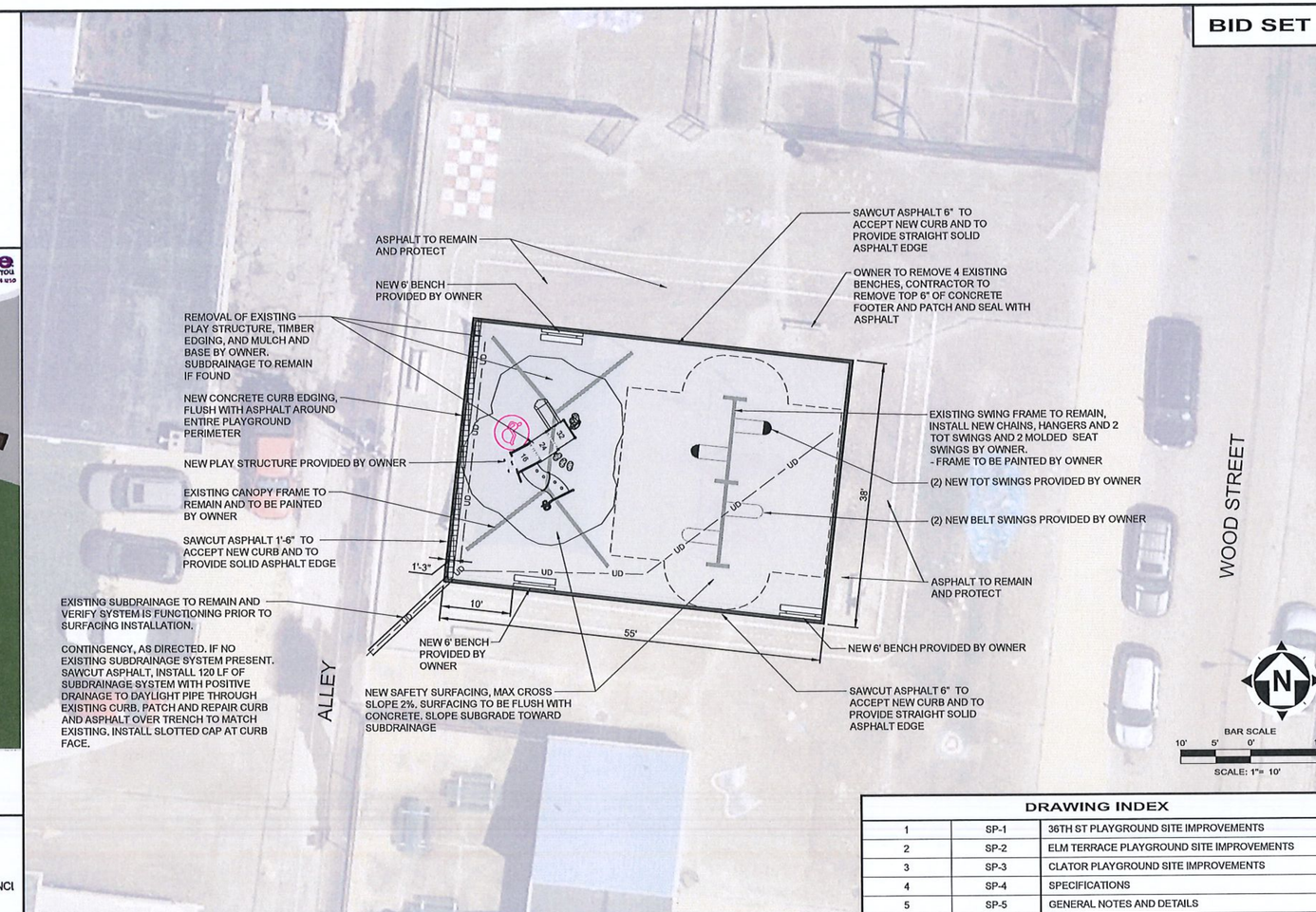
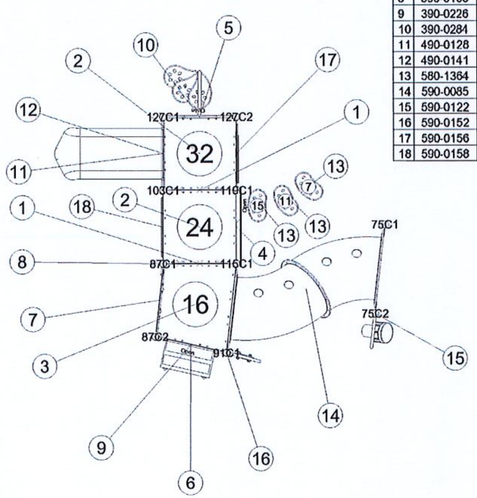
BID SET

PLAYGROUND EQUIPMENT

SCALE: NONE



ITEM	COMP.	DESCRIPTION
1	290-0101	6" CLOSURE PLATE
2	290-0102	SQUARE PLATFORM
3	290-0103	TRAPEZOID PLATFORM
4	290-0105	IMAGINATION DISCOVER OFFSET ENCI
5	290-0111	CLIMBER ENCLOSURE 2-5
6	390-0104	GRAB BARS
7	390-0128	CRUX CLIMBER 16"
8	390-0165	SINGLE GRAB BAR
9	390-0226	SINGLE STEP
10	390-0284	PETAL STEP CLIMBER 32"
11	490-0128	ROCK N ROLL SLIDE 24"-32"
12	490-0141	SLIDE SIT DOWN BAR
13	580-1364	LIL NOVO BEAN STEP
14	590-0085	TUNNEL, 16" OFFSET TO GROUND
15	590-0122	DRUM CRESCENT PANEL
16	590-0152	RAIN CRESCENT PANEL
17	590-0156	ACORN PANEL, 2-SIDED 2-5 ABOVE PLA
18	590-0158	ABC PANEL 2-SIDED 2-5, ABOVE PLATF



PLAYGROUND EQUIPMENT LIST

SCALE: NONE

LEGEND

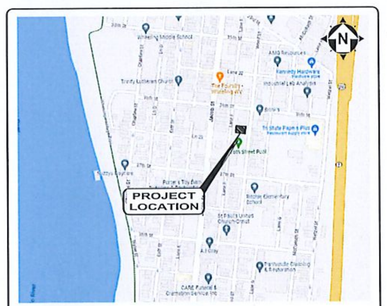
TURF SAFETY SURFACING (*SEE DETAILS*)

PAVEMENT AND BASE REMOVAL

SUBDRAINAGE (*SEE DETAILS*) — — — UD — — — UD —

PROJECT NOTES

1. THE PLAYGROUND EQUIPMENT INSTALLER SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PLAY EQUIPMENT COMPANY'S INSTALLATION GUIDELINES AND SAFETY NOTES AND SAFETY ZONES.
2. SAFETY ZONES SHOWN WERE PROVIDED BY THE MANUFACTURER. THE INSTALLER SHALL VERIFY THOSE SHOWN WITH THE MANUFACTURER'S SHOP DRAWINGS AND NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO SETTING EQUIPMENT POSTS.
3. VERIFY FOOTER LOCATIONS PRIOR TO INSTALLING SUBDRAINAGE.
4. DIMENSIONS OF PLAY EQUIPMENT ARE FOR INFORMATIONAL PURPOSES ONLY, THE INSTALLER SHALL VERIFY EQUIPMENT DIMENSIONS FROM THE MANUFACTURER'S SHOP DRAWINGS.
5. REFER TO SPECIFICATIONS FOR FURNISHINGS AND EQUIPMENT INFORMATION.
6. PLAY EQUIPMENT AND FURNISHINGS PROCUREMENT IS BY THE OWNER, INSTALLATION IS BY THE GENERAL CONTRACTOR.
7. PRICES TO INCLUDE PAVEMENT DEMOLITION, SITE GRADING, CURBING, FENCING AND SIDEWALK SITE PREPARATION AND INSTALLATION INCLUDING THE NECESSARY LABOR, MATERIALS, SERVICES AND EQUIPMENT AND PERFORMING ALL WORK WHETHER ITEMIZED OR NOT REQUIRED BY THE DRAWINGS AND SPECIFICATIONS PLUS INCIDENTALS NECESSARY TO COMPLETE THE CONSTRUCTION AS REQUIRED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE WITH THE PLAY EQUIPMENT AND SAFETY SURFACING INSTALLER AND HAVE THE SITE PREPARED FOR THEIR INSTALLATION.
8. PAVING DEMOLITION SHALL INCLUDE SAWCUTTING, REMOVAL PAVING AND BASE, PATCHING PAVEMENT AND PATCHING OF HOLES ADJACENT TO CURB TO MATCH EXISTING OR CITY STANDARDS.
9. BACKFILL CURBING, TOPSOIL, FINE GRADE AND SEED ALL AREAS DISTURBED BY CONSTRUCTION.
10. CONTRACTOR SHALL FIELD VERIFY SITE DIMENSIONS OF EXISTING CURBING AND SURFACING.



LOCATION MAP

NTS

NOTE: UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY
CALL BEFORE YOU DIG!

DRAWING INDEX

1	SP-1	36TH ST PLAYGROUND SITE IMPROVEMENTS
2	SP-2	ELM TERRACE PLAYGROUND SITE IMPROVEMENTS
3	SP-3	CLATOR PLAYGROUND SITE IMPROVEMENTS
4	SP-4	SPECIFICATIONS
5	SP-5	GENERAL NOTES AND DETAILS

OWNER

CITY OF WHEELING
1500 CHAPLINE STREET
WHEELING, WV 26003
PHONE: (304) 234-3617

ENGINEER

CT CONSULTANTS
2001 MAIN STREET, SUITE 202
WHEELING, WV 26003
PHONE: (304) 232-2784

CONSTRUCTION PLAN APPROVALS:

ROBERT HERRON, CITY MANAGER — 2-8-2024 DATE

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. THE REVIEWER DOES NOT ACCEPT RESPONSIBILITY FOR THE INTEGRITY OF THE PLANS.

