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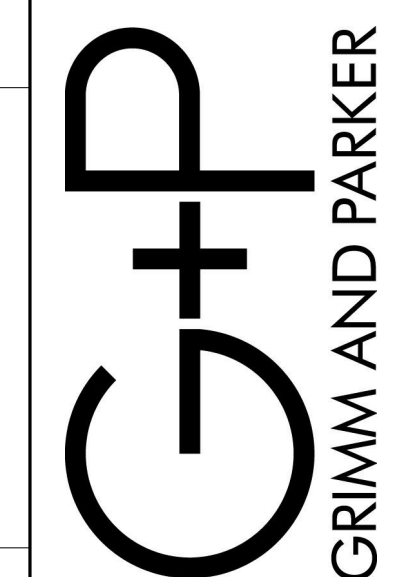
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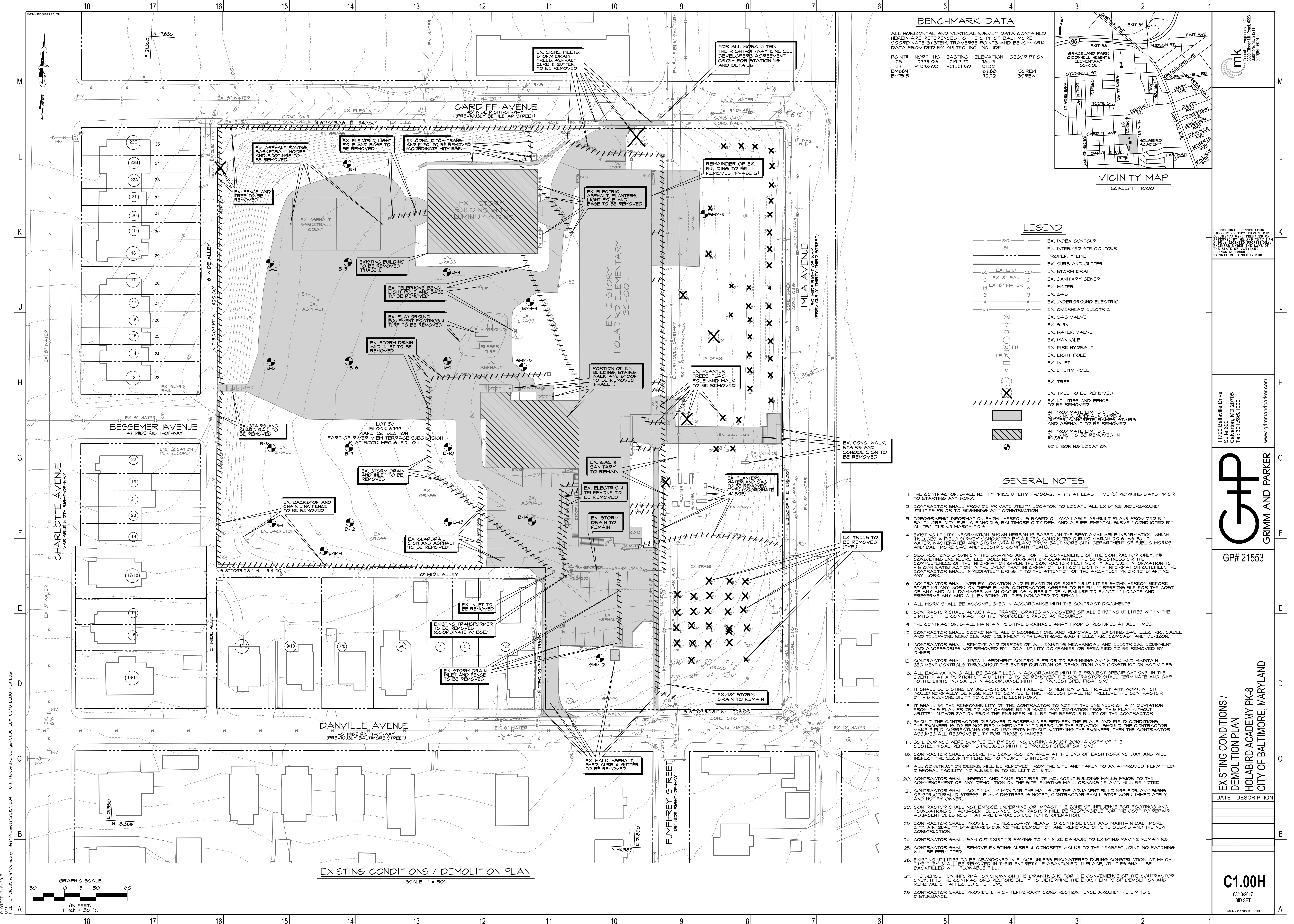


GP# 21553

LIST OF DRAWINGS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

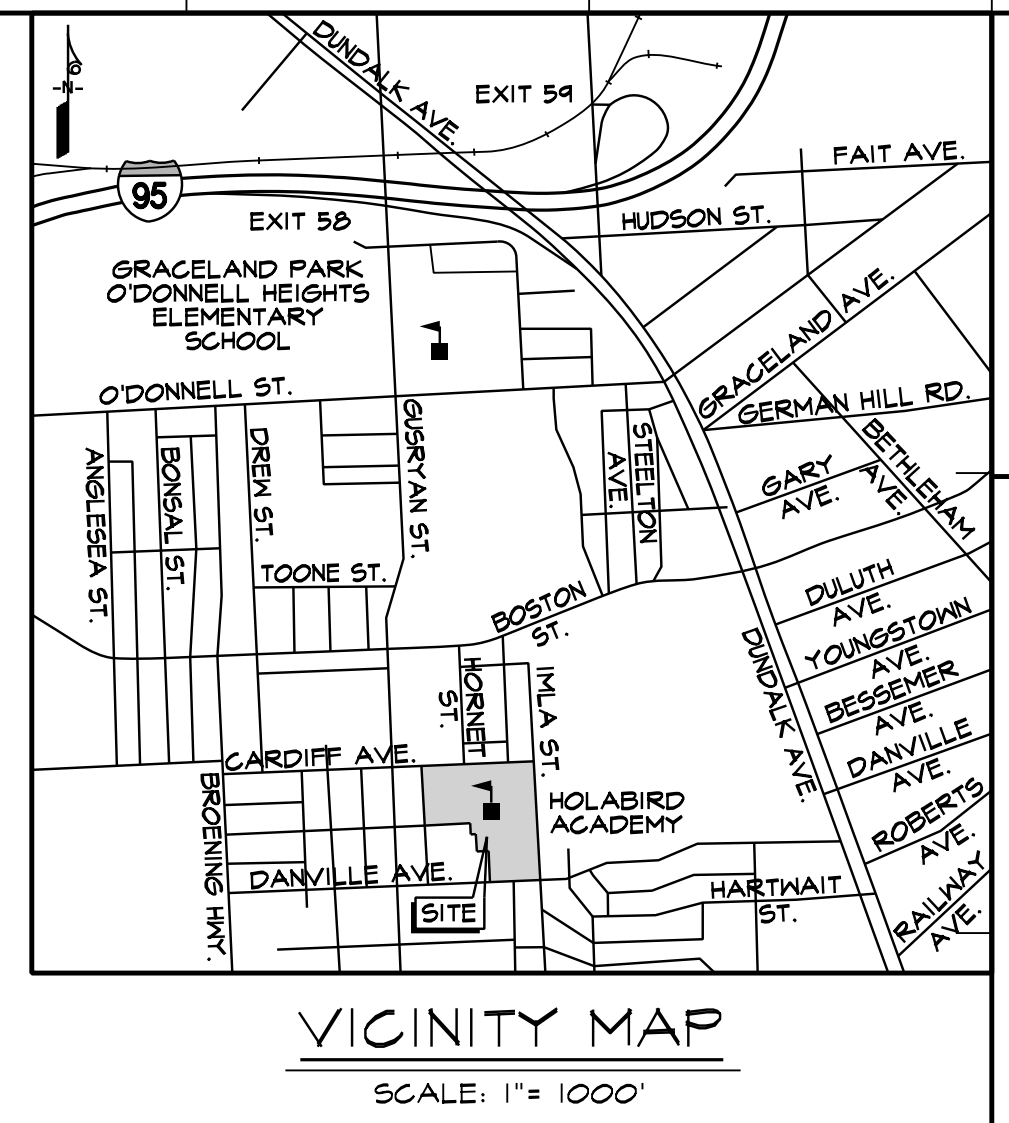
TS-2H
03/13/2017
BID SET



BENCHMARK DATA

ALL HORIZONTAL AND VERTICAL SURVEY DATA CONTAINED HEREIN ARE REFERENCED TO THE CITY OF BALTIMORE COORDINATE SYSTEM. TRAVERSE POINTS AND BENCHMARK DATA PROVIDED BY ALTEC, INC. INCLUDE:

