COCHRAN PARK PLAYGROUND IMPROVEMENTS

CB PROJECT #2021-136

COUNCIL BLUFFS PARKS AND RECREATION DEPARTMENT

SCHEDULE OF SHEETS

SHEET C0.0	COVER SHEET, NOTES
SHEET C0.1	SITE SURVEY
SHEET C0.2	SITE DEMOLITION PLAN
SHEET C1.0	LAYOUT PLAN
SHEET C2.0	GRADING PLAN
SHEET C3.0	SITE DETAILS
SHEET C3.1	SITE DETAILS
SHEET C3.2	SITE DETAILS

IOWA ONE CALL 800-292-8989 TOLL FREE CALL-BEFORE-YOU-DIG

SPECIFICATIONS

THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2021, AND CITY OF COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS 2021, SHALL APPLY TO THIS PROJECT.



LOCATION MAP
COUNCIL BLUFFS, IOWA
NO SCALE

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 SOLID WASTE, AND EXCESS EXCAVATION FROM THE REMOVAL OR INSTALLATION OF PAVEMENT, STORM, AND SANITARY SEWER SYSTEMS, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. ALL REMOVED ITEMS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE AND SHALL NOT BE INCORPORATED INTO THE WORK.

   PRIOR TO THE COMMENCEMENT OF REMOVALS, THE CONTRACTOR SHALL PROVIDE THE ENGINEER DOCUMENTATION OF THEIR CERTIFIED DISPOSAL SITE(S) FOR ALL ITEMS TO BE REMOVED FROM THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH LOAD TICKETS FOR ALL ITEMS REMOVED FROM THE PROJECT. PAYMENT WILL NOT BE MADE ON REMOVAL ITEMS WITHOUT APPROPRIATE TICKETS.

4. TO COMPLY WITH THE MIGRATORY BIRD TREATY ACT, TREES SHALL NOT BE REMOVED DURING THE PRIMARY NESTING SEASON DEFINED AS APRIL 1ST THROUGH SEPTEMBER 30TH.

   EXISTING TREES NOT INDICATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. TRIMMING OF TREES WITH TRUNKS LOCATED OUTSIDE OF THE RIGHT OF WAY SHALL NOT BE COMPLETED WITHOUT AUTHORIZATION FROM THE OWNER. WHEN TRIMMING IS REQUIRED ON ANY TREE, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER AND USE SAWS TO REMOVE ROOTS AND BRANCHES FROM TREES THAT ARE TO REMAIN. NO REMOVAL OF ROOTS OR BRANCHES SHALL BE BY HEAVY EQUIPMENT THAT RESULTS IN TEARS. ALL REMOVALS SHALL LEAVE A SMOOTH CUT FACE.

5. 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.

6. 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.

7. CONSTRUCTION STAKING SHALL BE FURNISHED BY THE CONTRACTOR.

8. 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.

9. 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.

10. 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.

11. 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. ALL TURF AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND MATTED AS PER SPEC. SECTION 32 92 00.

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

19. 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 YARD 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 COLLEGE.

LICENSED PROFESSIONAL ENGINEER — JOHN E. JORGENSEN 12655 — IOWA

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.

(signature) 08/12/21 (date)

JOHN E. JORGENSEN

My license renewal date is December 31, 2021

Pages or sheets covered by this seal:
C2.0, C3.1, C3.2

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.

08/12/21
DATE

TODD M. MAIELLARO
LICENSE NO. 00559

My license renewal date is JUNE 30, 2023.

Pages or sheets covered by this seal:
C0.0, C0.1, C0.2, C1.0, C3.0

11"x17" SHEET REDUCED TO HALF SCALE

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hgm ASSOCIATES INC.
640 FIFTH AVENUE COUNCIL BLUFFS, IOWA
PHONE: (712) 323-0530

TMM	drown		date
TMM	designed		
HGM	approved		
AUG '21	date	revision	

project: COCHRAN PARK PLAYGROUND IMPROVEMENTS
CB PROJECT #2021-136

client: CITY OF COUNCIL BLUFFS, IOWA
PARKS AND RECREATION DEPARTMENT

sheet: COVER SHEET

project no. 150421

sheet C0.0



LEGEND

	CENTER LINE
	CENTERLINE OF DITCH
X X X	FENCE – BARB
	FENCE – CHAIN LINK
	FENCE – MIXTURE
	FENCE – PRIVACY
	FENCE – SPLIT RAIL
	FENCE – WOVEN
SF SF	SILT FENCE
OF OF	ORANGE SAFETY FENCE
	GUARDRAIL
RW	RETAINING WALL
TOB	TOP OF BANK
TOE	TOE OF BANK
HMA	HOT MIX ASPHALT
EOR	END OF RETURN
BOC	BACK OF CURB
PCC	PORTLAND CEMENT CONCRETE
POB	POINT OF BEGINNING
UAC	USE AS CONSTRUCTED
	BILLBOARD SIGN
	BORING LOCATION
	FLAG POLE
	GUARDRAIL POST
	MAILBOX
	NO PARKING SIGN
	PIZOMETER
	POST ROUND
	POST SQUARE
STOP	STOP SIGN
	STREET SIGN
FO	FIBER OPTIC CABLE
OH	OVERHEAD ELECTRIC CABLE
UGP	UNDERGROUND ELECTRIC CABLE
UGT	UNDERGROUND TELEPHONE CABLE
UGTV	UNDERGROUND TELEVISION

