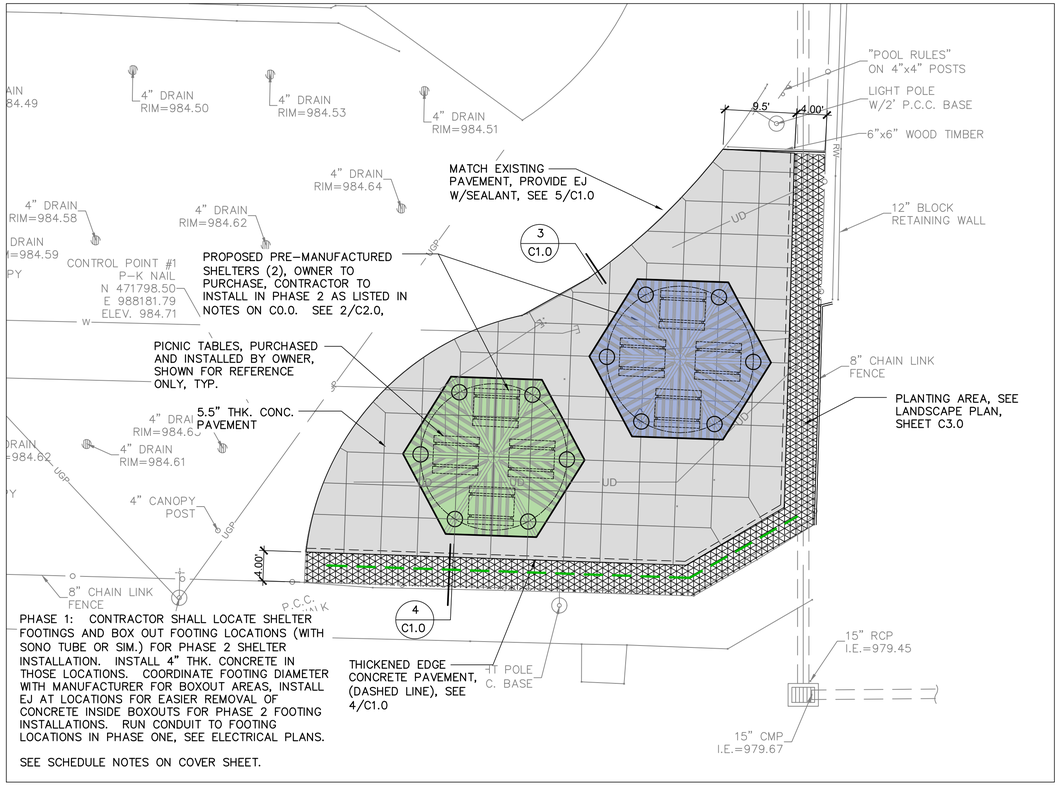
FILENAME: \\SRV28\Shared\Blue_Team\Projects\151123 Pirate Cove Picnic Area\Engineering\Dwgs\Design\151123 DESIGN.dwg
DRAWN BY: Tmm; SAVE DATE: Jan 28, 2025 3:00 PM DATE PLOTTED: 2/11/2025 10:36 AM, PLOT SCALE: 1:2.5849



1 SITE DEMOLITION PLAN

0 5' 10' 20'

N



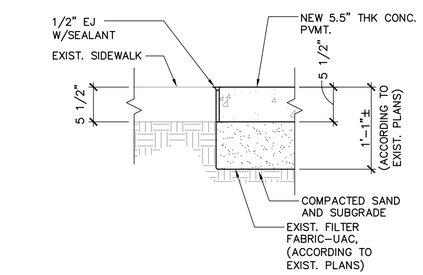
PHASE 1: CONTRACTOR SHALL LOCATE SHELTER FOOTINGS AND BOX OUT FOOTING LOCATIONS (WITH SONO TUBE OR SIM.) FOR PHASE 2 SHELTER INSTALLATION. INSTALL 4" THK. CONCRETE IN THOSE LOCATIONS. COORDINATE FOOTING DIAMETER WITH MANUFACTURER FOR BOXOUT AREAS, INSTALL EJ AT LOCATIONS FOR EASIER REMOVAL OF CONCRETE INSIDE BOXOUTS FOR PHASE 2 FOOTING INSTALLATIONS. RUN CONDUIT TO FOOTING LOCATIONS IN PHASE ONE, SEE ELECTRICAL PLANS.

SEE SCHEDULE NOTES ON COVER SHEET.

2 SITE LAYOUT PLAN

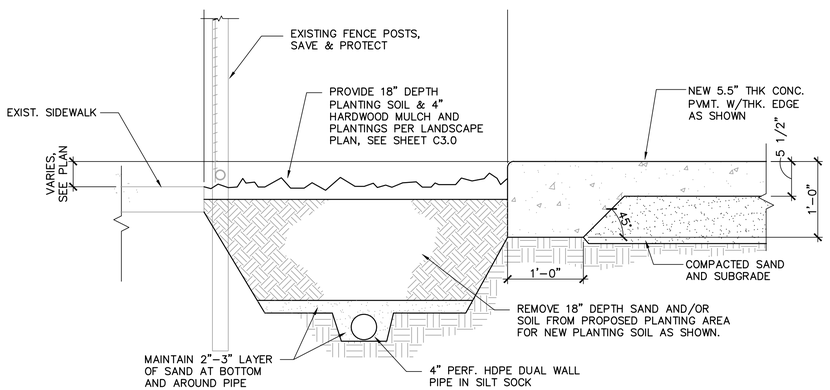
0 5' 10' 20'

N



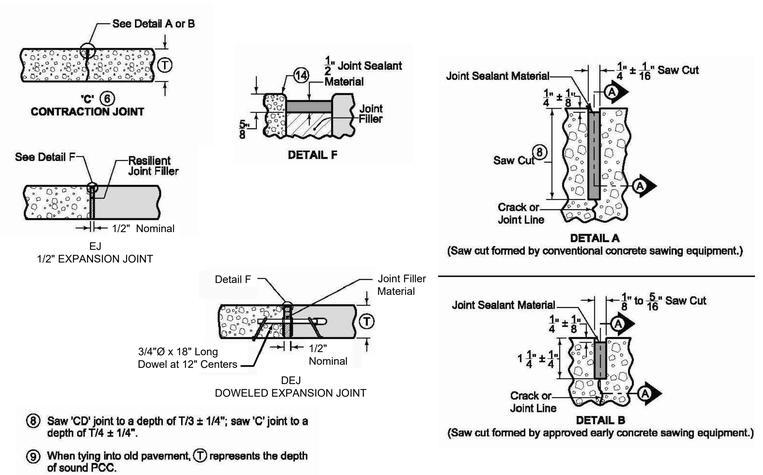
3 NEW PVMT/EXIST. PVMT DETAIL

SCALE: 1" = 1'-0"



4 NEW PVMT. W/THICKENED EDGE AT PLANTING AREA

SCALE: 1" = 1'-0"



(8) Saw 'CD' joint to a depth of T/3 ± 1/4"; saw 'C' joint to a depth of T/4 ± 1/4".

(9) When tying into old pavement, (T) represents the depth of sound PCC.

5 SIDEWALK JOINTS

NO SCALE

NOTE: 11x17 SHEET SIZE IS HALF-SIZE PLAN.

hgm ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

this drawing is being made available by hgm associates inc. for use on this project in accordance with the hgm associates inc. agreement for professional services. hgm associates inc. assumes no responsibility for use of this drawing or any part thereof except in accordance with the terms of the above agreement.

