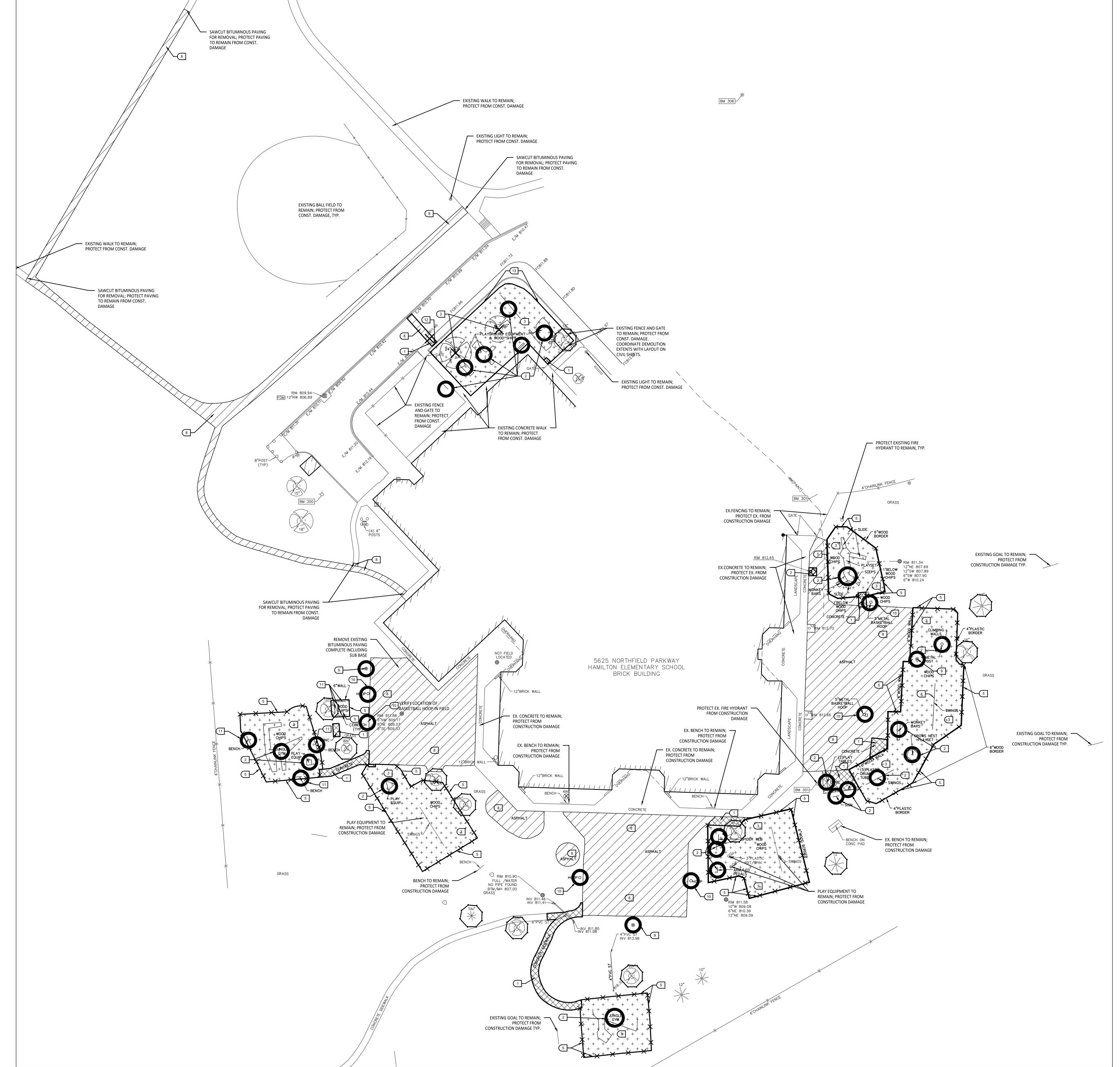


OF CONSTRUCTION)



# 30 North SCALE IN FEET

#### **DEMOLITION NOTES:**

- 1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MI, 48326.
- 248-689-9090.

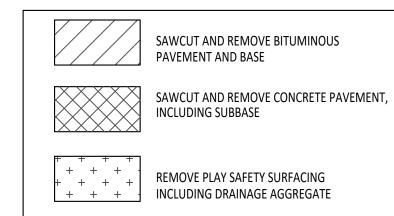
  VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG
- CALL "MISS DIG" AT 1-800-482-7171.

  3. PROTECT ALL TREES & EXISTING FEATURES TO REMAIN AS SPECIFIED.
- REFER TO LAYOUT PLAN FOR LIMITS OF WORK.
- 5. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
- 6. ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE.
  LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF
- ALL PAVEMENT DEMOLITION TO BE SAWCUT AND REMOVED COMPLETELY, INCLUDING BASE/SUBBASE MATERIALS.
   ALL EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED MUST BE DESTROYED COMPLETELY SO THAT IT CANNOT BE RE-ASSEMBLED. THE CONTRACTOR IS NOT ALLOWED TO RE-USE, DONATE, OR SELL ANY EXISTING PLAYGROUND EQUIPMENT SCHEDULED TO BE DEMOLISHED.
- 9. IN LOCATIONS WHERE PROPOSED PAVING WILL BE INSTALLED WHERE EXISTING PAVING WAS REMOVED, THE BASE MATERIAL MAY BE LEFT IN PLACE PROVIDED IT IS TESTED TO BE ADEQUATE IN BOTH DEPTH AND GRADATION. IF EITHER OF THESE IS INADEQUATE, THE BASE MATERIAL SHOULD BE REMOVED AND REPLACED.

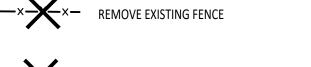
### SITE DEMOLITION KEY

- SAWCUT AND REMOVE EXISTING CONCRETE PAVING INCLUDING SUB-BASE.
- REMOVE EXISTING PLAY EQUIPMENT INCLUDING ALL CONCRETE FOOTINGS. DESTROY ALL PLAY EQUIPMENT COMPLETELY SO THAT IT CANNOT BE RE-ASSEMBLED.
- REMOVE EXISTING PLAY SAFETY SURFACING, INCLUDING DRAINAGE AGGREGATE.
- PLAYGROUND CONTRACTOR TO SALVAGE EXISTING PLAY EQUIPMENT AND RE-INSTALL ON-SITE.
- 5 REMOVE EXISTING PLAY EDGING COMPLETELY.
- 6 REMOVE EXISTING FENCING COMPLETELY (INCLUDING FOUNDATIONS)
- 7 REMOVE EXISTING TREE INCLUDING ALL ROOT SYSTEMS.
- 8 SAWCUT AND REMOVE EXISTING BITUMINOUS PAVEMENT INCLUDING SUB-BASE.
- 9 OWNER TO CONFIRM POWER DISCONNECTION FROM LIGHT FIXTURE. SITE CONTRACTOR TO CUT WIRE AT A MINIMUM OF 24" BELOW FINISHED GRADE.
- SALVAGE EXISTING PLAY EQUIPMENT, PLAYGROUND CONTRACTOR TO REINSTALL ON SITE.
- 3ALVAGE EXISTING SITE FURNISHINGS AND REINSTALL AT LOCATION TO BE DETERMINED.
- 12 SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
- 3 SALVAGE EXISTING FENCE AND RE-INSTALL ON SITE PER CIVIL PLANS.

#### **DEMOLITION LEGEND:**







NO WORK, PARKING OR STORAGE

SAWCUT & REMOVE CONCRETE CURB & GUTTER

RELOCATE EXISTING SITE LIGHTING PER ELEC. PLAN

•——• TEMPORARY TREE PROTECTION FENCE, REFER TO DETAIL 1/C4.0

### TREE PROTECTION NOTES:

PROVIDE AND MAINTAIN TEMPORARY TREE PROTECTION FENCING IN ALL LOCATIONS MARKED

TO ANY WORK ON SITE (INCLUDING TOPSOIL STRIPPING OPERATIONS). REFER TO THE

FOLLOWING NOTES AND THE SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS.

- NO CONSTRUCTION OPERATIONS, EQUIPMENT, MATERIALS OR TOPSOIL SHALL BE
- ALLOWED WITHIN THE TREE PROTECTION AREAS.

  2. EXISTING GROUND COVER AND TOPSOIL SHALL NOT BE REMOVED FROM TREE
- PROTECTION AREAS DURING EARTHWORK PHASE.

  3. VEHICULAR TRAFFIC, PARKING, EQUIPMENT OR MATERIAL STORAGE MAY NOT OCCUR
- WITHIN THE TREE PROTECTION AREAS AT ANY TIME.

  4. NO EXCAVATION SHALL BE MADE WITHIN THE TREE PROTECTION AREAS EXCEPT AS

A R C H I T F C T II R F

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**REGISTRATION SEAL** 

CONSULTANT



141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944

Landscape Architecture
Urban Planning
Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

# Hamilton Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE

Demolition Plan

<b>ISSUE</b>	<b>DATES</b>

10-03-2024 CONSTRUCTION DOCUMENTS

DRAWN DID

CHECKED DID

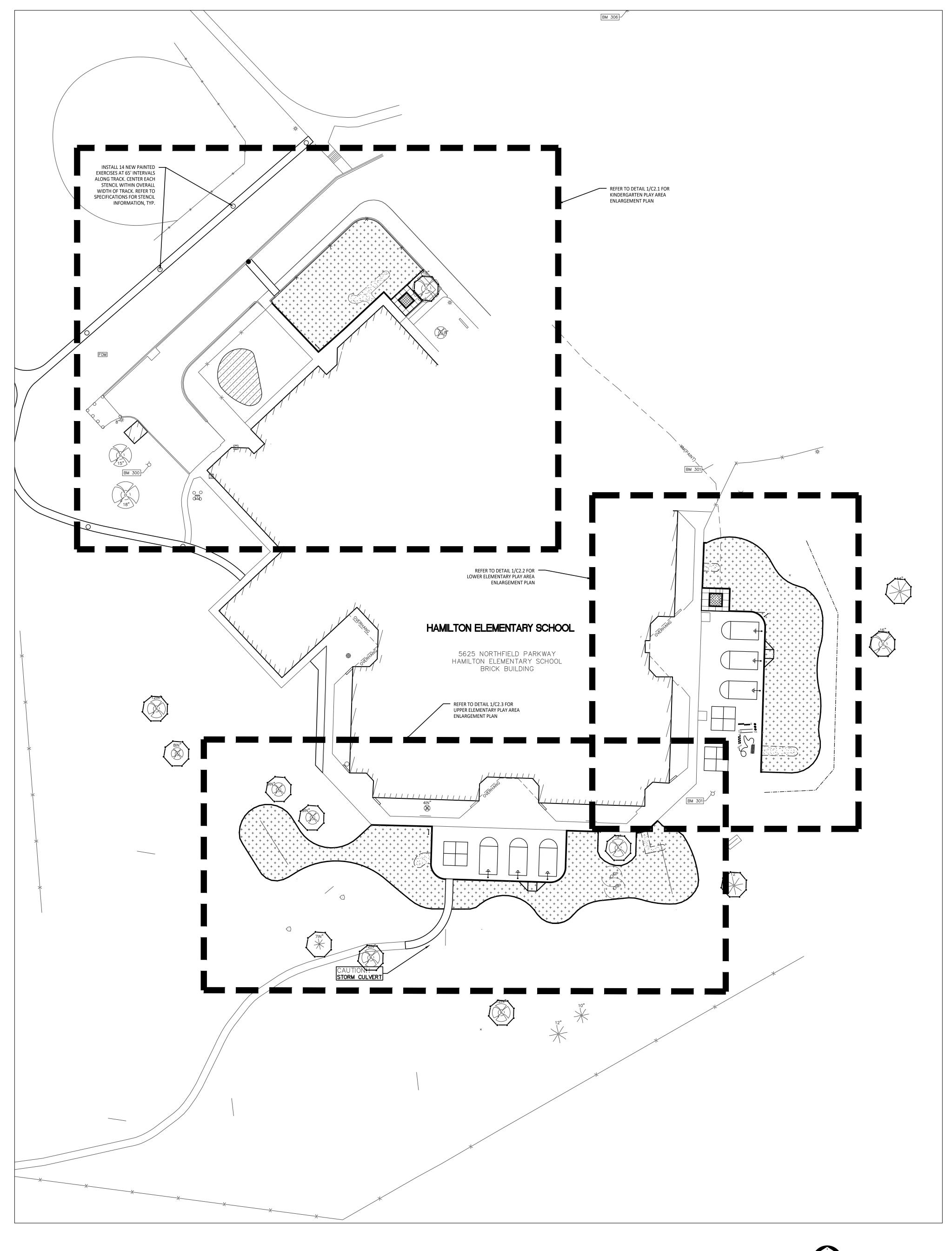
APPROVED DID

PROJECT NO.

22089B

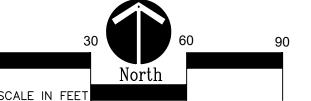
DRAWING NO.
C1.0

Overall Demolition Plan
Scale: 1" = 30'-0"



1 Overall Playground Layout Plan

Scale: 1" = 30'-0"



#### BARRIER-FREE NOTES

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: - 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE.

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NOTE: PLAYGROUND EQUIPMENT AND SURFACING NOTE: VERIFY LOCATION OF NEW PLAYGROUND PURCHASE AND INSTALLATION IS UNDER SEPARATE CONTRACT AND IS NOT INCLUDED IN THIS BID PACKAGE. CONTRACTOR IS REQUIRED TO COORDINATE INSTALLATION

CONCRETE CURBING OR PAVING INSTALLATION.