CATV	CABLE TELEVISION BOX
	CONTROL CABINET
EB	ELECTRICAL PULL BOX
TP	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 MAIN
G	GAS METER
G	VALVE – GAS
RRB	RAILROAD CONTROL BOX
RRX	RAILROAD CROSS BUCKS SIGN
	RAILROAD FROG
	RAILROAD POINT OF SWITCH
	RAILROAD SIGNAL
	RAILROAD TRACK
FM	FORCE MAIN
W	WATER MAIN

SAN	SANITARY SEWER
STM	STORM SEWER
	CLEAN–OUT
	EXISTING PIPE PLUG
FES	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
	CURB STOP (RESIDENTIAL WATER)
	FIRE HYDRANT
MW	MONITORING WELL
	POST INDICATOR VALVE
SCB	SPRINKLER CONTROL BOX
	SPRINKLER HEAD
W	VALVE – WATER (MAIN LINE)
W	WATER METER
	WELL
YH	YARD HYDRANT

0' 10' 20' 40'
FEET

NORTH

SITE SURVEY

SCALE: 1" = 20'–0"

1

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drawn	TMM	
designed	TMM	
approved	HGM	
date	AUG '21	
revision		date

project: COCHRAN PARK PLAYGROUND IMPROVEMENTS
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PARKS AND RECREATION DEPARTMENT

sheet: EXISTING SURVEY

project no. 150421

sheet C0.1

10' CHAIN LINK FENCE

WATER FOUNTAIN

SAVE & PROTECT EXIST. DRINKING FOUNTAIN

S GRATE
RIM = 984.35
COULD NOT OPEN

TRASH CAN

SAWCUT & REMOVE CONC. SIDEWALK AT NEAREST JOINT, BY OTHERS

TRASH RECEPTACLE & BIKE RACK TO BE REMOVED BY OTHERS

PLAYGROUND EQUIPMENT

BENCH

SIDEWALK, PLAY EQUIPMENT AND SAFETY SURFACING TO BE REMOVED BY OTHERS

EXCAVATION

REMOVE TREE STUMP IN ITS ENTIRETY

6" PLAYGROUND SUPPORTS (7)

RUBBER MATTING

P.C.C. EDGE OF PLAYGROUND

BENCH TO BE REMOVED BY OTHERS, TYP.

TRASH CAN

6" POLE

SPRING RIDE

REMOVE TREE STUMP IN ITS ENTIRETY

REMOVE EXISTING PLAY CURB AND PEA GRAVEL, AND ANY SUBDRAIN WITHIN PLAY AREA. CAP ANY SUBDRAIN THAT CONNECTS OUTSIDE OF PLAY AREA.

6" BAR SWING

REMOVE TREE STUMP IN ITS ENTIRETY

6" POLE

RUBBER MATTING

STM INLET
RIM=982.40
INLET FLOOR=979.27
I.E. 12" = 978.20 (NW)

CONTROL POINT #224
N 467999.63
E 987405.56
ELEV. 983.73

7.1' P.C.C. SIDEWALK

SAWCUT & REMOVE CONC. SIDEWALK AT NEAREST JOINTS FOR STORM PIPE INSTALLATION

STM INLET
TC=981.96
I.E. 12" = 978.99 (W)
I.E. 12" = 978.92 (E)

CONTROL POINT #3
N 467928.34
E 987406.22
ELEV. 983.40

STM MH
RIM=982.89
I.E. 30" = 975.37 (N,SE)

STM MH
RIM=982.42
I.E. = 975.48 (E,S)
I.E. 24" = 975.48 (NW)
I.E. 24" = 974.59 (N)

BENCH

P.C.C.

5.9' P.C.C. SIDEWALK

NORTH

0 5 10 20
Feet

DEMOLITION PLAN

SCALE: 1" = 10'-0"

1

NOTE:

1. AS SHOWN, MANY ITEMS WILL BE REMOVED BY OTHERS. THE CONTRACTOR WILL REMOVE THE NOTED ITEMS AS PART OF THEIR BID.

11"x17" SHEET REDUCED TO HALF SCALE

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TMM drawn
TMM designed
HGM approved
AUG '21 date
date
revision