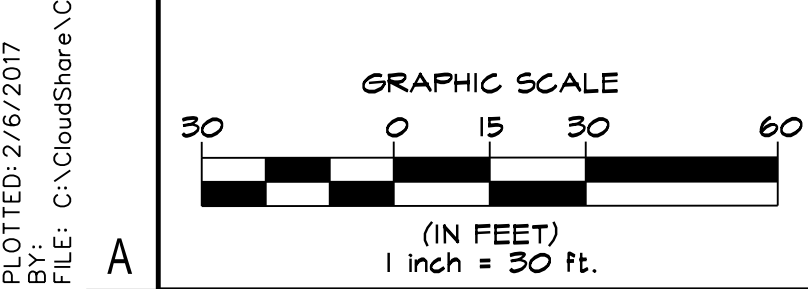
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
28	-7785.06	-2191.87	76.43	
54	-7878.03	-2152.80	81.30	
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BMT515			12.72	SCREW



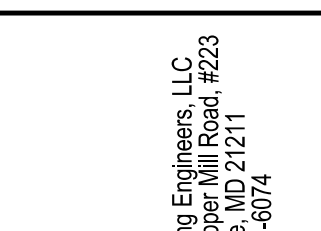
LEGEND

---	80	EX. INDEX CONTOUR
---	81	EX. INTERMEDIATE CONTOUR
---		PROPERTY LINE
---		EX. CURB AND GUTTER
---	50	EX. STORM DRAIN
---	5	EX. 8" SAN.
---	8	EX. 8" WATER
---	8	EX. GAS
---	6	EX. UNDERGROUND ELECTRIC
---	0H	EX. OVERHEAD ELECTRIC
---		EX. GAS VALVE
---		EX. SIGN
---		EX. WATER VALVE
---		EX. MANHOLE
---		EX. FIRE HYDRANT
---		EX. LIGHT POLE
---		EX. INLET
---		EX. UTILITY POLE
---		EX. TREE
---		EX. TREE TO BE REMOVED
---		EX. UTILITIES AND FENCE TO BE REMOVED
---		APPROXIMATE LIMITS OF EX. BUILDINGS, SIDEWALK, CURB & GUTTER, CONCRETE STAIRS AND ASPHALT TO BE REMOVED
---		APPROXIMATE LIMITS OF BUILDING TO BE REMOVED IN PHASE
---		SOIL BORING LOCATION

- ### GENERAL NOTES
1. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" 1-800-291-1111 AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK.
 2. CONTRACTOR SHALL PROVIDE PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
 3. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AVAILABLE AS-BUILT PLANS PROVIDED BY BALTIMORE CITY PUBLIC SCHOOLS, BALTIMORE CITY DPW, AND A SUPPLEMENTAL SURVEY CONDUCTED BY ALTEC, DURING MARCH 2016.
 4. EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED ON THE BEST AVAILABLE INFORMATION, WHICH INCLUDES A FIELD SURVEY CONDUCTED BY ALTEC, DURING MARCH 2016. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, WATER, MASTERWATER AND STORM DRAIN PLANS FROM BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS AND BALTIMORE GAS AND ELECTRIC COMPANY PLANS.
 5. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC, DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION. IN THE EVENT THAT INFORMATION IS IN CONFLICT WITH INFORMATION OBTAINED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ATTENTION OF THE ARCHITECT PRIOR TO STARTING ANY WORK.
 6. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN BEFORE STARTING ANY WORK ON THESE PLANS. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES INDICATED TO REMAIN.
 7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 8. CONTRACTOR SHALL ADJUST ALL FRAMES, GRATES AND COVERS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE CONTRACT TO THE PROPOSED GRADES AS REQUIRED.
 9. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AT ALL TIMES.
 10. CONTRACTOR SHALL COORDINATE ALL DISCONNECTIONS AND REMOVAL OF EXISTING GAS, ELECTRIC, CABLE AND TELEPHONE SERVICES AND EQUIPMENT WITH BALTIMORE GAS & ELECTRIC, COMCAST AND VERIZON.
 11. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT NECESSARIES NOT REMOVED BY LOCAL UTILITY COMPANIES, OR SPECIFIED TO BE REMOVED BY OWNER.
 12. CONTRACTOR SHALL INSTALL SEDIMENT CONTROLS PRIOR TO BEGINNING ANY WORK AND MAINTAIN SEDIMENT CONTROLS THROUGHOUT THE ENTIRE DURATION OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
 13. ALL EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A PORTION OF A UTILITY IS TO BE REMOVED, THE CONTRACTOR SHALL TERMINATE AND CAP TO THE LIMITS INDICATED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 14. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 16. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
 17. SOIL BORINGS WERE COMPLETED BY EGS, INC. DURING AUGUST 2016. A COPY OF THE GEOTECHNICAL REPORT IS INCLUDED WITH THE PROJECT SPECIFICATIONS.
 18. CONTRACTOR SHALL SECURE THE CONSTRUCTION AREA AT THE END OF EACH WORKING DAY AND WILL INSPECT THE SECURITY FENCING TO INSURE ITS INTEGRITY.
 19. ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE SITE AND TAKEN TO AN APPROVED, PERMITTED DISPOSAL FACILITY. NO RUBBLE IS TO BE LEFT ON SITE.
 20. CONTRACTOR SHALL INSPECT AND TAKE PICTURES OF ADJACENT BUILDING WALLS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION ON THE SITE. EXISTING WALL GRASSES (IF ANY) WILL BE NOTED.
 21. CONTRACTOR SHALL CONTINUALLY MONITOR THE WALLS OF THE ADJACENT BUILDINGS FOR ANY SIGNS OF STRUCTURAL DISTRESS. IF ANY DISTRESS IS NOTED, CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY OWNER.
 22. CONTRACTOR SHALL NOT EXPOSE, UNDERMINE OR IMPACT THE ZONE OF INFLUENCE FOR FOOTINGS AND FOUNDATIONS OF ADJACENT BUILDINGS. CONTRACTOR WILL BE RESPONSIBLE FOR THE COST TO REPAIR ADJACENT BUILDINGS THAT ARE DAMAGED DUE TO HIS OPERATION.
 23. CONTRACTOR SHALL PROVIDE THE NECESSARY MEANS TO CONTROL DUST AND MAINTAIN BALTIMORE CITY AIR QUALITY STANDARDS DURING THE DEMOLITION AND REMOVAL OF SITE DEBRIS AND THE NEW CONSTRUCTION.
 24. CONTRACTOR SHALL SAW CUT EXISTING PAVING TO MINIMIZE DAMAGE TO EXISTING PAVING REMAINING.
 25. CONTRACTOR SHALL REMOVE EXISTING CURBS & CONCRETE WALKS TO THE NEAREST JOINT. NO PATCHING WILL BE PERMITTED.
 26. EXISTING UTILITIES TO BE ABANDONED IN PLACE UNLESS ENCOUNTERED DURING CONSTRUCTION AT WHICH TIME THEY SHALL BE REMOVED IN THEIR ENTIRETY. IF ABANDONED IN PLACE, UTILITIES SHALL BE BACKFILLED WITH FLOWABLE FILL.
 27. THE DEMOLITION INFORMATION SHOWN ON THIS DRAWING IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LIMITS OF DEMOLITION AND REMOVAL OF AFFECTED SITE ITEMS.
 28. CONTRACTOR SHALL PROVIDE 8' HIGH TEMPORARY CONSTRUCTION FENCE AROUND THE LIMITS OF DISTURBANCE.