DESIGN ENGINEER:

DAN BARR P.E.

1/30/2024
DATE

DANIEL E. BARR — REGISTERED — 25451 — STATE OF WEST VIRGINIA — PROFESSIONAL ENGINEER

CT consultants — your trusted advisor — engineers architects planners

NO	REVISION	DATE

ISSUED FOR: FOR BID
ISSUE DATE: 02/07/24
SCALE: AS SHOWN
DESIGNED BY: RW
DRAWN BY: CZ
CHECKED BY: WH

CITY OF WHEELING

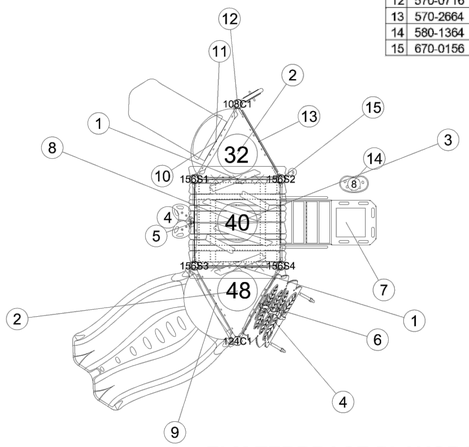
36TH ST, CLATOR AND ELM TERRACE PLAYGROUNDS
Wheeling, West Virginia, 26003
- OHIO COUNTY -

SITE IMPROVEMENT PLAN
36TH ST PLAYGROUND
3623 WOOD ST. WHEELING, WV

PROJECT NO. 232028
DISCIPLINE: LAND
SHEET NAME: SP-1
SHEET 1 OF 5

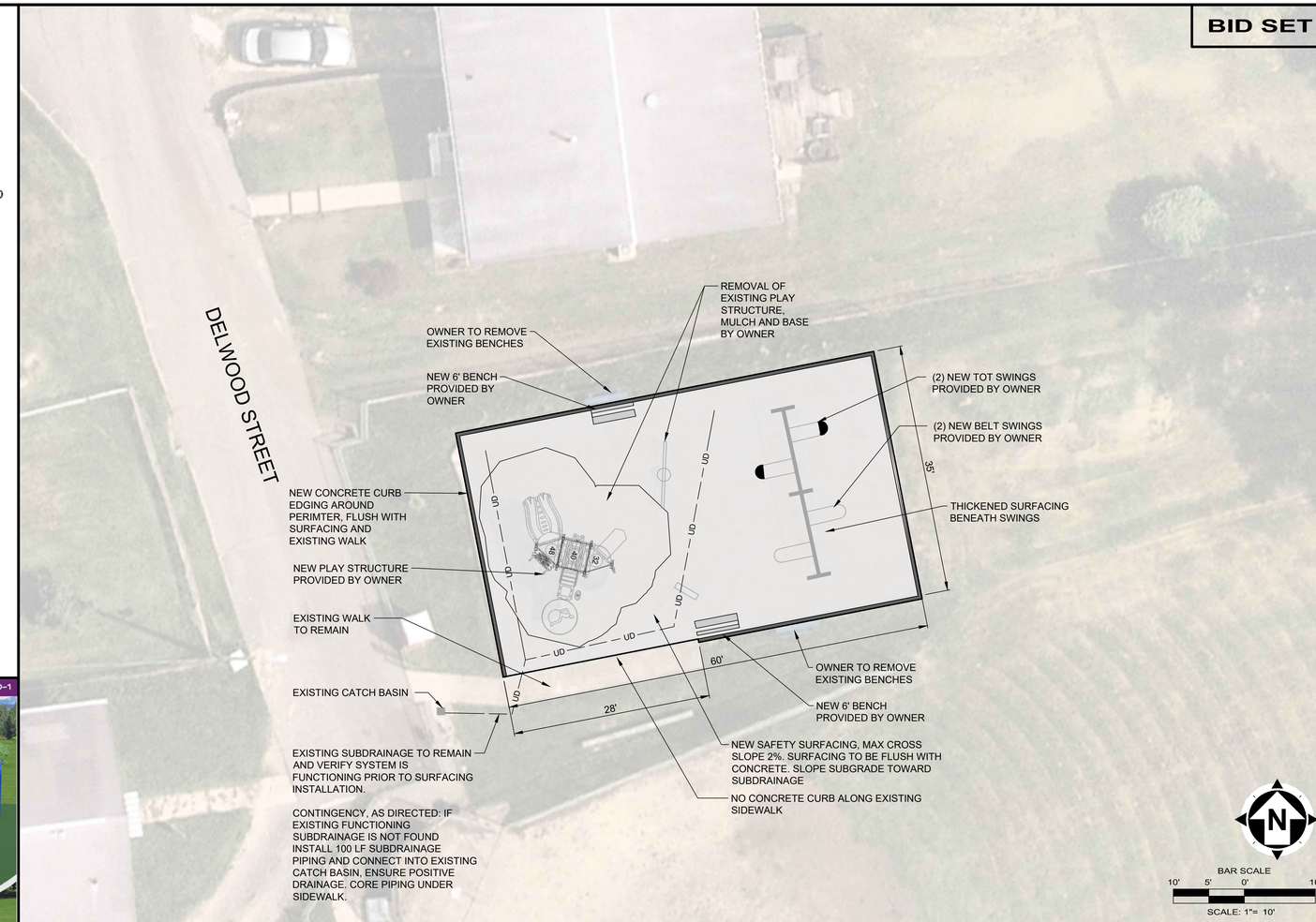
H:\2023\232028\DWG\SHEETS\PH01 36TH ST&_232028 36TH ST PLAYGROUND.DWG - SP-1 - 2/7/2024 10:29:39 PM - RICHARD WASHINGTON

ITEM	COMP.	DESCRIPTION
1	270-0009	8" CLOSURE PLATE, ELLIPSE
2	270-0129	TRIANGLE PLATFORM
3	270-0130	SQUARE PLATFORM
4	270-0192	CLUBHOUSE UNITARY ENCLOSURE
5	370-0089	LEAF CLIMBER 40" - 48"
6	370-0805	JUNGLE VINE CLIMBER 48"
7	370-1658	TRANSFER STATION, HANDRAIL 40"
8	470-0625	CLUBHOUSE RETREAT ROOF
9	470-0755	LUGE SLIDE, 48"-56"
10	470-0804	SLIDE HOOD, LOW SIDE WALL
11	470-0836	ROCK'N ROLL SLIDE, 24-32 W/O HOOD
12	570-0716	CLICKER ACTIVITY PANEL
13	570-2664	BEE PANEL
14	580-1364	LIL NOVO BEAN STEP
15	670-0156	POST MOUNTED BELL



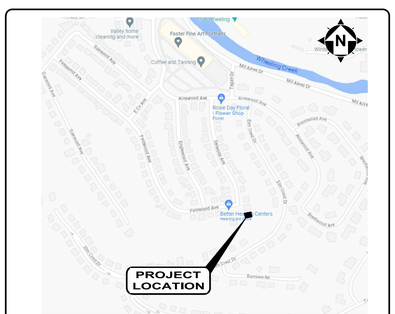
ELM TERRRACE PLAYGROUND
EQUIPMENT LIST
SCALE: NONE

ELM TERRRACE PLAYGROUND
SCALE: NONE



LEGEND

TURF SAFETY SURFACING	
SUBDRAINAGE	— — — UD — — — UD —



LOCATION MAP
NTS

BID SET

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consultants
engineers
architects
planners

NO	REVISION	DATE

ISSUED FOR:	FOR BID
ISSUE DATE:	02/07/24
SCALE:	AS SHOWN
DESIGNED BY:	RW
DRAWN BY:	CZ
CHECKED BY:	WH

CITY OF WHEELING
36TH ST, CLATOR AND ELM TERRACE PLAYGROUNDS
Wheeling,West Virginia, 26003
- OHIO COUNTY -

SITE IMPROVEMENT PLAN
ELM TERRACE PLAYGROUND
50 DELWOOD AVE, WHEELING, WV

PROJECT NO.
232028
DISCIPLINE
LAND
SHEET NAME
SP-2
SHEET **2** OF **5**

H:\2023\232028\DWG\SHEETS\PH03 TERRACE PLAYGROUNDL_232028 ELM TERRACE PLAYGROUND.DWG - SP-2 - 2/7/2024 5:38:46 PM - RICHARD WASHINGTON