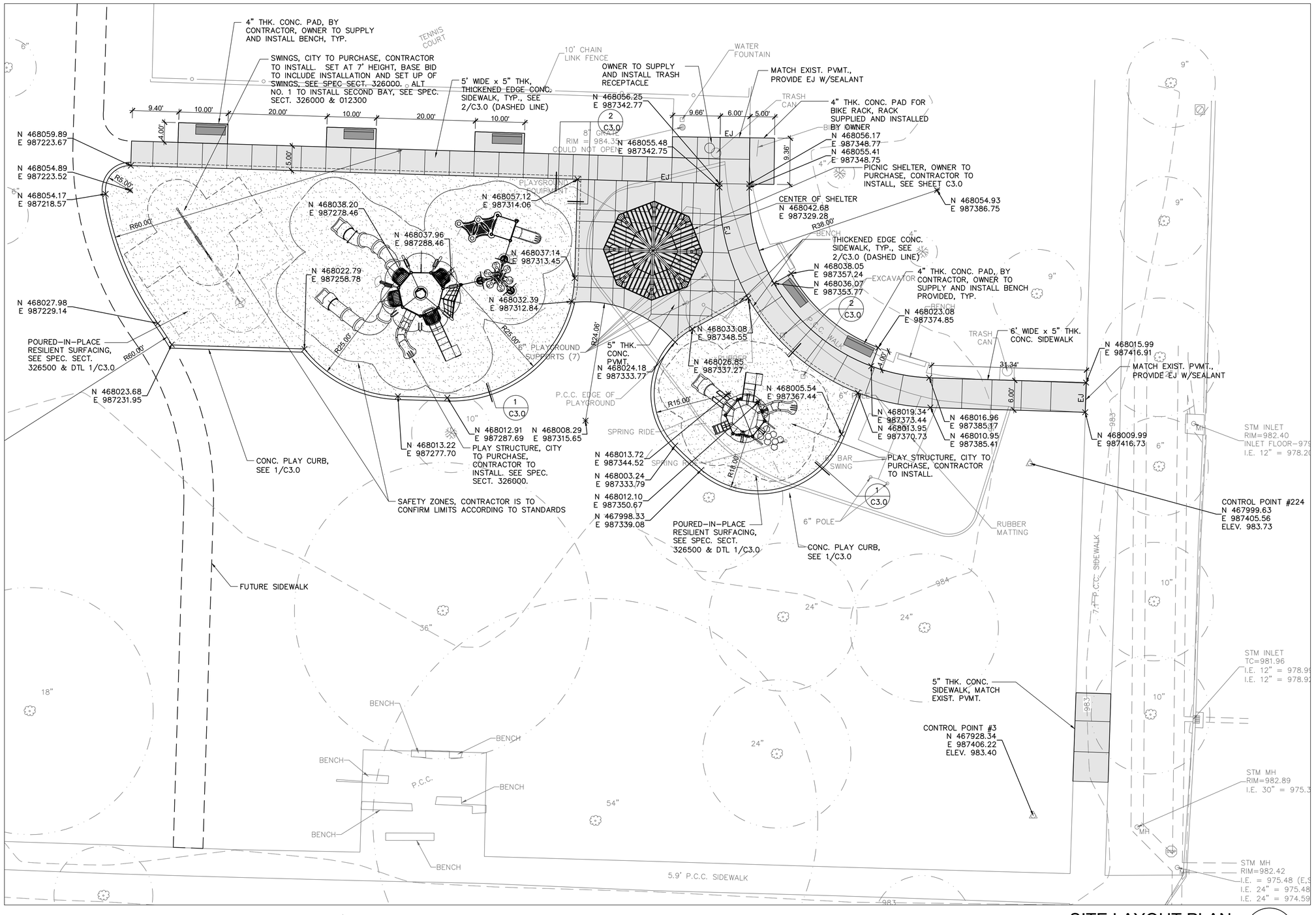
project COCHRAN PARK PLAYGROUND IMPROVEMENTS
CB PROJECT #2021-136

client CITY OF COUNCIL BLUFFS, IOWA
PARKS AND RECREATION DEPARTMENT

sheet DEMOLITION PLAN

project no. 150421

sheet C0.2



SITE LAYOUT PLAN

SCALE: 1" = 10'-0"