HGM	TMM	HGM
drown	designed	approved
FEB 2025		
date		

revision	date

project: PIRATE COVE PICNIC AREA IMPROVEMENTS
915 N 21st Street

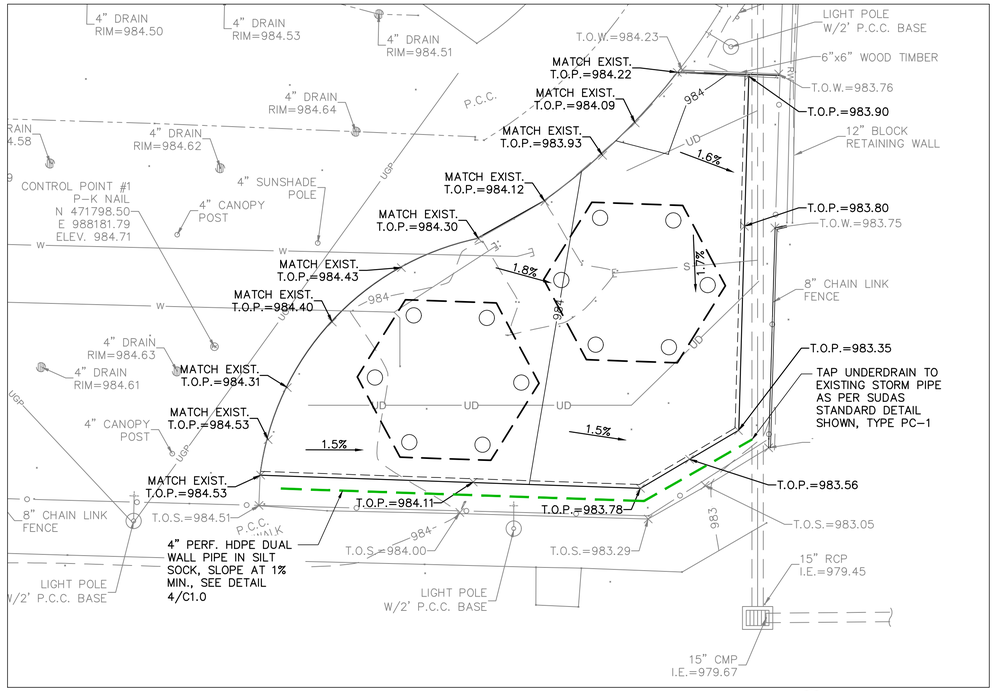
client: PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet: SITE DEMOLITION & LAYOUT PLAN

project no. 151123

sheet C1.0

FILENAME: \\SRV28\Shared\Blue_Team\Projects\151123 Pirate Cove Picnic Area\Engineering\Dwgs\Design\151123 DESIGN.dwg
DRAWN BY: Tmm; SAVE DATE: Jan 28, 2025 3:00 PM DATE PLOTTED: 2/11/2025 10:37 AM, PLOT SCALE: 1:2.5849



1 SITE GRADING PLAN

0 5' 10' 20'

N

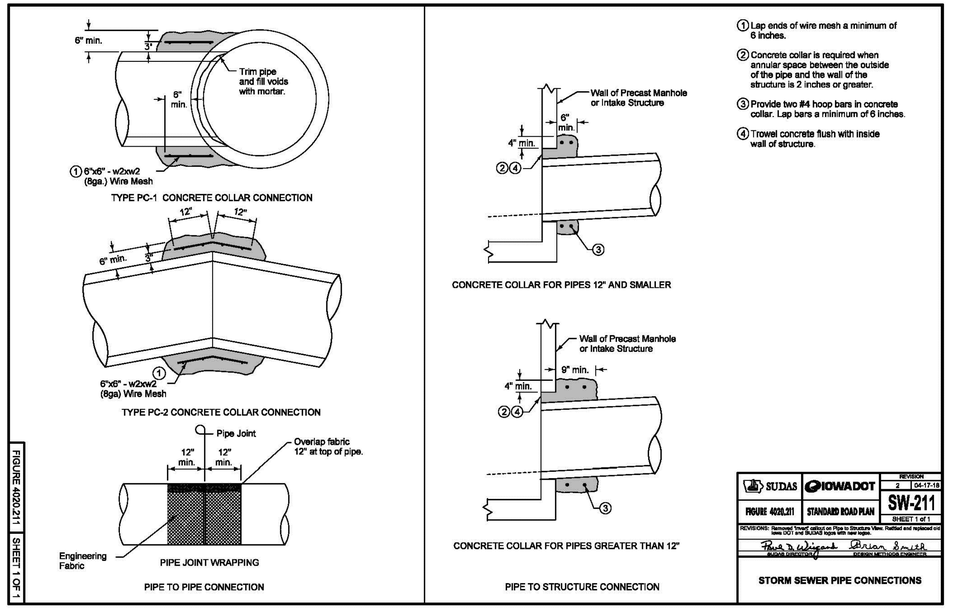
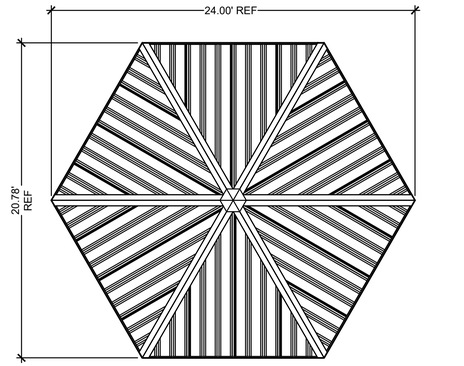


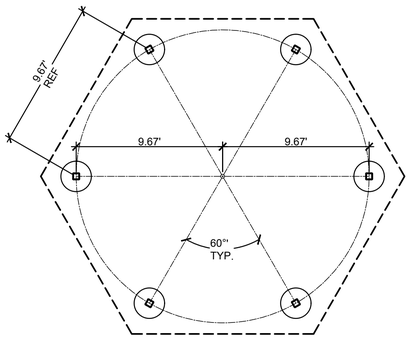
FIGURE 4020.211 | SHEET 1 OF 1

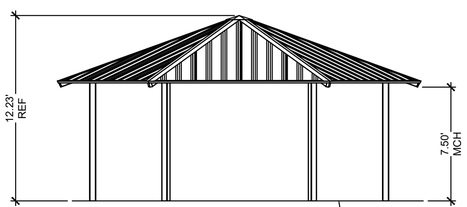
SUDAS	IOWA DOT	REVISION
FIGURE 4020.211	STANDARD ROAD PLAN	2 | 04-17-18
		SW-211
		SHEET 1 of 1

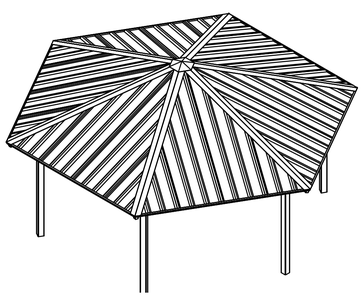
REVISIONS: Removed 'trowel' callout on Pipe to Structure View. Rotated and replaced one time DOT and SUDAS logos with new logos.

STORM SEWER PIPE CONNECTIONS









REFER TO SCHEDULE NOTES ON COVER SHEET FOR INSTALLATION SCHEDULE AND BOX OUT REQUIREMENTS.

BASEPLATE NOTES:
1. POLIGON ENGINEERING WILL DETERMINE REQUIRED BASEPLATE DESIGN AFTER ENGINEERING PACKAGE IS ORDERED.

2. CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.

SHELTER NOTES:
1. POLIGON SHELTER SHOWN, HXE-24 OR SUPERIOR SHELTER, HEXAGON 24.

2. OWNER TO PURCHASE SHELTER AND CONTRACTOR SHALL SHELTER AS PER MANUFACTURER'S INSTRUCTIONS. THE OWNER SHALL PROVIDE SEALED SHELTER DRAWINGS TO CONTRACTOR FOR USE FOR ERECTION OF SHELTER AND INSTALLATION OF FOOTING SIZE AND REINFORCEMENT REQUIRED.

3. SHELTER TO HAVE MULTI-RIB ROOF, FOR REFERENCE ONLY.

4. THE OWNER SHALL CHOSE FINAL COLORS FROM MANUFACTURER'S STANDARD COLORS. ONE SHELTER SHALL HAVE BLUE ROOF, ONE SHELTER SHALL HAVE GREEN ROOF.