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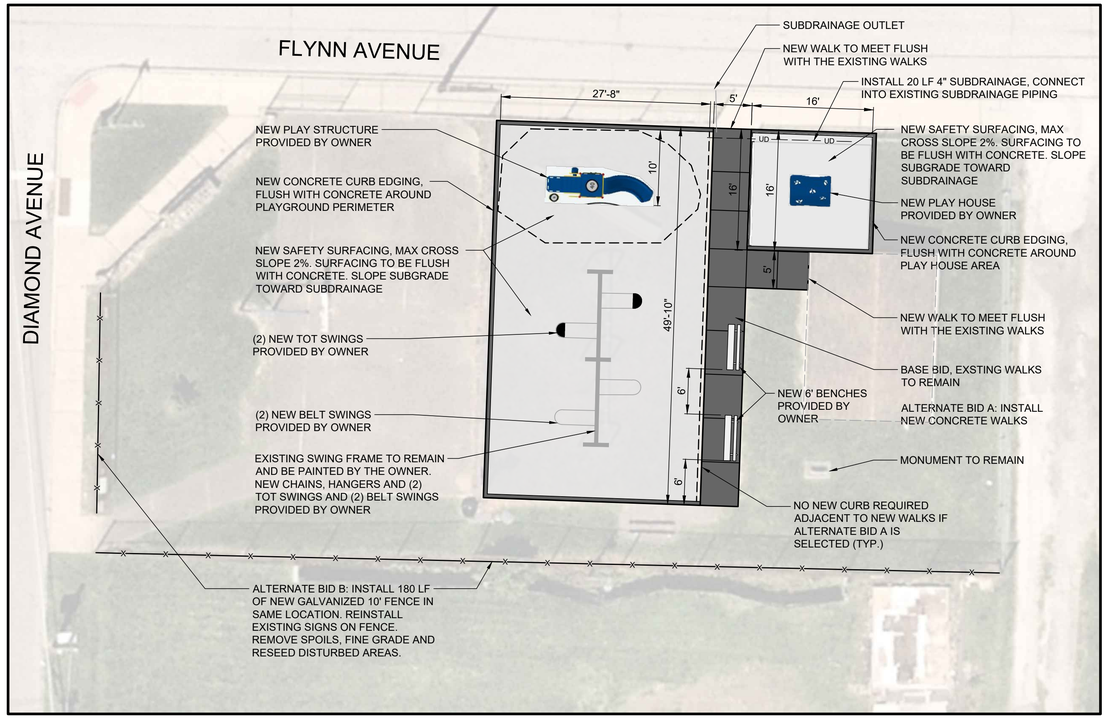
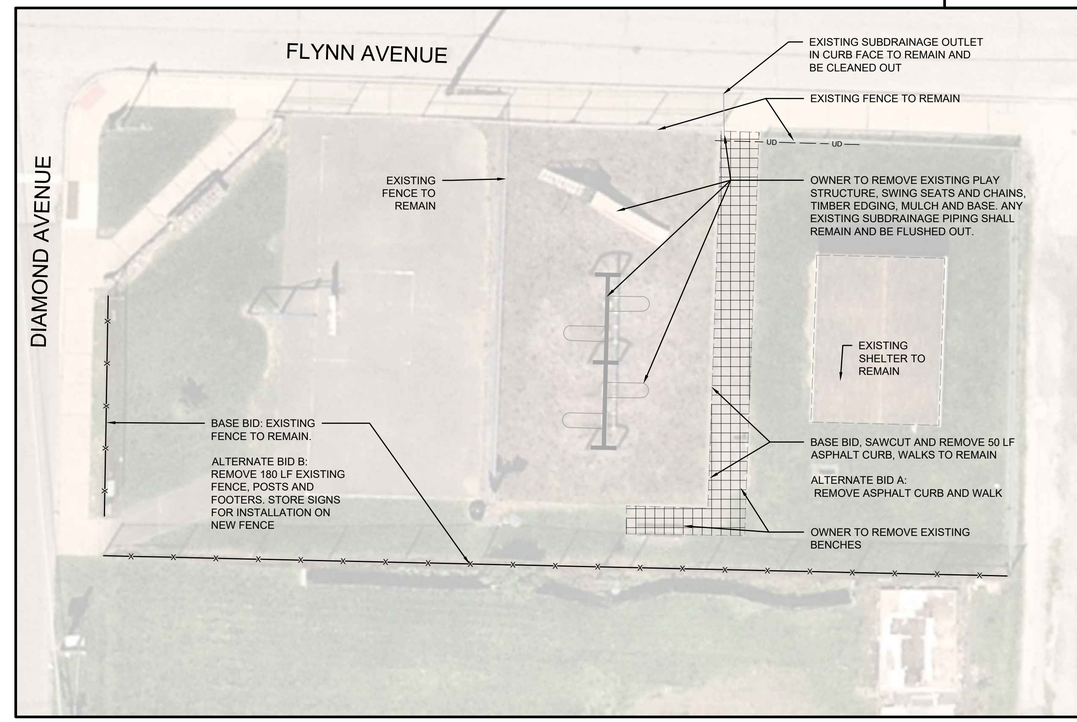


PLAYGROUND LAYOUT PLAN
SCALE: 1"=10'



DEMOLITION PLAN
SCALE: 1"=10'

PLAYGROUND EQUIPMENT
SCALE: NONE

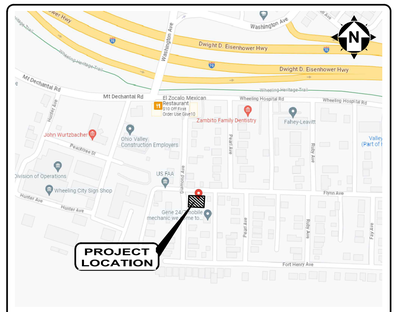
BAR SCALE
10' 5' 0' 10'
SCALE: 1"= 10'

Component No.	Description	Qty	User Cap	Ext. User Cap	Weight	Ext. Weight
	5-12 Structure					
Synergy						
072-0300-115C	3 1/2" OD X 115" CAPPED POST	2	0	0	42	84
072-0300-119C	3 1/2" OD X 119" CAPPED POST	2	0	0	44	88
290-0102	SQUARE PLATFORM	1	4	4	59	59
290-0110	CLIMBER ENCLOSURE	1	0	0	21	21
390-0148	TRANSFER STATION, HANDRAIL 40"	1	5	5	175	175
390-0155	TREE BRANCH CLIMBER 40"	1	2	2	15	15
490-0141	SLIDE SIT DOWN BAR	1	0	0	5	5
490-0186	MONACO SLIDE, 32"-40"	1	2	2	76	76
590-0122	DRUM CRESCENT PANEL	1	1	1	16	16
590-0153	CHIMES CRESCENT PANEL, RIGHT	1	1	1	17	17
590-0429	CLASSIC GAME PANEL	1	2	2	47	47
600-0104	NPPS SUPERVISION SAFETY KIT	1	0	0	3	3
660-0103	MAINTENANCE KIT, STRUCTURE	1	0	0	7	7
660-0104	INSTALLATION KIT, STRUCTURE	1	0	0	5	5
	5-12 Structure					
Burke Basics						
580-1364	LIL NOVO BEAN STEP	1	1	1	28	28
				Total User Capacity:	18	
				Total Weight:	646 lbs.	
				Total Price:	$9,898	
	Freestanding					
Burke Basics						
550-0099	TOT SEAT, 7' & 8' SINGLE, STD...	2	1	2	12	24
550-0111	BELT SEAT, 8' SINGLE, STD CHAIN	2	1	2	10	20
580-0172	6' PVC TRADITIONAL BENCH W/BA...	2	0	0	119	238
580-1373	PLAYHOUSE	1	8	8	360	360
660-0101	INSTALL KIT, BURKE BASICS - P...	1	0	0	2	2

CLATOR PLAYGROUND EQUIPMENT LIST
SCALE: NONE

LEGEND

- TURF SAFETY SURFACING
- PAVEMENT AND BASE REMOVAL
- CONCRETE SIDEWALK
- CHAINLINK FENCE



LOCATION MAP
NTS

NO	REVISION	DATE

your trusted advisor consultants engineers architects planners

ISSUED FOR:	FOR BID
ISSUE DATE:	02/07/24
SCALE:	AS SHOWN
DESIGNED BY:	RW
DRAWN BY:	CZ
CHECKED BY:	WH

CITY OF WHEELING
36TH ST, CLATOR AND ELM TERRACE PLAYGROUNDS
Wheeling,West Virginia, 26003
- OHIO COUNTY -

SITE IMPROVEMENT PLAN
CLATOR PLAYGROUND
20 DIAMOND AVE, WHEELING, WV

PROJECT NO. 232028
DISCIPLINE: LAND
SHEET NAME: SP-3
SHEET 3 OF 5

116813 PLAYGROUND EQUIPMENT

PART 1 - GENERAL

A. DESCRIPTION:
1. WORK INCLUDED: OWNER TO PROVIDE PLAYGROUND EQUIPMENT AS INDICATED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   a. PLAY STRUCTURES, SWINGS AND FURNISHINGS PROCUREMENT WILL BE BY THE OWNER.
   b. PLAY EQUIPMENT INSTALLATION WILL BE BY THE CONTRACTOR
   c. ALL WORK TO BE COORDINATED BY THE SITE CONTRACTOR WITH THE PLAYGROUND SUPPLIER.
   d. ALL WORK TO BE COORDINATED BY THE SITE CONTRACTOR WITH THE OWNER FOR EQUIPMENT DELIVERY TO THE SITE.

B. QUALITY ASSURANCE
1. MANUFACTURER'S QUALIFICATIONS: PROVIDE PLAYGROUND EQUIPMENT AND MANUFACTURED BY A FIRM WITH A MINIMUM OF 10 YEARS EXPERIENCE IN MANUFACTURING EQUIPMENT THAT IS SIMILAR TO THAT INDICATED AND THAT HAS A RECORD OF SUCCESSFUL PERFORMANCE.

