MANAWA CITY PARK IMPROVEMENTS

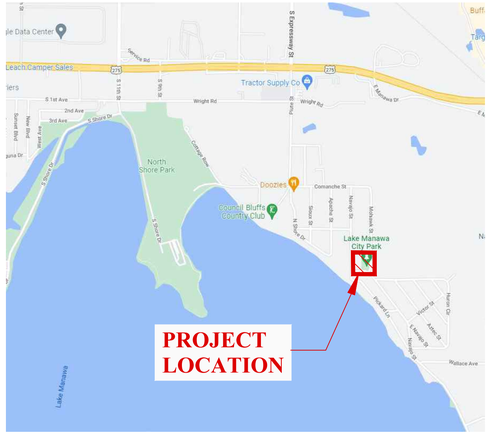
Navajo and Mohawk Streets

Council Bluffs Parks and Recreation Department

CB PROJECT
#R23-11

SCHEDULE OF SHEETS

SHEET C0.0	COVER SHEET
SHEET C0.1	SITE SURVEY
SHEET C1.0	DEMOLITION PLAN
SHEET C2.0	LAYOUT PLAN
SHEET C2.1	ENLARGED PLANS
SHEET C2.2	LAYOUT POINTS
SHEET C3.0	SITE GRADING PLAN
SHEET C3.1	SITE GRADING PLAN – ENLARGEMENT
SHEET C4.0	LANDSCAPE PLAN
SHEET C5.0	SITE DETAILS
SHEET C5.1	SITE DETAILS
SHEET C5.2	SITE DETAILS
SHEET C6.0	STANDARD CIVIL DETAILS



LOCATION MAP
NOT TO SCALE

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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.

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. 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.

20. TREES TO BE PROTECTED SHALL BE INDIVIDUALLY ARMORED TO PREVENT MECHANICAL DAMAGE. THESE TREES SHALL BE PROTECTED BY WRAPPING IN BURLAP THREE (3) LAYERS AND PLACING VERTICAL 2"X4" BOARDS WIRED IN PLACE SPACED NO MORE THAN 2 INCHES APART TO A HEIGHT OF 5 FEET ABOVE THE GROUND. THE ARMORING SHALL BE REMOVED ONLY AFTER COMPLETION OF ALL GRADING OPERATIONS AND WITH THE APPROVAL OF THE ARCHITECT/ENGINEER.

21. THE CONTRACTOR SHALL PLAN ON PICK UP ITEMS NOTED FOR OWNER PURCHASE AND CONTRACTOR TO INSTALL FROM PARK'S DEPARTMENT MAINTENANCE FACILITY LOCATED AT 3200 1600 AVE, COUNCIL BLUFFS.

22. NOTE: THERE ARE SEVERAL ITEMS AS NOTED ON THE PLANS THAT ARE NOT TO BE INCLUDED IN THIS BID. THE OWNER PLANS TO BID THESE ITEMS EARLY 2023. THESE ITEMS WILL BE PURCHASED BY THE OWNER AND THE CONTRACTOR WILL INSTALL. THESE ITEMS INCLUDE THE WE-GO-ROUND PLAY ELEMENT, THE PARK SHELTER, AND THE (2) TWO SKATEBOARD PARK ELEMENTS. FOR THOSE ITEMS WITH FOOTINGS WITHIN THE PROPOSED CONCRETE PAVEMENT OR PLAYGROUND SAFETY SURFACING, THE CONTRACTOR SHALL INCLUDE IN THIS CONTRACT BLOCKING OUT AREAS FOR FUTURE INSTALLATION OF THESE FOOTINGS. NOTE THAT THE BID SCHEDULE FOR THOSE ITEMS IN EARLY 2023 MAY HAVE NO IMPACT ON THE AND CONSTRUCTION SCHEDULE, OR THE CONTRACTOR MAY NOT NEED TO BLOCK OUT ITEMS DEPENDING ON DELIVERY DATES.

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.

SPECIFICATIONS:

THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2022, AND CITY OF COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS 2022, SHALL APPLY TO THIS PROJECT.

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TOLL FREE
CALL-BEFORE-YOU-DIG

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

JOHN E. JORGENSEN 12655 LICENSED PROFESSIONAL ENGINEER 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) 9/27/22 (date)

JOHN E. JORGENSEN

My license renewal date is December 31, 2023

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

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.

TODD M. MAIELLARO 9/27/22
LICENSE NO. 00559 DATE

My license renewal date is JUNE 30, 2023.

Pages or sheets covered by this seal:
ALL SHEETS, EXCEPT C3.0 & C3.1

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HGM	TMM	HGM	SEPT 2022
drawn	designed	approved	date

revision date

project: MANAWA CITY PARK IMPROVEMENTS
Navajo and Mohawk Street

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

sheet: COVER SHEET

project no.
150222

sheet
C0.0

FILENAME: \\SRV16\Shared\Blue_Team\Projects\150222 Manawa City Park Improvements\Engineering\Dwgs\Design\150222 DESIGN.dwg
DRAWN BY: Tmm, SAVE DATE: Sep 29, 2022 8:52 AM DATE PLOTTED: 9/29/2022 9:17 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
- TF — 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
- W — VALVE – WATER (MAIN LINE)
- WATER METER
- WELL
- YH — YARD HYDRANT



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1 SITE SURVEY

0 10' 20' 40'

N

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project MANAWA CITY PARK IMPROVEMENTS
Navajo and Mohawk Street

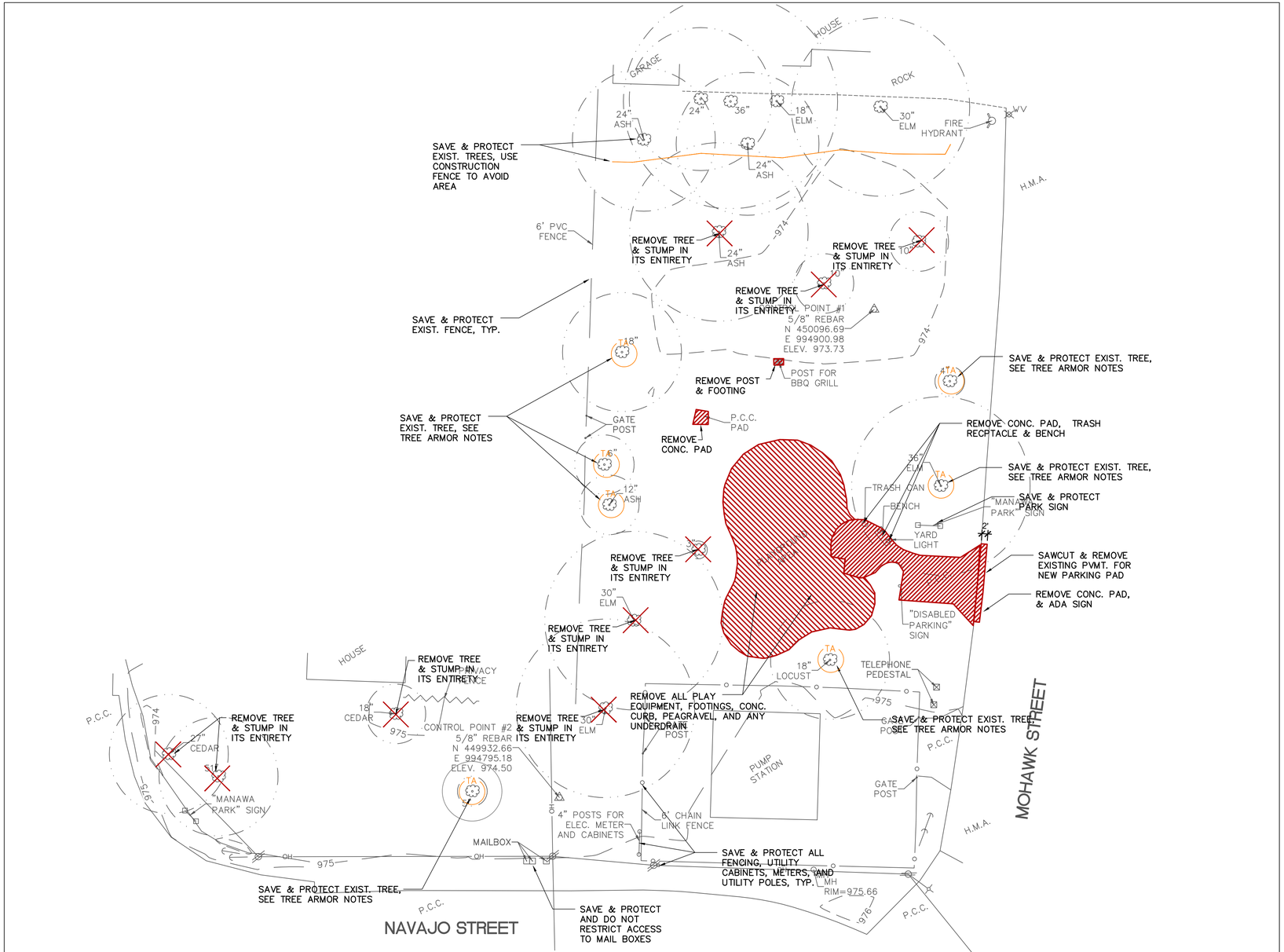
client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet SITE SURVEY

project no. 150222

sheet C0.1

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1 DEMOLITION PLAN

SCALE: 1" = 20'-0"

0 10' 20' 40'