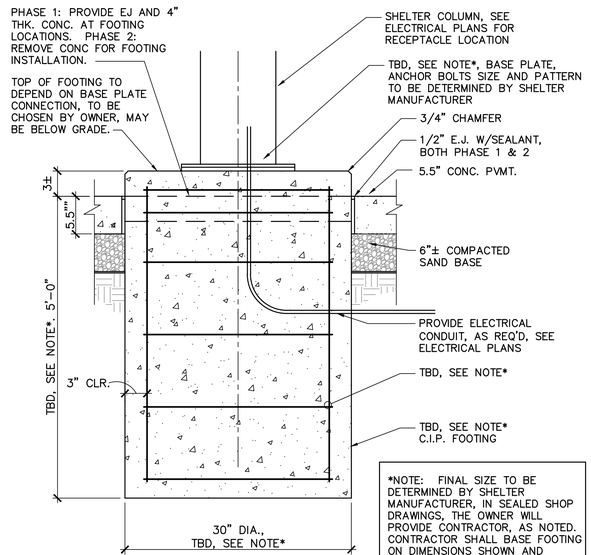
5. COLUMN BASE CONNECTION: TBD. CONTRACTOR TO WORK WITH OWNER/ARCHITECT ON BASE CONNECTION OPTIONS. PROVIDE BASEPLATE COVER FOR EXPOSED BOLTS (S43).

6. VERIFY ALL DIMENSIONS SHOWN WITH SHELTER MANUFACTURER'S DIMENSIONS.

7. NOTE THAT LIGHTING AND RECEPTACLES TO BE ADDED TO SHELTERS, SEE ELECTRICAL PLANS.

2 SHELTER DETAILS - (OWNER TO PURCHASE, CONTRACTOR TO INSTALL)

NO SCALE



*NOTE: FINAL SIZE TO BE DETERMINED BY SHELTER MANUFACTURER, IN SEALED SHOP DRAWINGS, THE OWNER WILL PROVIDE CONTRACTOR, AS NOTED. CONTRACTOR SHALL BASE FOOTING ON DIMENSIONS SHOWN AND SHALL BE ADJUSTED PER CHANGE ORDER, IF NEEDED.

3 SHELTER FOOTING DETAIL

NO SCALE

NOTE: 11x17 SHEET SIZE IS HALF-SIZE PLAN.

hgm ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

this drawing is being made available by hgm associates inc. for use on this project in accordance with the hgm associates inc. agreement for professional services. hgm associates inc. assumes no liability for any use of this drawing or any part thereof except in accordance with the terms of the above agreement.

HGM	TMM	HGM	FEB 2025
drawn	designed	approved	date

revision	date

project PIRATE COVE PICNIC AREA IMPROVEMENTS
915 N 21st Street

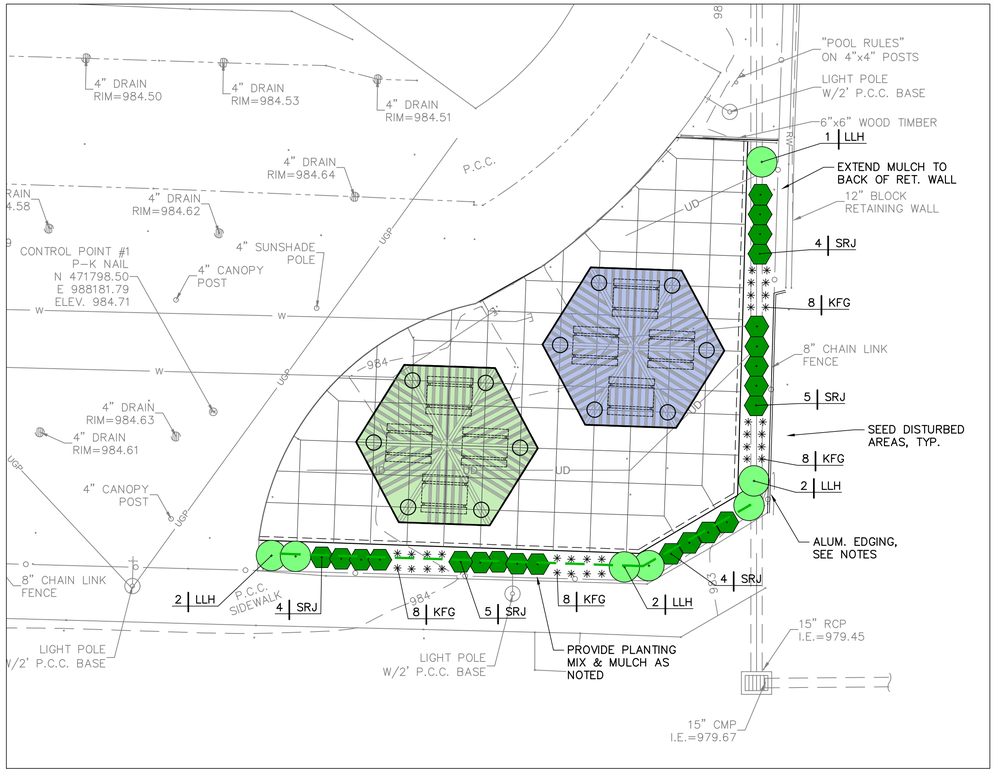
client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet SITE GRADING PLAN

project no. 151123

sheet C2.0

FILENAME: \\SRV28\Shared\Blue_Team\Projects\151123 Pirate Cove Picnic Area\Engineering\Dwgs\Design\151123 DESIGN.dwg
DRAWN BY: Tmm, SAVE DATE: Jan 28, 2025 3:00 PM DATE PLOTTED: 2/11/2025 10:37 AM, PLOT SCALE: 1:2.5849



1 LANDSCAPE PLAN

0 5' 10' 20'

N

PLANTING SCHEDULE

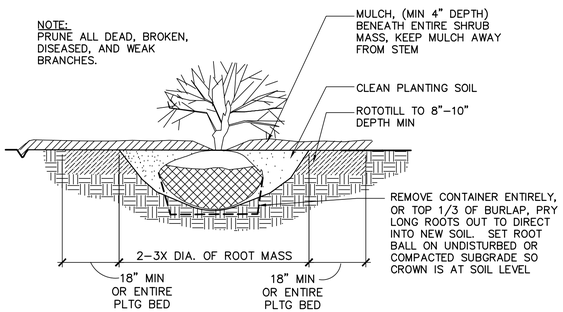
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	DESCRIPTION
SHRUBS					
LLH	7	Hydrangea paniculata 'Little Limelight'	Little Limelight Hydrangea	24"	CONTAINER
SRJ	22	Juniperus scopulorum 'Skyrocket'	Skyrocket Juniper	4' height	CONTAINER
PERENNIALS					
KFG	32	Calamagrastis x acutiflora 'Karl Foerster'	Karl Foerster Reed Grass	1 GAL	CONTAINER

PLANTING NOTES:

1. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
2. LOCATE AND FLAG ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DAMAGE TO UTILITIES OR OTHER SITE IMPROVEMENTS CAUSED BY CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER.
3. ALL PLANT MATERIALS MUST CONFORM TO AMERICAN STANDARDS FOR NURSERY STOCK (A.S.N.S.), LATEST EDITION PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON D.C.
4. LARGER SIZED PLANT MATERIALS OF THE SPECIES LISTED MAY BE USED IF THE STOCK CONFORMS TO THE A.S.N.S. ALL SPECIES SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
5. THE LOCATIONS OF PLANT MATERIAL IS CRITICAL AND SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. STAKE LOCATION OF PLANT MATERIALS AND OBTAIN APPROVAL OF LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT PLANT TREES OR SHRUBS IN SWALE AREAS.
6. THE LANDSCAPE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
7. PLANTING SOIL MIX FOR CONTINUOUS PLANTING BEDS, EXCAVATE AREAS FOR NEW PLANTINGS, AND THROUGHLY MIX 1" COMPOST MATERIAL WITH CLEAN TOPSOIL TO A DEPTH OF 18" MIN. THIS TO BE COMPLETED AFTER RESTORATION OF THE AREA.
8. PROVIDE SHREDDED HARDWOOD MULCH IN ALL PLANTING BEDS TO A 4-INCH MINIMUM DEPTH. APPLY PRE- EMERGENT TO ALL PLANTING BEDS PRIOR TO MULCHING. PROVIDE BROWN-COLORED MULCH.
9. ALL EXISTING TURF AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND BLANKETED. SEE DRAWINGS FOR GENERAL AREA.
10. OWNER RESERVES THE RIGHT TO SUBSTITUTE PLANT MATERIAL TYPE, SIZE, AND/OR QUANTITY.
11. FIELD ADJUSTMENTS MAY BE NECESSARY BASED UPON FIELD CONDITIONS (I.E. ROOT BALL AND DROP INLET CONFLICT). CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO PLANTING. ALL ADJUSTMENTS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
12. ALL DEMOLISHED AND/OR REMOVED ITEMS SHALL BE HAULED COMPLETELY AWAY FROM THE SITE BY THE CONTRACTOR.
13. ALUM. EDGING SHALL BE CLEANLINE, 3/16"x 5-1/2" ALUMINUM EDGING WITH STAKING (BLACK ANODIZED FINISH) AS MANUFACTURED BY PERMALOC CORPORATION OR APPROVED EQUIVALENT.