1

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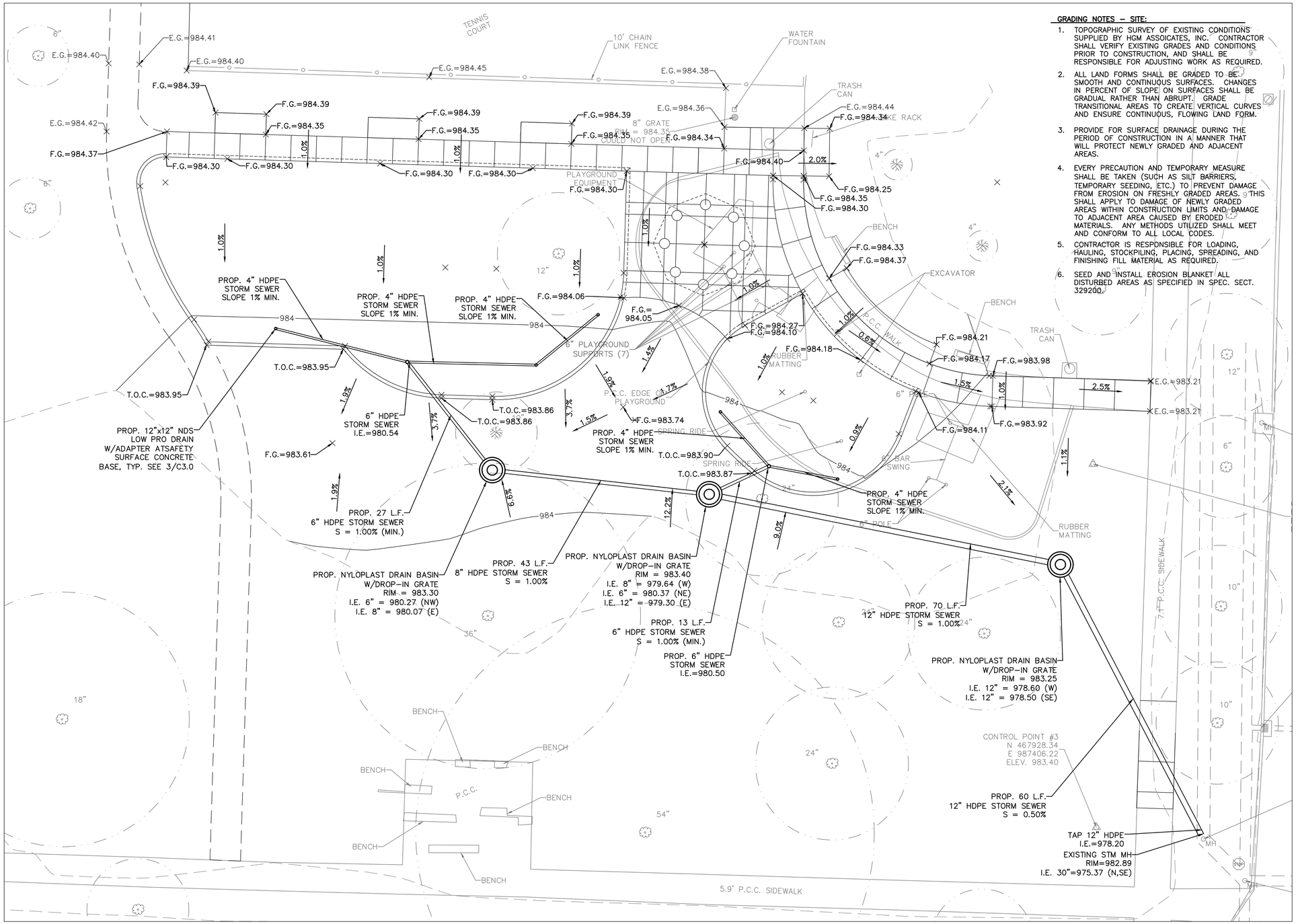
project: COCHRAN PARK PLAYGROUND IMPROVEMENTS
CB PROJECT #2021-136

client: CITY OF COUNCIL BLUFFS, IOWA
PARKS AND RECREATION DEPARTMENT

sheet: LAYOUT PLAN

project no. 150421

sheet C1.0



GRADING PLAN

SCALE: 1" = 10'-0"

1 / C2.0

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designed	TMM	
approved	HGM	revision
date	AUG '21	

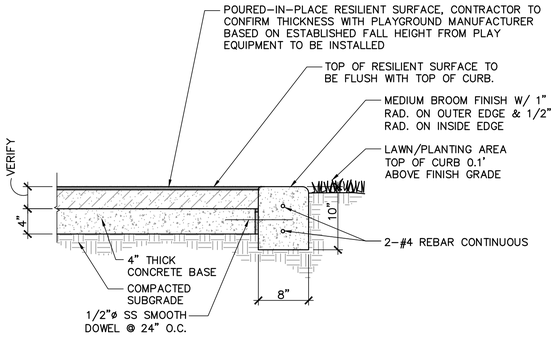
project: COCHRAN PARK PLAYGROUND IMPROVEMENTS
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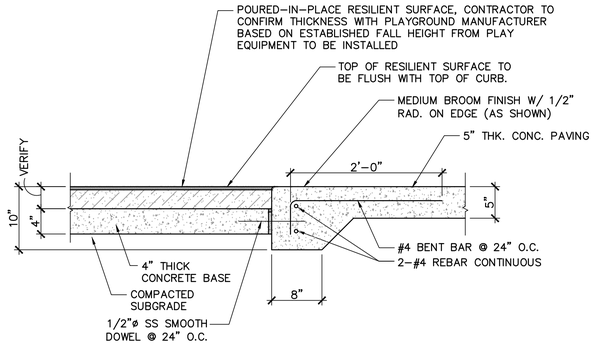
sheet: GRADING PLAN

project no. 150421

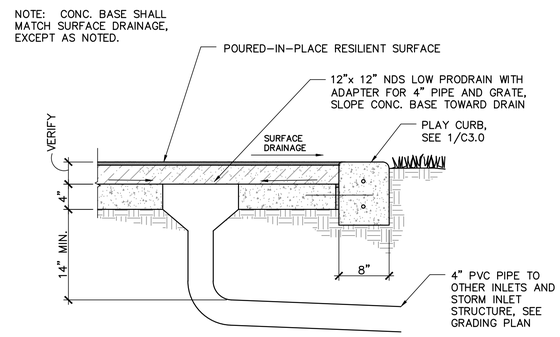
sheet C2.0



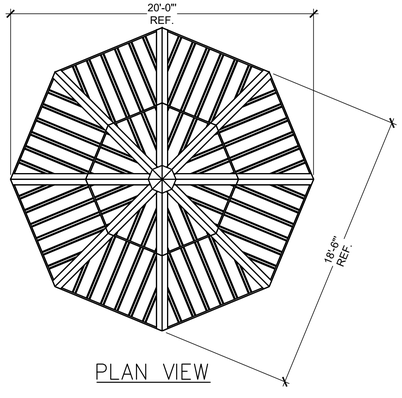
1 **PLAY CURB DETAIL**
SCALE: 1" = 1'-0"