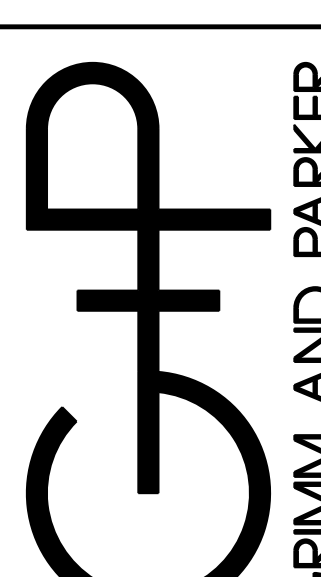
EXISTING CONDITIONS / DEMOLITION PLAN
SCALE: 1" = 30'



mk
3300 Old Baltimore Road, #203
Baltimore, MD 21211
Tel: 410-661-6014

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 20006 EXPIRATION DATE 11-17-2018

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Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



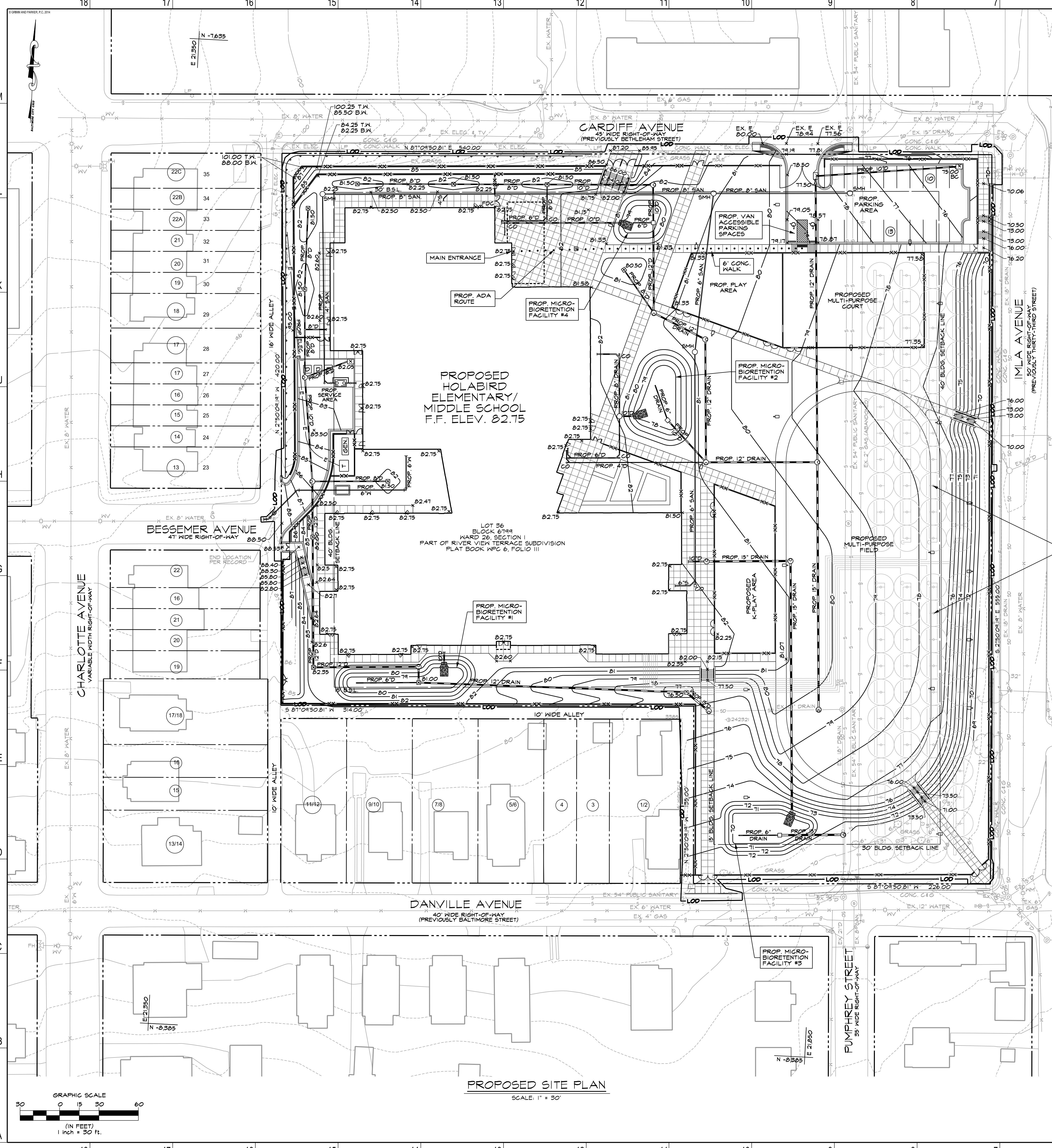
GRIMM AND PARKER

GP# 21553

EXISTING CONDITIONS /
DEMOLITION PLAN
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

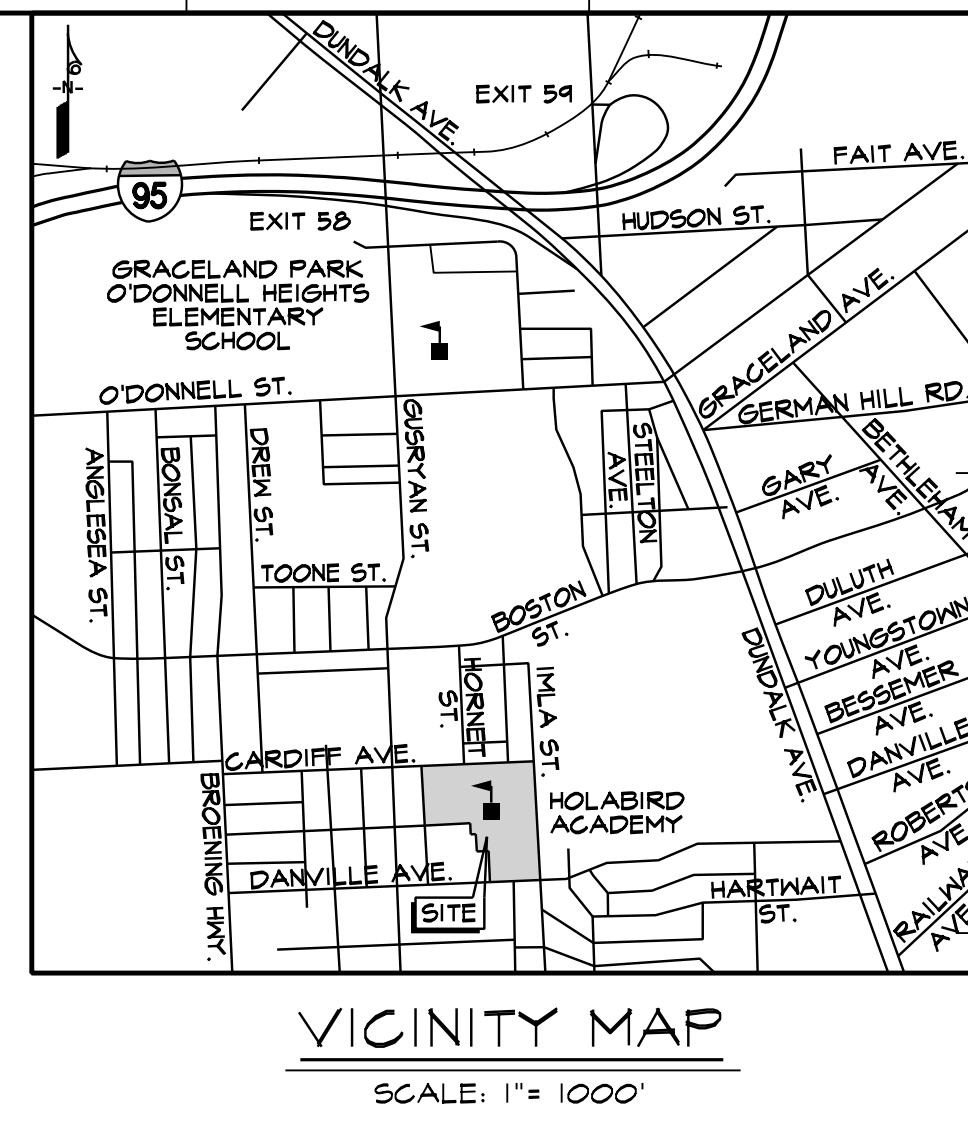
C1.00H
03/13/2017
BID SET



BENCHMARK DATA

ALL HORIZONTAL AND VERTICAL SURVEY DATA CONTAINED HEREIN ARE REFERENCED TO THE CITY OF BALTIMORE COORDINATE SYSTEM. TRAVERSE POINTS AND BENCHMARK DATA PROVIDED BY AULTEC, INC. INCLUDE:

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
28	-7745.06	-21918.47	76.43	EX. 12" WATER
54	-1878.03	-21521.80	81.30	EX. 6" WATER
BM6647			61.65	SCREW SCREIN
BMT515			12.12	SCREW SCREIN



LEGEND

— 80 —	EX. INDEX CONTOUR	⊙	EX. TREE
— 74 —	EX. INTERMEDIATE CONTOUR	□	PROP. CONTOUR
---	PROPERTY LINE	▬▬▬▬	PROP. CONCRETE WALK
---	EX. CURB AND GUTTER	▬▬▬▬	PROP. CURB AND GUTTER
---	EX. STORM DRAIN	— XX —	PROP. FENCE
---	EX. SANITARY SEWER	— PROP. 15" D —	PROP. STORM DRAIN
---	EX. WATER	○	PROP. MANHOLE
---	EX. GAS	□	PROP. INLET
---	EX. UNDERGROUND ELECTRIC	□	PROP. WATER
---	EX. OVERHEAD ELECTRIC	□	PROP. WATER VALVE
---	EX. GAS VALVE	□	PROP. SANITARY SEWER
---	EX. SIGN	□	PROP. ELECTRIC (SEE ELECTRICAL PLANS)
---	EX. WATER VALVE	□	PROP. PARKING SPACES
---	EX. MANHOLE	□	PROP. SIGN
---	EX. FIRE HYDRANT	□	PROP. ADA ACCESSIBLE ROUTE
---	EX. LIGHT POLE	□	SOIL BORING LOCATION
---	EX. INLET	□	PROP. LIGHT POLE (SEE ELECTRICAL PLANS)
---	EX. UTILITY POLE	□	

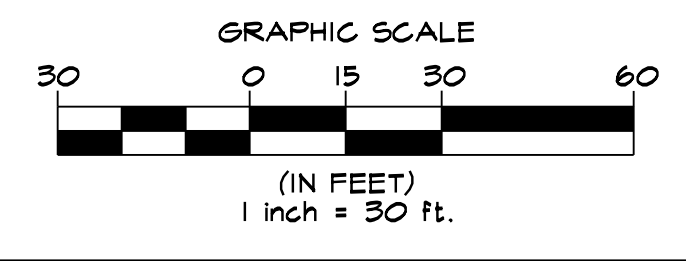
SITE DATA

- SITE ADDRESS: 1500 IMLA STREET, BALTIMORE, MD 21224
- WARD: 26
- SECTION: 01
- BLOCK: 6144
- LOT: 096
- PROPERTY OWNER: MAYOR AND CITY COUNCIL OF BALTIMORE
- TOTAL SITE AREA: 6.88 AC.±
- SITE IS LOCATED WITHIN THE BALTIMORE HARBOR WATERSHEDS
- SITE LIES WITHIN WITHIN ZONE X (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD) AS SHOWN ON FIRM MAP, DATED APRIL 2, 2014.
- SITE IS NOT LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
- SETBACKS REQUIRED: FRONT LOT REAR LOT STREET CORNER LOT
SETBACKS PROVIDED: 23' 30' 34'
- ZONING: R5
- USE: EXISTING - ELEMENTARY SCHOOL
PROPOSED - ELEMENTARY SCHOOL
- CONSTRUCTION TYPE: SLAB ON GRADE
- BUILDING USE: INSTITUTIONAL
- BUILDING SQUARE FOOTAGE: EXISTING = 38,640 SQ. FT. / PROPOSED = 63,100 SQ. FT.
- PARKING REQUIRED:
VEHICLE PARKING:
ELEMENTARY SCHOOL IN R5 ZONE: 1 SPACE PER 2 TEACHERS (60 TEACHERS) = 30 SPACES
ELEMENTARY SCHOOL IN R5 ZONE: 1 SPACE PER 12 AUDITORIUM SEATS (12 SEATS) = 15 SPACES
ACCESSIBLE PARKING: 2 SPACES (WITH 1 VAN SPACE INCLUDED)
BICYCLE PARKING:
1 SPACE PER 10 VEHICLE SPACE OR 23 SPACES
LOW EMISSION FUEL EFFICIENT VEHICLE PARKING:
5% OF PROPOSED PARKING (5% OF 23 = 1.15 SPACES)
- PARKING PROVIDED:
VEHICLE PARKING:
21 SPACES
2 ACCESSIBLE SPACES (INCLUDING 1 VAN ACCESSIBLE SPACE)
BICYCLE PARKING:
6 SPACES
LOW EMISSION FUEL EFFICIENT VEHICLE PARKING:
2 SPACES

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" (1-800-251-TTTT) AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK.
- CONTRACTOR SHALL PROVIDE A PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
- EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED ON THE BEST AVAILABLE INFORMATION WHICH INCLUDES FIELD SURVEYS CONDUCTED BY AULTEC, INC. CONDUCTED DURING MARCH 2016. ASHUTTE WATER, WASTEWATER AND STORM DRAIN PLANS FROM BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS, BALTIMORE GAS AND ELECTRIC COMPANY PLANS, AND EXISTING SITE AND UTILITY PLANS PROVIDED BY BALTIMORE CITY PUBLIC SCHOOLS.
- OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION. IN THE EVENT THAT INFORMATION IS IN CONFLICT WITH INFORMATION OUTLINED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT PRIOR TO STARTING ANY WORK.
- TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON BALTIMORE CITY GIS AND A FIELD SURVEY CONDUCTED BY AULTEC, INC. DURING MARCH 2016.
- REMOVAL OF ANY SIDEWALK AND/OR CURB AND GUTTER SHALL BE TO THE NEAREST JOINT. NO PATCHING SHALL BE PERMITTED.
- ADJUST TOP OF CURB GRADES TO PROVIDE SMOOTH TRANSITION.
- SAW CUT EXISTING PAVING AS NEEDED TO INSTALL NEW CONSTRUCTION.
- STRIP AND RESURFACE EXISTING PAVING AS NEEDED TO PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- THE CONTRACTOR SHALL NOTE THAT IN CASE OF ANY DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS, THE FIGURED DIMENSIONS SHALL GOVERN.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL TIE-IN ELEVATIONS.
- STRUCTURAL FILL IN BUILDING AND PAVEMENT AREAS SHALL BE PLACED IN HORIZONTAL EIGHT-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR OR COMPACTION TEST (ASTM D 1557). THE MOISTURE CONTENT OF THE MATERIAL SHALL BE NO MORE THAN 2 PERCENTAGE POINTS ABOVE OR 2 PERCENTAGE POINTS BELOW THE OPTIMUM MOISTURE CONTENT ESTABLISHED FOR THE MATERIAL PER ASTM D 698. FILL MATERIAL IS IN THE UPPER ONE FOOT OF 5/8" SUBGRADES SHALL BE COMPACTED TO AT LEAST 90 PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE SUB-GRADE UNTIL IT RECEIVES FINAL SURFACE TREATMENT AND SHALL MAINTAIN THE SUB-GRADE AS SUITABLE AND ACCEPTABLE TO THE OWNER OR OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE RESTORATION OR REPLACEMENT OF THE SUB-GRADE DUE TO MOISTURE DAMAGE, CONSTRUCTION TRAFFIC, OR ANY OTHER CAUSE. REPAIR OR REPLACEMENT OF THE SUB-GRADE SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST BALTIMORE CITY STANDARD DETAILS AND SPECIFICATIONS AND ALL REVISIONS THERE TO, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ADJUST ALL FRAMES, GRATES AND COVERS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE CONTRACT TO THE PROPOSED GRADES, AS REQUIRED.
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO SLOAKES AND/OR STORM DRAIN SYSTEMS AT ALL TIMES.
- PAVING REPAIR SHALL BE IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAIL BC 576.01.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL SITE ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE ADA 2010 STANDARDS FOR ACCESSIBLE DESIGN OR MOST CURRENT.