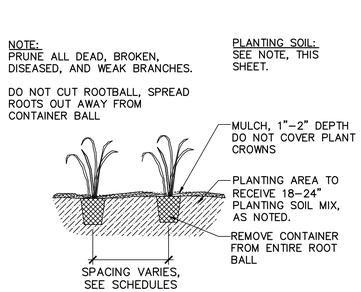
NOTE:
LANDSCAPING TO BE
COMPLETED BY OWNER

CONTRACTOR IS NOT RESPONSIBLE FOR
PLANT MATERIAL, PLANTING SOIL,
ALUM. EDGING, OR MULCH.



3 SHRUB PLANTING DETAIL

NO SCALE



4 PERENNIAL PLANTING DETAIL

NO SCALE

NOTE: 11x17 SHEET SIZE IS HALF-SIZE PLAN.

hgm ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

this drawing is being made available by hgm associates inc. for use on this project in accordance with the hgm associates inc. agreement for professional services. hgm associates inc. assumes no liability for any use of this drawing or any part thereof except in accordance with the terms of the above agreement.

HGM	TMM	HGM
drawn	designed	approved
		FEB 2025
		date
		revision date

project PIRATE COVE PICNIC AREA IMPROVEMENTS
915 N 21st Street

client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet LANDSCAPE PLAN

project no.
151123

sheet
C3.0

FILENAME: \\SRV28\Shared\Blue_Team\Projects\151123 Pirate Cove Picnic Area\Engineering\Dwgs\Design\151123_DESIGN.dwg
DRAWN BY: Tmm, SAVE DATE: Jan 28, 2025 3:00 PM DATE PLOTTED: 2/11/2025 10:41 AM, PLOT SCALE: 1:2.5849

ELECTRICAL SPECIFICATIONS

SECTION 26 0101 - GENERAL ELECTRICAL REQUIREMENTS

A. RULES AND REGULATIONS

ALL WORK, MATERIALS, AND MANNER OF PLACING MATERIAL OF THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (SEE PARTICULARLY PAMPHLETS 101, 70, AND 90A) AND WITH THE MUNICIPAL AND STATE LAWS AND ORDINANCES RELATING TO THIS WORK. ALL ELECTRICAL MATERIALS USED IN THIS WORK SHALL BE APPROVED BY THE UNDERWRITER'S LABORATORIES AND SHALL BEAR THEIR LABEL OF APPROVAL. IN EVENT OF CONFLICT BETWEEN THE PLANS AND/OR SPECIFICATIONS AND GOVERNING LAWS OR ORDINANCES, THE MORE STRINGENT SHALL SUPERSEDE.

B. PERMITS, LICENSES, AND FEES

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL REQUIREMENTS AS TO PERMITS, LICENSES, FEES, CODES, AND ORDINANCES AND ARRANGE TO COMPLY WITH THEM. ALL PERMITS, LICENSES, FEES, AND INSPECTIONS REQUIRED FOR THE WORK UNDER THIS CONTRACT SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.

C. GENERAL REQUIREMENTS

SEE DIVISION I PROJECT MANUAL OR ARCHITECTURAL AND CIVIL DRAWINGS FOR GENERAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO ALTERNATE BID ITEMS, ADMINISTRATIVE REQUIREMENTS, PROJECT REQUIREMENTS, AND CLOSEOUT SUBMITTALS.

D. WARRANTY

THE CONTRACTOR SHALL WARRANT ALL MATERIAL AND WORKMANSHIP UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM RECEIPT OF WRITTEN FINAL ACCEPTANCE, UNLESS NOTED OTHERWISE. HE SHALL REPAIR OR REPLACE, FREE OF CHARGE, ANY APPARATUS WHICH SHALL BE DEFECTIVE DURING THAT PERIOD OF TIME, WHICH IS DEFECTIVE DUE TO FAULTY MATERIAL OR WORKMANSHIP.

E. SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT PDF COPIES OF SHOP DRAWINGS AND PRODUCT DATA TO THE ARCHITECT/ENGINEER FOR APPROVAL OR SUBMIT DIGITAL INFORMATION ON SUBMITTAL EXCHANGE OR OTHER APPROVED DIGITAL DOCUMENTING SYSTEM. STAMP, DATE, AND SIGN EACH SUBMITTAL TO INDICATE SUBMITTAL IS IN CONFORMANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:

1. WIRING DEVICES AND COVER PLATES
2. LUMINAIRES

THE ARCHITECT/ENGINEER SHALL BE THE SOLE AND FINAL JUDGE AS TO THE SUITABILITY OF ITEMS SUBSTITUTED FOR THOSE SPECIFIED. THE ENTIRE COST OF ALL CHANGES OF ANY TYPE DUE TO SUBSTITUTIONS FOR MATERIALS SPECIFIED SHALL BE BORNE BY THE CONTRACTOR AT NO EXTRA COST.

B. RECORD DRAWINGS

SUBMIT A COMPLETE SET OF "AS-BUILT" RECORD DRAWINGS, THAT INCLUDES ALL ADDENDUMS, APPROVED CHANGE ORDERS, AND FIELD MODIFICATIONS THAT WERE MADE TO THE ORIGINAL CONSTRUCTION DOCUMENTS. RECORD ALL REVISIONS IN RED INK.

SECTION 26 0501 - MINOR ELECTRICAL DEMOLITION

THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, WIRING DEVICES, LIGHTING FIXTURES, MOUNTING HARDWARE, ASSOCIATED WIRING, AND CONDUIT IN ALL AREAS OF THE BUILDING UNDER GOING DEMOLITION AS A PART OF THIS PROJECT. ELECTRICAL CIRCUITS SHALL BE REMOVED TO SOURCE OF SUPPLY AND SHALL BE LEFT IN A SAFE CONDITION AND ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE. ELECTRICAL DEMOLITION WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR TO ENSURE THE SAFETY OF ALL WORKERS, OTHER PERSONNEL, AND PUBLIC FROM ANY HAZARD WITH RESPECT TO THE ELECTRICAL SYSTEM. PROVIDE BLANK COVER PLATES ON ALL ABANDONED BOXES.

COORDINATE ALL DOWNTIMES OF ELECTRICAL SYSTEMS WITH THE OWNER, UTILITY COMPANIES, AND LOCAL FIRE DEPARTMENT.

SECTION 26 0519 - CONDUCTORS AND CABLES

ALL WIRE AND CABLE SHALL BE SOFT DRAWN, COPPER WIRE WITH 600 VOLT INSULATION. WIRE AND CABLE SHALL BE TYPE THHN/THWN UNLESS OTHERWISE NOTED.