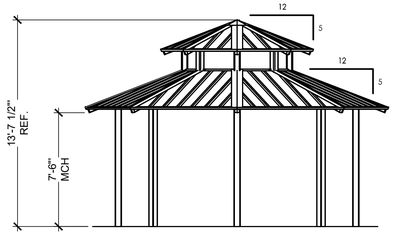
2 **THICKENED EDGE DETAIL**
SCALE: 1" = 1'-0"



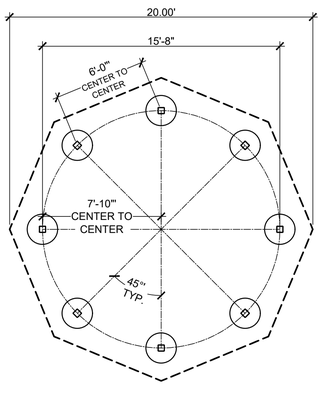
3 **PLAY AREA DRAIN INLET DETAIL**
SCALE: 1" = 1'-0"



PLAN VIEW

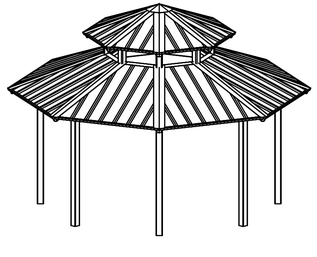


ELEVATION VIEW



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

2. CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.



ISOMETRIC VIEW

SHELTER NOTES:
1. POLIGON SHELTER SHOWN, CARMEL CLERESTORY, GC02-20.

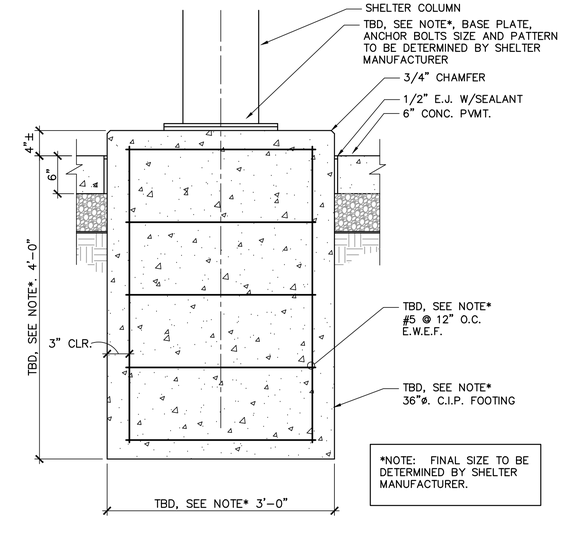
2. PROVIDE SHOP DRAWINGS AS LISTED IN SPECIFICATIONS.

3. SHELTER TO HAVE STANDING METAL SEAM ROOF.

4. FINAL COLORS TO BE CHOSEN FROM MANUFACTURE'S STANDARD COLORS.

5. COLUMN BASE CONNECTION: TBD. CONTRACTOR TO WORK WITH OWNER/ARCHITECT ON BASE CONNECTION OPTIONS.

4 **GENERAL SHELTER INFO.**
NO SCALE



*NOTE: FINAL SIZE TO BE DETERMINED BY SHELTER MANUFACTURER.

5 **SHELTER FOOTING DETAIL**
SCALE: 1" = 1'-0"

11"x17" SHEET REDUCED TO HALF SCALE

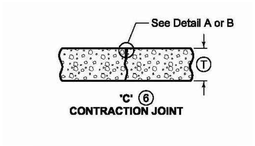
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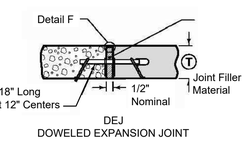
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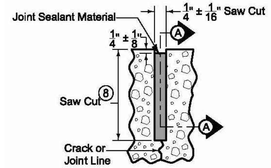
TMM	TMM	HGM	AUG '21
drawn	designed	approved	date

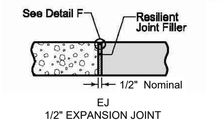
project COCHRAN PARK PLAYGROUND IMPROVEMENTS
CB PROJECT #2021-136
client CITY OF COUNCIL BLUFFS, IOWA
PARKS AND RECREATION DEPARTMENT
sheet SITE DETAILS

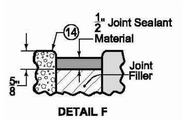
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sheet C3.0