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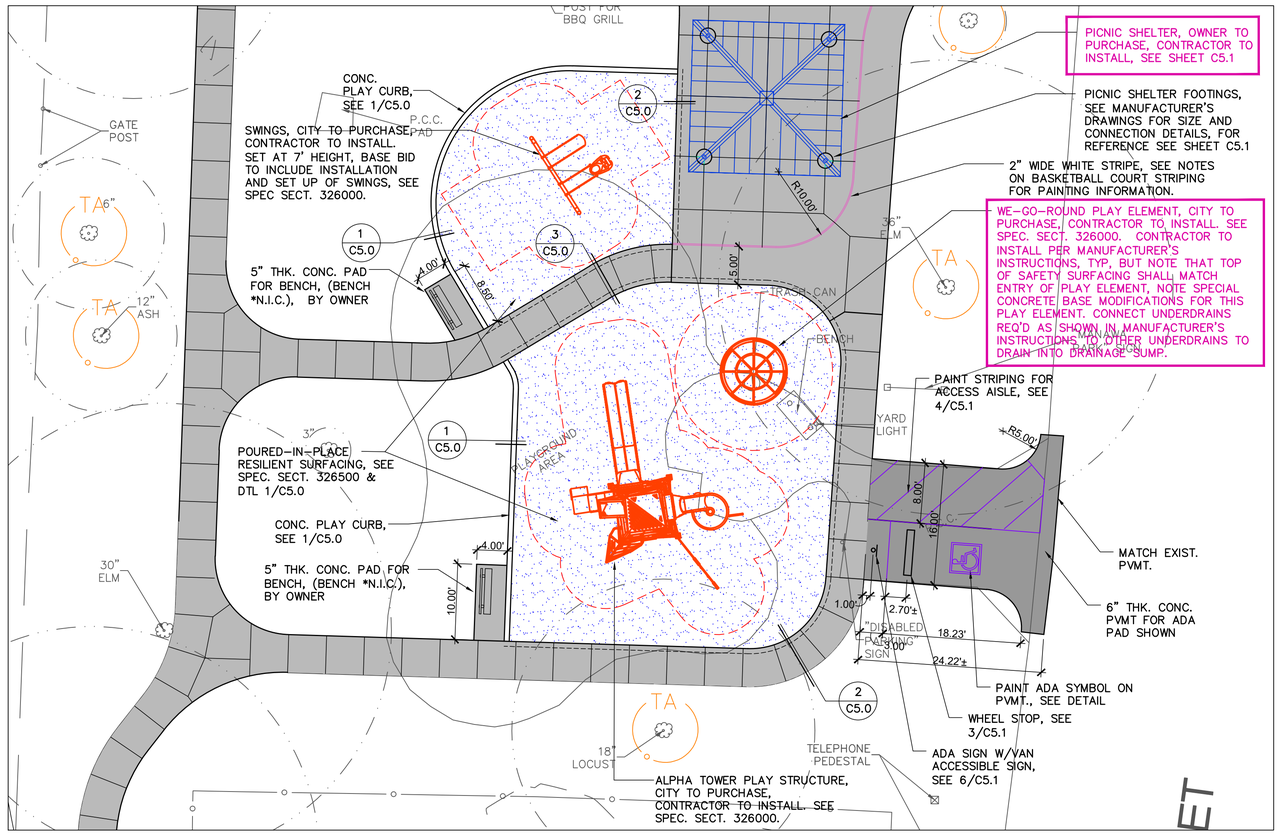
project MANAWA CITY PARK IMPROVEMENTS
Navajo and Mohawk Street

client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet DEMOLITION PLAN

project no. 150222

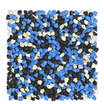
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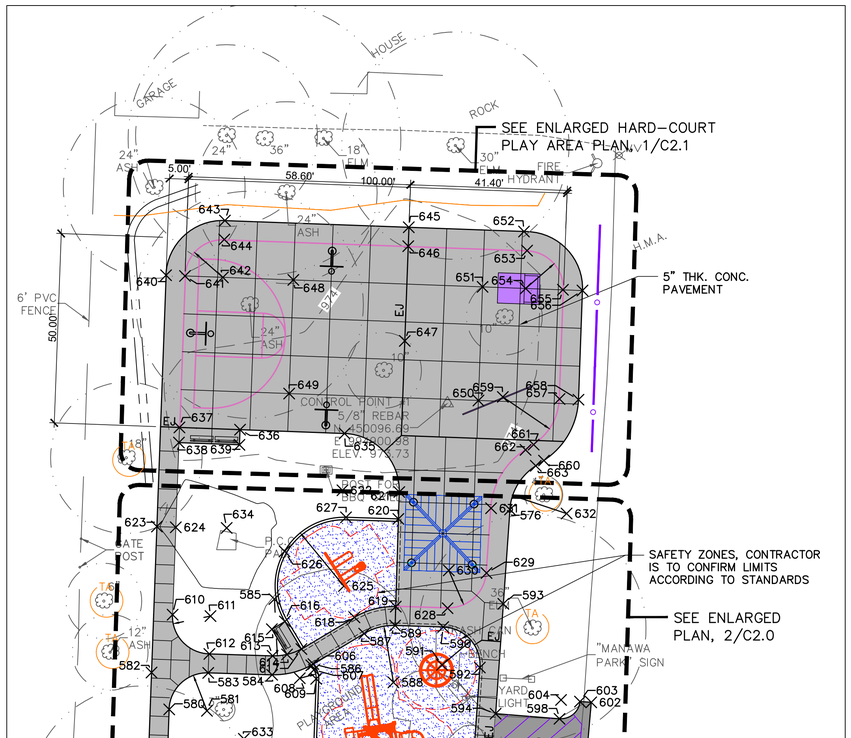
2 ENLARGED PLAY AREA
SCALE: 1" = 10'-0"

NOTE: ITEMS IN PURPLE BOX ARE NOT INCLUDED IN THIS PROJECT'S BID. THESE ITEMS WILL BE BID IN THE NEAR FUTURE. CONTRACTOR TO PREPARE AREAS TO RECEIVE THESE ITEMS IN FUTURE BY BLOCKING OUT FOR FOOTING LOCATIONS IN CONCRETE PAVEMENT AS NECESSARY, AS AN EXAMPLE. COORDINATE WITH OWNER AND ARCHITECT DURING CONSTRUCTION. SEE ADDITIONAL NOTES ON COVER SHEET.

PLAYGROUND SURFACING COLORS, SEE SPEC. SECTION 32 65 00



CUSTOM MIX:
BLACK: 50%
SKY BLUE: 40%
PEARL: 10%



1 LAYOUT PLAN
SCALE: 1" = 20'-0"

0 10' 20' 40'

N

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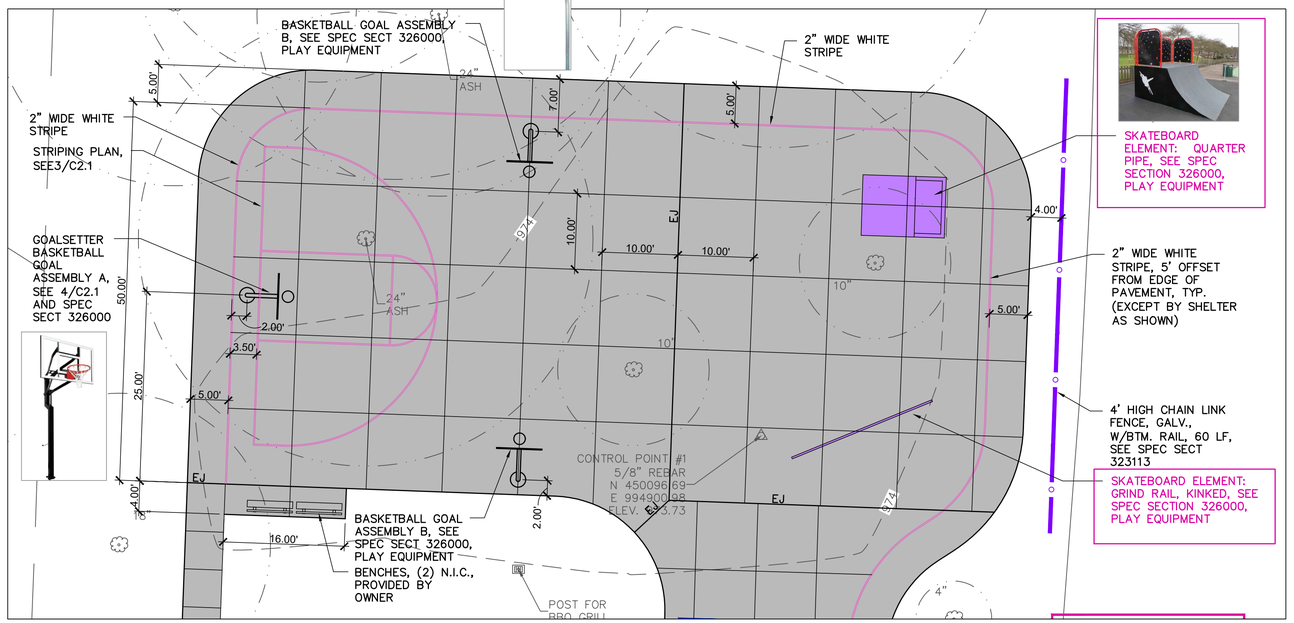
project: MANAWA CITY PARK IMPROVEMENTS
Navajo and Mohawk Street