PROPOSED SITE PLAN
SCALE: 1" = 30'



mk
MK CONSULTING ENGINEERS, LLC
3300 Old Baltimore Road, #203
Baltimore, MD 21211
Tel: 410-661-6014

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 20004 EXPIRATION DATE 11-17-2018

11720 Beltsville Drive
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Tel: 301.595.1000
www.grimmandparker.com

GP# 21553

GRIMM AND PARKER

PROPOSED SITE PLAN

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C2.00H

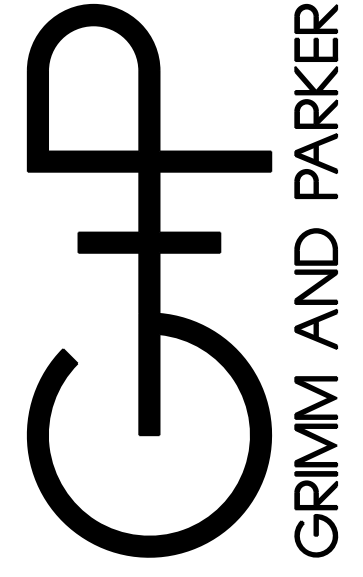
03/13/2017
BID SET

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DOCUMENTS WERE PREPARED OR
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ENGINEER UNDER THE LAWS OF
THE STATE OF MARYLAND
LICENSE NO. 20026
EXPIRATION DATE 11-17-2018

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Suite 600
Calverton, MD 20705
Tel: 301.595.1000
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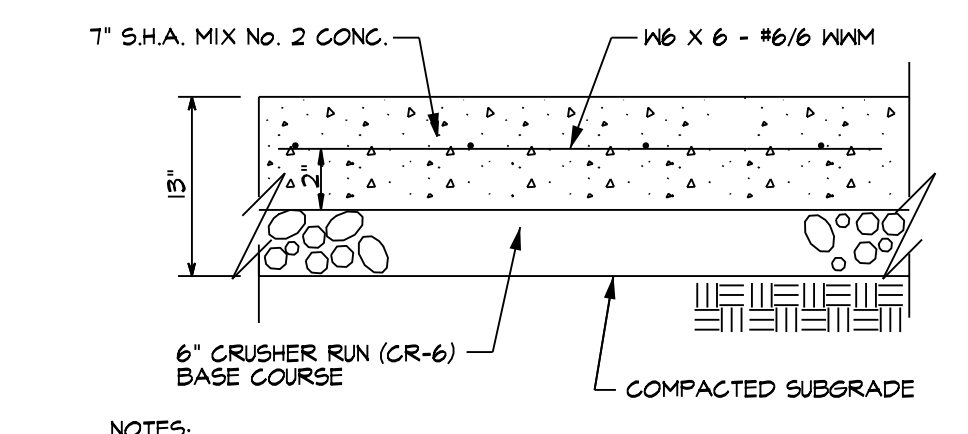


GP# 21553

SITE DETAILS
HOLBARD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

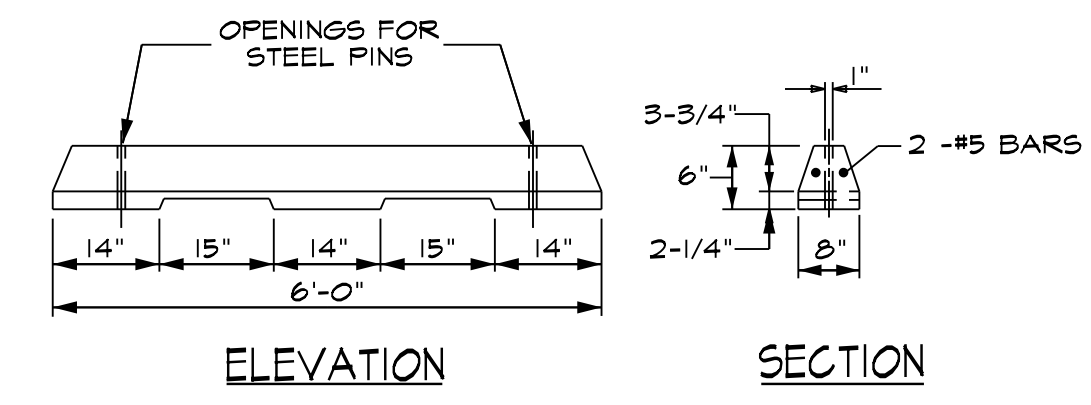
DATE	DESCRIPTION

C3.00H
03/13/2017
BID SET



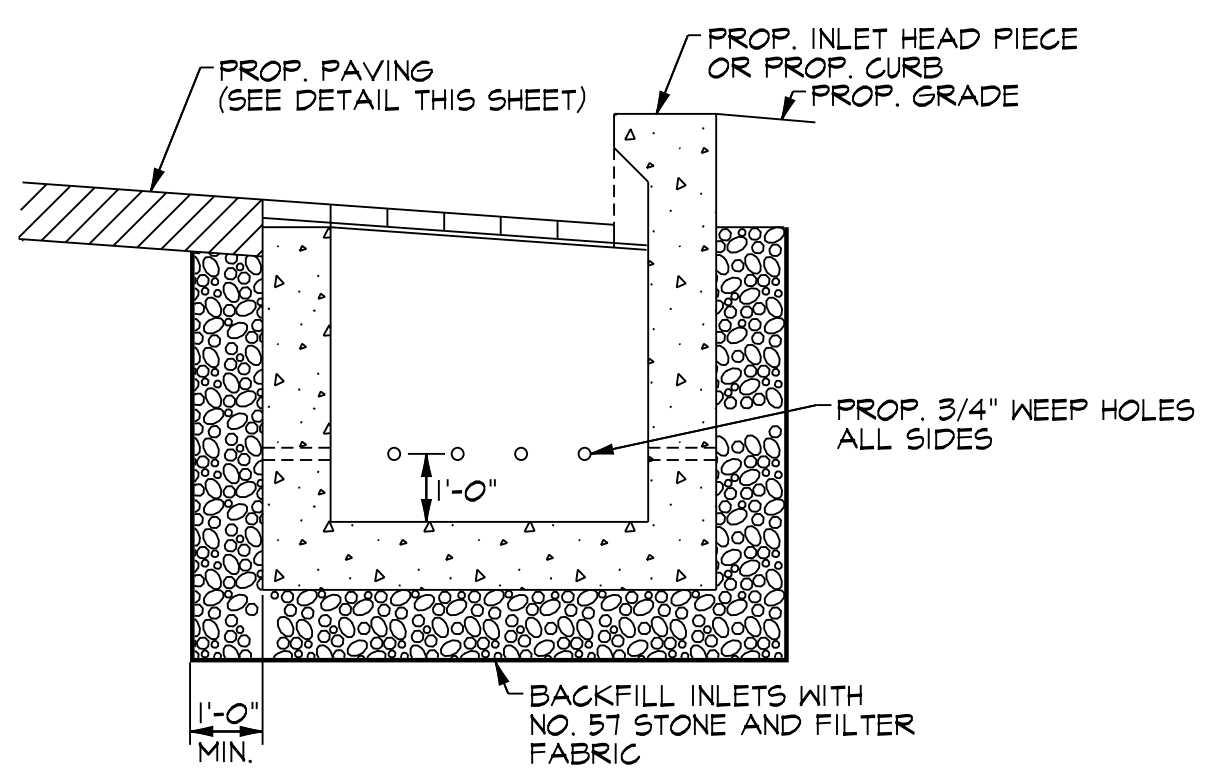
NOTES:
1. EXPANSION JOINTS SHALL BE AT THE LOCATIONS SHOWN ON THE PLANS. SEE TIE-IN AT EXPANSION JOINT DETAIL THIS SHEET.
2. MINIMUM 28 DAY COMPRESSION STRENGTH 4000psi.