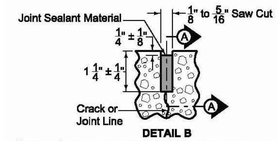








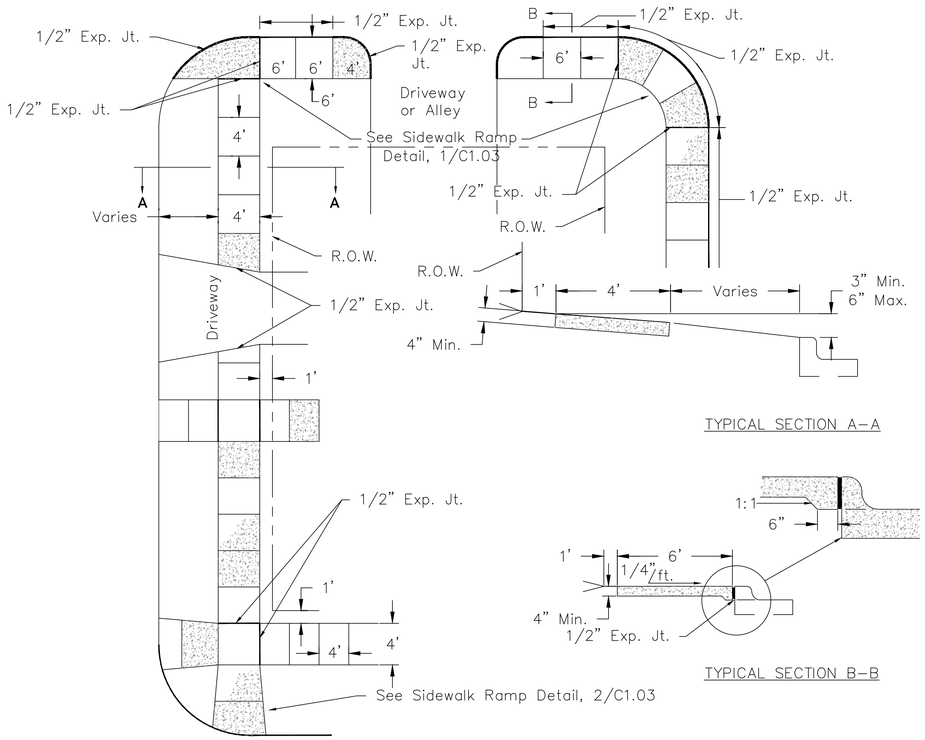




⑧ Saw 'CD' joint to a depth of T/3 ± 1/4"; saw 'C' joint to a depth of T/4 ± 1/4".

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

SIDEWALK JOINTS



NOTES

1. ONE HALF INCH EXPANSION JOINTS SHALL BE PLACED IN ALL SIDEWALKS AT INTERVALS OF NOT MORE THAN 50' AND AS SHOWN WHERE SIDEWALKS BUTT AGAINST CURB. IF THE SIDEWALK TO BE CONSTRUCTED IS LESS THAN 50' IN LENGTH ONE SUCH EXPANSION JOINT SHALL BE PLACED AS DIRECTED BY THE ENGINEER, EXPANSION MATERIAL IS ALSO NEEDED WHERE SIDEWALKS BUTT AGAINST BUILDINGS AND RETAINING WALLS.

2. SIDEWALK SLOPE MAY BE VARIED TO SUIT EXISTING CONDITIONS. RECOMMENDED MIN. & MAX. TO BE 1/4"/FT. AND 1/2"/ FT., RESPECTIVELY. VARIATIONS TO SUIT EXTREME CONDITIONS TO BE AT DIRECTION OF PUBLIC WORKS.

3. ALL SIDEWALKS 5 FT. OR MORE IN WIDTH SHALL BE SCORED IN PANELS NO GREATER THAN 5' IN LENGTH.

4. NO SIDEWALK REPAIR SHALL BE LESS THAN ONE COMPLETE PANEL.

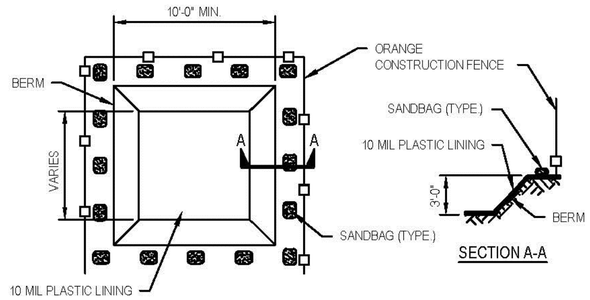
5. USE SEALING FILLER, POLYURETHANE, ON ALL EXPANSION JOINTS, PER SPECIFICATIONS.