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

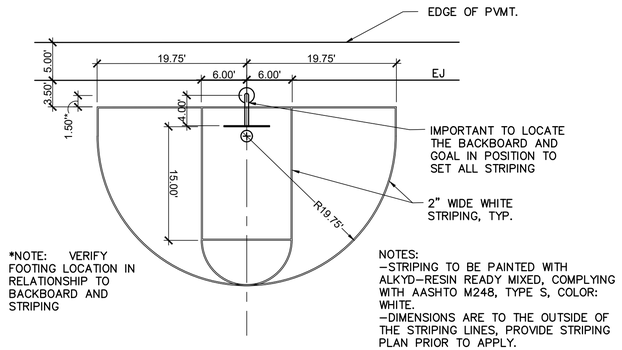
sheet: LAYOUT PLAN

project no. 150222

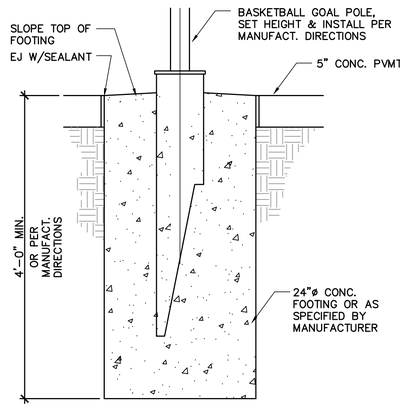
sheet C2.0



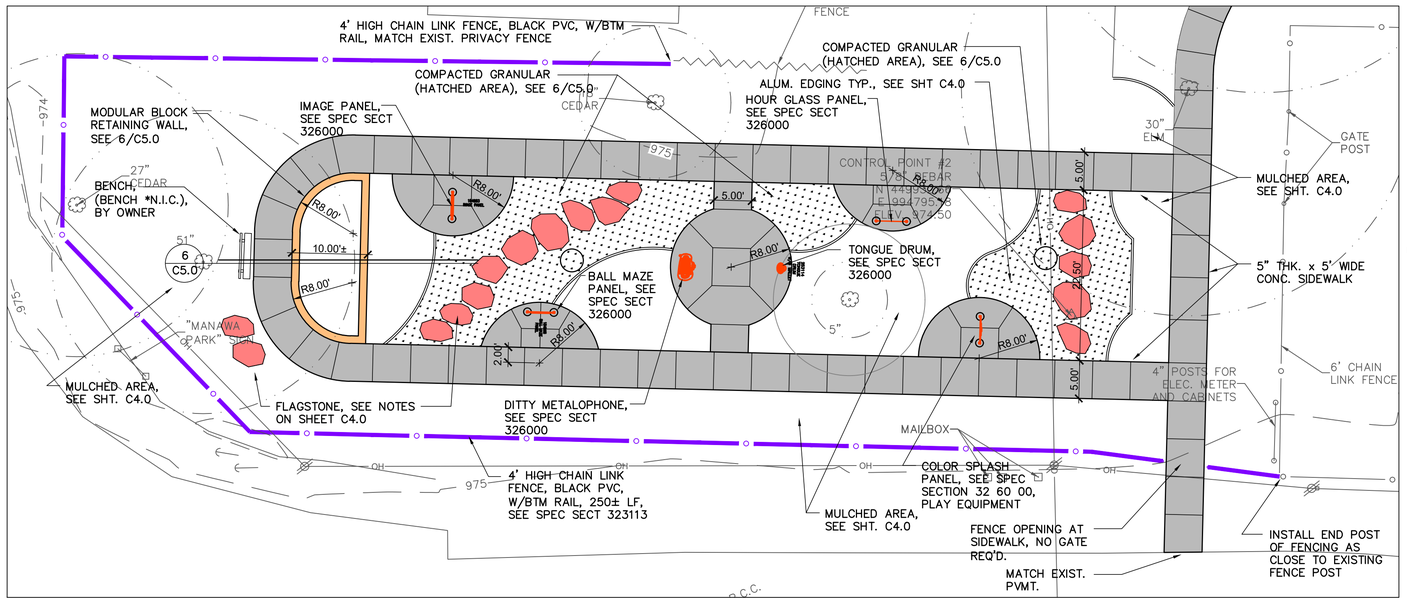
1 ENLARGED HARD-COURT PLAY AREA
SCALE: 1" = 10'-0"



3 BASKETBALL STRIPING PLAN
SCALE: 1" = 10'-0"



4 BASKETBALL GOAL FOOTING DETAIL
SCALE: 1" = 1'-0"



2 ENLARGED SENSORY PLAY AREA
SCALE: 1" = 10'-0"

0 5' 10' 20'

N

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project MANAWA CITY PARK IMPROVEMENTS
Navajo and Mohawk Street

client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet ENLARGED PLANS

project no. 150222

sheet C2.1

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POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
500	449901.47	994812.42	975.72	TOS
501	449901.42	994807.41	975.71	TOS
502	449921.53	994807.89	974.98	TOS
503	449921.33	994812.88	974.98	TOS
504	449926.36	994813.00	974.90	TOS
505	449926.45	994808.00	974.90	TOS
506	449937.78	994808.27	974.50	TOS
507	449937.66	994813.27	974.55	TOS
508	449948.85	994813.53	974.62	TOS
509	449948.97	994808.53	974.57	TOS
510	449953.97	994808.65	974.59	TOS
511	449953.98	994813.65	974.59	TOS
512	449949.10	994803.05	974.54	TOS
513	449954.10	994803.17	974.59	TOS
514	449949.66	994779.29	974.54	TOS
515	449943.84	994771.40	974.48	TOS
516	449950.02	994763.80	974.54	TOS
517	449951.84	994771.59	974.56	8' RADIUS
518	449950.28	994753.05	974.54	TOS
519	449950.40	994748.05	974.54	TOS
520	449955.39	994748.18	974.59	TOS
521	449946.75	994747.96	974.58	TOS
522	449939.09	994742.28	974.58	TOS
523	449931.55	994747.61	974.58	TOS
524	449931.43	994752.61	974.58	TOS
525	449939.09	994758.28	974.58	TOS
526	449939.09	994750.28	974.63	8' RADIUS
527	449946.63	994752.96	974.58	TOS
528	449951.02	994721.56	974.54	TOS
529	449956.22	994713.19	974.59	TOS
530	449943.21	994713.37	974.46	TOS
531	449951.39	994705.56	974.54	TOS
532	449951.21	994713.56	974.54	8' RADIUS
533	449956.51	994700.68	974.60	TOS
534	449951.51	994700.56	974.60	TOS
535	449943.51	994700.38	976.00	8' RADIUS
536	449943.70	994692.38	974.79	TOS
537	449943.82	994687.38	974.71	TOS
538	449937.20	994692.22	974.78	TOS
539	449937.32	994687.23	974.71	TOS
540	449937.02	994700.22	976.00	8' RADIUS
541	449929.02	994700.03	974.64	TOS
542	449924.02	994699.92	974.62	TOS
543	449928.61	994717.28	974.54	TOS
544	449934.43	994725.17	974.46	TOS
545	449928.25	994732.77	974.54	TOS
546	449926.43	994724.98	974.57	8' RADIUS
547	449923.42	994725.47	974.62	TOS
548	449922.77	994752.91	974.62	TOS
549	449927.77	994753.02	974.54	TOS
550	449927.90	994747.52	974.54	TOS
551	449927.25	994775.01	974.67	TOS
552	449933.95	994778.93	974.63	TOS
553	449926.91	994791.01	974.78	TOS
554	449927.09	994783.03	974.73	8' RADIUS
555	449922.09	994782.92	974.80	TOS
556	449940.58	994792.45	974.24	TOS
557	449940.09	994729.61	974.28	LOW POINT
558	449964.46	994813.90	974.52	TOS
559	449964.58	994808.90	974.52	TOS

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
560	449963.99	994833.89	974.67	20' RADIUS
561	449976.36	994818.17	974.45	TOS
562	449979.45	994814.24	974.44	TOS
563	449978.95	994820.22	974.43	TOS
564	449983.58	994817.49	974.42	TOS
565	449966.59	994835.94	974.63	20' RADIUS
566	449995.94	994801.77	974.94	20' RADIUS
567	449986.58	994836.55	974.31	TOS
568	449991.58	994836.70	974.24	TOS
569	449990.86	994861.13	974.24	TOS
570	450000.85	994861.50	974.18	TOS
571	450000.70	994865.49	974.24	TOS
572	449990.71	994865.13	974.24	TOS
573	449989.74	994896.67	974.52	TOS
574	449984.74	994896.52	974.59	TOS
575	449985.81	994861.54	974.31	TOS
576	450068.66	994917.49	974.69	TOS
577	450001.94	994827.01	974.24	TOS
578	450001.57	994837.00	974.15	10' RADIUS
579	449995.21	994821.76	974.31	TOS
580	450015.93	994827.52	974.24	TOS
581	450015.56	994837.51	974.15	10' RADIUS
582	450025.66	994822.87	974.30	TOS
583	450025.56	994837.82	974.24	TOS
584	450025.04	994854.70	974.24	TOS
585	450045.03	994855.31	974.11	15' RADIUS
586	450027.88	994865.59	974.24	TOS
587	450035.93	994879.01	974.36	TOS
588	450023.06	994886.72	974.42	15' RADIUS
589	450038.05	994887.18	974.43	TOS
590	450037.67	994899.88	974.53	TOS
591	450027.67	994899.57	974.54	10' RADIUS
592	450026.97	994909.55	974.66	TOS
593	450043.78	994915.74	974.71	TOS
594	450014.79	994913.70	974.71	TOS
595	449999.24	994907.60	974.66	TOS
596	449998.89	994912.59	974.71	TOS
597	449999.72	994897.61	974.55	10' RADIUS
598	450013.44	994930.58	974.45	TOP
599	449997.53	994928.81	974.55	TOP
600	449991.95	994933.38	974.50	TOP
601	449991.59	994936.36	974.51	TOP
602	450017.79	994938.95	974.35	TOP
603	450017.99	994935.96	974.35	TOP
604	450018.42	994930.98	974.43	5' RADIUS
605	449992.54	994928.42	974.57	5' RADIUS
606	450027.54	994865.03	974.24	TOP
607	450026.37	994865.73	974.24	TOP
608	450024.14	994862.01	974.24	4.34' RADIUS
609	450023.98	994866.34	974.24	TOP
610	450040.91	994828.43	974.13	TOS
611	450040.55	994838.43	974.08	RADIUS
612	450030.55	994838.12	974.19	TOS
613	450030.04	994854.85	974.19	TOS
614	450030.41	994858.64	974.19	TOS
615	450037.08	994854.64	974.15	TOS
616	450039.13	994858.08	974.14	TOS
617	450031.84	994862.45	974.18	TOS
618	450040.21	994876.44	974.28	TOS
619	450043.05	994887.33	974.38	TOS