2. INSTALLER QUALIFICATIONS:
   a. THE CONTRACTOR SHALL HAVE A MINIMUM OF FIVE (5) YEARS EXPERIENCE RELATED TO THE WORK INDICATED BY THESE SPECIFICATIONS. SUBMIT A LIST OF A MINIMUM OF FIVE (5) PROJECTS ATTACHED TO THE BID, ALONG WITH PROJECT AMOUNTS, NAMES AND TELEPHONE NUMBERS OF OWNER'S REPRESENTATIVE.
   b. CONTRACTOR IS TO BE A CERTIFIED INSTALLER OF PRODUCT SPECIFIED.\
   c. ENGAGE AN EXPERIENCED INSTALLER WHO IS APPROVED BY MANUFACTURER FOR BOTH INSTALLATION AND SERVICE OF THE TYPE OF EQUIPMENT REQUIRED FOR THIS PROJECT.
   d. PROVIDE AT LEAST ONE PERSON WHO SHALL BE PRESENT AT ALL TIMES DURING EXECUTION OF THIS PORTION OF THE WORK AND WHO SHALL BE THOROUGHLY FAMILIAR WITH THE TYPE OF MATERIALS BEING INSTALLED AND MATERIAL MANUFACTURER'S RECOMMENDED METHODS OF INSTALLATION AND WHO SHALL DIRECT ALL WORK PERFORMED UNDER THIS SECTION.
   e. INSTALLER SHALL BE CERTIFIED BY THE MANUFACTURER FOR THEIR PLAYGROUND EQUIPMENT INSTALLATION.
   f. ALL CREW LEADERS SHALL BE CERTIFIED PLAYGROUND SAFETY INSPECTORS.

3. ALL PRODUCTS, EQUIPMENT AND INSTALLATION SHALL MEET THE STANDARDS OF U.S. CONSUMER PRODUCTS SAFETY COMMISSION, HANDBOOK FOR PUBLIC PLAYGROUND SAFETY AND ASTM 1487-07A-E1 STANDARDS. ALL MANUFACTURER'S PRODUCT DATA SHALL INDICATE COMPLIANCE WITH THESE REQUIREMENTS.

4. MANUFACTURER SHALL BE ISO 9001/2008 CERTIFIED.

5. MANUFACTURER SHALL SHOW IPEMA CERTIFICATION OF COMPLIANCE FOR EACH COMPONENT THAT THE PRODUCT CONFORMS WITH THE REQUIREMENTS OF ASTM F1487-07AE1.

C. SUBMITTALS:
1. SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION FOR APPROVAL BY THE PROJECT ARCHITECT PRIOR TO FABRICATION. SUBMIT SHOP DRAWINGS AND PRODUCT DATA SHOWING EXACT TYPES OF EQUIPMENT, CONFIGURATIONS AND COLORS AS INDICATED ON DRAWINGS AND SPECIFIED. COLORS SHALL BE SUBMITTED TO OWNER FOR REVIEW AND APPROVAL PRIOR TO ORDERING FURNISHINGS AND EQUIPMENT.

D. PRODUCT HANDLING:
1. MATERIALS SHALL BE PACKED, LOADED, SHIPPED, UNLOADED, STORED AND PROTECTED IN A MANNER WHICH WILL AVOID ABUSE, DAMAGE AND DEFACEMENT.

PART 2 - PRODUCTS

A. MATERIALS:
1. PLAYGROUND EQUIPMENT BASIS OF DESIGN COMPLYING WITH THE PROJECT REQUIREMENTS SHALL BE MANUFACTURED BY BURKE, DISTRIBUTED BY RECREATION RESOURCE USA, 800-220-4402 UNLESS NOTED.

2. MODEL NAMES AND NUMBERS INDICATED ON EQUIPMENT SCHEDULE ON DRAWINGS REFERRING TO A SPECIFIC MANUFACTURER ARE INCLUDED FOR COMPARISON PURPOSES ONLY. EQUIVALENT PRODUCTS, MEETING PROJECT REQUIREMENTS SHALL BE JUDGED BY COMPARISON WITH THESE PRODUCTS FOR APPROVAL BY THE OWNER.

3. PLAY EQUIPMENT AND DETAILED CHARACTERISTICS. REFER TO PLANS FOR DETAILED PLAY EQUIPMENT LIST.
   a. 36TH STREET PLAYGROUND PROPOSAL #56-175624-1
      1) BURKE PLAY EQUIPMENT SYNERGY SY-2915
      2) BURKE MOLDED RUBBER SWING SEAT WITH PVC COATED CHAIN AND NEW CLAMPS AND HOOKS.
      3) BURKE MOLDED RUBBER TOT SWING WITH PVC COATED CHAIN AND NEW CLAMPS AND HOOKS.
   b. CLATOR PLAYGROUND PROPOSAL #56-174563-2
      1) BURKE PLAY EQUIPMENT SYNERGY 5-12 STRUCTURE
      2) 2 BURKE MOLDED RUBBER SWING SEAT WITH PVC COATED CHAIN AND NEW CLAMPS AND HOOKS.
      3) 2 BURKE MOLDED RUBBER TOT SWING WITH PVC COATED CHAIN AND NEW CLAMPS AND HOOKS.
      4) PLAY HOUSE
   c. ELM TERRACE PLAYGROUND PROPOSAL #56-175520-1
      1) BURKE PLAY EQUIPMENT NATURE PLAY NUNP-2751
      2) BURKE MOLDED RUBBER SWING SEAT WITH PVC COATED CHAIN AND NEW CLAMPS AND HOOKS.
      3) BURKE MOLDED RUBBER TOT SWING WITH PVC COATED CHAIN AND NEW CLAMPS AND HOOKS.

PART 3 - EXECUTION

A. INSTALLATION
3. COMPLY WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND AS INDICATED ON THE DRAWINGS AND THESE SPECIFICATIONS. ALL PRODUCTS AND EQUIPMENT SHALL BE INSTALLED TO COMPLY WITH REFERENCED SAFETY STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS.
4. EXCAVATE HOLES FOR POSTS AND FOOTINGS AS INDICATED IN FIRM, UNDISTURBED OR COMPACTED SUBGRADE SOIL. ANCHOR VERTICAL FRAMES IN EXCAVATION MINIMUM FOUR FOOT BELOW GRADE TO A DEPTH AND DIAMETER INDICATED BY MANUFACTURER'S INSTRUCTIONS.
5. POSTS SET WITH CONCRETE FOOTING TO BE A MINIMUM OF 36" DEEP. PLACE CONCRETE AROUND POSTS AND VIBRATE OR TAMP FOR CONSOLIDATION. HOLD POSTS IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS UNTIL CONCRETE IS SUFFICIENTLY CURED. CONCRETE PER WVDOH.
6. EMBEDDED ITEMS: USE SETTING DRAWINGS AND MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE CORRECT INSTALLATION OF ANCHORAGES FOR EQUIPMENT.
7. INSTALL ALL EQUIPMENT PLUMB, LEVEL AND SECURE. ADJUST HARDWARE AND MOVING PARTS; TEST FOR PROPER OPERATION AND LUBRICATE WHERE NECESSARY.
8. PREPARE SURFACING, BASE AND EDGING AND INSTALL SURFACING PER MANUFACTURER'S SPECIFICATIONS. ADHERE TO EDGING AND SURFACES TO PROVIDE A SECURE SURFACING WITH EDGES THAT ARE FLUSH WITH ADJOINING SURFACES SO NOT TO IMPEDE WHEELCHAIR ACCESS.
9. INSTALLATION IS TO INCLUDE ANY SAW_CUTTING OF EXISTING PAVEMENTS, FOOTERS, EXCAVATING FOR FOOTERS, AND ALL APPURTENANCES REQUIRED TO INSTALL SITE FURNISHINGS AS PER MANUFACTURER'S SPECIFICATIONS, AND CONTRACT DOCUMENTS.

B. FIELD QUALITY CONTROL
1. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSTALL, SUPERVISE, INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS.
2. INSPECTIONS: FOR PLAYGROUND EQUIPMENT AND COMPONENTS AT FINAL COMPLETION AND TO CERTIFY COMPLIANCE WITH ASTM F 1487 AND CPSC NO. 325.

C. PROTECTION:
PROTECT FURNISHINGS FROM OTHER CONSTRUCTION RELATED ACTIVITY. WRAP WITH PLASTIC TO PROTECT FINISH.

D. CLEAN-UP:
1. UPON COMPLETION OF THE WORK ALL EXCESS MATERIALS AND DEBRIS WHICH HAS NOT PREVIOUSLY BEEN CLEANED UP SHALL BE REMOVED FROM THE SITE OR DISPOSED OF AS DIRECTED BY THE ARCHITECT.
2. PROTECT WORK AND MATERIALS FROM DAMAGE DUE TO OPERATIONS BY OTHER CONTRACTORS, TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS.
   a. TREAT, REPAIR OR REPLACE DAMAGED WORK AS DIRECTED.

E. WARRANTY:
1. PLAYGROUND EQUIPMENT WARRANTY. MANUFACTURER SHALL PROVIDE OWNER WITH WARRANTY INFORMATION.
2. PROVIDE THE OWNER WITH ALL MAINTENANCE AND OPERATION MANUALS.

321816 PLAYGROUND SURFACING

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES: POURED-IN-PLACE PLAYGROUND SURFACING SYSTEM:

B. RELATED SECTIONS: DIVISION 2 SITE WORK SECTIONS: MATERIALS AND METHODS, EXCAVATION, ASPHALT PAVING, SUB-DRAINAGE, STORM, PLAYGROUND EQUIPMENT AND STRUCTURES.