6. WHEELCHAIR RAMPS, SHALL BE CONSTRUCTED AT ALL POINTS OF ENTRY.

7. CONTRACTION JOINTS SHALL BE SCORED TO A MINIMUM DEPTH OF T/4, WHERE "T" IS THE SIDEWALK THICKNESS.

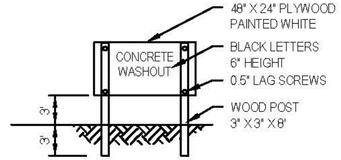
SIDEWALK DETAILS

SCALE : NONE

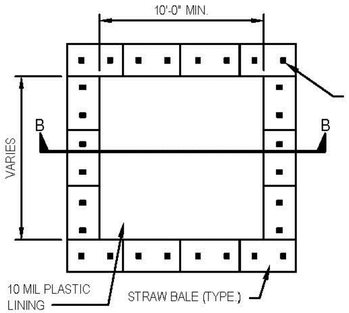


PLAN - BELOW GRADE OPTION

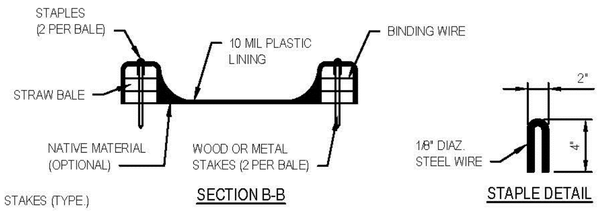
SECTION A-A



CONCRETE WASHOUT SIGN DETAIL

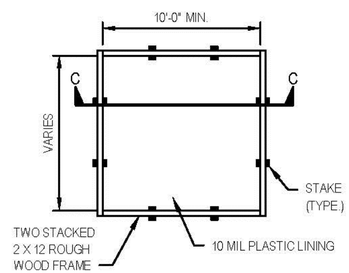


PLAN - ABOVE GRADE W/ STRAW BALES OPTION

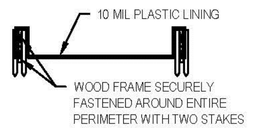


SECTION B-B

STAPLE DETAIL



PLAN - ABOVE GRADE OPTION



SECTION C-C

CONCRETE WASHOUT AREA INSTALLATION NOTES:

1. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. THE CONCRETE WASHOUT AREA WILL BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. THE ACTUAL LAYOUT SHALL BE DETERMINED IN THE FIELD.
3. THE CONCRETE WASHOUT AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE WASHOUT AREA MUST BE CLEANED, OR A NEW WASHOUT AREA MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
4. THE CONCRETE WASHOUT SIGN SHALL BE PLACED WITHIN 30' OF THE WASHOUT AREA. ADDITIONAL SIGNS SHOULD BE CONSTRUCTED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. THE CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DISCHARGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS TO PREVENT DISTURBANCE OR TRACKING. VEHICLE TRACKING CONTROL IS REQUIRED AT CONCRETE WASHOUT ENTRANCE IF ACCESS TO AREA IS OFF PAVEMENT.
6. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
7. WHEN THE CONCRETE WASHOUT AREA IS NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE AND MATERIAL USED TO CONSTRUCT WASHOUT AREA SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED WASTE SITE.
8. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE ENGINEER.

CONCRETE WASHOUT AREA

11"x17" SHEET REDUCED TO HALF SCALE

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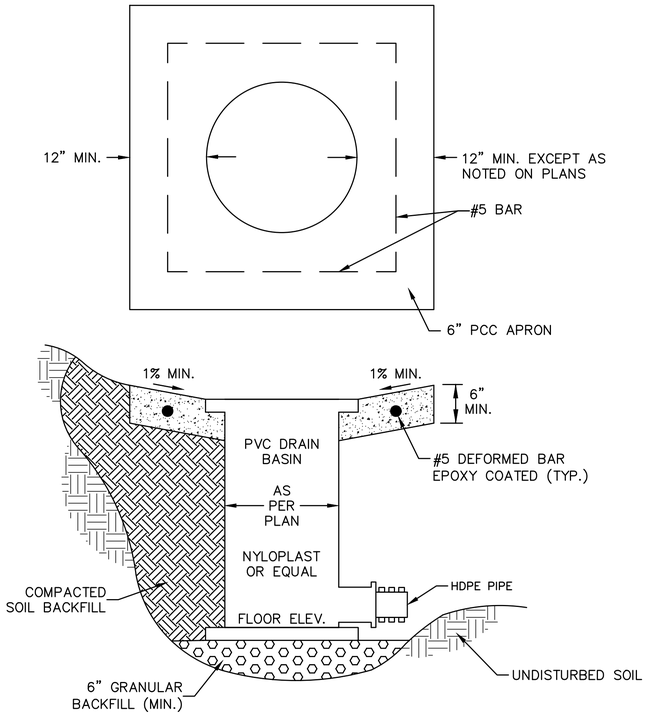
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TMM drawn
TMM designed
HGM approved
AUG '21 date
date
revision

project COCHRAN PARK PLAYGROUND IMPROVEMENTS
CB PROJECT #2021-136
client CITY OF COUNCIL BLUFFS, IOWA
PARKS AND RECREATION DEPARTMENT
sheet SITE DETAILS