NO WIRES SMALLER THAN #12 SHALL BE USED, UNLESS NOTED OTHERWISE, EXCEPT #14 AWG MAY BE USED FOR CONTROL WIRING. ALL WIRING SHALL BE COLOR CODED PER N.E.C. ARTICLE 210-5. SPECIAL SYSTEM WIRE SHALL BE OF TYPE AND SIZE SPECIFIED ELSEWHERE IN THIS SPECIFICATION OR SHOWN ON THE DRAWINGS. ALL WIRE #10 AWG AND SMALLER SHALL BE SOLID COPPER AND ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED COPPER WIRE.

THE USE OF MC OR AC CABLE IS PROHIBITED.

SECTION 26 0526 - GROUNDING AND BONDING

ALL NEUTRAL CONDUCTORS, CONDUIT SYSTEMS, CABINETS, EQUIPMENT, MOTOR FRAMES, AND OTHER ELECTRICAL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH N.E.C AND MUNICIPAL CODES AND ORDINANCES. PROVIDE A GREEN INSULATED GROUNDING CONDUCTOR IN ALL CONDUITS. SIZE OF GROUNDING CONDUCTOR SHALL BE IN ACCORDANCE WITH THE NEC. INCREASE SIZE AS REQUIRED FOR VOLTAGE DROP.

SECTION 26 0529 - HANGERS AND SUPPORTS

PROVIDE ALL REQUIRED HANGERS, SUPPORTS, ANCHORS, FASTENERS, ETC., AS REQUIRED TO SECURE AND SUPPORT RACEWAYS AND EQUIPMENT, IN ACCORDANCE WITH THE NEC. DO NOT USE WIRE, CHAIN, PERFORATED PIPE STRAP, WOOD, POWDER ACTUATED OR RED ANCHORS FOR PERMANENT SUPPORTS, UNLESS NOTED OTHERWISE. DO NOT SUPPORT FROM PIPING OR HVAC DUCTWORK. ALL HANGERS, SUPPORTS, ANCHORS, FASTENERS, ETC., SHALL BE GALVANIZED AND UL LISTED FOR THE APPLICATION.

SECTION 26 0534 - CONDUIT

ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT RACEWAYS UNLESS OTHERWISE INDICATED HEREIN. ALL CONDUIT RUNS SHOWN ARE DIAGRAMMATIC, EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ALL RACEWAYS SHALL BE SIZED PER THE N.E.C. NO CONDUIT SMALLER THAN 3/4 INCH SHALL BE PERMITTED FOR POWER DISTRIBUTION WIRING, EXCEPT 1/2" CONDUIT MAY BE USED FOR EXIT LIGHTS, "SWITCH LEGS", FRACTIONAL HORSEPOWER EQUIPMENT, AND WHERE NOTED ON THE DRAWINGS OR IN OTHER SPEC. SECTIONS. FLEXIBLE CONDUIT, 3/8" MINIMUM SIZE, MAY BE USED FOR FIXTURE WHIPS. ALL WIRING INSTALLED BELOW CONCRETE SLABS ON GRADE, ALL ABOVE GRADE EXTERIOR WIRING, AND ALL WIRING EXPOSED TO MOISTURE OR PHYSICAL DAMAGE SHALL BE INSTALLED IN RIGID STEEL CONDUIT OR INTERMEDIATE METAL. ALL INTERIOR AND EXTERIOR UNDERGROUND WIRING TO BE INSTALLED IN SCHEDULE 40 OR SCHEDULE 80 RIGID PVC CONDUIT UNLESS OTHERWISE NOTED. ALL MOTOR CONNECTIONS (24 INCH MAXIMUM LENGTH) TO BE MADE WITH FLEXIBLE CONDUIT. USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT IN DAMP AND WET LOCATIONS. ALL OTHER WIRING SHALL BE INSTALLED IN THIN WALL CONDUIT (E.M.T.). ALL STEEL COMPRESSION OR SET SCREW FITTINGS SHALL BE USED.

CONDUITS SHALL BE INSTALLED CONCEALED IN OR ABOVE CEILING OR BELOW CONCRETE FLOORS AND WITHIN WALLS. NO RACEWAY LARGER THAN 3/4 INCH SHALL BE INSTALLED WITHIN CONCRETE SLABS ON GRADE. INSTALLATION OF RACEWAYS IN REINFORCED CONCRETE SHALL COMPLY WITH AMERICAN CONCRETE INSTITUTION STANDARD NO. 318. EXPOSED CONDUIT WILL BE ALLOWED ONLY OVERHEAD IN ROOMS WITH UNFINISHED CEILINGS, FOR DROPS TO MOTORS, ON WALL FOR CONNECTION TO SURFACE-MOUNTED PANELBOARDS OR SWITCHBOARDS OR CABINETS, IN ELECTRICAL EQUIPMENT ROOMS, AND WHERE NOTED ON THE PLANS.

SUPPORT CONDUITS IN ACCORDANCE WITH THE NEC AND SPEC. SECTION 26 0529. DO NOT SUPPORT CONDUITS FROM HVAC DUCTWORK OR PIPING. PROVIDE EXPANSION FITTINGS, FIRESTOPPING, MODULAR SEALS, SLEEVES, TRENCHING, WARNING TAPE, PULLSTRINGS IN EMPTY CONDUITS, ETC. AS REQUIRED FOR A COMPLETE CONDUIT AND RACEWAY SYSTEM.

SECTION 26 0537 - BOXES

A. GENERAL REQUIREMENTS

1. PROVIDE ALL BOXES, FITTINGS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE RACEWAY SYSTEM AND TO ACCOMMODATE DEVICES AND EQUIPMENT TO BE INSTALLED.
2. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.
3. WHERE BOX SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70, BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.
4. PROVIDE GROUNDING TERMINALS WITHIN BOXES WHERE EQUIPMENT GROUNDING CONDUCTORS TERMINATE.
5. USE NEMA OS1 SHEET STEEL BOXES FOR DRY LOCATION, COMPLYING WITH UL 514A.
6. USE NEMA FB1 CAST IRON BOXES OR CAST ALUMINUM BOXES FOR DAMP OR WET LOCATIONS UNLESS OTHERWISE INDICATED OR REQUIRED, COMPLYING WITH UL 514A. FURNISH WITH COMPATIBLE WEATHERPROOF GASKETED COVERS.
7. DO NOT USE "THROUGH-WALL" BOXES DESIGNATED FOR ACCESS FROM BOTH SIDES OF WALL.
8. BOXES FOR SUPPORTING LUMINAIRES AND CEILING FANS. LISTED AS SUITABLE FOR THE TYPE AND WEIGHT OF LOAD TO BE SUPPORTED.
9. MINIMUM BOX SIZE, UNLESS OTHERWISE INDICATED:
   a. WIRING DEVICES AND COMMUNICATIONS SYSTEMS OUTLETS, 4 INCH SQUARE BY 2-1/8 INCH DEEP (100 BY 54MM) TRADE SIZE, UNLESS NOTED OTHERWISE.
   b. CEILING OUTLETS: 4 INCH OCTAGONAL OR SQUARE BY 2-1/8 INCH DEEP (100 BY 54MM) TRADE SIZE.

B. CABINETS AND ENCLOSURES, INCLUDING JUNCTION AND PULL BOXES LARGER THAN 100 CUBIC INCHES

1. COMPLY WITH NEMA 250, AND LIST AND LABEL AS COMPLYING WITH UL 50 AND UL 50E, OR UL 508A.

C. BOX LOCATIONS

1. LOCATE BOXES SO THAT WALL PLATES DO NOT SPAN DIFFERENT BUILDING FINISHES.
2. LOCATE BOXES SO THAT WALL PLATES DO NOT CROSS MASONRY JOINTS.
3. UNLESS OTHERWISE INDICATED, WHERE MULTIPLE OUTLET BOXES ARE INSTALLED AT THE SAME LOCATION AT DIFFERENT MOUNTING HEIGHTS, INSTALL ALONG A COMMON VERTICAL CENTER LINE.
4. DO NOT INSTALL FLUSH MOUNTED BOXES ON OPPOSITE SIDES OF WALLS BACK-TO-BACK. PROVIDE MINIMUM 24 INCHES HORIZONTAL SEPARATION UNLESS OTHERWISE NOTED.
5. ACOUSTIC-RATED WALLS: DO NOT INSTALL FLUSH MOUNTED BOXES ON OPPOSITE SIDES OF WALLS BACK-TO-BACK. PROVIDE MINIMUM 24 INCHES HORIZONTAL SEPARATION.
6. FIRE RESISTANCE RATED WALLS. INSTALL FLUSH MOUNTED BOXES SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED.