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
620	450066.20	994888.04	974.38	TOS
621	450073.30	994888.26	974.45	TOP
622	450073.76	994873.27	974.25	15' RADIUS
623	450064.17	994824.28	974.01	TOS
624	450063.99	994829.28	973.96	TOS
625	450048.47	994873.65	974.23	18.16' RADIUS
626	450057.66	994857.99	974.05	TOP
627	450066.62	994874.21	974.24	TOP
628	450042.63	994901.02	974.54	TOS
629	450051.93	994911.30	974.66	TOS
630	450052.63	994901.32	974.54	10' RADIUS
631	450069.01	994912.50	974.64	TOS
632	450067.61	994932.45	974.50	15' RADIUS
633	450008.15	994847.23	974.05	LOW POINT
634	450063.81	994842.69	973.82	LOW POINT
635	450088.75	994873.82	974.51	TOP
636	450089.76	994846.23	974.31	TOP
637	450090.34	994830.24	974.21	TOS
638	450086.34	994830.10	974.15	TOS
639	450085.76	994846.09	974.25	TOS
640	450130.50	994826.71	974.34	TOS
641	450130.31	994831.70	974.39	TOS
642	450129.95	994841.70	974.48	10' RADIUS
643	450144.94	994842.25	974.46	TOS
644	450139.94	994842.06	974.49	TOS
645	450143.16	994890.76	974.70	TOS
646	450138.17	994890.63	974.73	TOS
647	450113.18	994889.72	974.85	HIGH POINT
648	450129.27	994860.29	974.63	TOP
649	450099.29	994859.19	974.50	TOP
650	450097.46	994909.16	974.72	TOP
651	450127.44	994910.25	974.71	TOP
652	450142.05	994921.18	974.59	TOS
653	450137.02	994922.01	974.63	TOS
654	450127.02	994921.64	974.67	10' RADIUS
655	450126.66	994931.47	974.63	TOS
656	450126.48	994936.63	974.55	TOS
657	450097.85	994930.58	974.63	TOS
658	450097.66	994935.58	974.55	TOS
659	450098.39	994915.59	974.70	15' RADIUS
660	450081.60	994926.45	974.55	TOS
661	450085.80	994923.74	974.63	TOS
662	450084.41	994921.59	974.63	TOS
663	450080.21	994924.30	974.57	TOS

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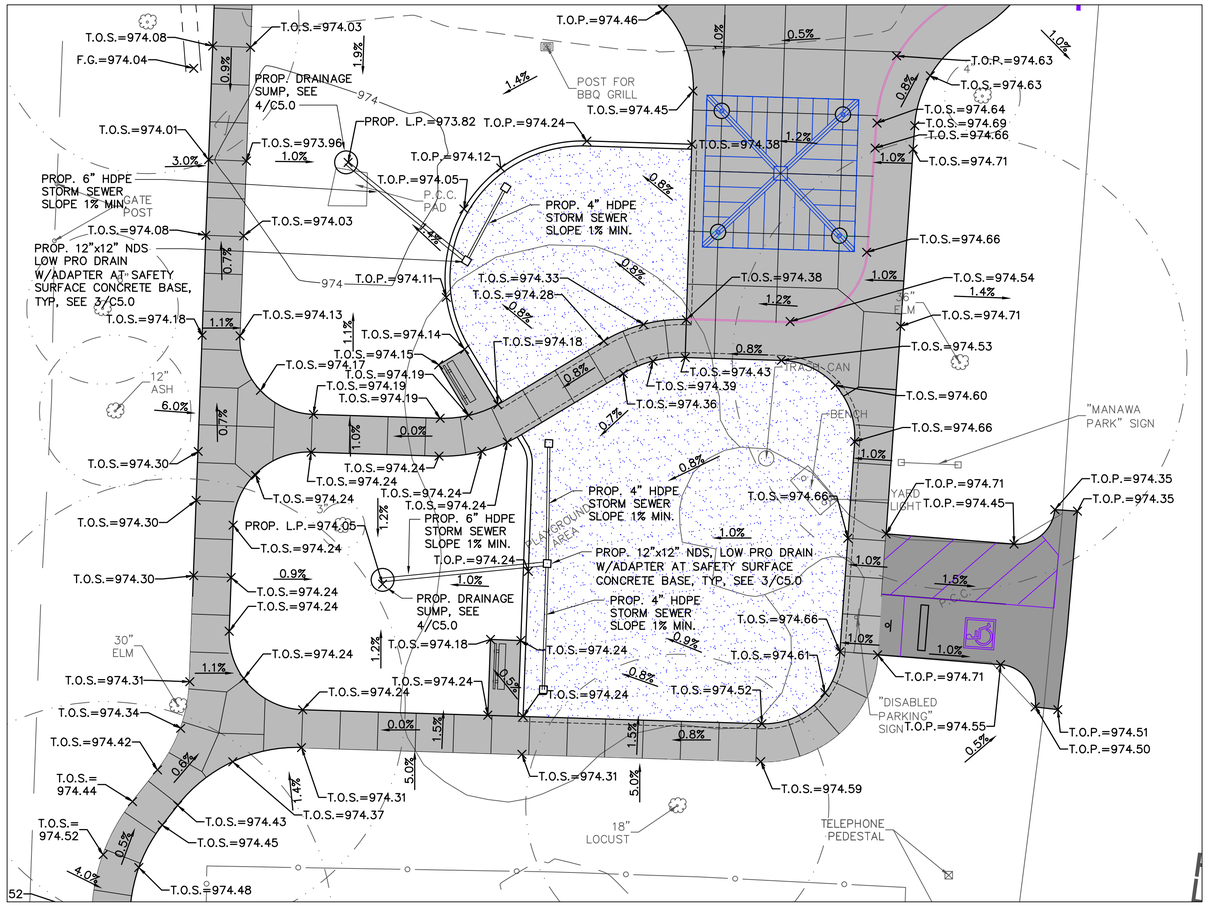
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HGM approved
SEPT 2022 date
date revision date

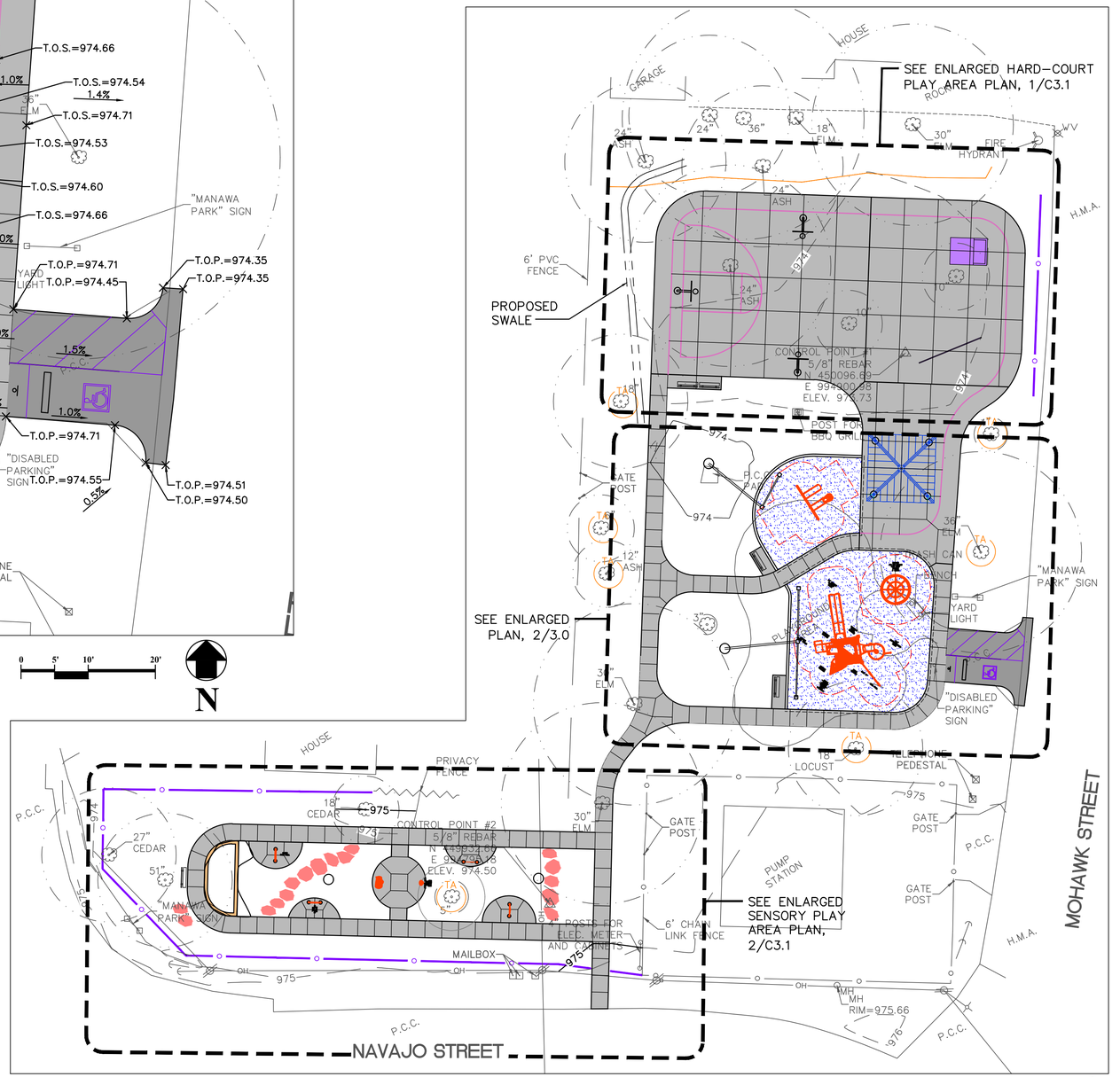
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Navajo and Mohawk Street
client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa
sheet LAYOUT POINTS

project no.
150222
sheet
C2.2

ABBREVIATION LEGEND
T.O.S.= TOP OF SLAB
T.O.P.= TOP OF PVMT.