C. CONTRACTOR TO BE RESPONSIBLE FOR SAFETY SURFACING PURCHASE AND INSTALLATION COMPLETE.

1.02 REFERENCES

A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
1. ASTM D412 STANDARD TEST METHODS FOR VULCANIZED RUBBER AND THERMOPLASTIC RUBBERS AND THERMOPLASTIC ELASTOMERS-TENSION.
2. ASTM D624 STANDARD TEST METHOD FOR TEAR STRENGTH OF CONVENTIONAL VULCANIZED RUBBER AND THERMOPLASTIC ELASTOMERS.
3. ASTM D2047 STANDARD TEST METHOD FOR STATIC COEFFICIENT OF FRICTION OF POLISH-COATED FLOOR SURFACES AS MEASURED BY THE JAMES MACHINE.
4. ASTM D2859 STANDARD TEST METHOD FOR FLAMMABILITY OF FINISHED TEXTILE FLOOR COVERING MATERIALS.
5. ASTM E303 STANDARD TEST METHOD FOR MEASURING SURFACE FRICTIONAL PROPERTIES USING THE BRITISH PENDULUM TESTER.
6. ASTM F1292 STANDARD SPECIFICATION FOR IMPACT ATTENUATION OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.
7. ASTM F1951 STANDARD SPECIFICATION FOR DETERMINATION OF ACCESSIBILITY OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.

1.03 SYSTEM DESCRIPTION

A. PERFORMANCE REQUIREMENTS: PROVIDE A 2-LAYER RUBBER-URETHANE PLAYGROUND SURFACING SYSTEM WHICH HAS BEEN DESIGNED, MANUFACTURED AND INSTALLED TO MEET THE FOLLOWING CRITERIA:
1. SHOCK ATTENUATION (ASTM F1292):
   a. GMAX: LESS THAN 200.
   b. HEAD INJURY CRITERIA: LESS THAN 1000.
2. FLAMMABILITY (ASTM D2859): PASS.
3. TENSILE STRENGTH (ASTM D412): 60 PSI (413 KPA).
4. TEAR RESISTANCE (ASTM D624): 140%.
5. WATER PERMEABILITY: 0.4 GAL/YD2/SECOND.
6. ACCESSIBILITY: COMPLY WITH REQUIREMENTS OF ASTM F1951.

1.04 SUBMITTALS

A. GENERAL: SUBMIT LISTED SUBMITTALS IN ACCORDANCE WITH CONDITIONS OF THE CONTRACT AND DIVISION 1 SUBMITTAL PROCEDURES SECTION.

B. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS.

C. VERIFICATION SAMPLES: SUBMIT MANUFACTURER'S STANDARD VERIFICATION AND COLOR SAMPLES FOR OWNER APPROVAL.

D. QUALITY ASSURANCE/CONTROL SUBMITTALS: SUBMIT THE FOLLOWING:
1. CERTIFICATE OF QUALIFICATIONS OF THE PLAYGROUND SURFACING INSTALLER.

E. CLOSEOUT SUBMITTALS: SUBMIT THE FOLLOWING:
1. WARRANTY DOCUMENTS SPECIFIED HEREIN.

1.05 QUALITY ASSURANCE

A. QUALIFICATIONS: UTILIZE AN INSTALLER APPROVED AND TRAINED BY THE MANUFACTURER OF THE PLAYGROUND SURFACING SYSTEM, HAVING EXPERIENCE WITH OTHER PROJECTS OF THE SCOPE AND SCALE OF THE WORK DESCRIBED IN THIS SECTION.

B. CERTIFICATIONS: CERTIFICATION BY MANUFACTURER THAT INSTALLER IS AN APPROVED APPLICATOR OF THE PLAYGROUND SURFACING SYSTEM.

C. INTERNATIONAL PLAY EQUIPMENT MANUFACTURERS ASSOCIATION (IPEMA) CERTIFIED.

1.06 DELIVERY, STORAGE & HANDLING

A. GENERAL: COMPLY WITH DIVISION 1 PRODUCT REQUIREMENT SECTION.

B. DELIVERY: DELIVER MATERIALS IN MANUFACTURER'S ORIGINAL, UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT.

C. STORAGE AND PROTECTION: STORE MATERIALS PROTECTED FROM EXPOSURE TO HARMFUL ENVIRONMENTAL CONDITIONS AND AT A MINIMUM TEMPERATURE OF 40 DEGREES F (4 DEGREES C) AND A MAXIMUM TEMPERATURE OF 90 DEGREES F (32 DEGREES C).

1.07 PROJECT/SITE CONDITIONS

A. ENVIRONMENTAL REQUIREMENTS: INSTALL SURFACING SYSTEM WHEN MINIMUM AMBIENT TEMPERATURE IS 40 DEGREES F (1 DEGREE C) AND MAXIMUM AMBIENT TEMPERATURE IS 90 DEGREES F (32 DEGREES C). DO NOT INSTALL IN STEADY OR HEAVY RAIN.

1.08 WARRANTY

A. PROJECT WARRANTY: REFER TO CONDITIONS OF THE CONTRACT FOR PROJECT WARRANTY PROVISIONS.

B. MANUFACTURER'S WARRANTY: SUBMIT, FOR OWNER'S ACCEPTANCE, MANUFACTURER'S STANDARD WARRANTY DOCUMENT EXECUTED BY AUTHORIZED COMPANY OFFICIAL. MANUFACTURER'S WARRANTY IS IN ADDITION TO, AND NOT A LIMITATION OF, OTHER RIGHTS OWNER MAY HAVE UNDER CONTRACT DOCUMENTS.

C. PROPER DRAINAGE IS CRITICAL TO THE LONGEVITY OF THE POURED-IN-PLACE SURFACING SYSTEM. INADEQUATE DRAINAGE WILL CAUSE PREMATURE BREAKDOWN OF THE POURED SYSTEM IN AFFECTED AREAS; AND VOID THE WARRANTY.

1. WARRANTY PERIOD: SUPER-7 (WHEN AROMATIC URETHANE FOR THE TOP SURFACE IS SPECIFIED): 7 YEARS FROM DATE OF COMPLETION OF WORK. EXTREME-10 (WHEN ALIPHATIC URETHANE FOR THE TOP SURFACE IS SPECIFIED): 10 YEARS FROM DATE OF COMPLETION OF WORK.

PART 2 - PRODUCTS

2.01 POURED-IN-PLACE PLAYGROUND SURFACING SYSTEM

A. MANUFACTURER: SURFACE AMERICA, INC. OR APPROVED EQUAL.
1. SURFACING DISTRIBUTED BY RECREATION RESOURCE USA 800-220-4402 UNLESS NOTED.
2. SURFACE AMERICA, INC. PO BOX 157, WILLIAMSVILLE, NY 14231; TELEPHONE: (800) 999-0555

B. PROPRIETARY PRODUCTS/SYSTEMS. POURED-IN-PLACE PLAYGROUND SURFACING SYSTEM, INCLUDING THE FOLLOWING:
1. PLAYBOUND POURED-IN-PLACE PRIMER:
   a. MATERIAL: URETHANE.
2. PLAYBOUND POURED-IN-PLACE BASEMAT:
   a. MATERIAL: BLEND OF 100% RECYCLED SBR (STYRENE BUTADIENE RUBBER) AND URETHANE.
   b. THICKNESS: VERIFY CRITICAL FALL HEIGHT WITH EQUIPMENT SUPPLIER, [1 1/4" (31.75 MM) FOR 4' CRITICAL FALL HEIGHT] [2" (51 MM) FOR 5' CRITICAL FALL HEIGHT] [2 1/2" (64 MM) FOR 6' AND 7' CRITICAL FALL HEIGHTS] [3" (76 MM) FOR 8' CRITICAL FALL HEIGHT] [3 1/2" (89 MM) FOR 9' CRITICAL FALL HEIGHT] [4" (102 MM) FOR 10' CRITICAL FALL HEIGHT] [5" (127 MM) FOR 12' CRITICAL FALL HEIGHT] [6" (152 MM) FOR 13' CRITICAL FALL HEIGHT].
   c. FORMULATION COMPONENTS: BLEND OF STRAND AND GRANULAR MATERIAL.
3. PLAYBOUND POURED-IN-PLACE TOP SURFACE:
   a. MATERIAL: BLEND OF VIRGIN EPDM (ETHYLENE PROPYLENE DIENE MONOMER) RUBBER OR TPV GRANULE AND AROMATIC OR ALIPHATIC URETHANE BINDER.
   b. THICKNESS: NOMINAL 1/2" (12.7 MM), MINIMUM 3/8" (9.5 MM), MAXIMUM 5/8" (15.9 MM).
   c. COLOR: STANDARD 2 COLOR BLEND 50%BLACK & 50% STANDARD COLOR MIX WITH MANUFACTURER RECOMMENDED ALIPHATIC URETHANE BINDER. COLOR TO BE SELECTED AND APPROVED BY OWNER.
   d. DRY STATIC COEFFICIENT OF FRICTION (ASTM D2047): 1.0.
   e. WET STATIC COEFFICIENT OF FRICTION (ASTM D2047): 0.9.
   f. DRY SKID RESISTANCE (ASTM E303): 89.
   g. WET SKID RESISTANCE (ASTM E303): 57.

2.02 MIXES

A. REQUIRED MIX PROPORTIONS BY WEIGHT:
1. BASEMAT: 16+% URETHANE (AS RATIO: 14% URETHANE DIVIDED BY 86% RUBBER). 14% URETHANE, 86% RUBBER (BASED ON ENTIRE RUBBER & URETHANE MIX).
2. TOP SURFACE: 22% URETHANE (RATIO: 18% URETHANE DIVIDED BY 82% RUBBER). 18% URETHANE, 82% RUBBER (BASED ON ENTIRE RUBBER & URETHANE MIX).

PART 3 - EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

A. COMPLY WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE PLAYGROUND SURFACING MANUFACTURER.

B. SURFACING TO BE INSTALLED ON AGGREGATE BASE.

3.02 EXAMINATION

A. SUBSTRATE PREPARATION MUST BE IN ACCORDANCE WITH SURFACING MANUFACTURER'S SPECIFICATION.

B. PROPER DRAINAGE IS CRITICAL TO THE LONGEVITY OF THE POURED-IN-PLACE SURFACING SYSTEM. VERIFY IS EXISTING SUBDRAINGE EXISTS AND THAT IT IS FUNCTIONING.