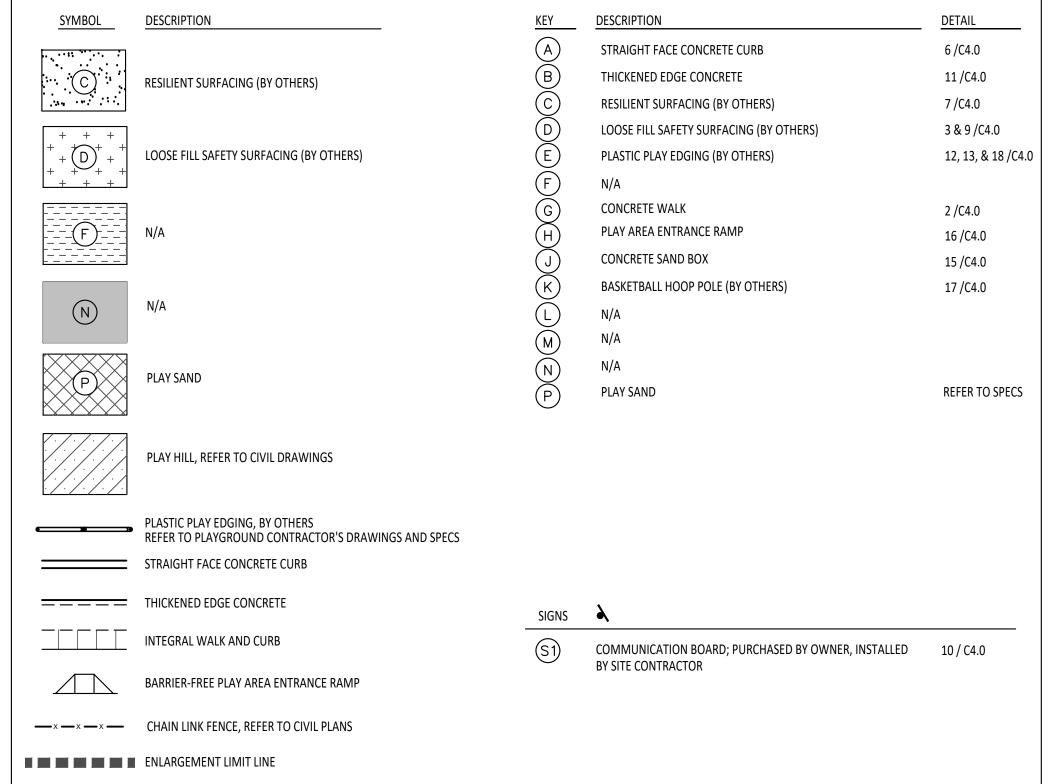
EQUIPMENT PRIOR TO INSTALLATION OF ANY CONCRETE CURB. CONCRETE CURB TO BE INSTALLED OUTSIDE OF FALL SAFETY ZONE OF OF PLAYGROUND EQUIPMENT AND SURFACING WITH EACH PIECE OF EQUIPMENT PER ASTM 1487-05 PLAYGROUND INSTALLER PRIOR TO ANY EXCAVATION AND AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

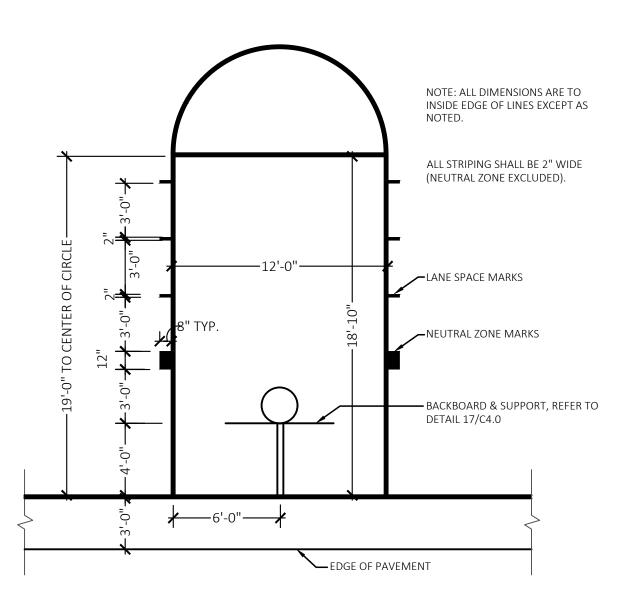
#### LAYOUT NOTES:

SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.

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#### PROPOSED FEATURES LEGEND:

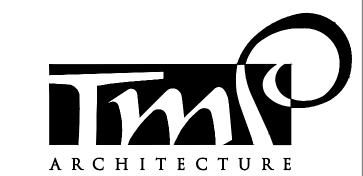




#### CONTRACTOR COORDINATION NOTES:

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\* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS. \* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN THE



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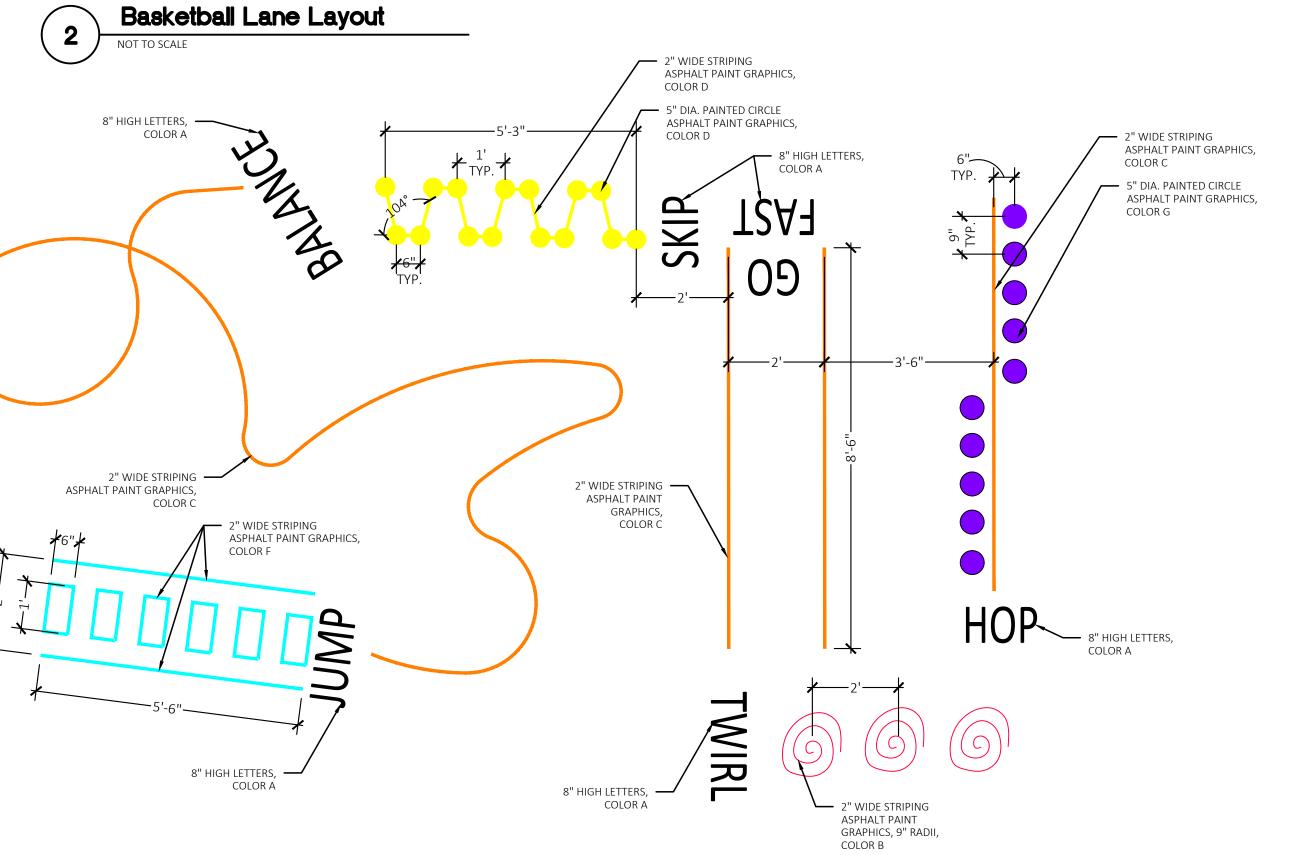
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Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

## PROJECT TITLE **Hamilton** Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Overall Playground
Layout Plan



PROJECT NO. 22089B DRAWING NO.

DRAWN

CHECKED

**C2.0** 

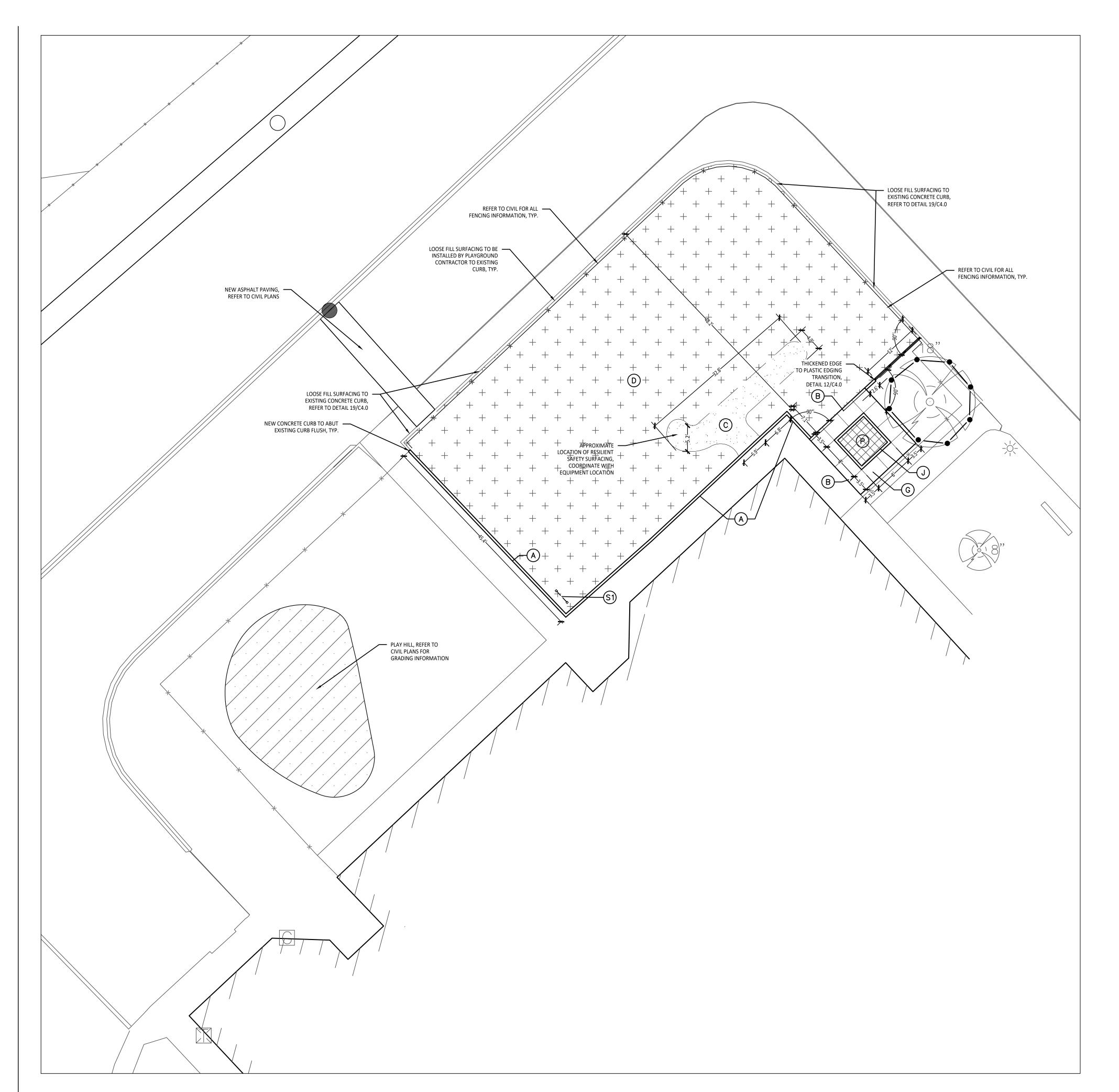
**APPROVED** DID

CONSTRUCTION DOCUMENTS

**ISSUE DATES** 

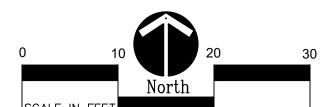
Silly Track Layout

Not to Scale



Playground Layout Enlargement Plan - Kindergarten

Scale: 1" = 10'-0"



## CONTRACTOR COORDINATION NOTES:

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\* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT. \* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS. \* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY

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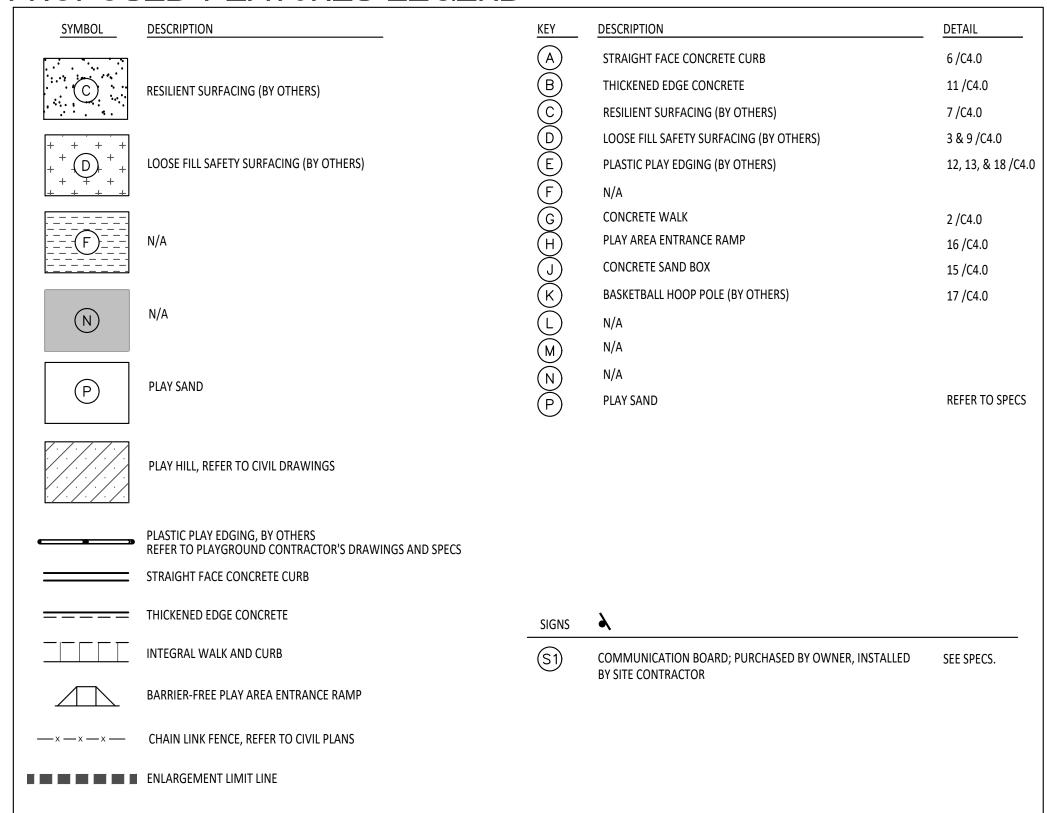
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SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.