4 REINFORCED CONCRETE PAVING DETAIL
C3.00H NOT TO SCALE

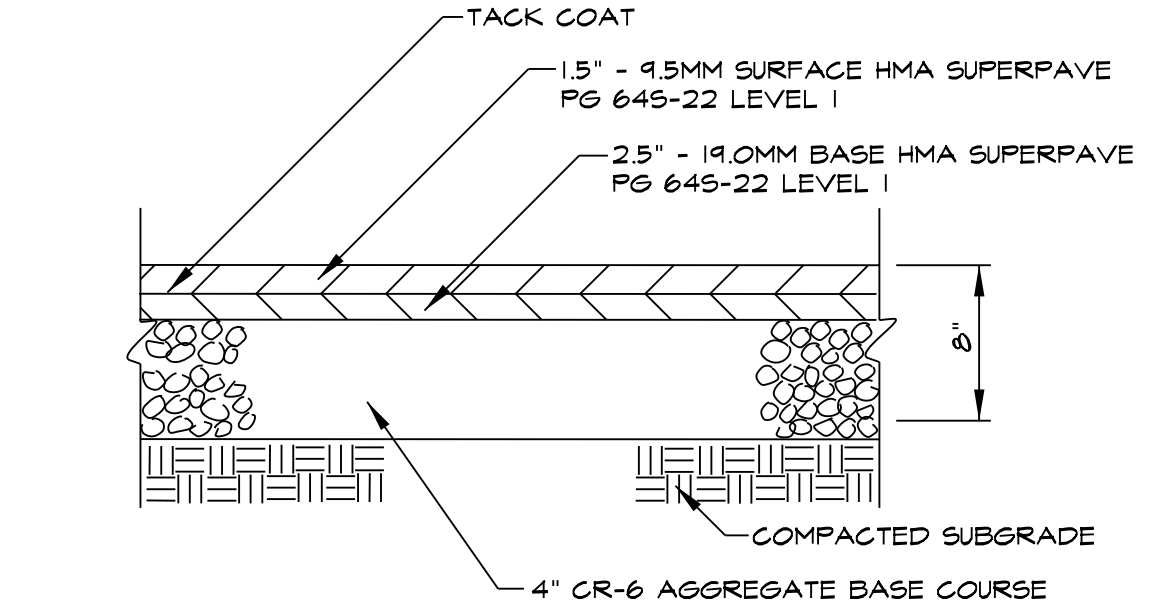


NOTE:
1. CONTRACTOR TO PROVIDE TWO (2) NO. 8 REBARS, 16" LONG FOR EACH WHEEL STOP.