3.03 PREPARATION

A. SURFACE PREPARATION: USING A BRUSH OR SHORT NAP ROLLER, APPLY PRIMER TO THE SUBSTRATE PERIMETER AND ANY ADJACENT VERTICAL BARRIERS SUCH AS PLAYGROUND EQUIPMENT SUPPORT LEGS, CURBS OR SLABS THAT WILL CONTACT THE SURFACING SYSTEM AT THE RATE OF 300 FT2/GAL (7.5 M2/L).

3.04 INSTALLATION

A. DO NOT PROCEED WITH PLAYGROUND SURFACING INSTALLATION UNTIL ALL APPLICABLE SITE WORK, INCLUDING SUBSTRATE PREPARATION, FENCING, PLAYGROUND EQUIPMENT INSTALLATION AND OTHER RELEVANT WORK, HAS BEEN COMPLETED.

B. BASEMAT INSTALLATION:
1. USING SCREEDS AND HAND TROWELS, INSTALL THE BASEMAT AT A CONSISTENT DENSITY OF 29 POUNDS, 1 OUNCE PER CUBIC FOOT (466 KG/M3) TO THE SPECIFIED THICKNESS.
2. ALLOW BASEMAT TO CURE FOR SUFFICIENT TIME SO THAT INDENTATIONS ARE NOT LEFT IN THE BASEMAT FROM APPLICATOR FOOT TRAFFIC OR EQUIPMENT.
3. DO NOT ALLOW FOOT TRAFFIC OR USE OF THE BASEMAT SURFACE UNTIL IT IS SUFFICIENTLY CURED.

C. PRIMER APPLICATION: USING A BRUSH OR SHORT NAP ROLLER, APPLY PRIMER TO THE BASEMAT PERIMETER AND ANY ADJACENT VERTICAL BARRIERS SUCH AS PLAYGROUND EQUIPMENT SUPPORT LEGS, CURBS OR SLABS THAT WILL CONTACT THE SURFACING SYSTEM AT THE RATE OF 300 FT2/GAL (7.5 M2/L).

D. TOP SURFACE INSTALLATION:
1. USING A HAND TROWEL, INSTALL TOP SURFACE AT A CONSISTENT DENSITY OF 58 POUNDS, 9 OUNCES PER CUBIC FOOT (938 KG/M3) TO A NOMINAL THICKNESS OF 1/2" (12.7 MM).
2. ALLOW TOP SURFACE TO CURE FOR A MINIMUM OF 48 HOURS.
3. AT THE END OF THE MINIMUM CURING PERIOD, VERIFY THAT THE TOP SURFACE IS SUFFICIENTLY DRY AND FIRM TO ALLOW FOOT TRAFFIC AND USE WITHOUT DAMAGE TO THE SURFACE.
4. DO NOT ALLOW FOOT TRAFFIC OR USE OF THE SURFACE UNTIL IT IS SUFFICIENTLY CURED.

3.05 PROTECTION

A. PROTECT THE INSTALLED PLAYGROUND SURFACE FROM DAMAGE RESULTING FROM SUBSEQUENT CONSTRUCTION ACTIVITY ON THE SITE.

129300 SITE FURNISHINGS

PART 1 - GENERAL

A. DESCRIPTION:
1. THIS SECTION COVERS THE FABRICATION, FURNISHING, AND INSTALLATIONS OF SITE FURNISHINGS.
2. FURNISHINGS PROCUREMENT BY THE OWNER.
3. FURNISHING INSTALLATION BY THE CONTRACTOR.
4. ALL WORK TO BE COORDINATED BY THE SITE CONTRACTOR WITH THE OWNER FOR DELIVERY TO THE SITE.
5. THE WORK INCLUDES:
   a. PLAYGROUND BENCHES

B. QUALITY ASSURANCE:
1. COMPLY WITH THE GENERAL CONTRACT PROVISIONS AND SECTIONS OF DIVISION I.

C. SUBMITTALS:
1. MANUFACTURERS AS LISTED BELOW OR APPROVED EQUAL BY ARCHITECT.
2. SUBMIT MANUFACTURER PRODUCT DATA, SHOP DRAWINGS, SAMPLE OF MATERIAL AND FINISH COLOR FOR EACH PRODUCT.

D. PRODUCT DELIVERY AND STORAGE:
1. DELIVER ALL MATERIALS TO THE SITE IN MANUFACTURER'S UNOPENED, ORIGINAL PACKAGE WITH SEAL UNBROKEN AND LABELS INTACT. KEEP ALL CARTONS DRY.

PART II - PRODUCTS

A. MATERIALS:
1. 6' PVC BENCH AS MANUFACTURED BY BURKE. PRODUCTS OF SIMILAR DESIGN, MATERIALS AND CONSTRUCTION OR APPROVED EQUAL.
2. MODEL 580-0172
3. BENCH SEAT AND POST COLOR TO BE SELECTED AND APPROVED BY OWNER.
4. INSTALL IN 10" DIA X36" DEEP CONCRETE FOOTERS, SET TOP OF FOOTER BELOW POURED IN PLACE SAFETY SURFACING.

PART III - EXECUTION

A. INSTALLATION AND LAYOUT:

1. INSTALL ALL ITEMS AS DETAILED BY THE DRAWINGS, SPECIFICATIONS AND PER THE MANUFACTURER'S.RECOMMENDATIONS.
2. CONTRACTOR SHALL BE REQUIRED TO CONTACT THE MANUFACTURER'S LOCAL REPRESENTATIVE WITH ANY INSTALLATION QUESTIONS.
3. LOCATE AND LAYOUT ALL SITE FURNISHINGS AND OBTAIN ARCHITECT'S OR OWNER'S ACCEPTANCE PRIOR TO INSTALLATION.
4. COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. COMPLETE FIELD ASSEMBLY OF SITE FURNISHINGS WHERE REQUIRED.
5. UNLESS OTHERWISE INDICATED, INSTALL SITE FURNISHINGS AFTER LANDSCAPING AND PAVING HAVE BEEN COMPLETED.
6. INSTALL SITE FURNISHINGS LEVEL, PLUMB, TRUE AT LOCATIONS INDICATED ON DRAWINGS.
7. POST SETTING: SET CAST-IN SUPPORT POSTS IN CONCRETE FOOTING WITH SMOOTH TOP, SHAPED TO SHED WATER. PROTECT PORTION OF POSTS ABOVE FOOTING FROM CONCRETE SPLATTER. VERIFY THAT POSTS ARE SET PLUMB OR AT CORRECT ANGLE AND ARE ALIGNED AND AT CORRECT HEIGHT AND SPACING. HOLD POSTS IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS UNTIL CONCRETE IS SUFFICIENTLY CURED.

B. PROTECTION:
PROTECT FURNISHINGS FROM OTHER CONSTRUCTION RELATED ACTIVITY. WRAP WITH PLASTIC TO PROTECT FINISH.

C. CLEAN-UP:
1. UPON COMPLETION OF THE WORK ALL EXCESS MATERIALS AND DEBRIS WHICH HAS NOT PREVIOUSLY BEEN CLEANED UP SHALL BE REMOVED FROM THE SITE OR DISPOSED OF AS DIRECTED BY THE ARCHITECT.

2. PROTECT WORK AND MATERIALS FROM DAMAGE DUE TO OPERATIONS BY OTHER CONTRACTORS, TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED WORK AS DIRECTED.

your trusted advisor
consultants
engineers
architects
planners

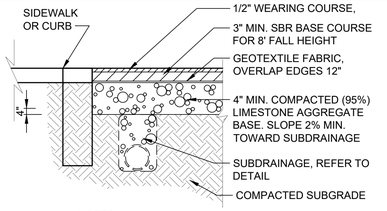
NO	REVISION	DATE

ISSUED FOR:	FOR BID
ISSUE DATE:	02/07/24
SCALE:	AS SHOWN
DESIGNED BY:	RW
DRAWN BY:	CZ
CHECKED BY:	MM

CITY OF WHEELING
36TH ST, CLATOR AND ELM TERRACE PLAYGROUNDS
Wheeling,West Virginia, 26003
- OHIO COUNTY -

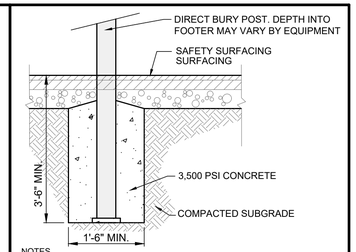
SPECIFICATIONS

PROJECT NO.	232028
DISCIPLINE	LAND
SHEET NAME	SP-4
SHEET	4
OF	5



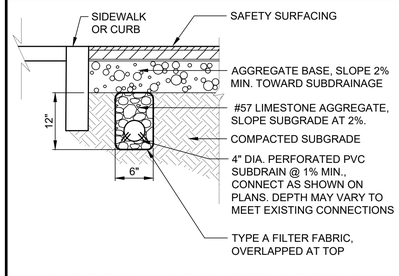
NOTES:
1. REFER TO SPECIFICATIONS FOR SURFACING INFORMATION.
2. VERIFY FALL HEIGHT WITH MANUF.

SAFETY SURFACE
NOT TO SCALE

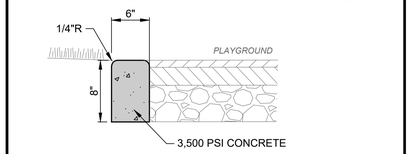


NOTES
1. REFER TO MANUFACTURERS FOOTER CHART FOR FOOTER SIZING.