2 ENLARGED PLAY AREA
SCALE: 1" = 10'-0"



1 SITE GRADING PLAN
SCALE: 1" = 20'-0"

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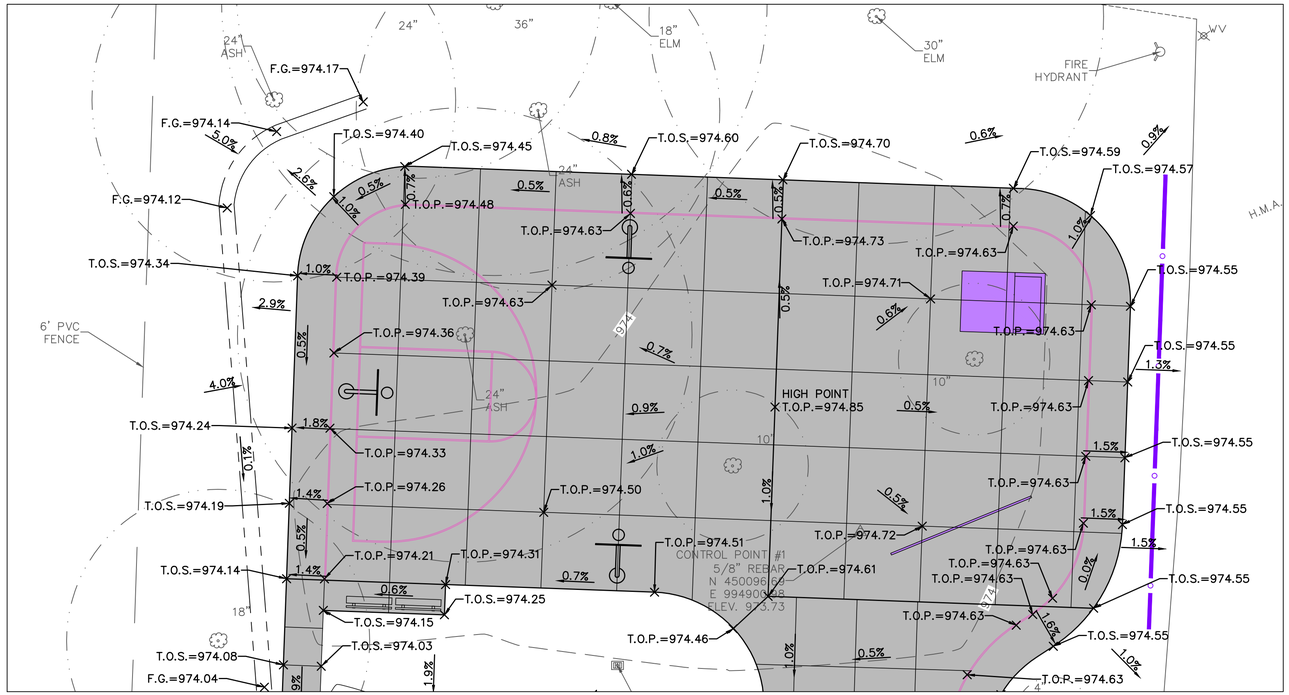
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Navajo and Mohawk Street
client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa
sheet SITE GRADING PLAN

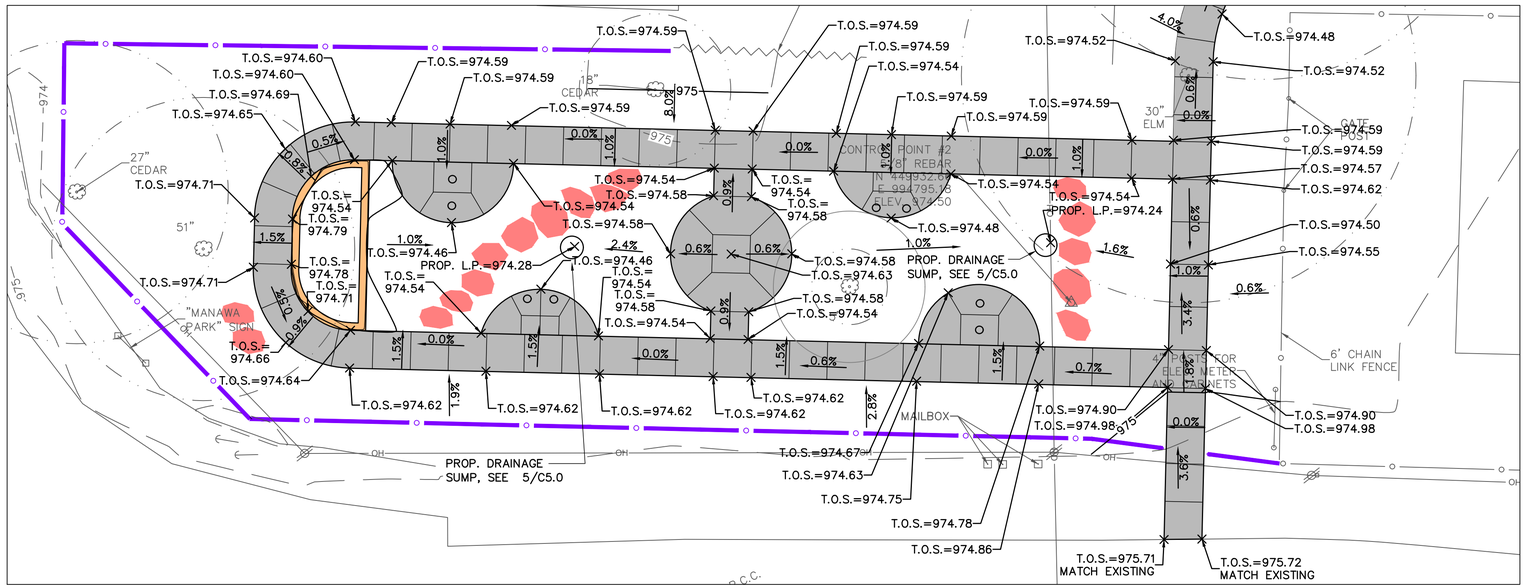
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1 ENLARGED HARD-COURT PLAY AREA

SCALE: 1" = 10'-0"



2 ENLARGED SENSORY PLAY AREA

SCALE: 1" = 10'-0"

0 5' 10' 20'

N

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project MANAWA CITY PARK IMPROVEMENTS
Navajo and Mohawk Street

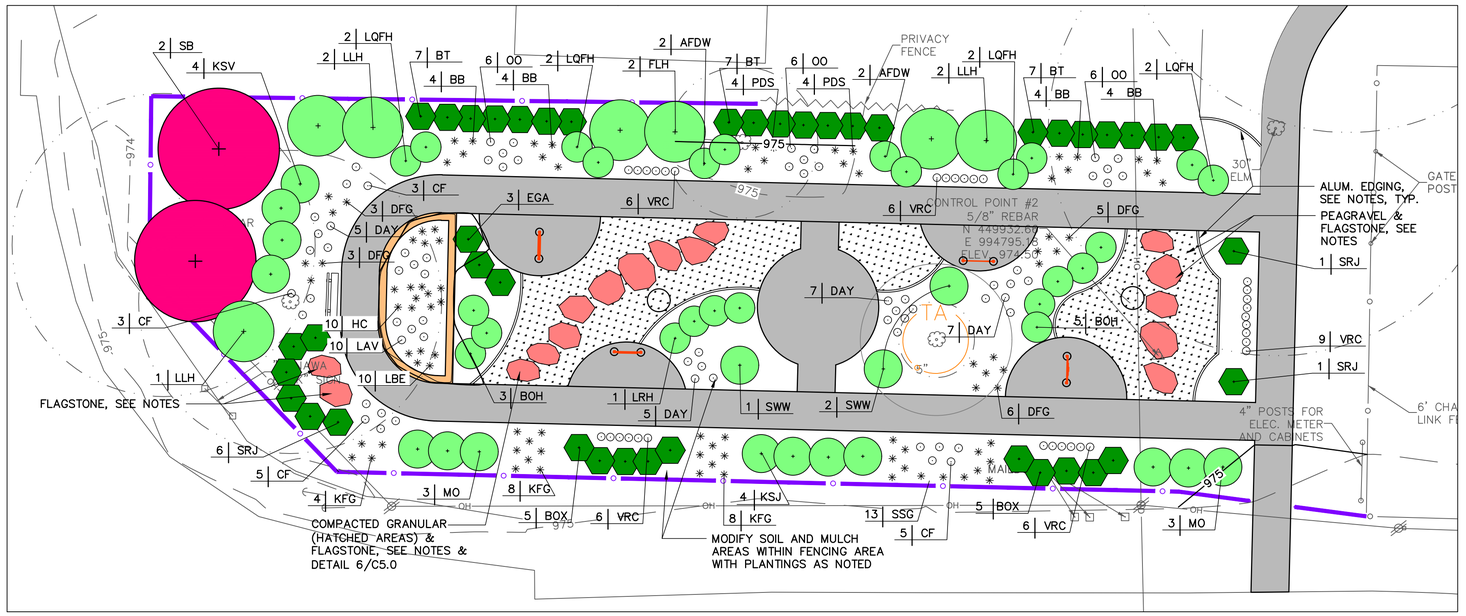
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City of Council Bluffs, Iowa

sheet SITE GRADING PLAN

project no. 150222

sheet C3.1

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1 SENSORY GARDEN LANDSCAPE PLAN