SECTION 26 0553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC NAME PLATES WITH WHITE LETTERS ON BLACK BACKGROUND FOR EACH PANELBOARD, SWITCHBOARD AND BREAKERS, ENCLOSED SWITCH, RELAY, OR MOTOR CONTROLLER.

SECTION 26 2416 - PANELBOARDS

ALL PANELBOARDS SHALL BE MANUFACTURED BY SQUARE "D" OR EQUAL. ALL PANELS SHALL BE DEAD FRONT WITH CIRCUIT BREAKERS IN ACCORDANCE WITH SCHEDULES AND NOTATIONS SHOWN ON THE DRAWINGS. ALL PANELS SHALL HAVE A COPPER BUS AND AN EQUIPMENT GROUND BUS. LOAD CENTER PANELS ARE NOT ACCEPTABLE.

ALL CABINETS, WIRING GUTTERS, ETC., SHALL BE IN STRICT ACCORDANCE WITH THE STANDARD PRACTICE OF THE NEMA AND THE NATIONAL ELECTRIC CODE. ALL BRANCH CIRCUIT WIRING IN PANELS SHALL BE NEATLY RACKED IN THE WIRING GUTTERS. PROVIDE HINGED DOOR-IN-DOOR PANEL TRIMS FOR EACH PANELBOARD.

ALL CIRCUIT BREAKERS SHALL HAVE A QUICK-MAKE AND BREAK MECHANISM WITH NON-WELDING SILVER ALLOY CONTACTS. AUTOMATIC TRIPPING SHALL BE CLEARLY INDICATED BY THE HANDLE. THE FACE OF EACH BREAKER SHALL BE COMMON TYPE AND EXTERNAL HANDLE TIES WILL NOT BE PERMITTED. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. BRANCH CIRCUIT BREAKERS SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 10,000 AMPS RMS, UNLESS NOTED OTHERWISE. NO HALF SIZE OR TANDEM BREAKERS WILL BE ACCEPTED. PROVIDE CIRCUIT BREAKERS UL LISTED AS TYPE HACR FOR AIR CONDITIONING EQUIPMENT BRANCH CIRCUITS. WHEN PANELS ARE SCHEDULED TO HAVE SPARES, THE BREAKER SHALL BE INSTALLED IN THE PANELBOARD. PROVIDE ACCESSORIES, AS NOTED ON DRAWINGS.

ALL PANELBOARDS AND CIRCUIT BREAKERS SHALL BE FULLY RATED. SERIES RATING IS NOT ACCEPTABLE.

PROVIDE A TYPED WRITTEN CIRCUIT DIRECTORY FOR EACH PANELBOARD.

SECTION 26 2726 - WIRING DEVICES

A. SWITCHES

SINGLE POLE, SURFACE MOUNT AND FLUSH WALL TOGGLE SWITCHES SHALL BE, 20 AMP, 120/277 VOLT AC SPECIFICATION GRADE SWITCHES. COLOR TO BE SELECTED BY ARCHITECT.

THREE-WAY, FOUR-WAY AND MULTIPLE POLE SWITCHES, WHERE REQUIRED, SHALL BE OF THE SAME TYPE AND RATING AS SPECIFIED FOR SINGLE POLE SWITCHES.

D. RECEPTACLES

DEVICES SHALL BE AS FOLLOWS:

GENERAL CONVENIENCE RECEPTACLES SHALL BE, 20 AMPERE, 125 VOLT, 3-WIRE GROUNDING TYPE, DUPLEX SPECIFICATION GRADE RECEPTACLES WITH U-SHAPED SLOT FOR GROUNDING PRONG. COLOR TO BE GRAY. USB CHARGING DEVICES SHALL BE DECORA STYLE, COMPATIBLE WITH TWO PORT USB CHARGING SLOTS, UL 1310 LISTED.

PROVIDE CLASS A, 20 AMP GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE DUPLEX RECEPTACLES WHERE NOTED ON DRAWINGS. PROVIDE WEATHER RESISTANT DEVICES, AS REQUIRED BY CODE.

TAMPER-RESISTANT DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE UL DEVICES, WITH SHUTTER MECHANISM TO DETER INSERTION OF SMALL OBJECTS. INSTALL IN AREAS AS REQUIRED BY THE NEC.

C. DEVICE PLATES

FLUSH PLATES SHALL BE STAINLESS STEEL TYPE 302 AND SHALL SUIT THE SINGLE DEVICES AND BE GANGED FOR ALL GANGED DEVICES AS SHOWN ON THE DRAWINGS. COLOR TO BE GRAY.

SURFACE BOXES IN UNFINISHED AREAS SHALL BE PROVIDED WITH 1/2" RAISED 4" SQUARE GALVANIZED STEEL COVERS.

WEATHERPROOF DEVICE PLATES SHALL BE GASKETED, CAST ALUMINUM. PROVIDE WHILE-IN-USE RATED COVERS, WHERE REQUIRED BY THE NEC.

D. LOCATIONS OF OUTLETS, SWITCHES, AND OTHER DEVICES

OUTLETS MUST BE CENTERED WITH REGARD TO PANELING, FURRING, AND TRIM. ANY OUTLET WHICH IS IMPROPERLY LOCATED MUST BE CORRECTED AT THE CONTRACTOR'S EXPENSE. OUTLETS MUST BE SET VERTICAL AND PLUMB AND SHALL EXTEND TO THE FINISHED SURFACE OF THE WALL, CEILING, OR FLOOR AS THE CASE MAY BE WITHOUT PROJECTING BEYOND SAME. RECEPTACLES, SWITCHES AND OTHER WIRING DEVICES SHOWN ON WOOD TRIM, CASES, OR OTHER FIXTURES SHALL BE INSTALLED SYMMETRICALLY ON SUCH TRIM OR FIXTURE AND WHERE NECESSARY, SHALL BE SET WITH THE LONG DIMENSION OF THE PLATE HORIZONTAL, OR SHALL BE GANGED IN TANDEM.

MOUNTING HEIGHTS TO CENTER OF BOX ABOVE FINISHED FLOOR FOR THE BELOW NAMED ITEMS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:

GENERAL FLUSH SWITCHES	46"
GENERAL CONVENIENCE RECEPTACLES	18"
PANELBOARDS TO TOP	72"
TELEPHONE PANELS OR BOARDS TO TOP	72"

SECTION 26 5600 - EXTERIOR LIGHTING

PROVIDE LUMINARIES AS SCHEDULES ON THE DRAWINGS OR AN APPROVED EQUAL. LUMINARIES SHALL BE COMPLETE WITH MOUNTING HARDWARE, LAMPS, SOCKETS, WIRING, BALLAST DRIVER, REFLECTORS, LENSES, HOUSING, CONTROL DEVICES, AND OTHER COMPONENTS. PROVIDE STANDARD FINISH UNLESS OTHERWISE NOTED. PROVIDE LUMINARIES LISTED AND LABELED AS SUITABLE FOR WET LOCATIONS UNLESS OTHERWISE INDICATED.

A. LED LUMINAIRE

COMPONENTS: UL 8750 RECOGNIZED OR LISTED AS APPLICABLE, TESTED IN ACCORDANCE WITH IES LM-79 AND LM-80. ESTIMATED USEFUL LIFE: MINIMUM OF 50,000 HOURS AT 80 PERCENT LUMEN MAINTENANCE CALCULATED BASED ON IES LM-80 TEST DATA.