EQUIPMENT POST FOOTER
SCALE: NONE

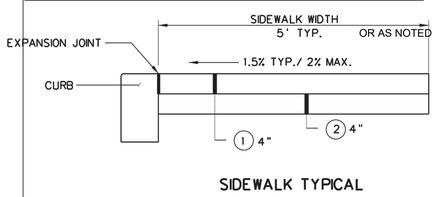


SUBDRAINAGE SYSTEM DETAIL
NOT TO SCALE



NOTES:
1. INSTALL 1/2" PREFORMED JOINT MATERIAL AND USE DOWELS INTO COLD JOINTS TOP AND BOTTOM WHERE NEW CURB MEETS EXISTING CURB.
2. PROVIDE CONTRACTION JOINTS AT 10' O.C.
3. APPLY LIQUID-MEMBRANE CURING COMPOUND.

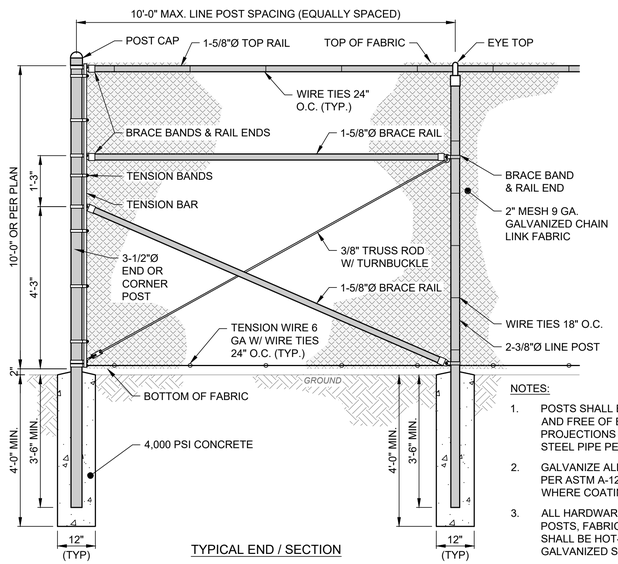
FLUSH CURB DETAIL
SCALE: NONE



1 CONCRETE SIDEWALK ITEM 609001 S.Y.
2 BED COURSE MATERIAL ITEM 609002 C.Y.

SIDEWALK TYPICAL

CONCRETE SIDEWALK DETAIL
SCALE: NONE



NOTES:
1. POSTS SHALL BE SMOOTH, WATER TIGHT, AND FREE OF BURRS AND SHARP PROJECTIONS FABRICATED FROM SCH. 40 STEEL PIPE PER ASTM A-53.
2. GALVANIZE ALL PIPES AFTER FABRICATION PER ASTM A-123. RE-GALVANIZE AREAS WHERE COATING IS DAMAGED.
3. ALL HARDWARE, CONNECTORS, BOLTS, POSTS, FABRIC, NUTS, WASHERS, ETC. SHALL BE HOT-DIPPED ZINC COATED GALVANIZED STEEL PER ASTM A653.
4. PLACE FABRIC ON OUTSIDE OF SERVICE AREA [OR INSIDE OF PLAY AREA].

10' CHAIN LINK FENCE DETAIL
SCALE: NONE

GENERAL NOTES

1. **SPECIFICATIONS:** THE LATEST EDITION OF THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS (WV DOH) STANDARD SPECIFICATIONS SHALL GOVERN THIS IMPROVEMENT, EXCEPT WHERE NOTED.

2. **ITEM 207: UNCLASSIFIED EXCAVATION, AS PER PLAN:** IF ROCK IS ENCOUNTERED WHEN EXCAVATING AS PART OF OTHER WORK OUTLINED IN THE PLANS AND SPECIFICATIONS, THIS ITEM IS INCLUDED AS A CONTINGENCY ITEM TO COVER ALL MEANS REQUIRED FOR THE REMOVAL OF THE ROCK AND REPLACEMENT WITH AGGREGATE MATERIAL. ALL WORK, LABOR, MATERIAL, AGGREGATE, EQUIPMENT, DISPOSAL/HAULING AND EXCAVATION SHALL BE INCLUDED WITH THIS PAY ITEM.

3. **ITEM 652: SEEDING AND MULCHING, AS PER PLAN:** THIS WORK SHALL COVER ALL OPERATIONS INCIDENTAL TO THE ESTABLISHMENT OF GRASS AND LEGUME VEGETATION, INCLUDING THE FURNISHING AND SOWING OF SEED, FURNISHING AND APPLYING FERTILIZER, WATERING, AGRICULTURAL LIMESTONE, AND MULCH MATERIAL, ALL IN ACCORDANCE WITH THE ITEM 652, AND PAID FOR ON A LUMP SUM (LS) BASIS.

4. **ITEM SPECIAL - ASPHALT PATH REPAIR IN KIND:** WORK IS TO BE PAID FOR ON A PER SQUARE YARD (SQ YD) BASIS. ALL WORK, LABOR, MATERIAL, DISPOSAL, AGGREGATE, EQUIPMENT, AND EXCAVATION SHALL BE INCLUDED WITH THIS PAY ITEM.

5. **ITEM SPECIAL - CONCRETE WALK REPAIR IN KIND:** WORK IS TO BE PAID FOR ON A PER SQUARE YARD (SQ YD) BASIS. ALL WORK, LABOR, MATERIAL, DISPOSAL, AGGREGATE, EQUIPMENT, AND EXCAVATION SHALL BE INCLUDED WITH THIS PAY ITEM.

6. DOCUMENTATION OF SITE - THE CONTRACTOR SHALL VIDEO RECORD THE PROJECT SITE PRIOR TO START OF ACTIVITIES, VIDEO SHALL BE PERFORMED BY EXPERIENCED STAFF AND SHOULD DOCUMENTS CONDITION OF EXISTING PUBLIC AND PRIVATE PROPERTY ALONG THE PROJECT CORRIDOR/SITE. VIDEO SHOULD BE TAKEN IN BOTH DIRECTIONS AND AT A SPEED TO ALLOW OBSERVATION OF EXITING CONDITION OF EXISTING SURFACES AND STRUCTURES. TIME OF POOR LIGHTING, LOW LIGHTING, SHADOWS SHOULD BE AVOID. CONTRACTOR SHALL PROVIDE ONE COPY OF VIDEO TO ENGINEER AND OWNER IN ELECTRONIC FORM ON USB MEMORY DEVICE.

7. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION.

8. TWENTY-FOUR (24) HOUR ADVANCE NOTIFICATION IS REQUIRED FOR ALL WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE ENGINEER.

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND VERIFY THE EXTENT OF THE WORK TO BE PERFORMED PRIOR TO MAKING HIS BID, INCLUDING BUT NOT LIMITED TO THE REMOVAL OF ANY AND ALL ITEMS.

10. THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTOR SHALL ALSO ABIDE BY ALL CITY ORDINANCES AND STATE/FEDERAL LAWS THE CONTRACTORS AND ALL SUBCONTRACTORS SHALL SUBMIT THEIR SAFETY PLANS PRIOR TO CONSTRUCTION. A COMPLETE SET OF PLANS, SPECIFICATIONS AND SAFETY PLAN MUST BE ON THE JOB SITE AT ALL TIMES AND AVAILABLE FOR VIEWING.

11. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL CLEARANCES EXIST PER THE APPROVED PLANS. THE CONTRACTOR SHALL CALL, TOLL FREE, THE WEST VIRGINIA 811OR 1-800-245-4848 (WEB SITE WWW.WV811.COM) FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.

13. WHERE POTENTIAL CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF LAYING PIPE OR DUCT FOR THE EOR TO DETERMINE THE EXACT ELEVATION AND MAKE ANY NECESSARY ADJUSTMENTS. COST OF THE ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THE CONTRACT.

14. ALL FIELD TILES BROKEN DURING EXCAVATION SHALL BE REPLACED BY THE CONTRACTOR TO ORIGINAL CONDITION OR CONNECTED TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE BID ITEMS.

15. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION PRIOR TO THE DAMAGE, AT THE CONTRACTOR'S OWN EXPENSE. ALL SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO OTHER UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE APPROPRIATE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

16. ANY EXISTING UTILITY (GAS, ELECTRIC, CABLE TELEVISION, TELEPHONE, WATER LINE, STORM OR SANITARY APPURTENANCE, ETC.) IN OR OUTSIDE THE CONSTRUCTION LIMITS DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE UTILITY.

17. THE UTILITY WILL ONLY LOCATE AND MARK MAIN LINE SEWERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERALS WHETHER SHOWN ON THE PLAN OR NOT.

18. THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL CONSTRUCTION DEBRIS INCLUDING BUT NOT LIMITED TO EXCESS SOIL, ROCK, OR ANY OTHER TYPE MATERIALS. THE CONTRACTOR SHALL NOT FILL ANY WETLANDS, LOW LANDS, FLOOD PLAINS, OR DRAINAGE WAYS WITH SAID DEBRIS WITHOUT OBTAINING PROPER APPROVALS, PERMITS, LICENSES, ETC. FROM LOCAL, STATE, OR FEDERAL AGENCIES.

19. THE OPEN BURNING OF SITE CLEARING DEBRIS, TRASH, ETC. IS PROHIBITED IN THE CITY

20. EXISTING SANITARY, COMBINED, AND STORM FLOWS SHALL BE MAINTAINED. CONTRACTOR SHALL PROVIDE FOR STORM FLOW DURING RAIN EVENTS.

DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL:

1) POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES.
2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LOCAL SOIL AND WATER CONSERVATION DISTRICT.
3) THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE PERFORMED DAILY OR AS DIRECTED BY THE CITY, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.
4) THE CONTRACTOR SHALL PRIOR TO CONSTRUCTION INSTALL & MAINTAIN THE FOLLOWING TEMPORARY EROSION & SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION:
-INLET PROTECTION
-SILT SOXX AROUND PERIMETER OF DISTURBED AREAS AND STOCK PILES.
-CONCRETE WASHOUT PIT
-DAILY SWEEPING
-CONSTRUCTION ENTRANCE (IF NON PAVED AREAS ARE USED)
-TEMPORARY & PERMANENT SEEDING.
5) PAYMENT FOR ALL SOIL EROSION, SEDIMENT AND DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER VARIOUS ITEMS.

MAINTENANCE OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL FURNISH AND ERECT TEMPORARY PROJECT SAFETY FENCING AT THE WORK SITE PRIOR TO START OF ANY WORK. THE SAFETY FENCING SHALL BE A HIGH VISIBILITY ORANGE COLORED, HIGH DENSITY POLYETHYLENE GRID, A MINIMUM OF 42 INCHES HIGH, SUPPORTED AND TIGHTLY SECURED TO STEEL POSTS LOCATED ON MAXIMUM 10 FOOT CENTERS. THE CONTRACTOR SHALL MAINTAIN THE SAFETY FENCING DURING THE LIFE OF THE PROJECT AND, UPON COMPLETION AND ACCEPTANCE OF THE WORK, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE WORK SITE. REGULAR INSPECTION AND MAINTENANCE SHALL BE PROVIDED FOR TEMPORARY PROJECT SAFETY FENCING INCLUDING IF CONSTRUCTION ACTIVITIES HAVE BEEN TEMPORARILY SUSPENDED (I.E. DURING WINTER MONTHS). INSPECTIONS SHALL BE MADE A MINIMUM OF 1 TIME PER MONTH, OR WITHIN 24 HOURS OF NOTIFICATION BY THE OWNER.

DEMOLITION NOTES:

1) CLEARING AND GRUBBING SHALL BE PERFORMED WHERE EARTHWORK IS REQUIRED. THIS WORK SHALL INCLUDE CLEARING, GRUBBING, SCALPING, TREE AND STUMP REMOVAL, AND THE REMOVAL AND DISPOSAL OF ALL VEGETATION AND DEBRIS WITHIN THE LIMITS OF WORK. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH WVDOH ITEM 201, CLEARING AND GRUBBING.

2) THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIAL, DEMOLISHED MATERIALS AND WASTE MATERIALS INCLUDING TREES, STUMPS, BRUSH, TRASH AND DEBRIS, FROM THE PROJECT LIMITS AND LEGALLY DISPOSE OF OFF-SITE.

3) PAVEMENT TO BE REMOVED SHALL BE SAWCUT AND REMOVED FULL DEPTH AT LIMITS OR EXISTING JOINTS AS SHOWN IN THE PLANS. ADDITIONAL SAWCUTS MAY BE DESIRED TO FACILITATE THE REMOVAL OF THE EXISTING PAVEMENT, BUT THERE WILL BE NO EXTRA PAYMENT. PAVEMENT SHALL BE REMOVED WITHOUT DAMAGING OR UNDERMINING THE PAVEMENT TO REMAIN. IF ADJACENT PAVEMENT IS DAMAGED, THE CONTRACTOR SHALL MAKE ADDITIONAL SAWCUTS, REMOVE THE DAMAGED AREAS AND REPAIR AS NECESSARY WITH NO ADDITIONAL COMPENSATION.

4) POLES AND POST MATERIALS TO BE REMOVED INCLUDES BASE, FOOTERS, WIRES SHALL NOT DAMAGE SURROUNDING SURFACES. HOLES CREATED SHALL BE BACKFILLED.

LAYOUT NOTES:

1) ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.

2) PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE DOT SPECIFICATIONS AND/OR CITY STANDARD DRAWINGS AND SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT STAKING INCLUDING HORIZONTAL AND VERTICAL CONTROL. THESE PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC LAYOUT STAKING. ANY DISCREPANCIES DISCOVERED IN THE PLAN INFORMATION, OR BETWEEN THE PLAN AND ELECTRONIC DATA, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER SO THE APPROPRIATE ADJUSTMENTS MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME. THE DESIGN ENGINEER MAKES NO REPRESENTATION REGARDING FITNESS FOR ANY PARTICULAR PURPOSE, OR SUITABILITY FOR USE WITH ANY SOFTWARE OR HARDWARE. DUE TO THE EASILY ALTERABLE NATURE OF ELECTRONIC DOCUMENTS, THROUGH EITHER UNINTENTIONAL OR INTENTIONAL MEANS, THE DESIGN ENGINEER DOES NOT MAKE ANY EXPRESS OR IMPLIED WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND THEREFORE, ACCEPTS NO LIABILITY FOR THE COMPLETENESS, CORRECTNESS OR READABILITY OF THE ELECTRONIC DATA. HARD COPIES (I.E., PRINTS, PAPER COPIES, ETC.) SHALL PREVAIL IN ANY DISPUTE OVER ACCURACY OR SUFFICIENCY OF ELECTRONIC DOCUMENTS.

GRADING NOTES:

1) ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. THE OWNER NOR THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS OR TESTING NECESSARY TO ADEQUATELY DETERMINE OR ESTIMATE TO THEIR SATISFACTION ANY EXISTING SITE CONDITION WHICH COULD AFFECT HIS BID OR THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, OBSTRUCTIONS, ETC.

2) THE CONTRACTOR SHALL STRIP TOPSOIL FROM AREAS TO BE GRADED AND STOCKPILE IT PRIOR TO SITE GRADING OPERATIONS. TOPSOIL SHALL BE STRIPPED TO WHATEVER DEPTH ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS. STOCKPILING AREAS ARE SHOWN ON THE DRAWINGS.

3) DO NOT STOCKPILE SOIL MATERIALS NEAR THE EDGE OF EXCAVATIONS OR WITHIN DRIP LINES OF TREES TO REMAIN.

4) THE CONTRACTOR SHALL PERFORM EXCAVATION AND EMBANKMENT OPERATIONS AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS AND ACHIEVE THE FINISHED GRADES SHOWN ON THE PLANS.
   A) STRUCTURAL FILL SHALL BE PLACED AND COMPACTED UNDER STAGE SLABS AND FOOTINGS AND PAVEMENT.
   B) SOIL OBTAINED ON-SITE MAY BE USED AS GENERAL FILL MATERIAL PROVIDED IT IS FREE OF ORGANIC MATTER, DEBRIS, EXCESSIVE MOISTURE, AND ROCK FRAGMENTS 6" AND LARGER.
   C) NO SLAG, RIVER GRAVEL, RECYCLED PORTLAND CEMENT CONCRETE (RPCC), RECLAIMED ASPHALT CONCRETE PAVEMENT (RACP) OR RECLAIMED BITUMINOUS AGGREGATE BASE (RBAB) SHALL BE USED AS EMBANKMENT.
   D) THE CONTRACTOR SHALL DISPOSE OFF-SITE ANY EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON-SITE.
   E) UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF PROPOSED IMPROVEMENTS SHALL BE UNDERCUT AND REPLACED WITH COMPACTED FILL OR STABILIZED IN-PLACE UTILIZING CONVENTIONAL MEASURES SUCH AS DISCING, AERATION OR RECOMPACTION. OTHER MEANS OF STABILIZATION SHALL BE AT THE DISCRETION OF THE OWNER OR GEOTECHNICAL ENGINEER.

7) IT IS THE INTENT OF THE SLOPES AND SPOT GRADES NOTED ON THE PLANS TO PROVIDE POSITIVE DRAINAGE TO STORM WATER COLLECTION POINTS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE DESIGN ENGINEER FOR RESOLUTION.

PROPOSED IMPROVEMENTS

1. THE USE OF SLAG OR RECYCLED PRODUCTS WILL NOT BE PERMITTED FOR USE FOR ANY ASPECT OF THIS PROJECT UNLESS APPROVED BY THE MUNICIPALITY AND THE ENGINEER. SPECIFICALLY, NO RECYCLED ASPHALT PRODUCT (RAP) WILL BE PERMITTED.
2. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS AS PRESCRIBED BY ALL PERMITS, REVIEWING, GRANT, AND REGULATORY AGENCIES AS PRESCRIBED IN THE PROJECT BOOK
3. ONCE THE IMPROVEMENTS HAVE BEEN CONSTRUCTED AND COMPLETED, THE DISTURBED SOILS IN THE VICINITY OF THE PLAYGROUND AND OTHER PROJECT ELEMENTS IN THE LIMIT'S OF CONSTRUCTION WILL TOPSOILED WITH 2" OF TOPSOIL OR TO MEET FLUSH WITH EXISTING PAVEMENTS AND CURB AND SEEDED AND STRAWED IMMEDIATELY.
4. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS WITH THE MANUFACTURER AND REVIEW ALL SHOP DRAWINGS FOR ADDITIONAL REQUIREMENTS PRIOR TO DELIVERY. REFER TO SITE PLAYGROUND SPECIFICATIONS.

your trusted advisor
consultants
engineers
architects
planners

NO	REVISION	DATE

ISSUED FOR:	FOR BID
ISSUE DATE:	02/07/24
SCALE:	AS SHOWN
DESIGNED BY:	RW
DRAWN BY:	CZ
CHECKED BY:	WH

CITY OF WHEELING
36TH ST, CLATOR AND ELM TERRACE PLAYGROUNDS
Wheeling,West Virginia, 26003
- OHIO COUNTY -

GENERAL NOTES AND DETAILS

PROJECT NO.	
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