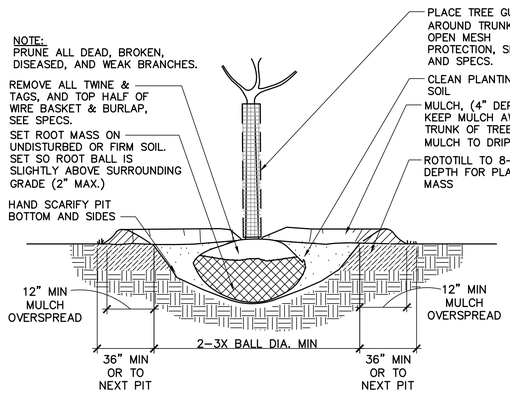
SCALE: 1" = 10'-0"

0 5' 10' 20'

N

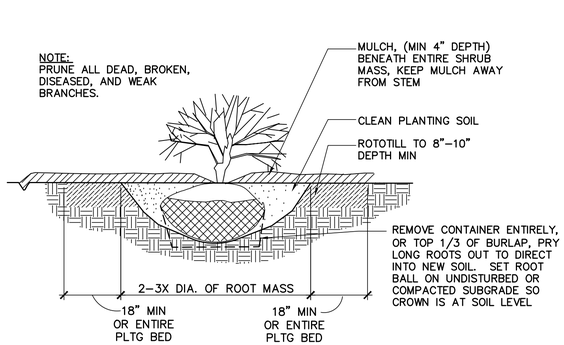
PLANTING NOTES:

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 TO A DEPTH OF 18" MIN. THIS TO BE COMPLETED AFTER RESTORATION OF THE AREA AS NOTED ABOVE AND IN SPECS TO REMOVE HARD PAN OR COMPACTED AREAS.
8. PROVIDE SHREDDED HARDWOOD MULCH IN ALL PLANT SAUCERS AND 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 AND SPECIFICATIONS. AREAS DISTURBED AND NOT SHOWN TO BE SEEDED AND BLANKETED.
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 STORAGE CELLS 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.
14. FLAGSTONE TO BE COLORADO RED FLAGSTONE 2" THK. MIN. STONES SHALL BE APPROXIMATELY 2'x4'± IN SIZE AND PLACED IN RANDOM, WALK-LIKE PATTERN, WITHIN THE COMPACTED PEA GRAVEL AS SHOWN. TOP OF FLAGSTONE TO MATCH TOP OF COMPACTED GRANULAR. STONES SHOULD BE STABLE AND LEVEL WHEN SET, WITH NO WOBBLE WHEN STEPPING ON THEM.



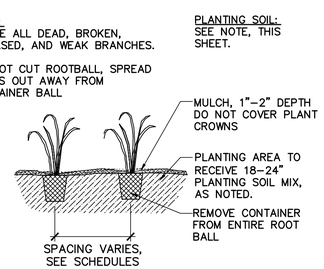
2 TREE PLANTING DETAIL

NO SCALE



3 SHRUB PLANTING DETAIL

NO SCALE



4 PERENNIAL PLANTING DETAIL

NO SCALE

PLANTING SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	DESCRIPTION
ORNAMENTAL TREES					
SB	2	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brillance Serviceberry	6' HGT./CLUMP	B&B
SHRUBS					
LLH	5	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	24"	CONTAINER
FLH	2	Hydrangea paniculata 'Fire Light'	Fire Light Hydrangea	24"	CONTAINER
BOH	8	Hydrangea paniculata 'Bobo Hardy'	Bobo Hardy Hydrangea	24"	CONTAINER
LQFH	8	Hydrangea paniculata 'Little Quick Fire'	Little Quick Fire Hydrangea	18"	CONTAINER
BT	21	Rhamnus frangula	Fine Leaf Buckthorn	24"	CONTAINER
KSV	4	Viburnum carlesii	Korean Spice Viburnum	24"	CONTAINER
AFDW	4	Cornus stolonifera	Arctic Fire Red Dogwood	18"	CONTAINER
BOX	10	Buxus 'Green Mountain'	Green Mountain Boxwood	18"	CONTAINER
MO	6	Philadelphus 'Miniature Snowflake'	Miniature Snowflake Mock Orange	18"	CONTAINER
KSW	4	Hypericum kalmianum	Kalm St John's Wort	18"	CONTAINER
SRJ	8	Juniperus virginiana 'Skyrocket'	Skyrocket Juniper	24"	CONTAINER
SWW	3	Weigela florida 'Bokraspiwi'	Spilled Wine Weigela	18"	CONTAINER
LRH	4	Hibiscus moscheutos 'Luna Red'	Luna Red Hardy Hibiscus	18"	CONTAINER
EGA	3	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	24"	CONTAINER
PERENNIALS					
*DAY	8	Hemerocallis 'Happy Returns'	Happy Returns Daylily	1 GAL	CONTAINER
*DAY	8	Hemerocallis 'Pardon Me'	Pardon Me Daylily	1 GAL	CONTAINER
*DAY	8	Hemerocallis Purple de Oro'	Purple de Oro Daylily	1 GAL	CONTAINER
*SSCF	8	Echinacea 'Cheyenne Spirit'	Cheyenne Spirit Coneflower	1 GAL	CONTAINER
*MCF	8	Echinacea purpurea 'Magnus'	Magnus Coneflower	1 GAL	CONTAINER
VRC	33	Veronica spicata 'Royal Candles'	Royal Candles Speedwell	1 GAL	CONTAINER
SSG	13	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 GAL	CONTAINER
KFG	20	Calamagrastis x acutiflora 'Karl Foerster'	Karl Foerster Reed Grass	1 GAL	CONTAINER
DFG	17	Pennisetum alopecuroides 'Hameln'	Hameln Dwarf Fountain Grass	1 GAL	CONTAINER
SSG	5	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 GAL	CONTAINER
PDS	8	Sporobolus heterolepis	Prairie Dropseed Grass	1 GAL	CONTAINER
OO	18	Allium schoenoprasum	Ornamental Onion	1 GAL	CONTAINER
LAV	10	Lavandula angustifolia 'Munstead'	English Munstead Lavender	1 GAL	CONTAINER
LBE	10	Stachys byzantina	Lamb's Ear	1 GAL	CONTAINER
HC	10	Sempervivum	Hen and Chicks	1 GAL	CONTAINER
BB	16	Monarda didyma 'Pardon My Cerise'	Pardon My Cerise Bee Balm	1 GAL	CONTAINER

*NOTE: DAYLILIES AND CONEFLOWER SHOULD BE PLANTING IN MIXED GROUPS

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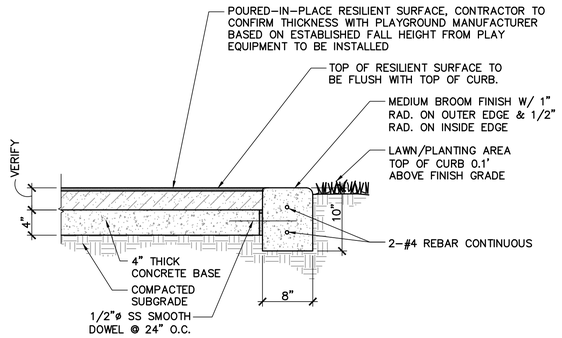
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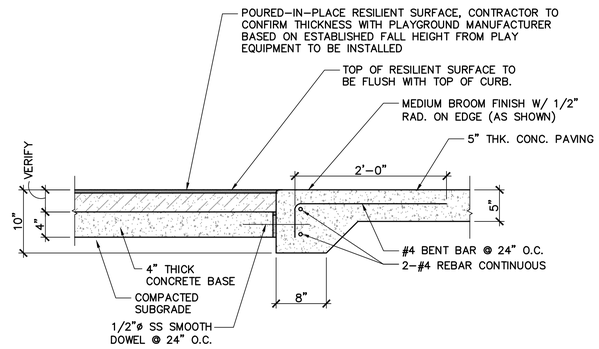
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Navajo and Mohawk Street
client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa
sheet LANDSCAPE PLAN

project no. 150222
sheet C4.0

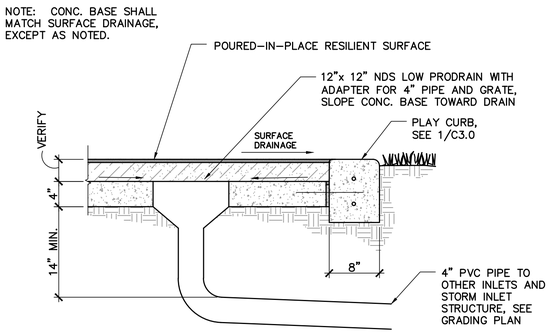
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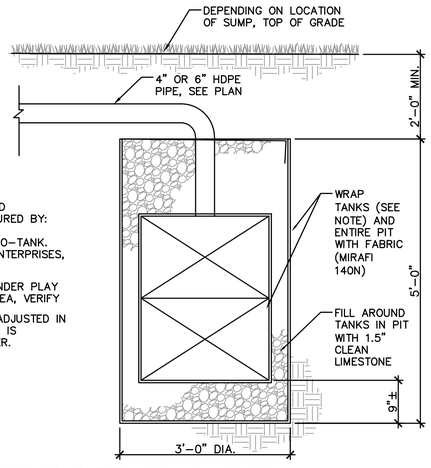
1 CONC. PLAY CURB & SURFACING DETAIL
SCALE: 1" = 1'-0"