LAYOUT NOTES:

- PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF CURB. PLASTIC EDGING IS MEASURED TO/FROM CENTER OF PIN.
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PROPOSED FEATURES LEGEND:





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Landscape Architecture Urban Planning Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

# **Hamilton** Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Playground Layout
Enlargement Plans

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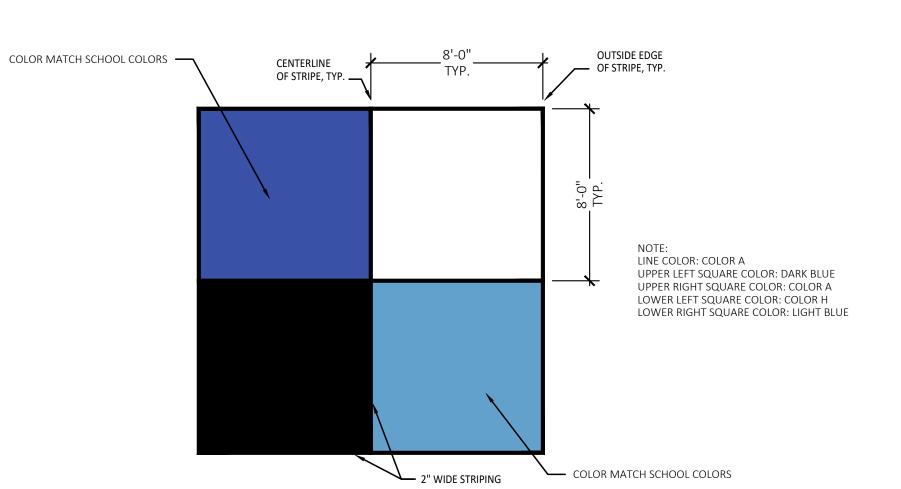
PROJECT NO.

**APPROVED** DID

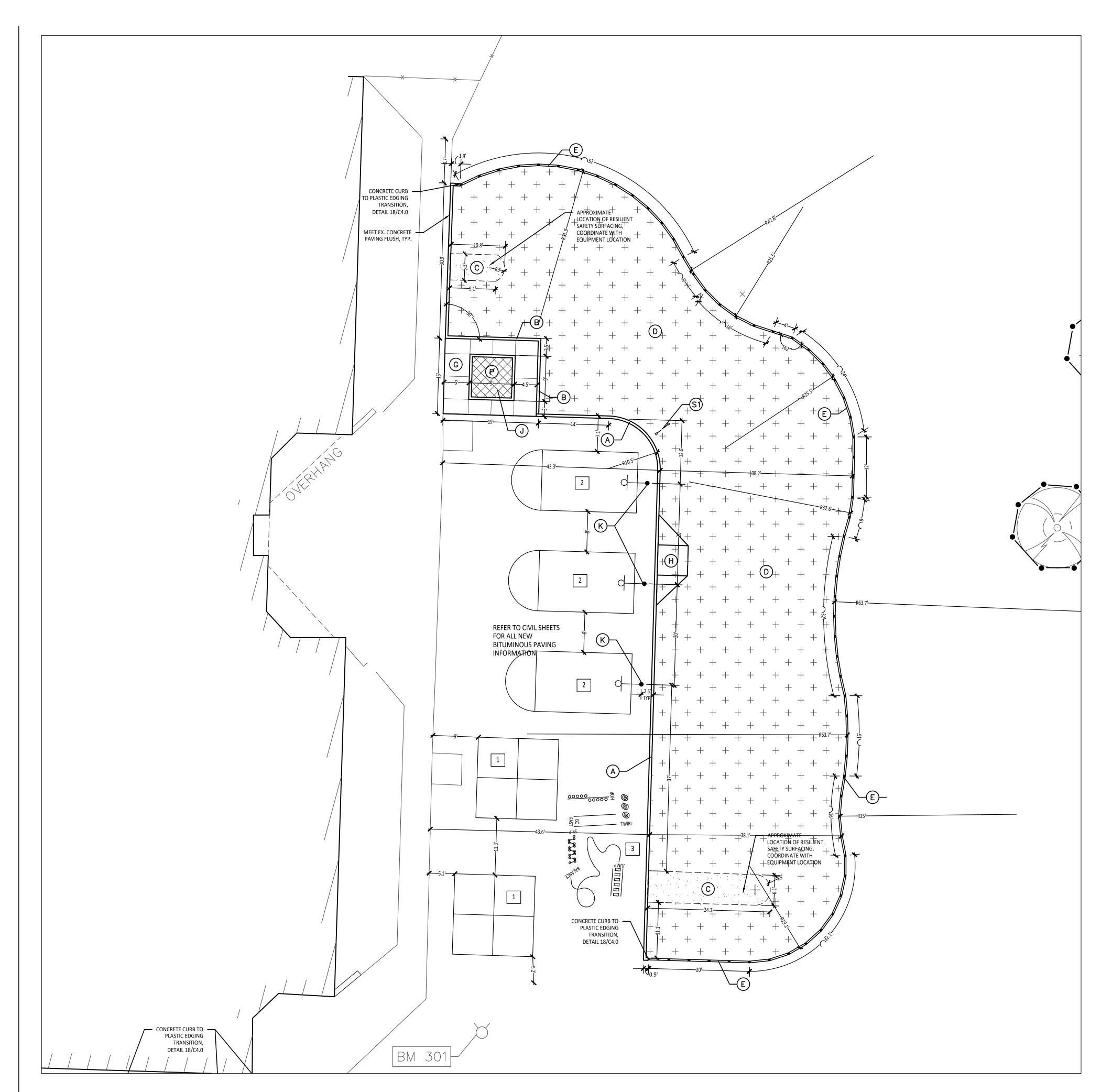
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DRAWING NO.

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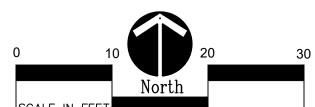






Playground Layout Enlargement Plan - Lower Elementary

Scale: 1" = 10'-0"



#### BARRIER-FREE NOTES

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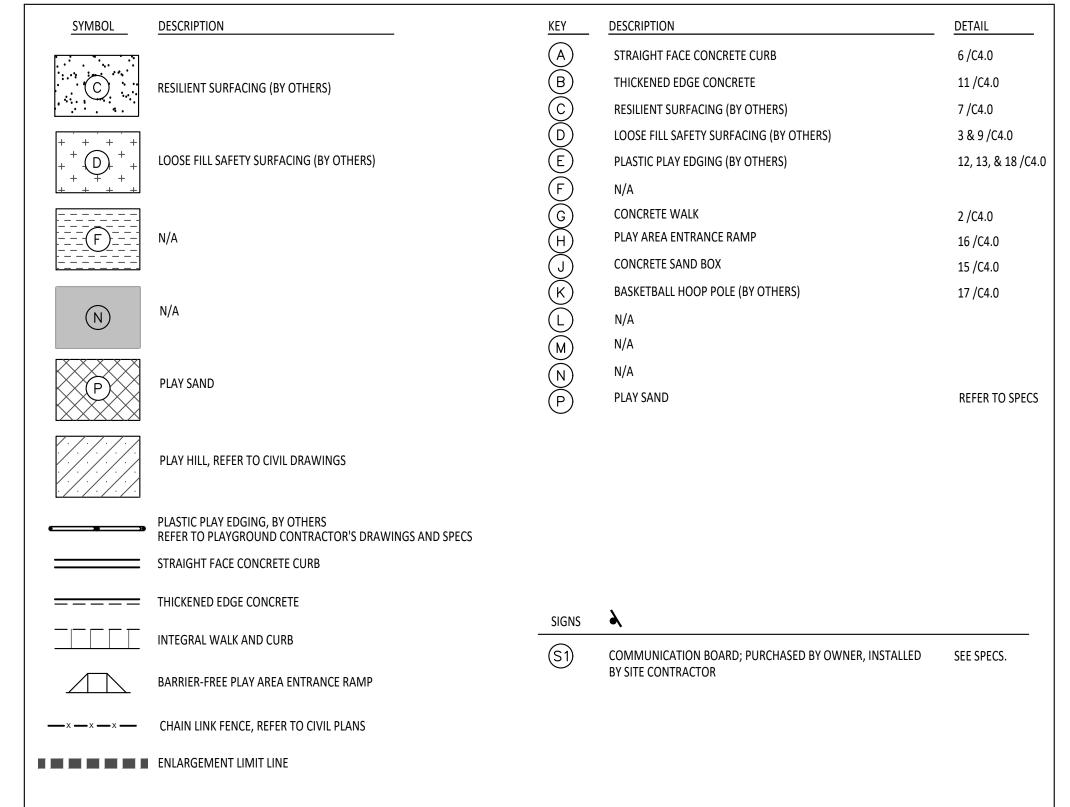
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PROPOSED FEATURES LEGEND:



### CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS

#### PAINTED GAMES SCHEDULE:

SYMBOL	DESCRIPTION	DETAIL
1	FOUR SQUARE	2/ C2.1
2	BASKETBALL LANE LAYOUT	2 / C2.0
3	SILLY TRACK	3 / C2.0
4	N/A	
5	N/A	
6	N/A	
7	N/A	
8	N/A	
9	N/A	
10	N/A	
11	N/A	



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Campus & Institutional Planning Camp Planning & Design

Fax (269) 381-2944

PROJECT TITLE

# **Hamilton** Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Playground Layout
Enlargement Plans

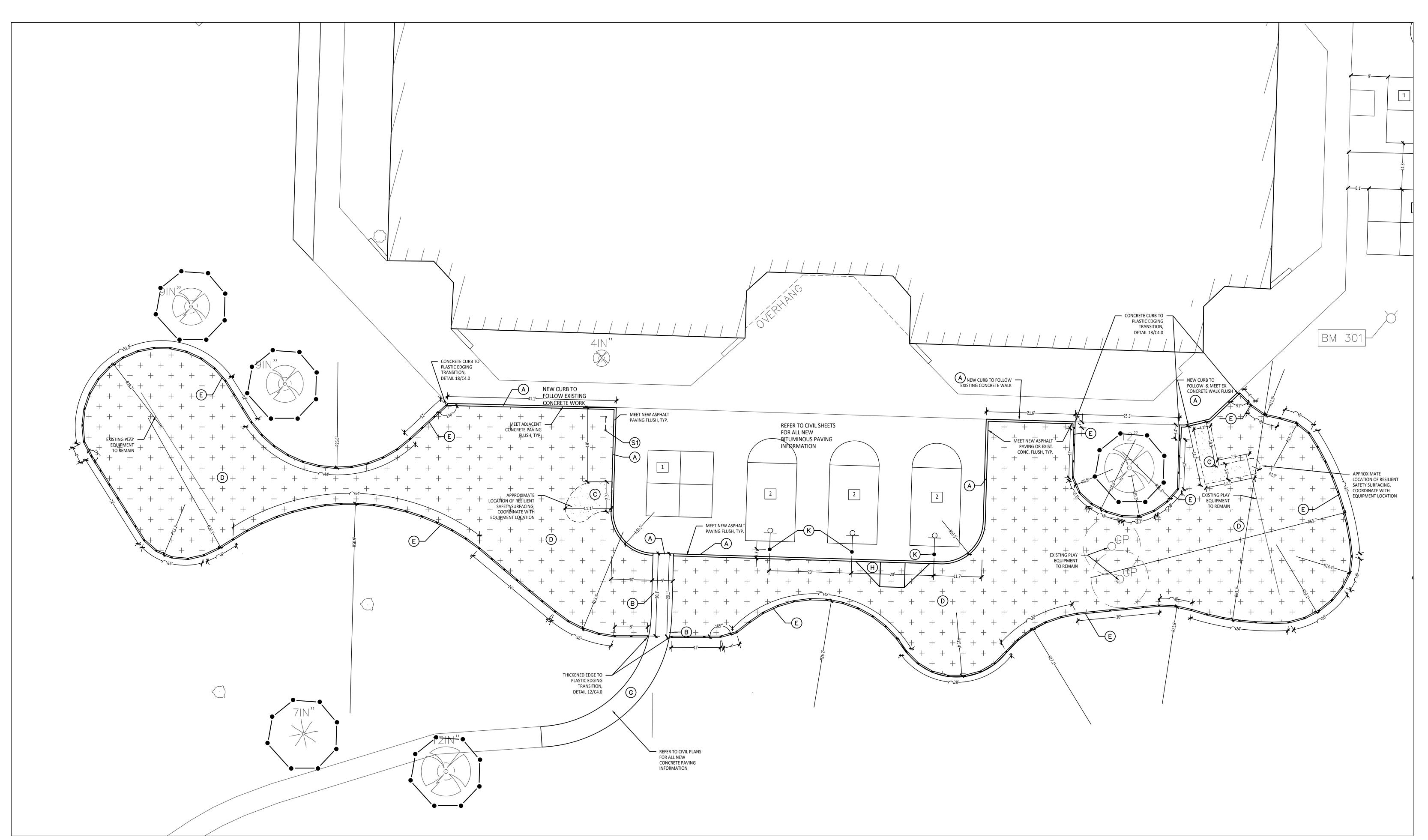
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**APPROVED** DID PROJECT NO.

22089B

DRAWING NO.

**C2.2** 



Playground Layout Enlargement Plan - Upper Elementary

| Scale: 1" = 10'-0"

CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH

\* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR

TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN THE

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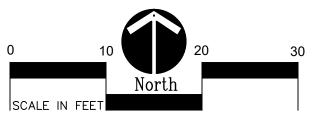
ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS.

\* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.

FOLLOWS:

SURFACING.

CORRECT LOCATIONS.