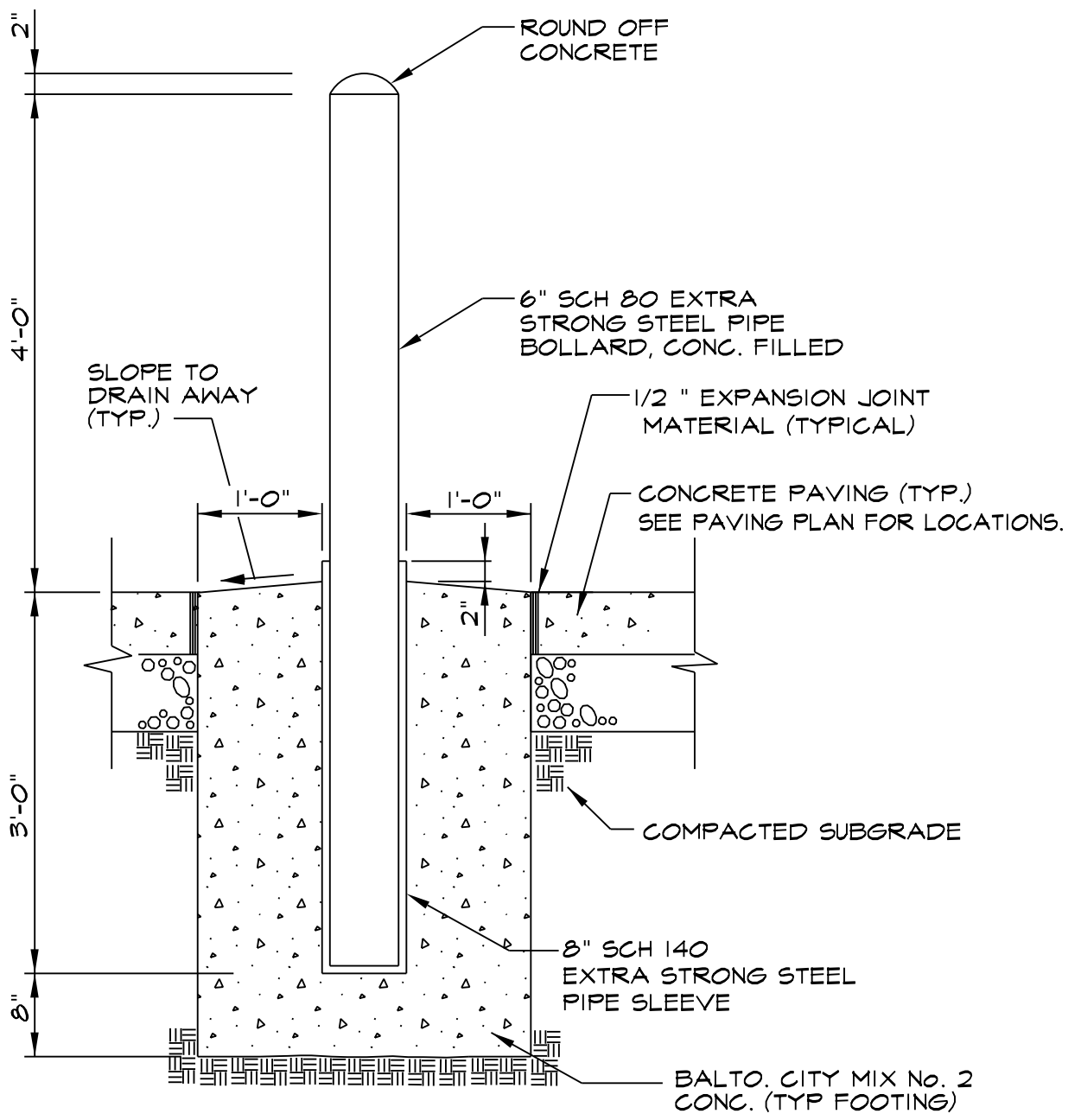
5 PRECAST CONCRETE WHEEL STOP
C3.00H NOT TO SCALE



9 INLET IN PAVED AREA DETAIL
C3.00H NOT TO SCALE

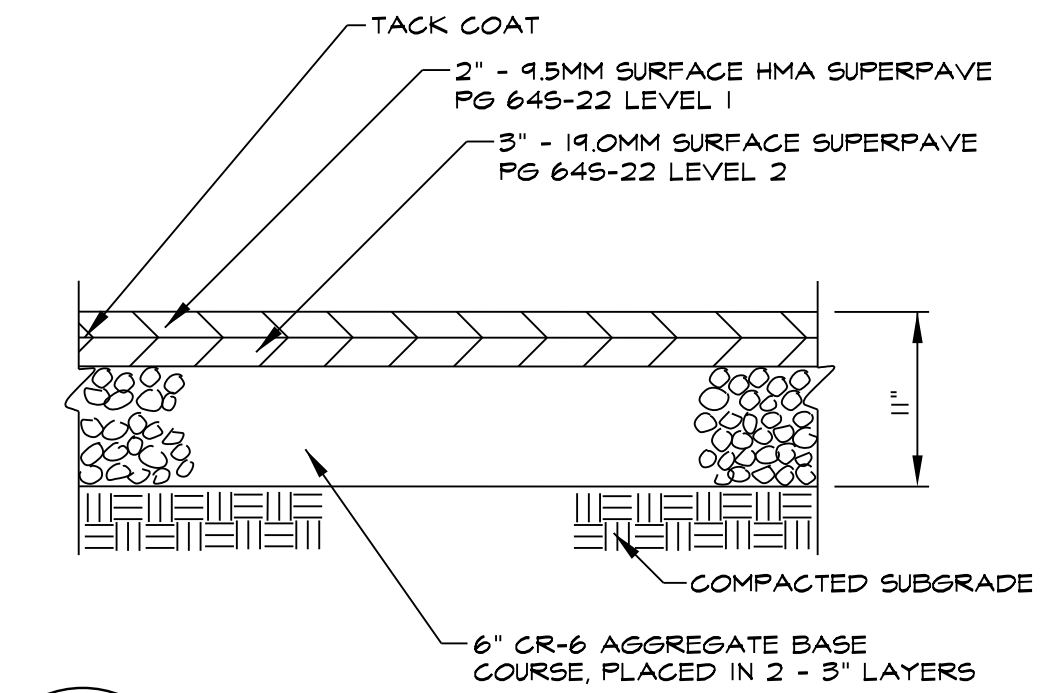


13 LIGHT DUTY PAVING DETAIL
C3.00H NOT TO SCALE

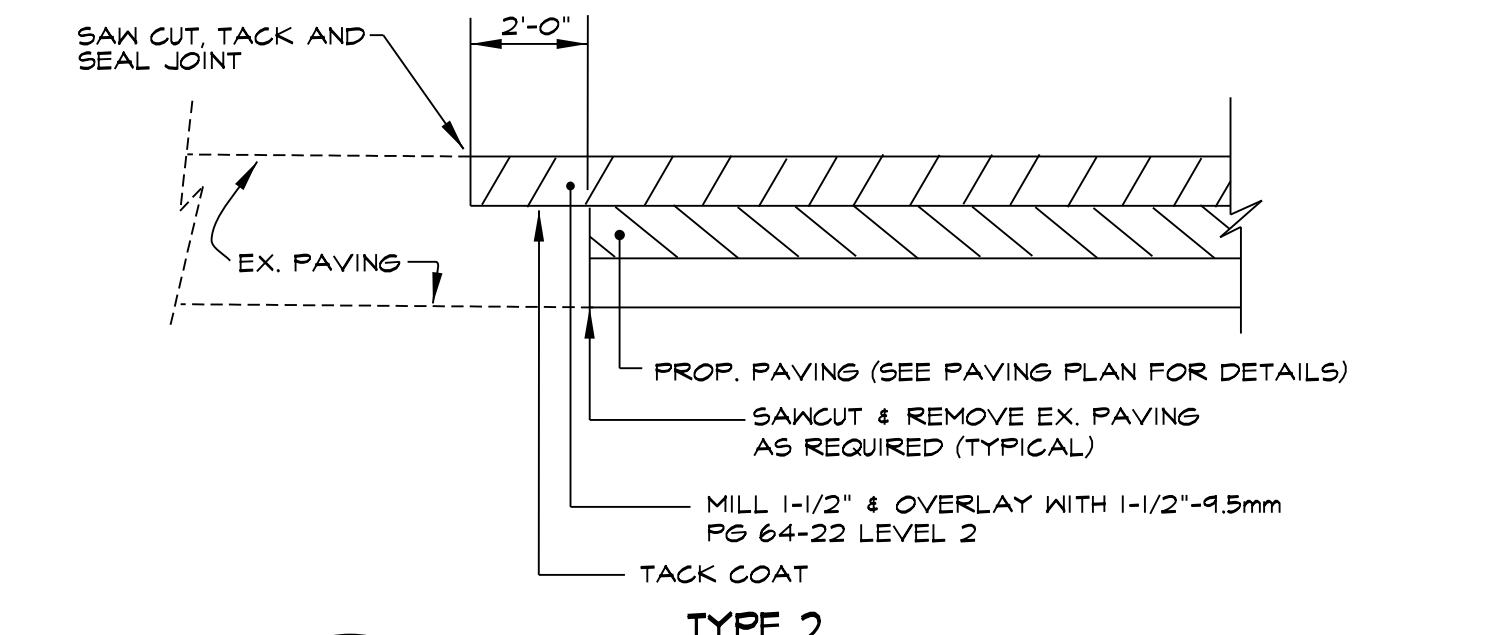
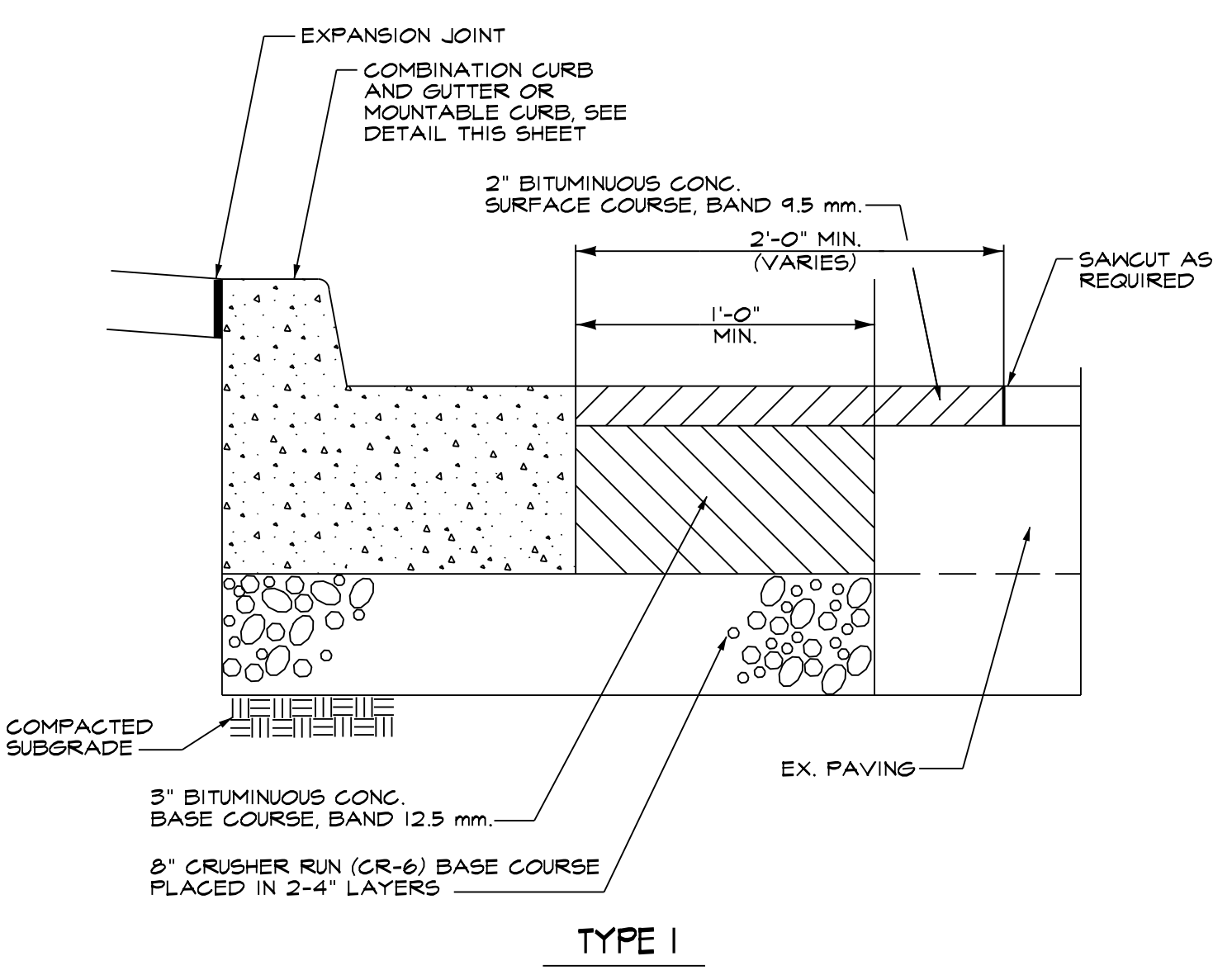


NOTE:
1. PIPE BOLLARDS TO BE PRIMED AND PAINTED WITH EXTERIOR ENAMEL PAINT IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAILS. COLOR TO BE PER ARCHITECT.