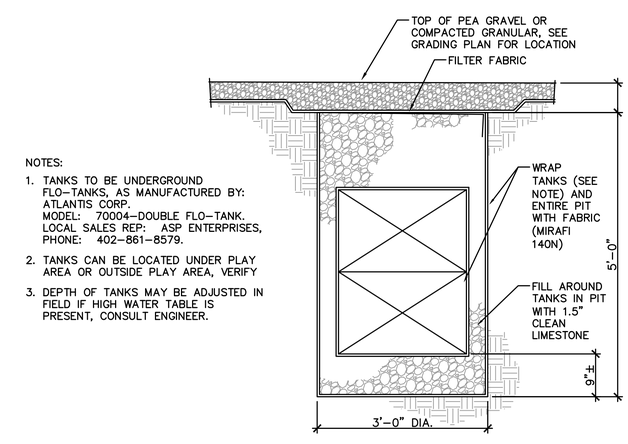
2 THICK. EDGE SIDEWALK @ SURFACING DETAIL
SCALE: 1" = 1'-0"



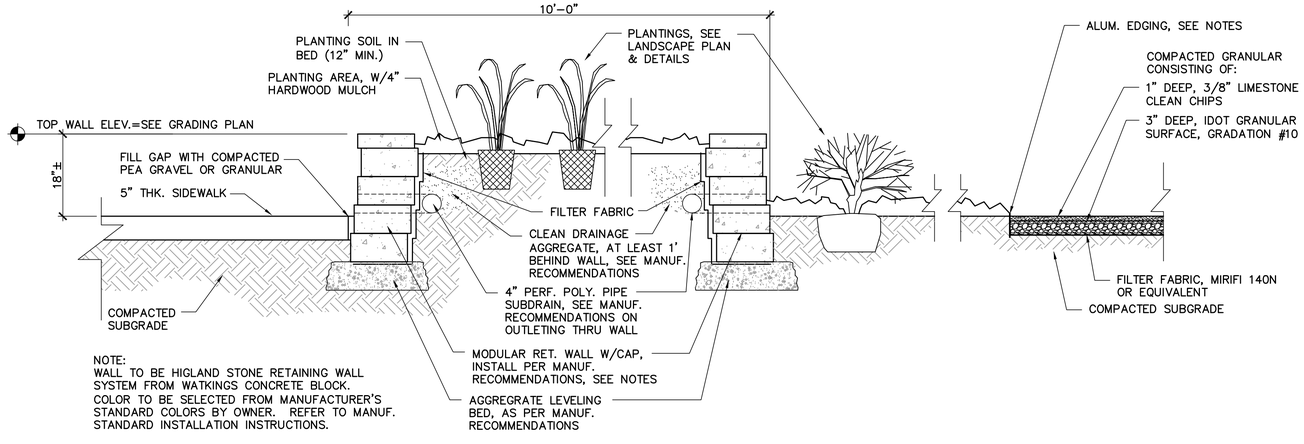
3 DRAIN INLETS UNDER SURFACING DETAIL
SCALE: 1" = 1'-0"



4 DRAINAGE SUMP DETAIL (LAWN)
SCALE: 3/4" = 1'-0"



5 DRAINAGE SUMP DETAIL (SENSORY GARDEN)
SCALE: 3/4" = 1'-0"



6 RETAINING WALL / GRAVEL AREA IN SENSORY GARDEN
SCALE: 3/4" = 1'-0"

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project MANAWA CITY PARK IMPROVEMENTS
Navajo and Mohawk Street

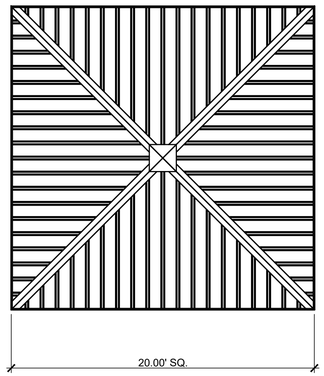
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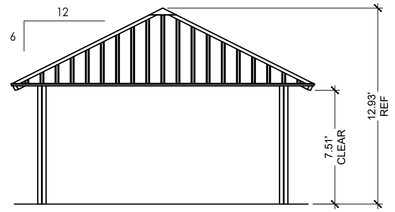
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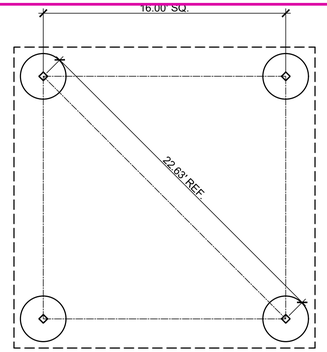
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PLAN VIEW



ELEVATION VIEW





ISOMETRIC VIEW

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, SQUARE, SQR-20. ROOF TO BE REGAL BLUE, FRAME TO BE WHITE.

2. PROVIDE SHOP DRAWINGS AS LISTED IN SPECIFICATIONS.

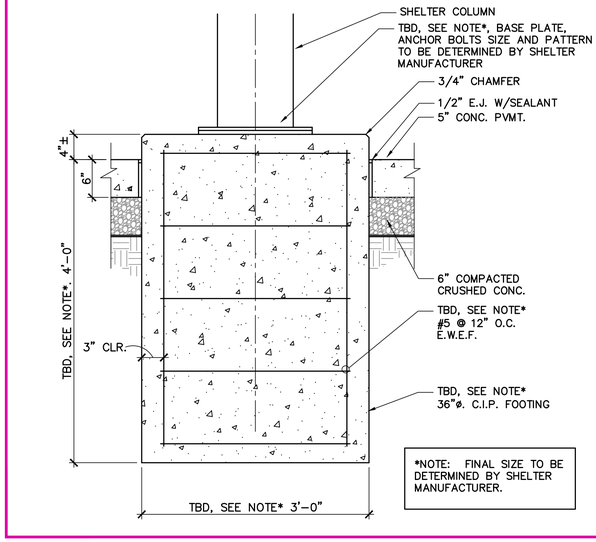
3. SHELTER TO HAVE STANDING MULTI-RIB ROOF.

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

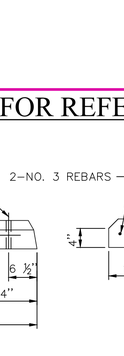
5. COLUMN BASE CONNECTION: TBD. CONTRACTOR TO WORK WITH OWNER/ARCHITECT ON BASE CONNECTION OPTIONS. PROVIDE BASEPLATE COVER FOR EXPOSED BOLTS (S43).

6. NOTE: OWNER TO PURCHASE SHELTER, CONTRACTOR TO PICK UP FROM OWNER'S STORAGE AND DELIVER TO SITE AND INSTALL FOOTINGS AND SHELTER STRUCTURE PER MANUFACTURER'S INSTRUCTIONS.

1 SHELTER DETAIL (N.I.C. - FOR REFERENCE FOR FUTURE BID)
NO SCALE

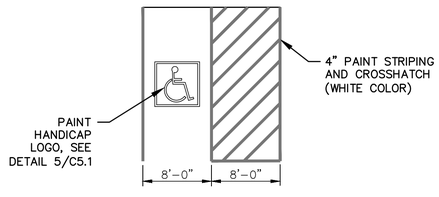


2 SHELTER FOOTING DETAIL (N.I.C.-FOR FUTURE BID)
SCALE: 1" = 1'-0"

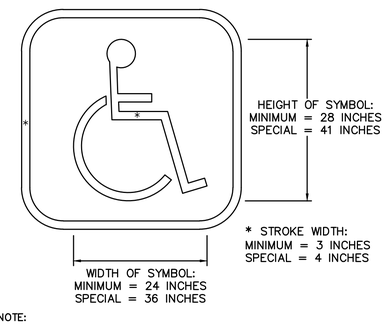


NOTE:
PRECAST CONCRETE CURB STOP SHALL BE ANCHORED USING NO. 7 BARS 18" LONG.
3000 PSI CONCRETE @ 28 DAYS.

3 PRECAST CONCRETE WHEEL STOP DETAIL
NO SCALE

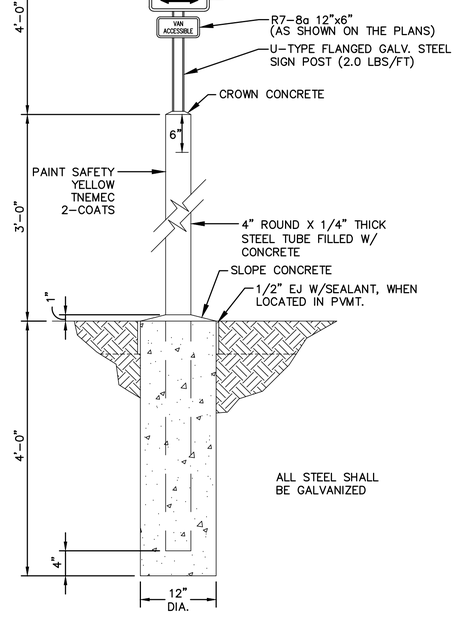


4 HANDICAP PARKING LAYOUT
NO SCALE



NOTE:
HC SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOLS ARE REQUIRED TO CONTRAST WITH BACKGROUND. WHITE ON BLUE (COLOR NO. 105090 IN FEDERAL STANDARD 595A) DOUBLE COAT (TYP)

5 PAINTED HANDICAP SIGN DETAIL
NO SCALE



6 HANDICAP SIGN AND BOLLARD DETAIL
NO SCALE

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Navajo and Mohawk Street

client PARKS & RECREATION DEPARTMENT
City of Council Bluffs, Iowa

sheet SITE DETAILS

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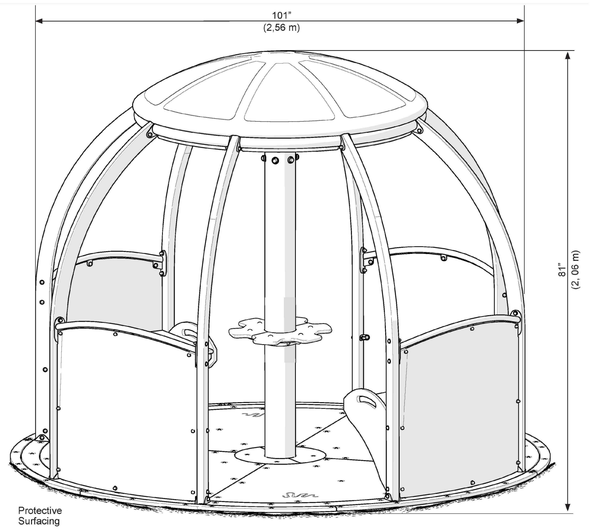
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ISO 9001 Certified

SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



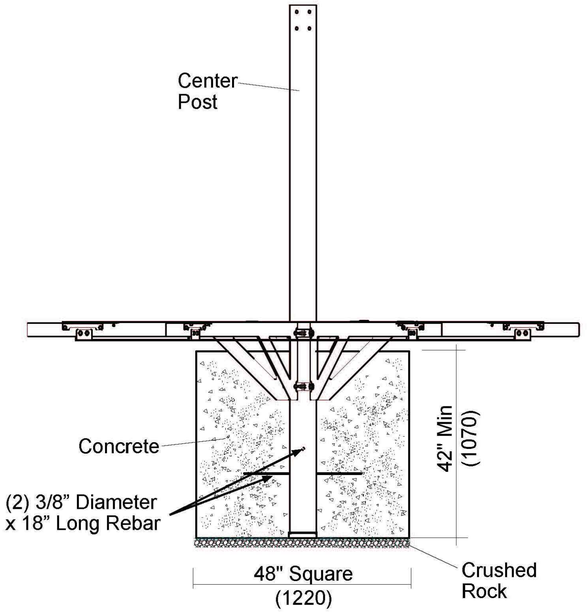
Scan the QR Code to the right, or type the URL into a browser to view the video

https://bit.ly/2ESCwd0

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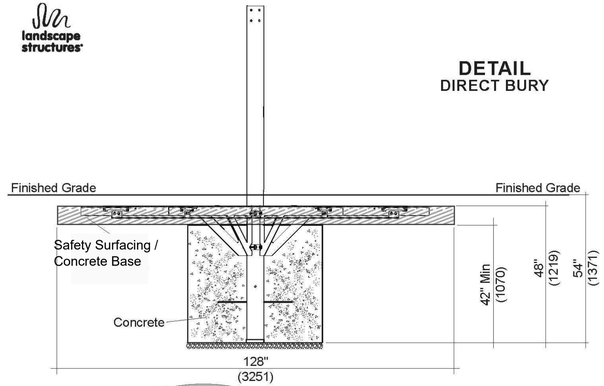
DETAIL
DIRECT BURY



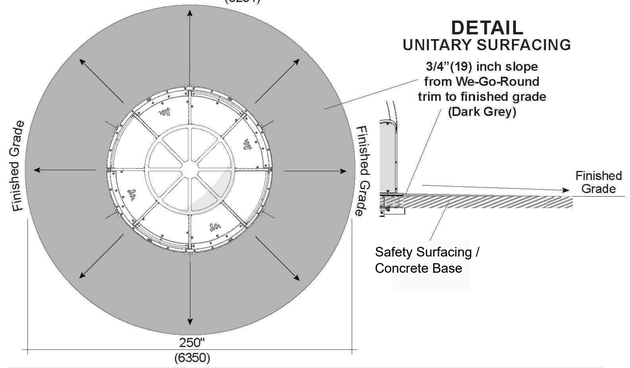
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DETAIL
DIRECT BURY



DETAIL
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1 WE-GO-ROUND PLAY ELEMENT - MANUFACTURER'S DETAIL (N.I.C.- FOR FUTURE BID)

NOTE: THESE DETAILS ARE FOR REFERENCE ONLY, CONTACT MANUFACTURER FOR SPEC SHEET AND DETAIL INSTALLATION INSTRUCTIONS

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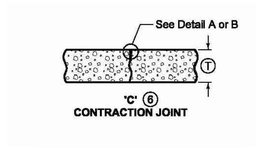
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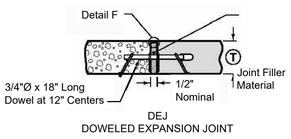
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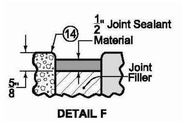
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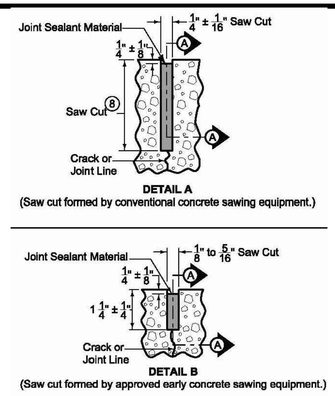


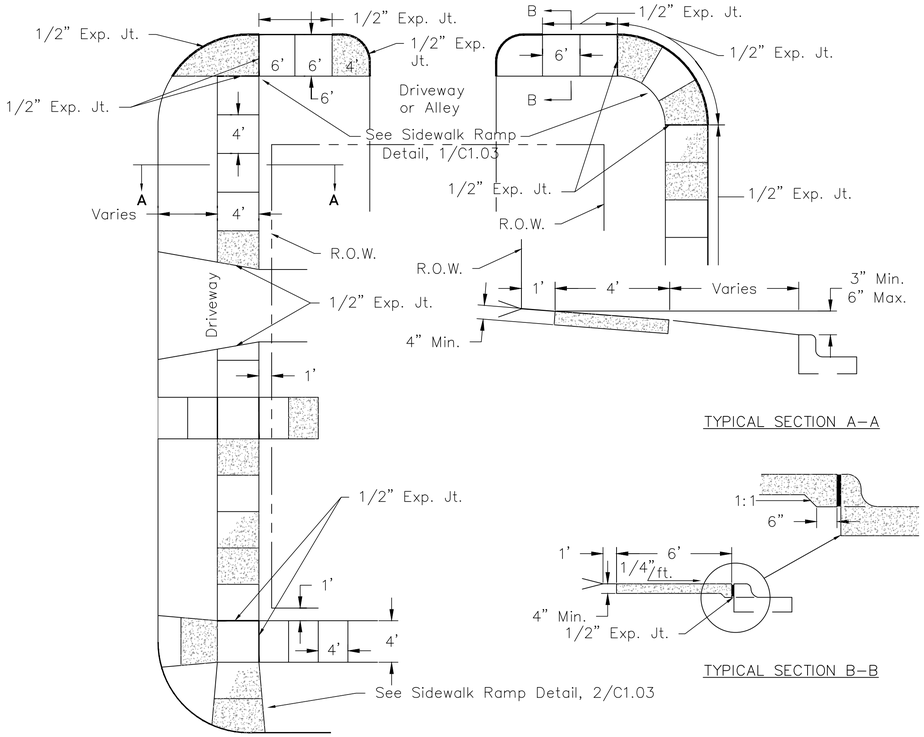


⑧ Saw 'CD' joint to a depth of T/3 ± 1/4"; saw 'C' joint to a depth of T/4 ± 1/4".

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

SIDEWALK JOINTS





TYPICAL SECTION A–A

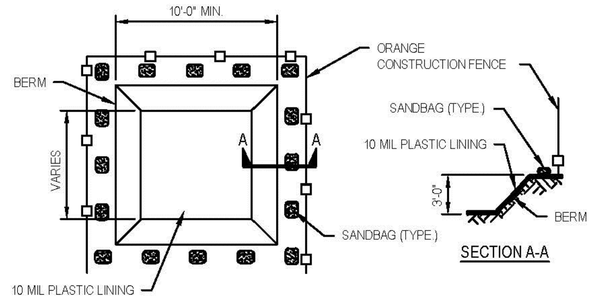
TYPICAL SECTION B–B

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.

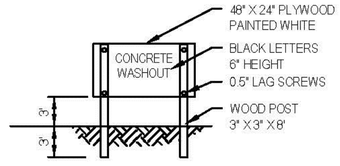
SIDEWALK DETAILS

SCALE : NONE

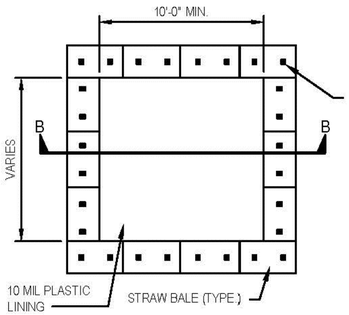


PLAN - BELOW GRADE OPTION

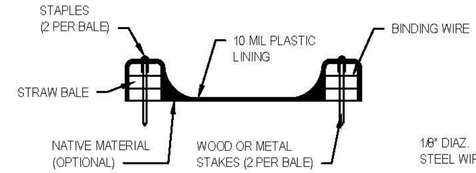
SECTION A-A



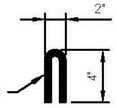
CONCRETE WASHOUT SIGN DETAIL



PLAN - ABOVE GRADE W/ STRAW BALES OPTION



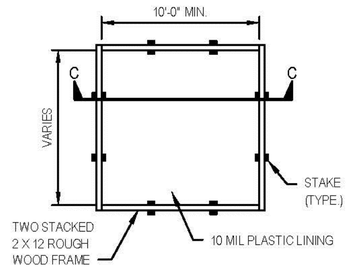
SECTION B-B



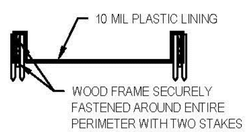
STAPLE DETAIL

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.



PLAN - ABOVE GRADE OPTION



SECTION C-C

CONCRETE WASHOUT AREA

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Navajo and Mohawk Street

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City of Council Bluffs, Iowa

sheet STANDARD CIVIL DETAILS

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