B. POLES

1. PROVIDE POLES AND ASSOCIATED SUPPORT COMPONENTS SUITABLE FOR THE LUMINARIES AND ASSOCIATES SUPPORTS AND ACCESSORIES TO BE INSTALLED. STRUCTURAL DESIGN CRITERIA SHALL COMPLY WITH AASHTOLTS.
   a. WIND LOAD: INCLUDE EFFECTIVE PROJECTION AREA (EPA).
   b. DESIGN WIND SPEED: 90 MILES PER HOUR, WITH GUST FACTOR OF 1.3.
   c. DEAD LOAD: INCLUDE WEIGHT OF PROPOSED LUMINAIRE AND ACCESSORIES.
2. UNLESS OTHERWISE INDICATED, PROVIDE THE FOLLOWING FEATURES/ACCESSORIES:
   a. TOP CAP
   b. HAND HOLE, 2" X 4" SIZE
   c. ANCHOR BOLTS WITH LEVELING NUTS OR LEVELING SHIMS
   d. METAL ANCHOR BASE COVER
   e. INTERNAL VIBRATION DAMPERS
   f. GROUND LUG, ACCESSIBLE FROM HAND HOLE

MISC. ELECTRICAL SYMBOLS

- PLAN OR DETAIL NOTE IDENTIFICATION
- DETAIL IDENTIFICATION (XX / SHT — DETAIL NUMBER / SHEET NUMBER)
- SURFACE MOUNTED RACEWAY, TYPE AS NOTED, WITH DEVICES AS INDICATED
- A-1 HOMERUN TO PANELBOARD, LETTER INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT
- CONDUIT CONCEALED IN WALLS OR CEILING, CROSSHATCHES INDICATE NUMBER OF CONDUCTORS EXCEPT NO CROSSHATCHES INDICATE 2 CONDUCTORS (GROUND WIRES ARE NOT SHOWN)
- CONDUIT CONCEALED IN WALLS OR FLOOR
- T TELEPHONE RACEWAY
- TV TELEVISION RACEWAY
- FO FIBER OPTICS RACEWAY
- D DATA SYSTEM RACEWAY
- HDMI PROVIDE HDMI CABLE IN CONDUIT
- EM EMERGENCY POWER AND LIGHTING CIRCUIT
- S SOUND SYSTEM RACEWAY
- CONDUIT DOWN
- CONDUIT UP
- WM WIREMOLD SURFACE MOUNTED RACEWAY
- CONDUIT TO BE REMOVED
- EXPOSED CONDUIT
- PE UNDERGROUND PRIMARY ELECTRICAL
- SE UNDERGROUND SECONDARY ELECTRICAL
- UG UNDERGROUND ELECTRICAL
- OE OVERHEAD ELECTRICAL
- LV LOW VOLTAGE ELECTRICAL
- C CLOCK SYSTEM RACEWAY
- CONDUIT SEAL-OFF FITTING
- EXISTING CONDUIT, VERIFY EXACT LOCATION
- UTILITY CO. POWER POLE
- GROUND CONNECTION

LIGHTING SYMBOLS

- a / # RECESSED OR SURFACE MOUNTED LIGHT FIXTURE, NUMBER = TYPE, LETTER = SWITCH
- E / # HATCHING INDICATES EMERGENCY LIGHT FIXTURE, NUMBER = TYPE
- # WALL MOUNTED LIGHT FIXTURE, NUMBER = TYPE
- # LIGHT FIXTURE, NUMBER = TYPE
- E / # HATCHING INDICATES EMERGENCY LIGHT FIXTURE, NUMBER = TYPE
- # PENDANT MOUNTED LIGHT FIXTURE, NUMBER = TYPE
- # WALL MOUNTED LINEAR LIGHT FIXTURE, NUMBER = TYPE
- # LINEAR LIGHT FIXTURE, NUMBER = TYPE
- # SINGLE FACED EXIT LIGHT, NUMBER = TYPE, HATCH INDICATES ILLUMINATED FACE, ARROW = CHEVRON DIRECTION
- # DOUBLE FACED EXIT LIGHT, NUMBER = TYPE, HATCH INDICATES ILLUMINATED FACE, ARROW = CHEVRON DIRECTION
- # EXIT LIGHT WITH TWO EMERGENCY LIGHTING HEADS, NUMBER = TYPE, HATCH INDICATES ILLUMINATED FACE, ARROW = CHEVRON DIRECTION
- # EMERGENCY LIGHT WALL PACK, NUMBER = TYPE
- # POLE MOUNTED LIGHT FIXTURE, NUMBER = TYPE
- # LIGHTING TRACK, TRIANGLE INDICATES LIGHT FIXTURE HEAD, PROVIDE NUMBER OF HEADS AS SHOWN, NUMBER = TYPE
- # CEILING FAN
- # STRIP LIGHT FIXTURE, NUMBER = TYPE
- EXISTING POLE MOUNTED LIGHT FIXTURE
- S_2 DOUBLE POLE SWITCH
- S_K KEYED SWITCH
- S_P SWITCH WITH LIGHTED HANDLE FOR PILOT
- SWITCH MOUNTED ON WIREMOLD BOX WITH WIREMOLD TO ABOVE ACCESSIBLE CEILING
- S_M MOMENTARY CONTACT SWITCH
- S_3 S_4 SINGLE POLE SWITCH, 3-WAY SWITCH AND 4-WAY SWITCH
- D LINE VOLTAGE DIMMER SWITCH
- OS CEILING MOUNTED OCCUPANCY SENSOR
- OS AUTOMATIC WALL SWITCH WITH OCCUPANCY SENSOR
- OS WALL MOUNTED OCCUPANCY SENSOR
- A LIGHTING CONTROL TAG. LETTER INDICATES TAG IN LIGHTING CONTROL SCHEDULE
- LC_a LIGHTING CONTROL LOAD CONTROLLER. LETTER INDICATES LIGHTING CONTROLLED ZONE.
- S_a LOW-VOLTAGE SWITCH, WHERE PRESENT, LETTER INDICATES LIGHTING CONTROL ZONE. SEE LIGHTING CONTROL SCHEDULE.
- P CEILING MOUNTED PHOTOCELL
- P WALL MOUNTED PHOTOCELL

POWER SYMBOLS

- WP GFCI T U IG DUPLEX CONVENIENCE RECEPTACLE
  - WP = WEATHERPROOF
  - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
  - T = TAMPER RESISTANT
  - U = DUPLEX RECEPTACLE WITH USB PORTS
  - IG = ISOLATED GROUND RECEPTACLE, PROVIDE FULL SIZE GROUND WIRE EXTENDED BACK TO PANEL
- 4-PLEX CONVENIENCE RECEPTACLE
- CEILING MOUNTED RECEPTACLE
- SPECIAL OUTLET OR CONNECTION, SEE PLAN AND SCHEDULE
- T THERMOSTAT
- G GENERATOR
- M MOTOR CONNECTION, SEE PLAN AND SCHEDULE
- PUSH-BUTTON
- MOTOR CONTROL PUSH-BUTTON STATION
- J JUNCTION BOX
- J WALL MOUNTED JUNCTION BOX
- PAD-MOUNTED TRANSFORMER
- R ELECTRICAL RELAY
- DISCONNECT SWITCH - FUSED
- DISCONNECT SWITCH - NON FUSED
- SURFACE MOUNTED PANELBOARD
- DISTRIBUTION PANEL
- SWITCHBOARD

ABBREVIATIONS

A	AMPERES
AC	4" ABOVE COUNTERTOP OR BACKSPLASH TO CENTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
BD	BOARD
BFG	BELOW FINISHED GRADE
C	CONDUIT
CU	COPPER
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
F OR FRAC	FRACTIONAL
GND	GROUND
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HPF	HIGH POWER FACTOR
HZ	HERTZ
KVA	KILOVOLT AMPERES
KW	KILOWATT
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
P	POLE
PART	PARTIAL CIRCUIT
PNL	PANELBOARD
PVC	POLY VINYL CHLORIDE NON-METALLIC RACEWAY, SCHEDULE 40 OR SCHEDULE 80
RMC	STEEL RIGID METAL CONDUIT
SS	STAINLESS STEEL
TYP	TYPICAL
V	VOLTS
W	WATT
WG	WIREGUARD
WP	INDICATES WEATHERPROOF

SITE PLAN GENERAL NOTES

A. VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING, EXCAVATING, OR DIRECTIONAL BORING, REPAIR EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

B. ALL UNDERGROUND CONDUIT SHALL BE 3/4" MINIMUM AND INSTALLED 24" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE, WITH RED WARNING TAPE AT 12".