## LAYOUT NOTES:

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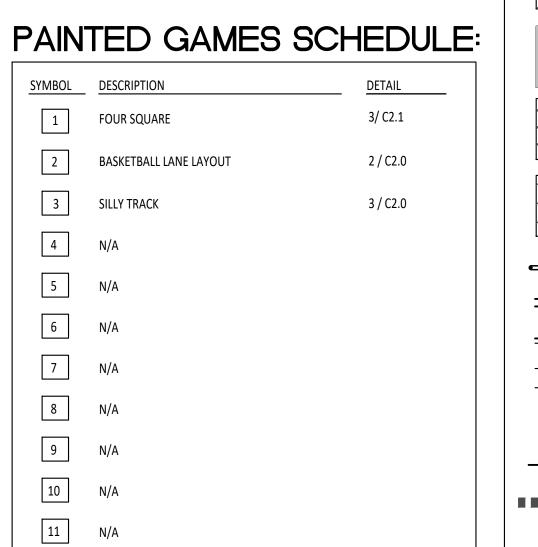
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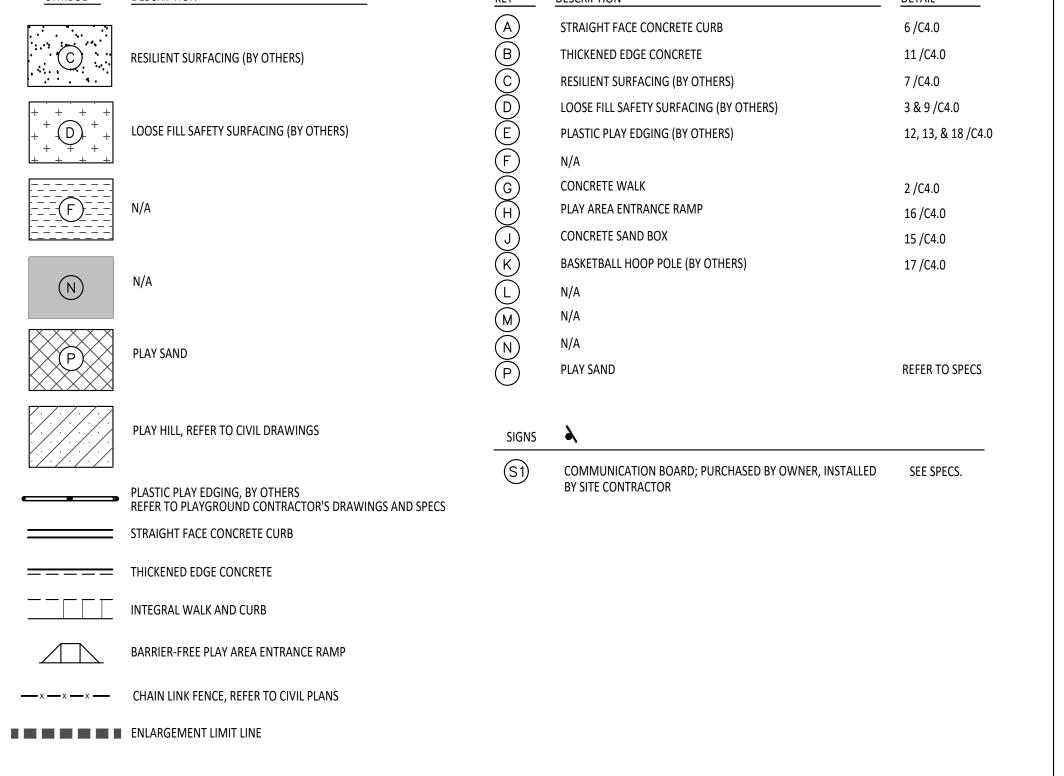
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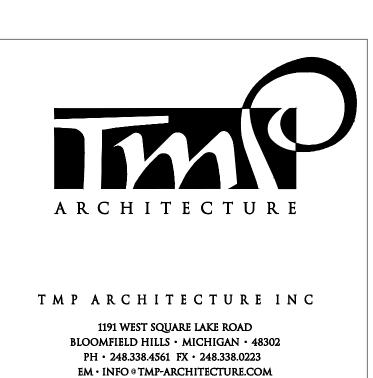
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#### PROPOSED FEATURES LEGEND:





**REGISTRATION SEAL** 



Landscape Architecture **Urban Planning** Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

Fax (269) 381-2944

PROJECT TITLE

## **Hamilton** Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

**DRAWING TITLE** Playground Layout Enlargement Plans

ISSUE DAT	ES
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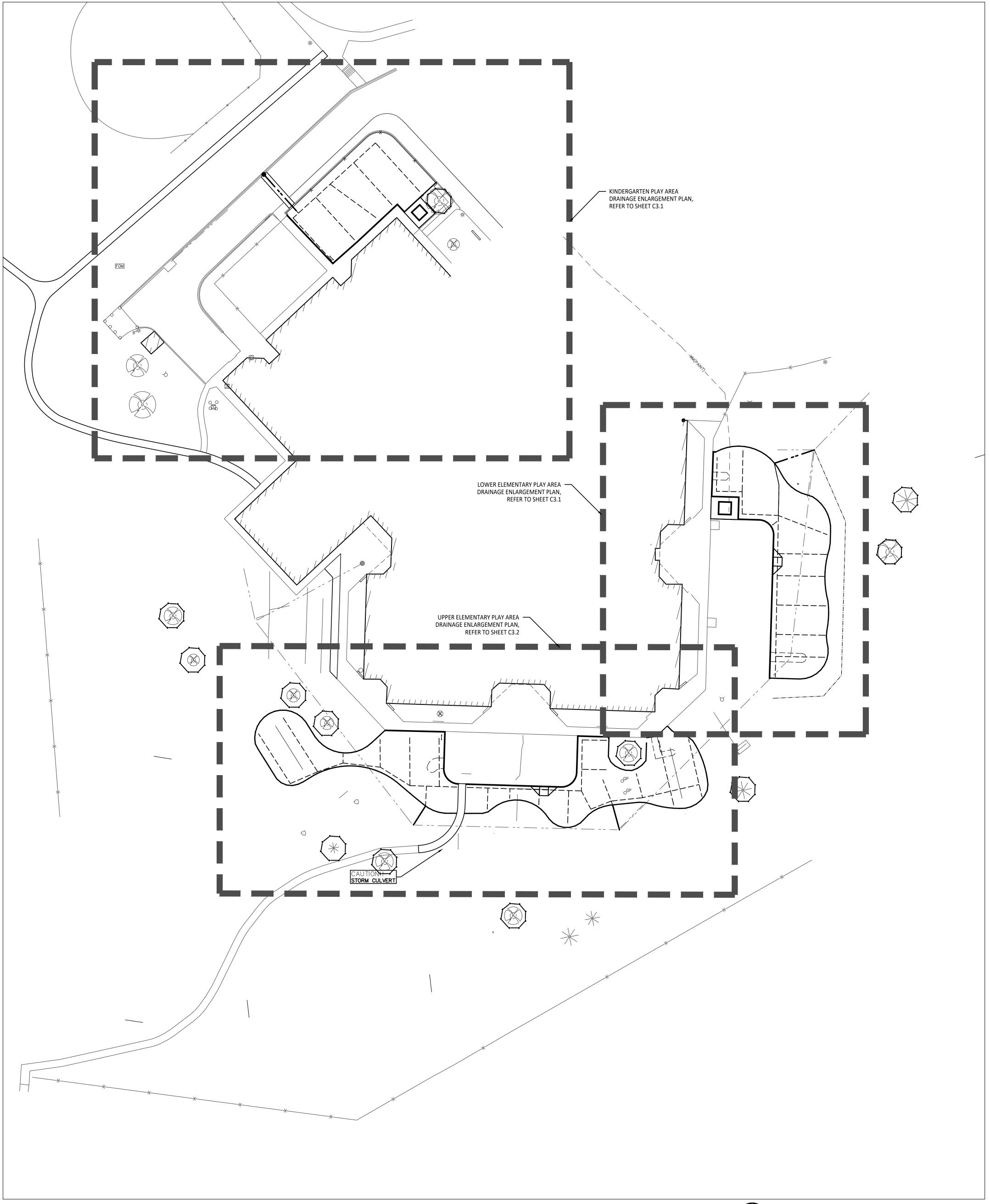
PROJECT NO.

**APPROVED** DID

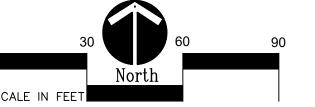
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DRAWING NO.

**C2.3** 



1 Overall Playground Grading Plan

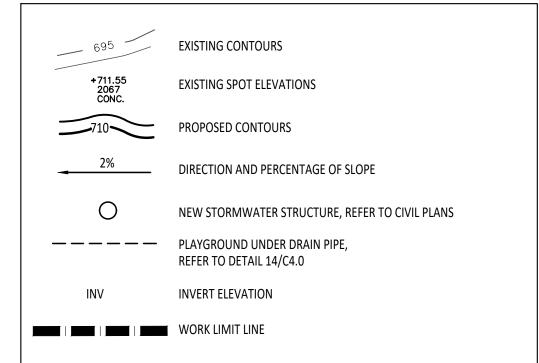


#### GRADING NOTES:

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
   VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT
- 1-800-482-7171.

  3. ALL NEW PAVEMENTS AND TURF AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING
  - THE PROPOSED GRADES, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION.
  - 4. ALL NEW PAVEMENT ELEVATIONS AT EXTERIOR DOORS SHALL MATCH EXISTING FINISH FLOOR ELEVATIONS, TYPICAL.
  - ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
  - 6. SEE SITE CIVIL PLANS FOR ALL ADDITIONAL SITE UTILITY DEMOLITION AND CONSTRUCTION.
- 7. ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.

#### PROPOSED FEATURES LEGEND:



#### IMPORTANT NOTE

#### GENERAL EARTHWORK NOTE:

CUTS AND FILLS AT THIS SITE MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIRED EARTHWORK VOLUMES BASED ON THE GRADING PLAN SHOWN. IF FILL IS REQUIRED, THE CONTRACTOR SHALL INCLUDE THE REQUIRED VOLUME OF IMPORTED CLASS II SAND IN THE BASE BID PROPOSAL. IF EXCESS SOILS NEED TO BE SPOILED, THE CONTRACTOR SHALL INCLUDE HAULING AND SPOILING SOILS OFF SITE IN THE BASE BID PROPOSAL. NO CONTRACT COST ADJUSTMENTS WILL BE CONSIDERED FOR EARTHWORK REQUIRED TO BALANCE THE SITE.

IMPORTANT NOTE

#### BARRIER-FREE NOTES

- BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE.
- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.
- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED). 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

#### CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS

FOLLOWS:

\* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.

\* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR

TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN THE

\* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT.

\* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE
POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL
ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH
THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS.

\* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY
SURFACING



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141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944

Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

PROJECT TITLE

# Hamilton Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

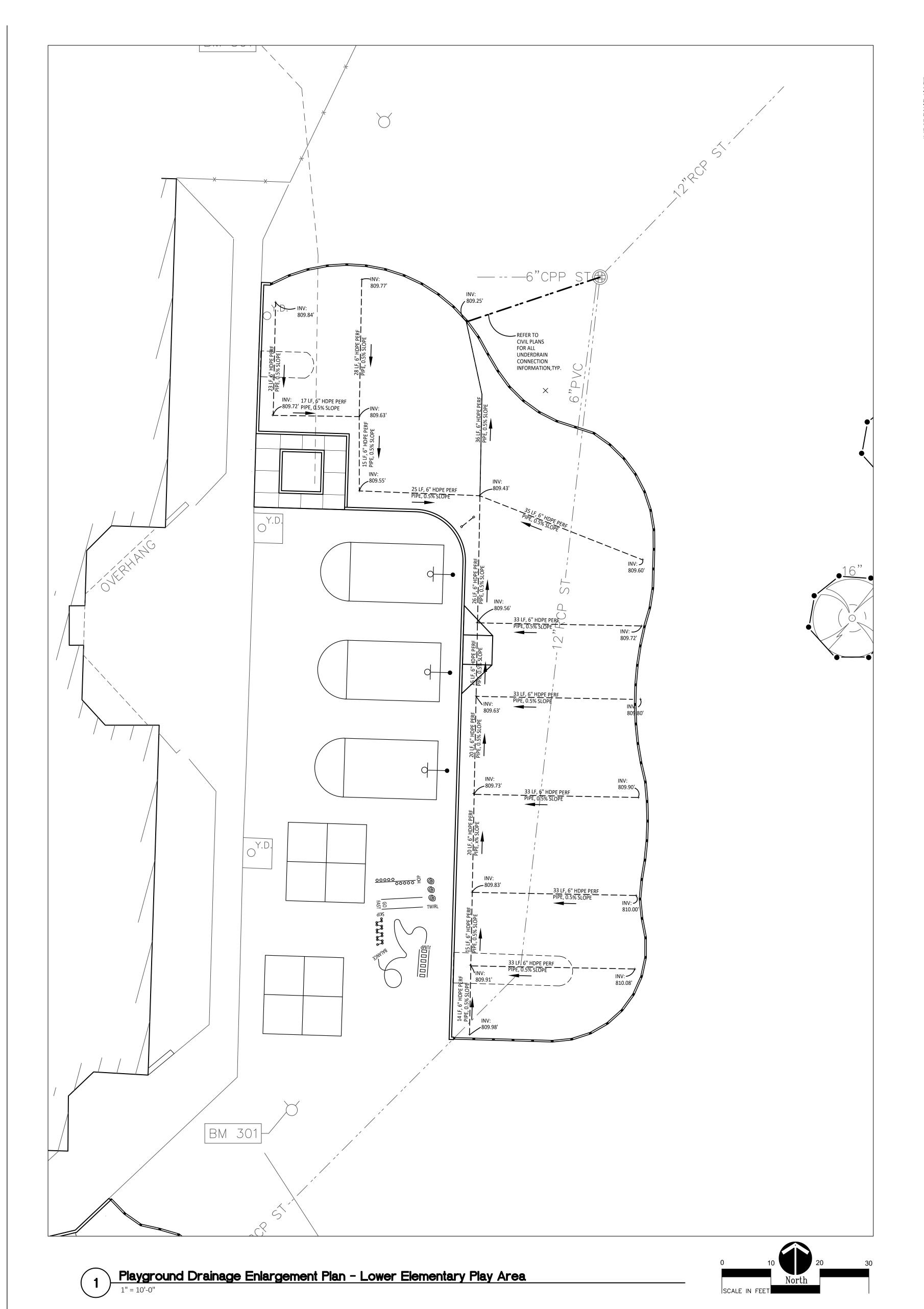
DRAWING TITLE
Overall Playground
Drainage Plan

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10-03-2024	CONSTRUCTION DOCUMENTS
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22089B

DRAWING NO.

**C3.0** 



IMPORTANT NOTE

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IMPORTANT NOTE

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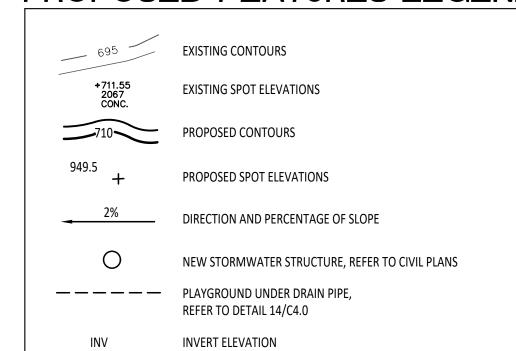
#### GRADING NOTES:

- 2. VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- 3. ALL NEW PAVEMENTS AND TURF AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING THE PROPOSED GRADES, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION.
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SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.