project no. 150421

sheet C3.1



AREA DRAIN BASIN DETAIL

NO SCALE

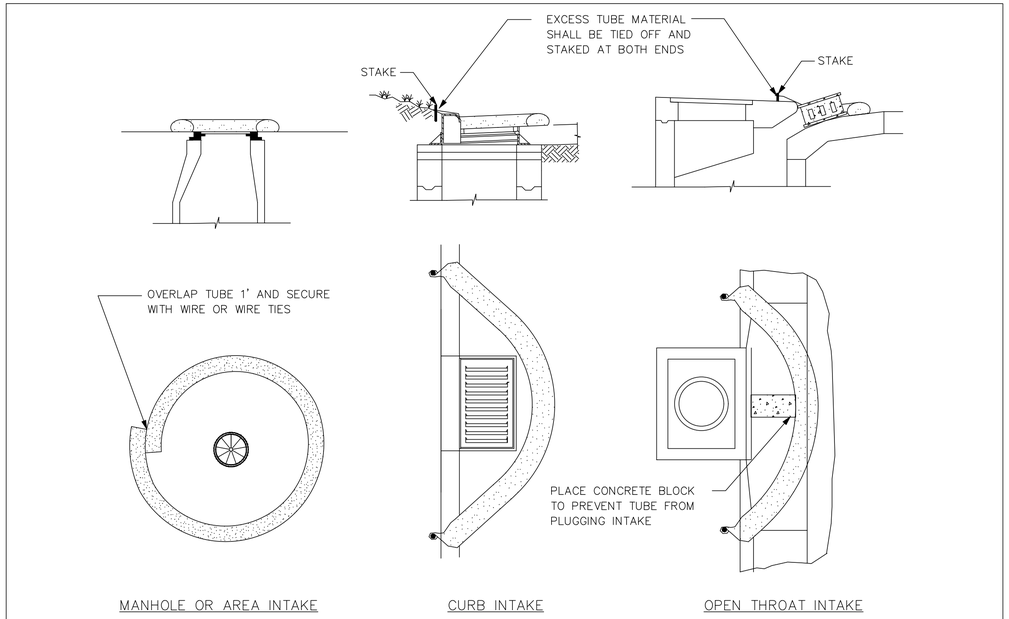
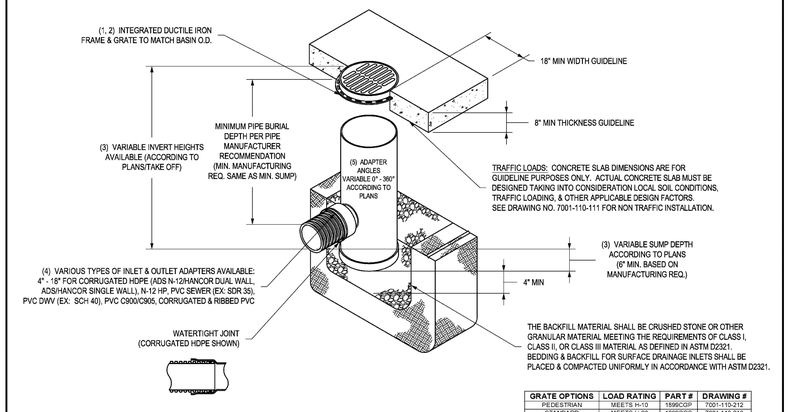


FIGURE: IP.01
FILTER TUBE FOR MANHOLES & INTAKES



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CGP	7001-110-212
STANDARD	MEETS H-20	1899CGS	7001-110-213
SOLID COVER	MEETS H-20	1899CGC	7001-110-214
DOME	N/A	1899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	1801DI	7001-110-074

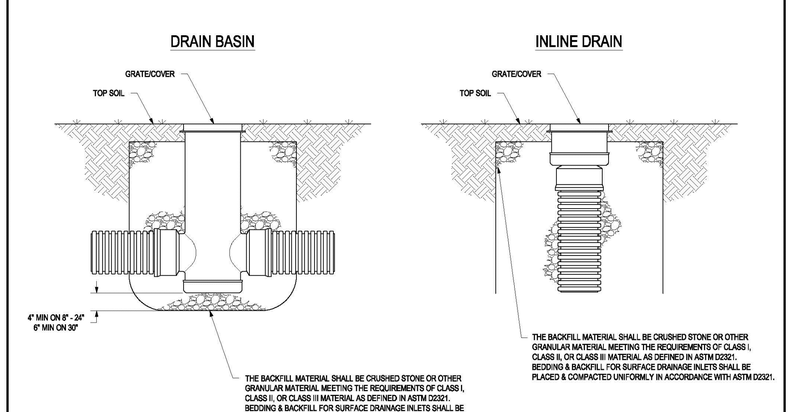
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-055.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NNH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:30	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
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TITLE: 18 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-191 REV E



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REVISED BY	NNH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

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FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION
DWG NO. 7001-110-111 REV E

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TMM	drawn	date
TMM	designed	
HGM	approved	
AUG '21	date	revision

project: COCHRAN PARK PLAYGROUND IMPROVEMENTS
CB PROJECT #2021-136
client: CITY OF COUNCIL BLUFFS, IOWA
PARKS AND RECREATION DEPARTMENT
sheet: SITE DETAILS

project no. 150421
sheet C3.2