PROFESSIONAL ENGINEER
SHANE M. HOSS
19675
10/27/23
IOWA
LICENSED

hgm ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

this drawing is being made available by hgm associates inc. for use on this project in accordance with the hgm associates inc. agreement for professional services. hgm associates inc. assumes no liability for any use of this drawing or any part thereof except in accordance with the terms of the above agreement.

CDE	SMH	SMH	OCT 2023
drawn	designed	approved	date

revision	date

project: PIRATE COVE PICNIC AREA IMPROVEMENTS
915 N 21st Street

client: PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet: ELECTRICAL GENERAL INFO

project no. 151123

sheet EG0.0

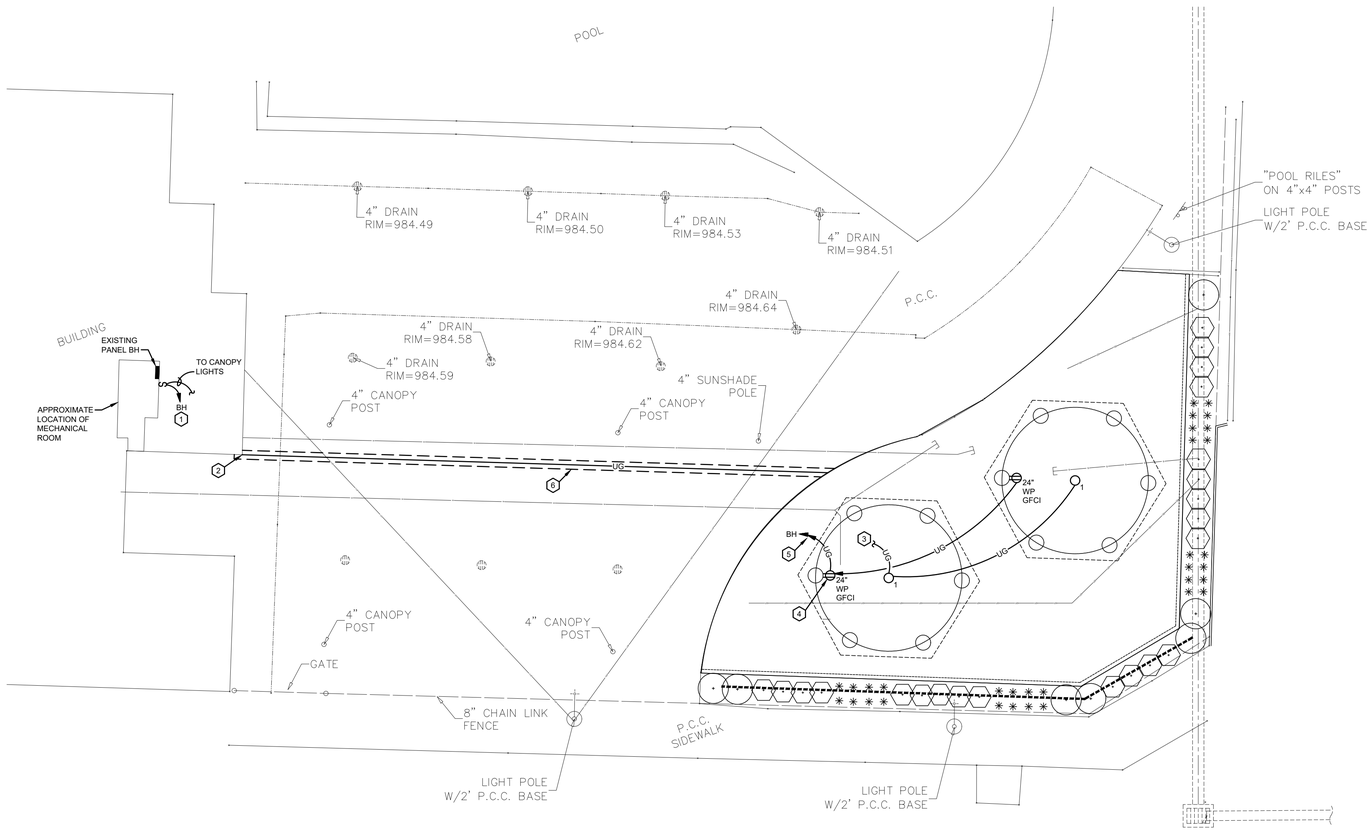
FILENAME: O:\Current Projects\2023\23099 CB P&R Pirate Cove Picnic Shelters\01 - Revit ## - CAD Files\23099 EG0.0.dwg
DRAWN BY: Celdred, SAVE DATE: Oct 23, 2023 11:23 AM DATE PLOTTED: 10/27/2023 9:18 AM, PLOT SCALE: 1:2.584895

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP TYPE	LUMENS	COLOR TEMP	WATTS	MOUNTING	MANUFACTURER	CATALOG NUMBER	ACCEPTABLE MANUFACTURERS	NOTES
1	13" SURFACE MOUNTED ROUND DOWNLIGHT, DIECAST ALUMINUM HOUSING, POLYCARBONATE LENS, CLOSED CELL GASKETS	LED	2250	NOTE 1	24	SURFACE	KENALL	MR13FL-PP-DB-20L##K-DV-SA	-	1

GENERAL NOTES:
A.

NOTES:
1. CONFIRM/MATCH COLOR TEMPERATURE OF EXISTING FLOOD LIGHTS PRIOR TO ORDERING.



1 ELECTRICAL SITE PLAN

SHEET NOTES

1. CONNECT TO EXISTING SPARE 20A/1P BREAKER IN PANEL.
2. FIELD COORDINATE CONDUIT PATH WITHIN BUILDING. WHERE EXISTING THE BUILDING, USE RIGID ALUMINUM CONDUIT TO BELOW SLAB. SEAL WALL PENETRATIONS AND PAINT CONDUIT TO MATCH BUILDING.
3. CONNECT TO WALL SWITCH IN OFFICE.
4. ROUTE CONDUIT TO RECEPTACLES AND LIGHTS IN STRUCTURAL POST, FIELD COORDINATE CONDUIT PENETRATION THRU FOOTINGS. (TYPICAL)
5. CONNECT TO (2) EXISTING SPARE 20A/1P BREAKERS IN PANEL. EACH RECEPTACLE SHALL HAVE DEDICATED LINE, NEUTRAL AND GROUND. USE #10 AWG.
6. SAWCUT AND PATCH EXISTING CONCRETE FOR INSTALLATION OF UNDERGROUND CONDUITS. SAWCUT SHALL BE IN A STRAIGHTLINE ALONG EXISTING JOINT. CONDUITS SHALL BE LAID A MINIMUM 12" BELOW SLAB WITH WARNING TAPE AT 6".

LICENSED PROFESSIONAL ENGINEER
SHANE M. HOSS 19675
10/27/23
IOWA

hgm ASSOCIATES INC.
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

this drawing is being made available by hgm associates inc. for use on this project in accordance with hgm associates inc. agreement for professional services. hgm associates inc. assumes no liability for any use of this drawing or any part thereof except in accordance with the terms of the above agreement.

CDE	drawn		
SMH	designed		
SMH	approved		
OCT 2023	date	revision	date

project PIRATE COVE PICNIC AREA IMPROVEMENTS
915 N 21st Street

client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet ELECTRICAL SITE PLAN

project no. 151123

sheet ES1.0

FILENAME: O:\Current Projects\2023\23099 CB P&R Pirate Cove Picnic Shelters\01 - Revit ## - CAD Files\23099 - ES1.0.dwg
DRAWN BY: Celdred, SAVE DATE: Oct 23, 2023 11:12 AM DATE PLOTTED: 10/27/2023 9:18 AM, PLOT SCALE: 1:2.584895