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#### PROPOSED FEATURES LEGEND:





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#### CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS

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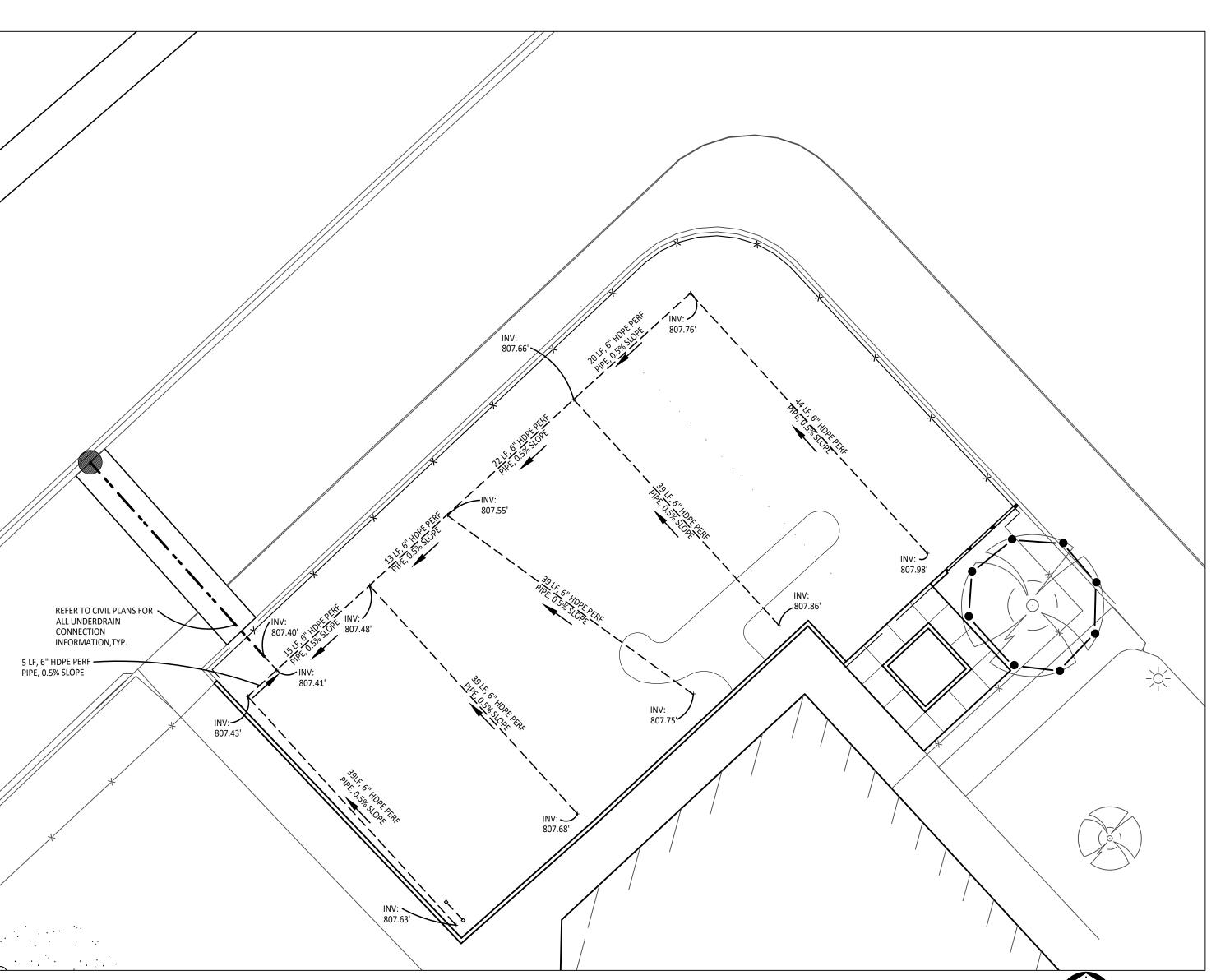
\* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT.

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THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS.



Playground Drainage Enlargement Plan - Kindergarten Play Area

1" = 10'-0"





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Landscape Architecture
Urban Planning
Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

# Hamilton Elementary School Playground Remodel Bid Package No.01B

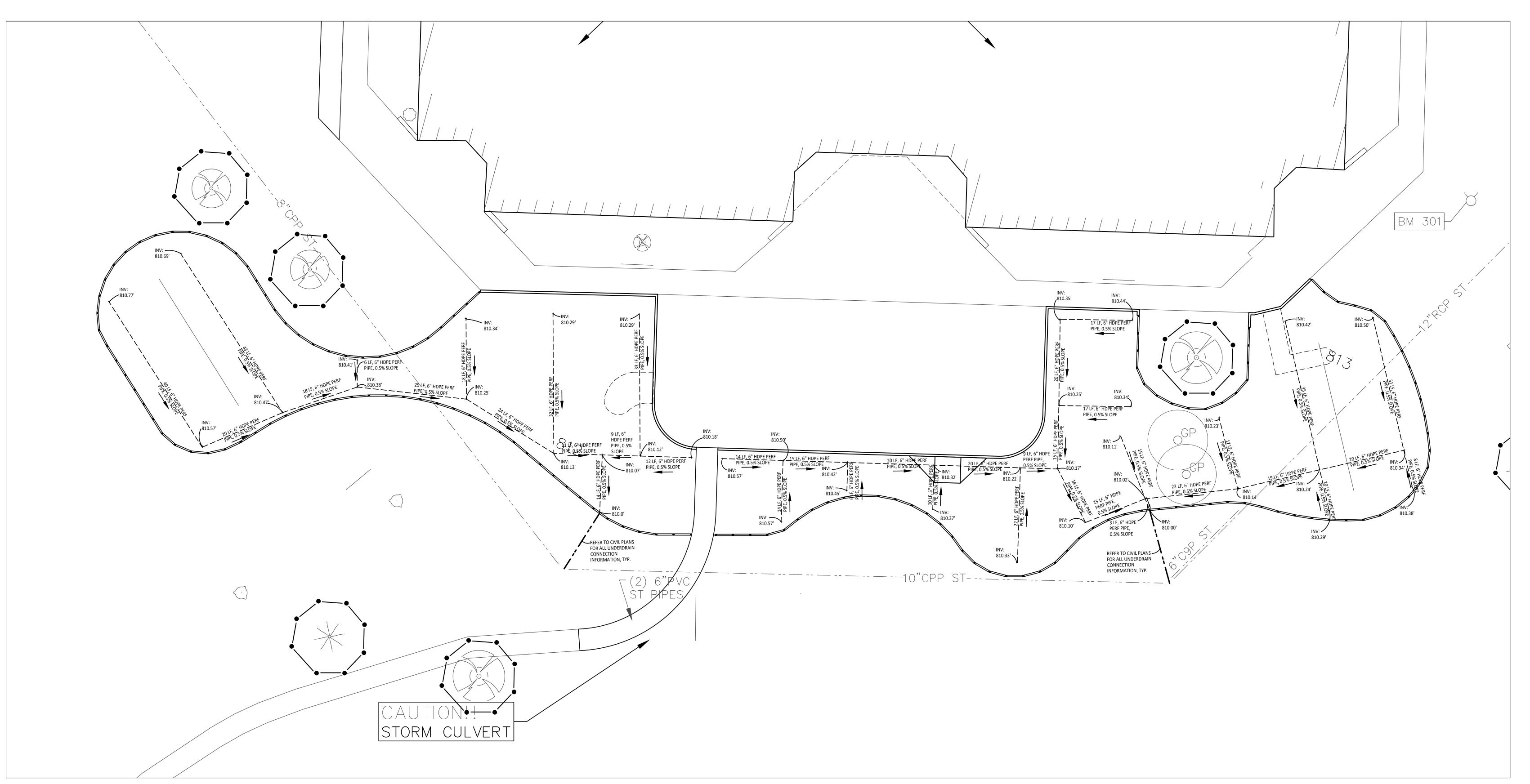
Troy School District Troy, Michigan

DRAWING TITLE
Playground Drainage
Enlargement Plan

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> Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

PROJECT TITLE

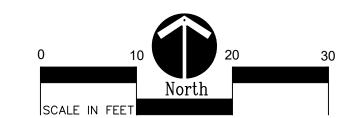
## **Hamilton** Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Playground Drainage
Enlargement Plan

Playground Drainage Enlargement Plan - Upper Elementary Play Area

1" = 10'-0"



#### GRADING NOTES:

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT

IMPORTANT NOTE

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IMPORTANT NOTE

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#### PROPOSED FEATURES LEGEND:

REFER TO DETAIL 14/C4.0

INVERT ELEVATION

$\vdash$		
<u>≥</u>		
ZTAN.	695	EXISTING CONTOURS
IMPORTANT NOT	+711.55 2067 CONC.	EXISTING SPOT ELEVATIONS
	710	PROPOSED CONTOURS
	949.5	PROPOSED SPOT ELEVATIONS
	2%	DIRECTION AND PERCENTAGE OF SLOPE
	0	NEW STORMWATER STRUCTURE, REFER TO CIVIL
		PLAYGROUND LINDER DRAIN PIPE

**ISSUE DATES** DRAWN **CHECKED** DID **APPROVED** DID

PROJECT NO.

**22089B** 

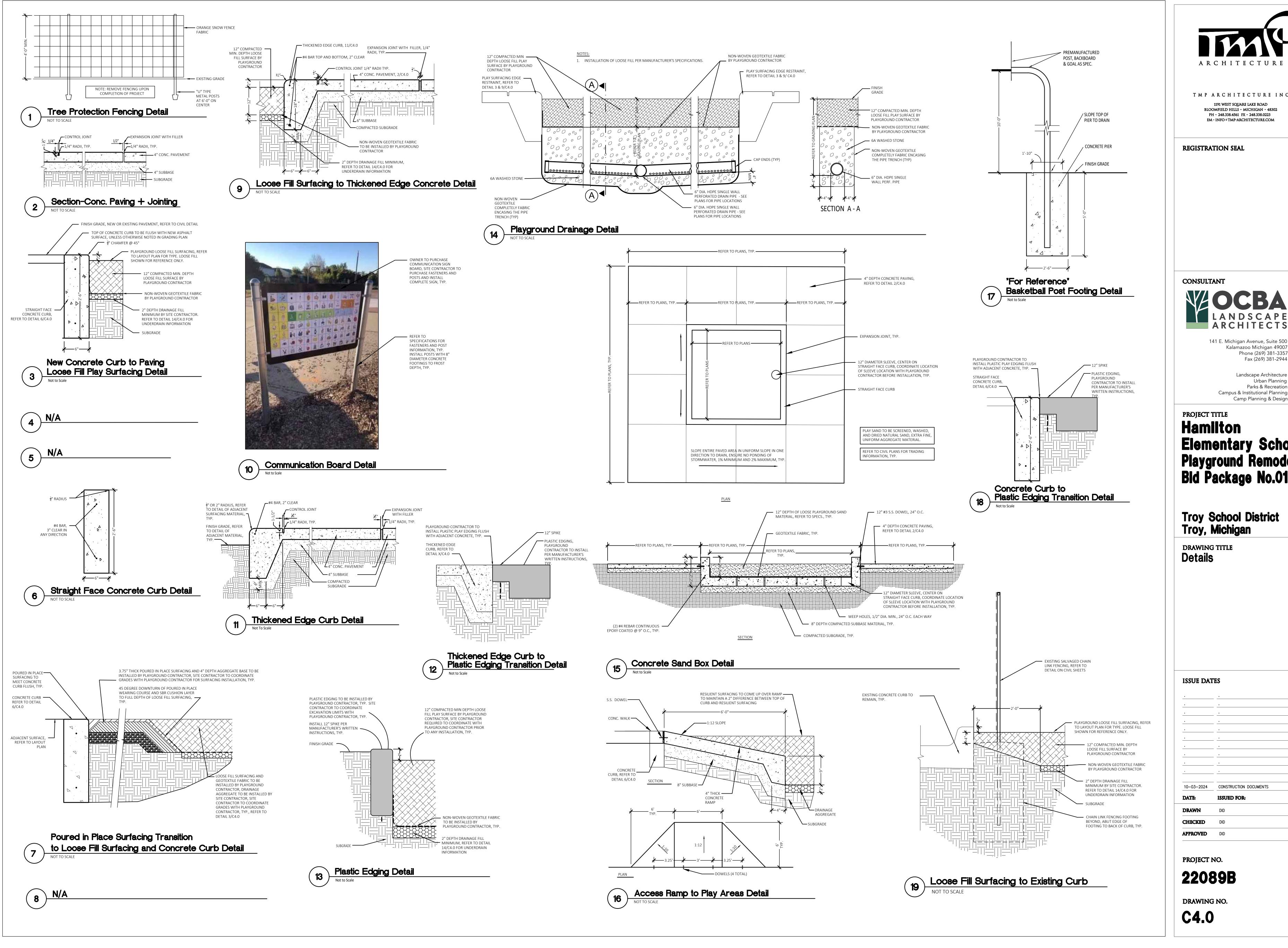
DRAWING NO. **C3.2** 

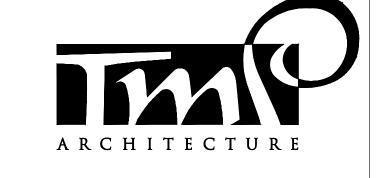
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\* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT. \* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS. \* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY





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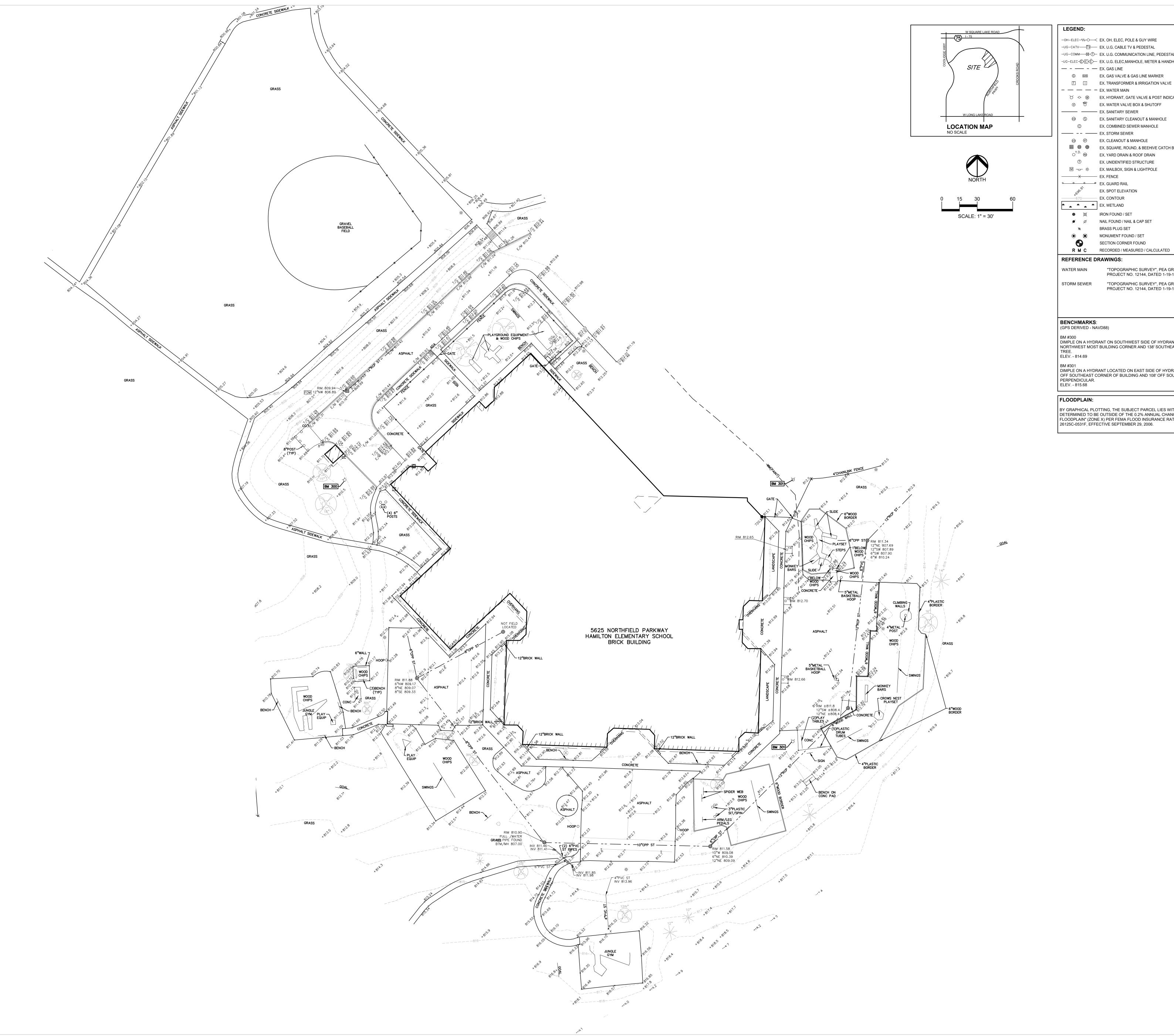
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Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning

# Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

CONSTRUCTION DOCUMENTS



-OH-ELEC-W-O- EX. OH. ELEC, POLE & GUY WIRE

-UG-CATV---TV EX. U.G. CABLE TV & PEDESTAL -UG-COMM----⊠-①- EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE -UG-ELEC-E-E-EX. U.G. ELEC,MANHOLE, METER & HANDHOLE

— - — - — EX. GAS LINE © GAS EX. GAS VALVE & GAS LINE MARKER − — — — EX. WATER MAIN

∀ 
W EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE ——— EX. SANITARY SEWER ⊚ S EX. SANITARY CLEANOUT & MANHOLE © EX. COMBINED SEWER MANHOLE

---- EX. STORM SEWER ⊚ ⑤ EX. CLEANOUT & MANHOLE ■ ● ● EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN O<sup>Y.D.</sup> ® EX. YARD DRAIN & ROOF DRAIN ② EX. UNIDENTIFIED STRUCTURE M → ★ EX. MAILBOX, SIGN & LIGHTPOLE X EX. FENCE

• • • EX. GUARD RAIL EX. SPOT ELEVATION \_\_\_\_670\_\_\_\_\_ EX. CONTOUR EX. WETLAND BRASS PLUG SET

REFERENCE DRAWINGS:

"TOPOGRAPHIC SURVEY", PEA GROUP, PROJECT NO. 12144, DATED 1-19-17 WATER MAIN "TOPOGRAPHIC SURVEY", PEA GROUP, PROJECT NO. 12144, DATED 1-19-17 STORM SEWER

SECTION CORNER FOUND

BENCHMARKS: (GPS DERIVED - NAVD88)

BM #300 DIMPLE ON A HYDRANT ON SOUTHWEST SIDE OF HYDRANT 39' OFF NORTHWEST MOST BUILDING CORNER AND 138' SOUTHEAST OF 30" ELEV. - 814.69

DIMPLE ON A HYDRANT LOCATED ON EAST SIDE OF HYDRANT 30.3'
OFF SOUTHEAST CORNER OF BUILDING AND 108' OFF SOUTH FENCE PERPENDICULAR.

FLOODPLAIN:

BY GRAPHICAL PLOTTING, THE SUBJECT PARCEL LIES WITHIN "AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN" (ZONE X) PER FEMA FLOOD INSURANCE RATE MAP 26125C-0531F, EFFECTIVE SEPTEMBER 29, 2006.

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REGISTRATION SEAL

CONSULTANT



www.peagroup.com

PROJECT TITLE

**Hamilton** Elementary School 5625 NORTHFIELD PARKWAY

Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Topographic Survey

**ISSUE DATES** 

10-03-2024 CONSTRUCTION DOCUMENTS

**ISSUED FOR:** 

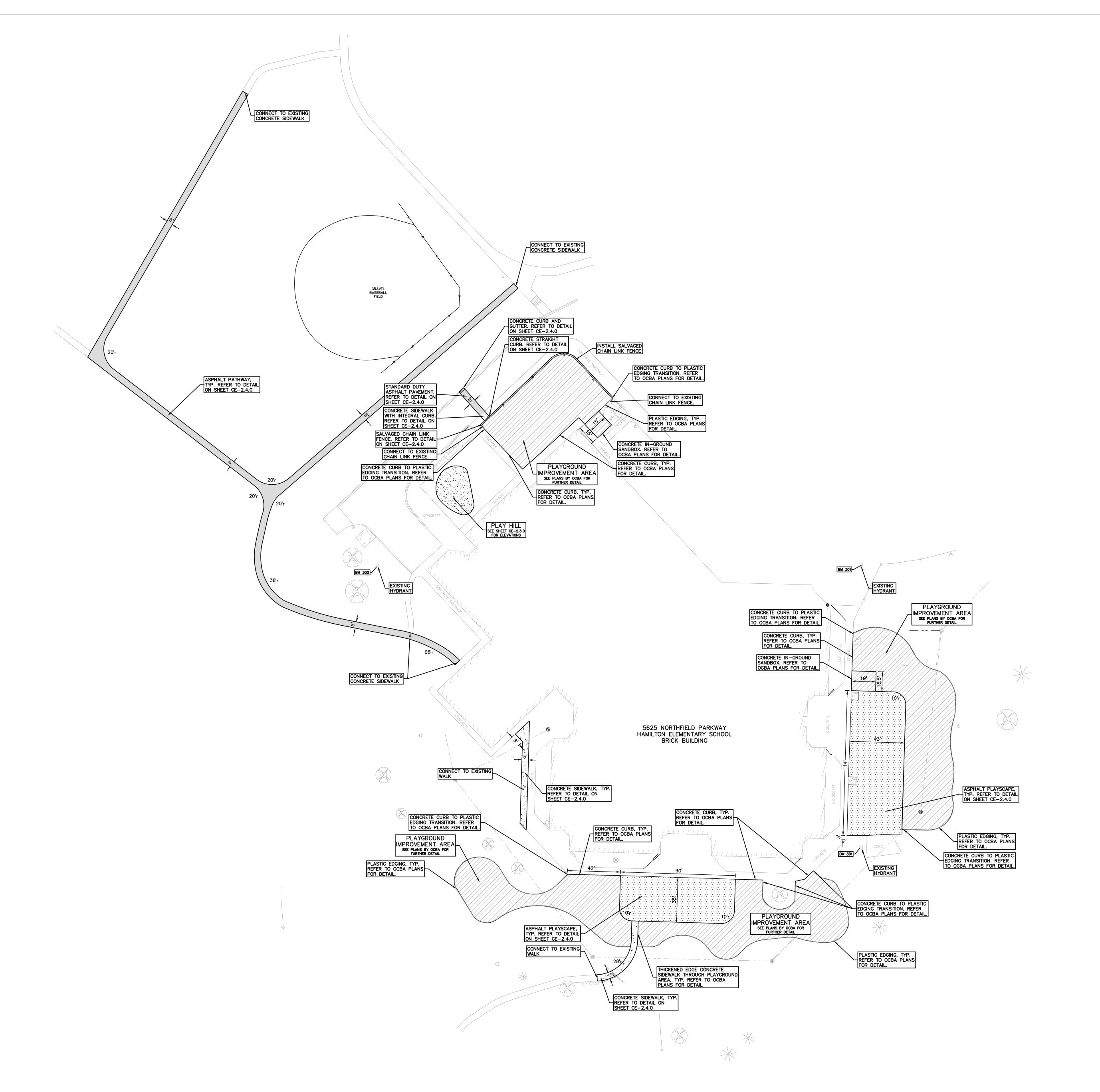
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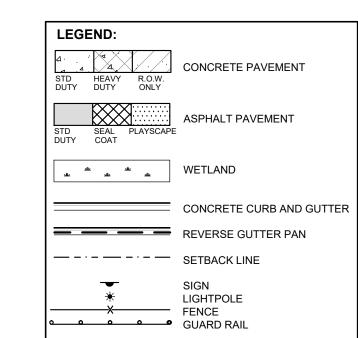
PROJECT NO.

22089B

DRAWING NO.

CE-2.1.0







REGISTRATION SEAL

CONSULTANT

PROJECT TITLE

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GROUP

t: 844.813.2949

www.peagroup.com

Elementary School 5625 NORTHFIELD PARKWAY

Playground Remodel

**Troy School District** 

Troy, Michigan

DRAWING TITLE

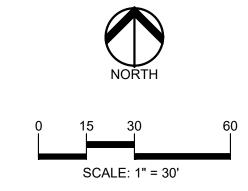
Bid Package No.01B

Dimension & Paving Plan

- . CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
- 2. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, CENTER OF MANHOLE/CATCH BASIN UNLESS OTHERWISE NOTED.
- 3. DOWEL INTO EXISTING CURB AND GUTTER 9" WITH EPOXY COATED #4 BAR CONTINUOUS BETWEEN EXISTING AND
- PROPOSED CURBING. 4. REFER TO NOTES AND DETAILS SHEET FOR PAVING DETAILS.
- 5. CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.
- IN GOOD CONDITION SHALL BE RETURNED TO THE OWNER. ALL POSTS DAMAGED OR OTHERWISE NOT IN USEABLE CONDITION, SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER.
- THESE STRUCTURES (GREATER THAN 12-INCHES IN DEPTH FROM THE RIM ELEVATION OF REPAIR WORK) IN THE BASE BID. THE SUCCESSFUL BIDDER WILL BE PAID FOR REPAIRING EACH STRUCTURE BASED ON THE ACTUAL DEPTH OF REPAIR WITH EITHER STRUCTURAL ADJUSTMENT (WITHIN TOP 12-INCHES OF RIM ELEVATION) OR STRUCTURAL RECONSTRUCTION (GREATER THAN 12-INCHES IN DEPTH)
  PER THE UNIT PRICES PROVIDED IN THE BID PACKAGE AND THE SCOPE OF WORK DETERMINED AND APPROVED PRIOR TO THE WORK COMMENCING. REPLASTERING OF THE ENTIRE STRUCTURE SHALL BE INCLUDED IN THE UNIT PRICE FOR BOTH STRUCTURAL ADJUSTMENT AND STRUCTURAL RECONSTRUCTION.

#### SUBGRADE UNDERCUTTING NOTES:

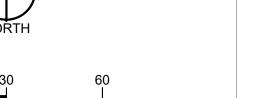
- . THE QUANTITY FOR "SUBGRADE UNDERCUT" FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.
- STABILIZATION IS NECESSARY. DRAIN TILE SHALL BE PLACED WITHIN ANY UNDERCUT AREA AND CONNECTED TO THE CLOSEST CATCH BASIN TO PREVENT GROUNDWATER FROM POOLING WITHIN THE GRANULAR SOILS IN UNDERCUTS AND CREATING "BATHTUBS" IN THE COHESIVE SOILS.
- THE QUANTITY FOR "SUBGRADE UNDERCUT DRAIN TILE (4")" FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL FOOTAGE OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.



6. CONTRACTOR TO REMOVE AND REPLACE SIGNS AND POSTS PER DETAILS ON SHEET C-4.0. ALL SIGNS AND ANY POSTS

7. FOR THE TWO (2) CATCH BASINS, LOCATED IN THE WORK AREA; BIDDERS ARE TO INCLUDE RECONSTRUCTION OF

- TO MINIMIZE SUBGRADE INSTABILITY AND UNDERCUTS, THE SUBGRADE SHALL NOT BE LEFT EXPOSED TO PRECIPITATION AND CONSTRUCTION OPERATIONS AND SHOULD BE PERFORMED DURING THE SUMMER MONTHS TO ENSURE DRY, WARM, WEATHER.
  ADDITIONALLY, THE SUBGRADE MAY BECOME UNSTABLE UNDER
  REPEATED LOADING OF CONSTRUCTION TRAFFIC; THEREFORE, CONSTRUCTION EQUIPMENT SHOULD BE LIMITED ON THE EXPOSED
- SUBGRADE UNDERCUT SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. UNDERCUT EXCAVATIONS SHALL BE BACKFILLED WITH MDOT 21AA DENSE GRADED AGGREGATE
  PLACED IN AN ENGINEERED MANNER. LIFT THICKNESS SHALL NOT
  EXCEED 9 INCHES. THE USE OF TRI—AXIAL GEOGRID MAY BE
  USED TO REDUCE UNDERCUT DEPTHS, AS APPROVED BY THE
  DISTRICT AND PER THE UNIT PRICE PROVIDED WITH THE
- . ALL ENGINEERED FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED BY THE MODIFIED PROCTOR (ASTM D1557) METHOD OF TESTING.
  ALL ENGINEERED FILL MATERIAL SHALL BE PLACED AND
  COMPACTED AT APPROXIMATELY THE OPTIMUM MOIUSTURE CONTENT. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHOULD FILL BE PLACED ON A FROZEN SUBGRADE.
- SUBGRADE UNDERCUT DRAIN TILE SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE



#### **ISSUE DATES**

10-03-2024 CONSTRUCTION DOCUMENTS

09-10-2024 OWNER REVIEW 08-21-2024 INTERNAL COORDINATION 07-24-2024 DESIGN DEVELOPMENT

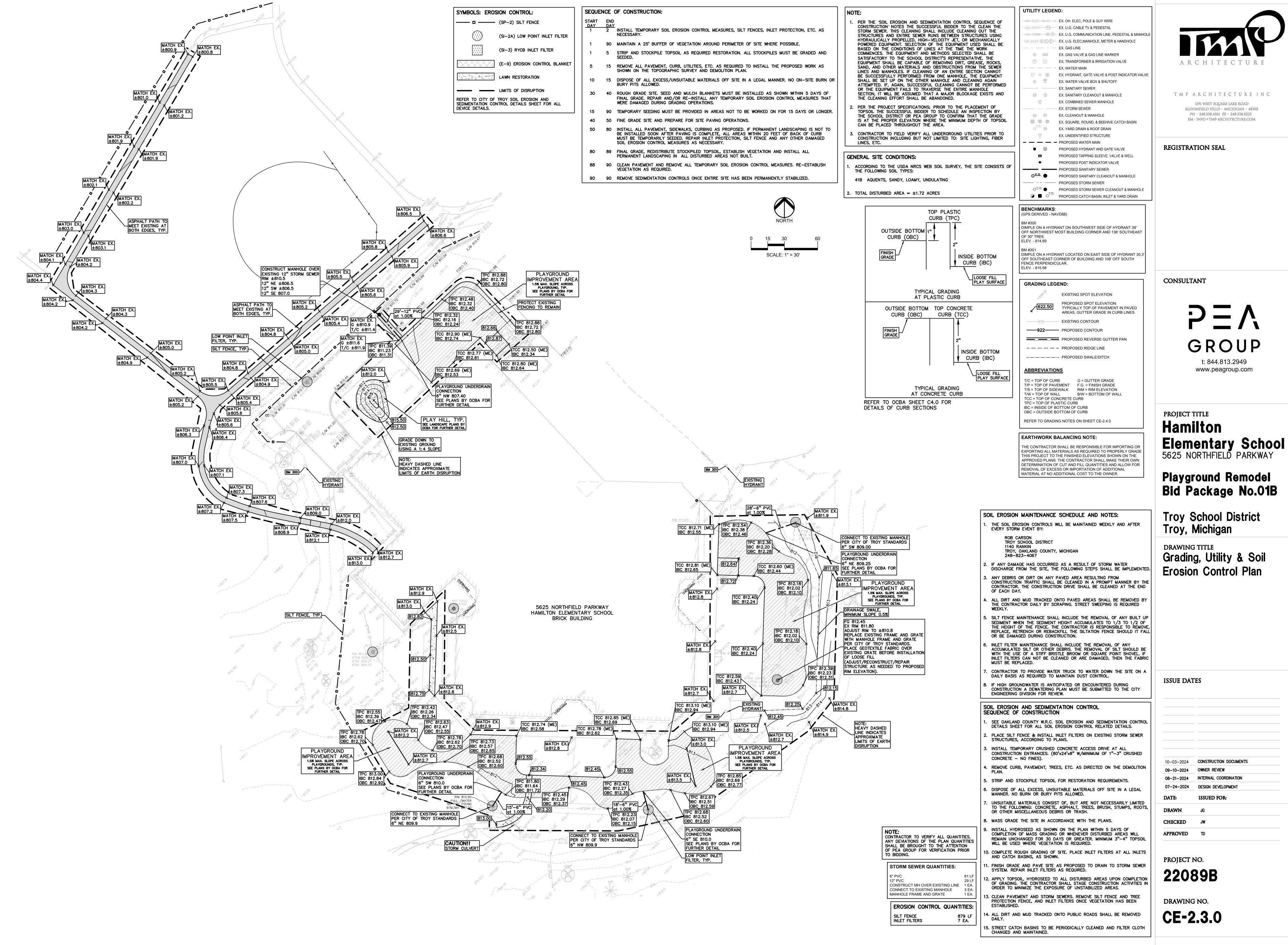
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CHECKED JW APPROVED TD

PROJECT NO.

22089B

DRAWING NO. CE-2.2.0



#### **GENERAL NOTES:**

INSPECTION FEES.

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN

ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS

- THE CONTRACTOR SHALL NOTIFY THE CITY OF TROY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- . THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
- ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION II WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL I PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY OF TROY AND STÀTE SHALL NOT É HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- 10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

- IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
- CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF TH FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD
- ALL EXPANSION JOINTS AND CONCRETE PAVEMENT JOINTS TO BE SEALED
- CONCRETE PAVEMENT JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION; 5.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2" TO
- ALLOW FOR SEALING. 5.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT), PROVIDE 5/8" DOWELS EVERY 30" CENTER TO CENTER HALF WAY ALONG
- THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. 5.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK
- OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. 5.4. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS: 5.4.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12'
- 5.4.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15' 5.5. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK
- ND VIA THE SUBMITTAL PROCESS. . IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- CONCRETE CURBING JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION 5.1. JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT
- 6.1.1. PLACE CONTRACTION JOINTS AT 10' INTERVALS 6.1.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING. 6.1.3. PLACE 1" EXPANSION JOINT:
- 6.1.3.1. AT SPRING POINTS OF INTERSECTIONS OR ONE OF THE END OF RADIUS LOCATIONS IN A CURVE 6.1.3.2. AT 400' MAXIMUM INTERVALS ON STRAIGHT RUNS 6.1.3.3. AT THE END OF RADIUS AT OPPOSITE ENDS IN A CURBED 6.2. JOINTS WHEN TIED TO CONCRETE PAVEMENT
- 6.2.1. PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE

JOINTS IN PAVEMENT

- CONTRACTION JOINTS IN PAVEMENT 6.2.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING. 6.2.3. PLACE 1"EXPANSION JOINT OPPOSITE ALL TRANSVERSE EXPANSION
- 6.2.4. CURB AND GUTTER AND CONCRETE SHALL BE TIED TOGETHER SIMILAR TO A LONGITUDINAL LANE TIE JOINT (MDOT B1 JOINT) 6.3. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION
- 6.3.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
  6.3.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY,
  THEN TIEL TWO PIECES OF REBAR PER THE LATEST MOOT
- CONCRETE SIDEWALK JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION PLACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE
- WALK WHEN WIDTH IS LESS THAN 8' 7.2. PLACE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS EQUAL TO 1/2 THE WIDTH OF THE WALK WHEN WIDTH IS EQUAL TO OR GREATER
- 7.3. PLACE 1" EXPANSION JOINT WHERE ABUTTING SIDEWALK RAMP AND/OR RADIUS IN INTERSECTION 7.4. PLACE TRANSVERSE 1/2" EXPANSION JOINT AT MAXIMUM OF 100'
- 7.5. PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE,

CUT AT AN ANGLÉ OTHER THAN 90° AT THE CURBLINE

OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES). UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS. . WHEN ALONG A CURVE, JOINTS MUST BE PERPENDICULAR TO THE CURVE WITH A MINIMUM LENGTH OF 1 FOOT BEFORE INTERSECTING ANOTHER JOINT(S) IN ANY DIRECTION. NO JOINTS ARE ALLOWED TO BE

#### GENERAL GRADING AND EARTHWORK NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.
- ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN TH SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE WORK AREA BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IS SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION.
- ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFIACTIONS.
- REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
- ALL LANDSCAPING IS TO BE COMPLETED BY STALLANTIS. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES
- SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE ( NFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
- ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
- ). THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS
- THE REMOVAL OF EXISTING SOIL TO GET TO FINAL SUBGRADE ELEVATION SHALL NOT BE CONSIDERED SUBGRADE UNDERCUTTING. IT IS PART OF THE EARTHWORKS TO BALANCE THE SITE AND ESTABLISH THE ELEVATIONS FOR THE PLACEMENT OF THE PROPOSED PAVEMENT ELEVATIONS. THIS SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE EARTHWORKS FOR THE PROJECT.
- . SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW TH TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
- . SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE
- 4. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

#### CONSTRUCTION MATERIAL SUBMITTALS

- UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MATERIA SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER, ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES UTILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCLUDED IN
- THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS STORM SEWER STRUCTURES
- STORM SEWER STRUCTURE FRAME AND COVERS INCLUDING CLEAN OUTS PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED

IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL

- UNLESS APPROVED OTHERWISE BY THE ENGINEER PAVEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFILL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS
- OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST
- FOLLOW THE CURRENT MDOT REVIEW CHECKLISTS AS SUMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER: •8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000)
- •8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1862) •8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)
- SITE FENCING AND GATES
- ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:
- ANY SPECIALITY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.

#### GENERAL UTILITY NOTES:

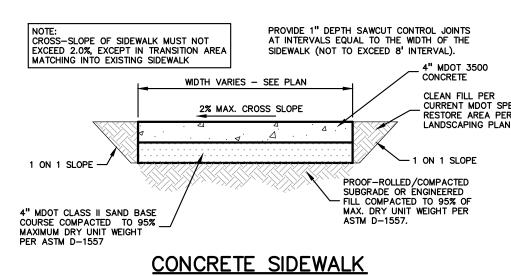
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF TROY. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45)
- DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO
- WHERE EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
- THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY
- THE CONTRACTOR SHALL COORDINATE TO ENSURE ALL REQUIRED PIPES, CONDUITS, CABLES AND SLEEVES ARE PROPERLY PLACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH A MANNER THAT WILL FACILITATE THEIR PROPER INSTALLATION PRIOR TO
- THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING. PIPE LENGTHS INDICATED ARE FROM CENTER OF STRUCTURE AND TO END OF SECTION UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL INSPECT ALL EXISTING PUBLIC STORM SEWER, SANITARY SEWER AND WATER MAIN STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION AND WITH THE GOVERNING AGENCY INSPECTOR PRIOR TO ESTABLISHING FINAL GRADE. NOTIFY THE ENGINEER, OWNER/DEVELOPER, AND GOVERNING AGENCY IF STRUCTURE IS DEEMED TO BE STRUCTURALLY UNSOUND AND/OR IN NEED OF REPAIR.

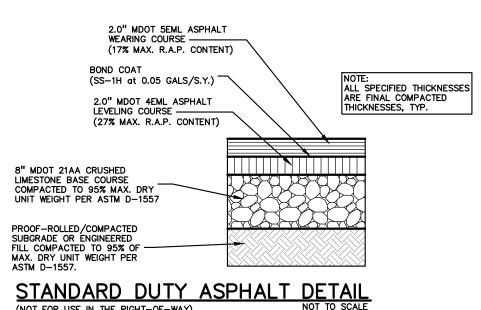
#### STORM SEWER NOTES:

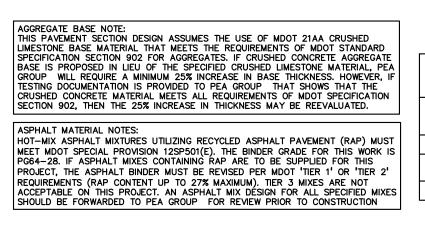
- ALL STORM SEWER LEADS SHALL BE CONSTRUCTED AT 1.00% MINIMUM
- ALL STORM SEWER 10" OR LESS AND/OR LEADS SHALL BE SDR 26.
- SPECIFIED IN A.S.T.M. DESIGNATION D-3212.

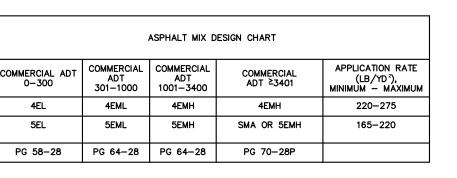
#### GENERAL BARRIER FREE NOTES:

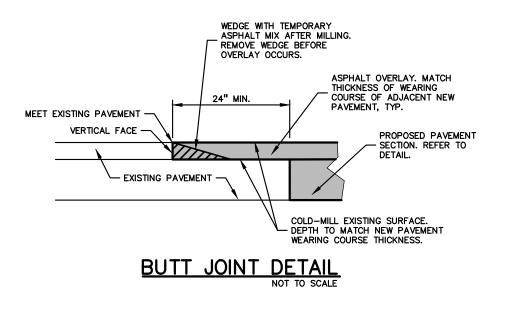
- THE FOLLOWING NOTES PROVIDE AN OUTLINE OF SOME OF THE REQUIREMENTS CONTAINED WITHIN THE "STANDARDS FOR ACCESSIBLE DESIGN — AMERICANS WITH DISABILITIES ACT 2010", AND "ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES", ICC/ANSI A117.1-2009. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REQUIREMENTS PRESENTED WITHIN THESE DOCUMENTS, WHICH ARE AVAILABLE IN FULL UPON REQUEST.
- AN ACCESSIBLE ROUTE CONSISTS OF WALK SURFACES, CURB RAMPS AND RAMPS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN TH SITE FROM ACCESSIBLE PARKING SPACES, ACCESSIBLE PASSENGER LOADING ZONES. PUBLIC STREETS AND SIDEWALKS. AND PUBLIC TRANSPORTATION STOPS TO THE BUILDING OR FACILITY ENTRANCE THEY SERVE. THE RUNNING SLOPE OF ALL WALKING SURFACES SHALL NOT EXCEED 5% (1:20) AND THE CROSS-SLOPE SHALL NOT EXCEED 2% (1:48).
- WALKING SURFACES MUST BE LEVEL WITH PERMITTED VERTICAL CHANGES IN LEVEL NOT TO EXCEED 1/4", OR BEVELED CHANGES IN LEVEL NOT TO EXCEED 1/2". REFER TO DETAIL DET-8 THIS SHEET. ANY CHANGE IN LEVEL GREATER THAN 1/2" MUST BE RAMPED. TURNING SPACES ALONG ACCESSIBLE ROUTES MUST BE AT LEAST 5 FEET WIDE IN ALL DIRECTIONS AND NOT EXCEED 2% SLOPE (1:48) IN ANY
- ACCESSIBLE ROUTES WILL BE DESIGNED TO BE A MINIMUM OF 5 FEET WIDE. THE MINIMUM CLEAR WIDTH IS 3 FEET. RAMPS ALONG ACCESSIBLE ROUTES WILL HAVE A RUNNING SLOPE GREATER THAN 5% (1:20) AND LESS THAN 8.3% (1:12). THE CROSS-SLOPE OF RAMP RUNS SHALL NOT EXCEED 2% (1:48) . THE MINIMUM CLEAR WIDTH OF ANY RAMP IS 36 INCHES.
- THE MAXIMUM RISE FOR ANY RAMP (NOT INCLUDING CURB RAMPS) SHALL NOT EXCEED 30 INCHES. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF EACH RAMP. LANDINGS SHALL HAVE A CROSS-SLOPE NOT EXCEEDING 2% (1:48), SHALL BE 5 FEET LONG AND AT LEAST AS WIDE AS THE RAMP CLEAR WIDTH. IF THERE IS A CHANGE OF DIRECTION AT A LANDING, THEN THE LANDING MUST BE AT LEAST 5 FEET WIDE AND 5 FEET
- 10. CURB RAMPS ALONG ACCESSIBLE ROUTES SHALL NOT RISE MORE THAN 6 INCHES, NOR BE STEEPER THAN 8.3% (1:12). APPROACHING SLOPES TO THE RAMP CANNOT EXCEED 5%, WHICH INCLUDES SIDEWALKS, PAVEMENT, GUTTERS ETC . IF CURB RAMP SIDES ARE FLARED, THE FLARES SHALL NOT BE STEEPER
- 12. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE A MINIMUM OF 36" AND WILL BE AS WIDE AS THE CURB RAMP. 3. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
- 14. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. 15. WHERE DETECTABLE WARNING IS REQUIRED AT CURB RAMPS, THE DETECTABLE WARNING SHALL BE 24" MINIMUM IN DEPTH AND SHALL EXTEND THE FULL WIDTH OF THE RAMP. THE DETECTABLE WARNING SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND
- 16. ACCESSIBLE PARKING SPACES ON SITE SHALL BE PROVIDED AS REQUIRED IN SECTION 502 OF THE A.D.A. IF THE SITE HAS MORE THAN ONE PARKING FACILITY, EACH FACILITY IS REQUIRED TO MEET THESE REQUIREMENTS SEPARATELY. THE REQUIRED NUMBER OF SPACES SHALL BE BASED ON THE OTAL NUMBER OF PARKING SPACES IN EACH PARKING FACILITY ON SITE. FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, ONE
- VAN ACCESSIBLE SPACE SHALL BE PROVIDED. 18. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM PARKING TO A BUILDING ENTRANCE. IF THERE IS MORE THAN ONE ACCESSIBLE ENTRANCE, PARKING SHALL BE DISPERSED ALONG THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES BARRIER FREE CAR PARKING SPACES SHALL BE A MINIMUM OF 8 FEET WIDE WITH AN ACCESS AISLE 5 FEET WIDE MINIMUM. VAN ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 11 FEET WIDE WITH A 5' WIDE ACCESS AISLE. VAN ACCESSIBLE SPACES ARE ALSO ACCEPTABLE WITH AN 8 FOOT WIDTH AND 8 FOOT WIDE ACCESS AISLE. THE ACCESS AISLE IN ALL CASES MUST EXTEND THE FULL LENGTH OF THE PARKING SPACE. O. SURFACE SLOPES WITHIN THE PARKING SPACES AND AISLES SHALL NOT
- EXCEED 2% (1:48) 21. ACCESSIBLE AREÁS INCLUDING PARKING SPACES, AISLES AND PATHWAYS, REQUIRE A MINIMUM VERTICAL CLEARANCE OF 98 INCHES. 22. ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. VAN PARKING SPACES ARE REQUIRED TO BE DESIGNATED AS "VAN ACCESSIBLE". REFER TO DETAILS ON THIS SHEET.



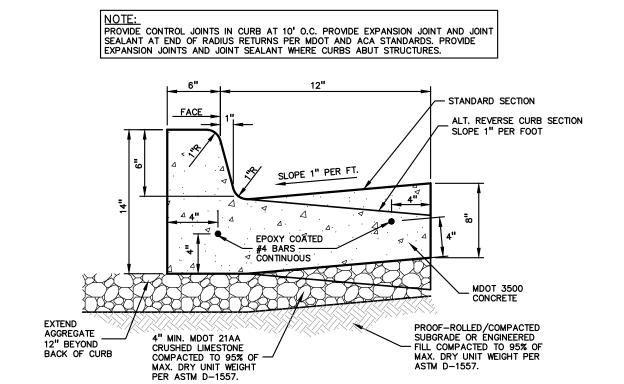




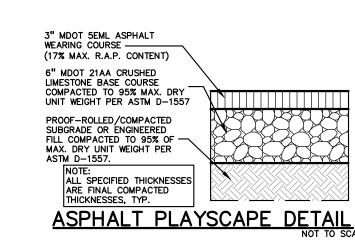


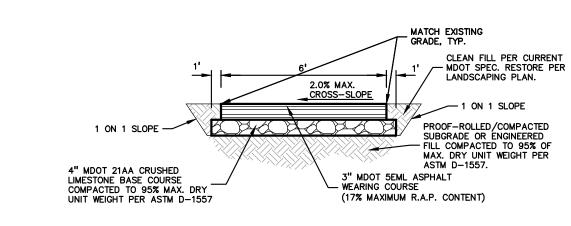


#### ALTERNATE REVERSE CURB SECTION TO BE USED ONLY WHEN DRAINING AWAY FROM CURB. SEE PLAN FOR LOCATION

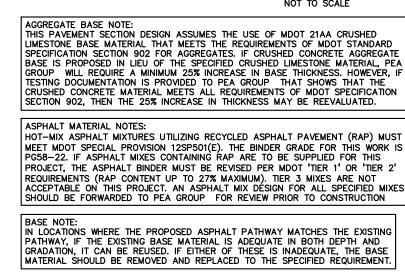


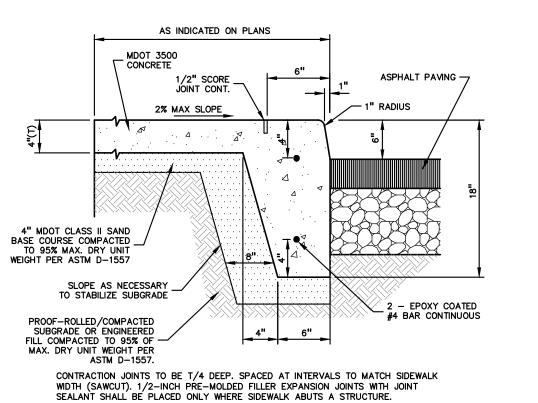
18"x6" STANDARD CONCRETE CURB AND GUTTER





**ASPHALT PATHWAY DETAIL** 





INTEGRAL CURB AND SIDEWALK



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD **BLOOMFIELD HILLS · MICHIGAN · 48302** PH · 248.338.4561 FX · 248.338.0223 EM · INFO @ TMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT



PROJECT TITLE Hamilton Elementary School 5625 NORTHFIELD PARKWAY

Playground Remodel Bid Package No.01B

**Troy School District** Troy, Michigan

**DRAWING TITLE Notes & Details** 

**ISSUE DATES** 

10-03-2024 CONSTRUCTION DOCUMENTS 09-10-2024 OWNER REVIEW 08-21-2024 INTERNAL COORDINATION DESIGN DEVELOPMENT

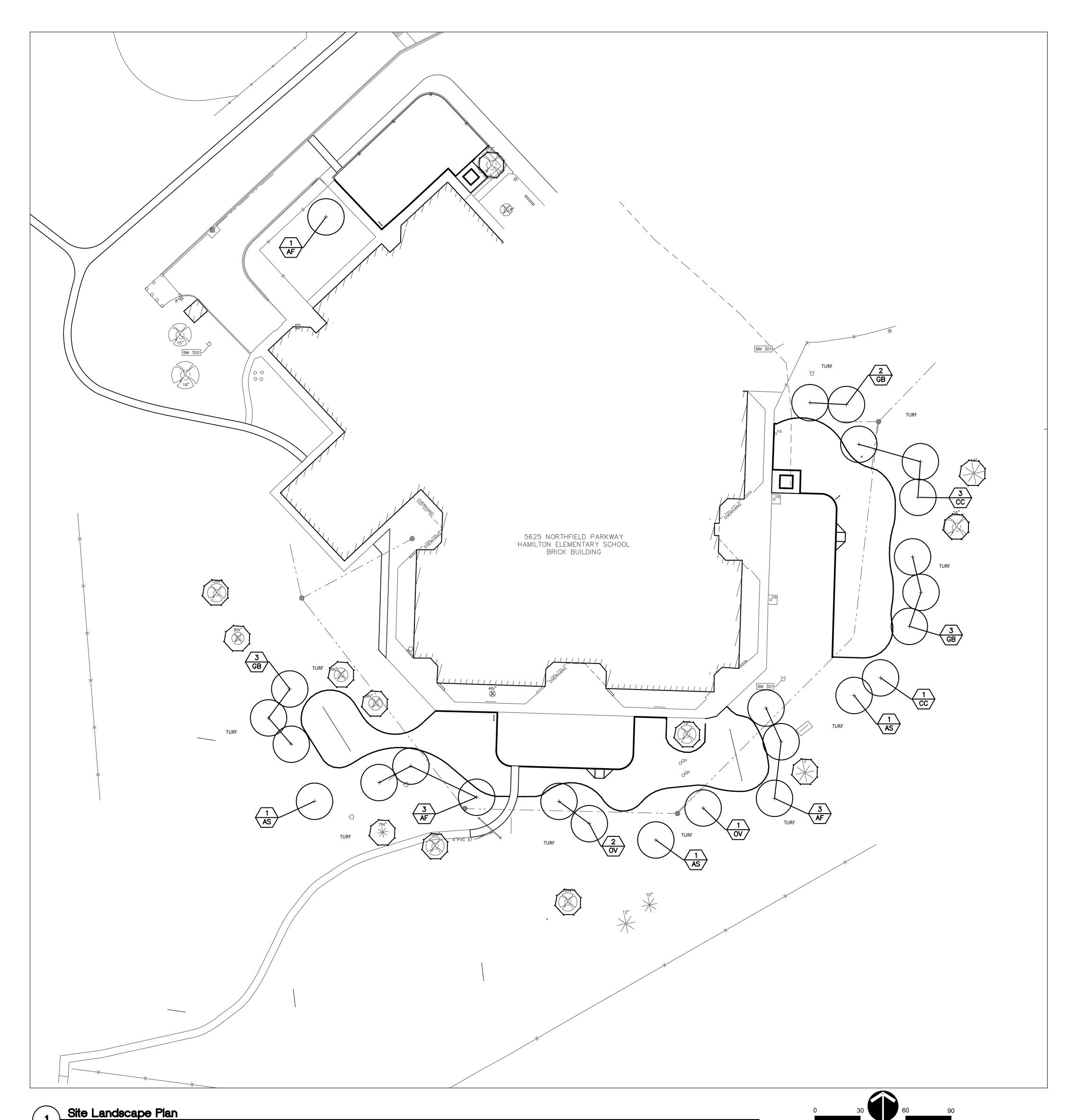
ISSUED FOR:

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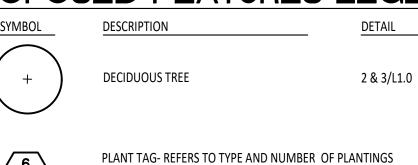
PROJECT NO. 22089B

DRAWING NO.

CE-2.4.0



PROPOSED FEATURES LEGEND:



TO BE PROVIDED AND MAINTAINED BY CONTRACTOR.

#### LANDSCAPE NOTES:

GROUND COVER BEDS.

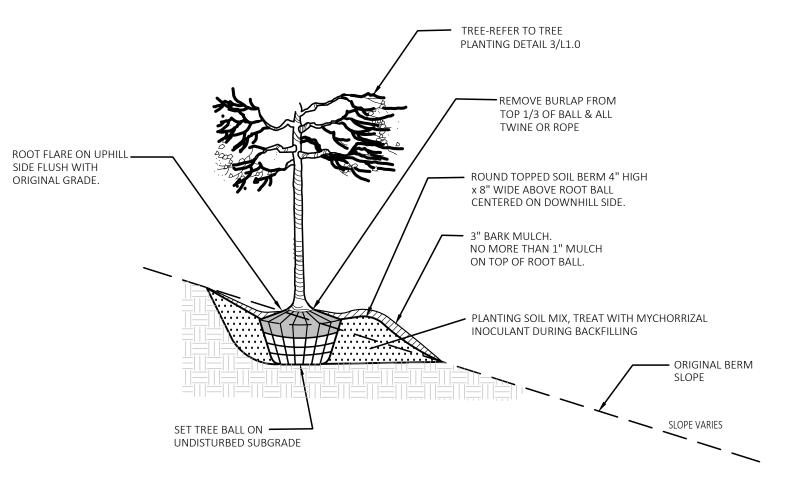
- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
- CALL "MISS DIG" AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171. ANY UTILITIES DISTURBED BY CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHOULD BE REPORTED TO
- 4. IN AREAS OF NEW TURF PLACE 4" MINIMUM TOPSOIL, FINE GRADE & ESTABLISH TURF WITHIN SEED LIMIT
- PLACE SHREDDED HARDWOOD MULCH TO A 3" DEPTH IN ALL TREE & SHRUB BEDS & TO A 2" DEPTH IN ALL
- UNLESS OTHERWISE NOTED, TOPSOIL, FINE GRADE AND SEED ALL DISTURBED AREAS WITHIN THE SEEDING LIMIT SHOWN AND AREAS DISTURBED BY CONSTRUCTION.
- REPAIR AND RESTORE ANY DAMAGE OUTSIDE OF LIMIT OF WORK LINE TO ORIGINAL CONDITION.
- 3. PROTECT ALL TREES AND EXISTING FEATURES TO REMAIN AS SPECIFIED.

THE CONSTRUCTION MANAGER IMMEDIATELY FOR RESOLUTION.

- . ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF
- 10. ALL NURSERY STOCK SHALL BE TRUE TO TYPE AND NAME. ALL STOCK SHALL BE FIRST CLASS QUALITY WITH WELL DEVELOPED BRANCH SYSTEMS AND VIGOROUS HEALTHY ROOT SYSTEMS. ALL STOCK SHALL BE WELL FORMED AND THE TRUNKS OF TREES SHALL BE UNIFORM AND STRAIGHT.
- 1. CONTRACTOR RESPONSIBLE TO LOCATE SITE LIGHTING SERVICES. CONTRACTOR RESPONSIBLE TO NOTIFY CONSTRUCTION MANAGER IF DAMAGE TO LIGHTING ELECTRICAL DISTRIBUTION OCCURS.
- 12. ALL AREAS OF TREE CLEARING SHALL BE STAKED FOR ARCHITECTS APPROVAL PRIOR TO CLEARING.
- 13. UNLESS OTHERWISE SPECIFIED, ALL PERENNIALS, GRASSES AND GROUNDCOVERS SHALL BE GROWN IN THEIR CONTAINER FOR ONE YEAR PRIOR TO INSTALLATION.

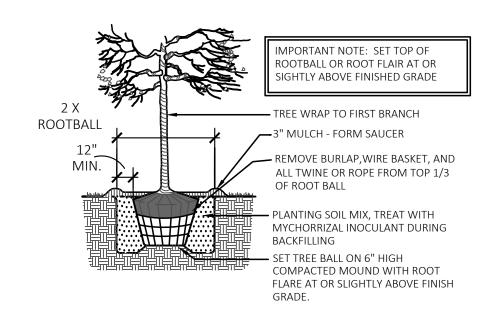
#### PLANT LIST:

	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	STATUS
	AF	Acer x freemanii 'Marmo'	Marmo Freeman Maple	2" CAL.	B&B	PER PLANS	NATIVAR
	AS	Acer saccharum 'Commemoration'	Commemoration Sugar Maple	2" CAL.	B&B	PER PLANS	NATIVE
TREES	СС	Carpinus caroliniana	Hornbeam	2" CAL.	B&B	PER PLANS	NATIVE
	GB	Ginkgo biloba 'Autumn Gold'	Autumn Gold Gingko Tree (no female)	2" CAL.	B&B	PER PLANS	NON-NATIVE
	OV	Ostrya virginiana	Hophornbeam	2" CAL.	B&B	PER PLANS	NATIVE



2 Tree On Berm Detail 1/4 Slope or Greater

NOT TO SCALE



Tree Planting Detail



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**REGISTRATION SEAL** 



141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944

Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

## PROJECT TITLE **Hamilton** Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Site Landscape Plan

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10-03-2024	CONSTRUCTION DOCUMENTS	
DATE:	ISSUED FOR:	

PROJECT NO.

**CHECKED** DID

**APPROVED** DID

22089B

DRAWING NO. **L1.0**