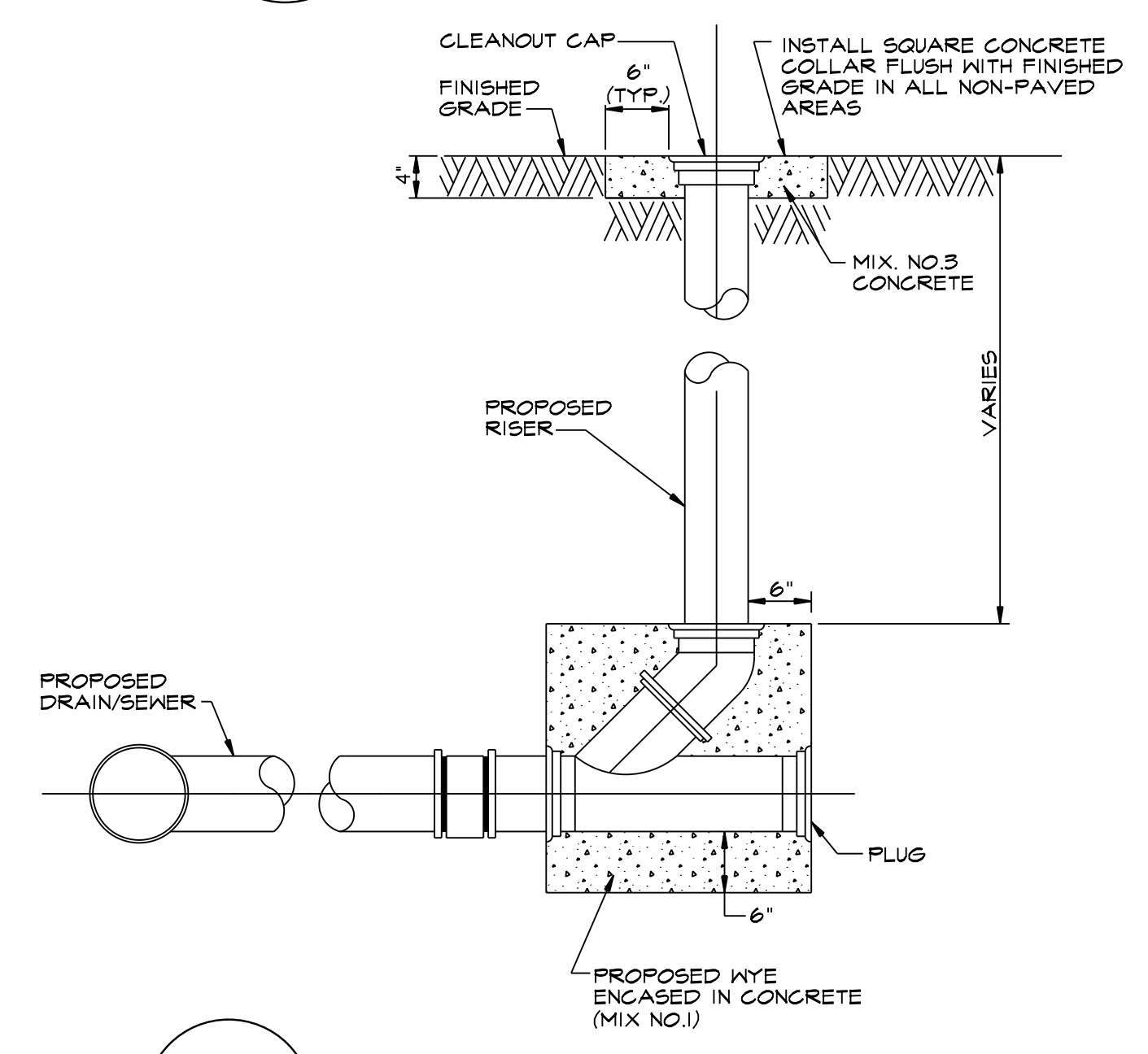
14 PIPE BOLLARD
C3.00H NOT TO SCALE



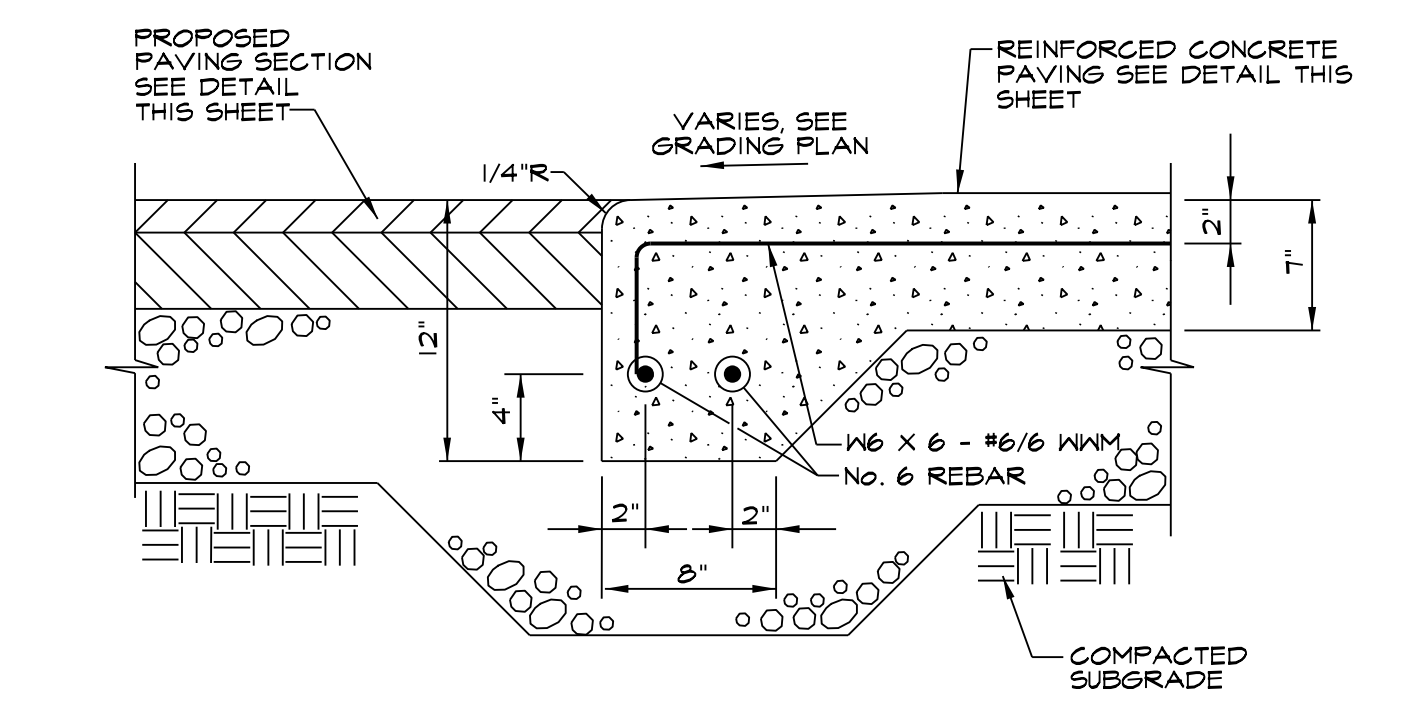
3 MEDIUM DUTY PAVING DETAIL
C3.00H NOT TO SCALE



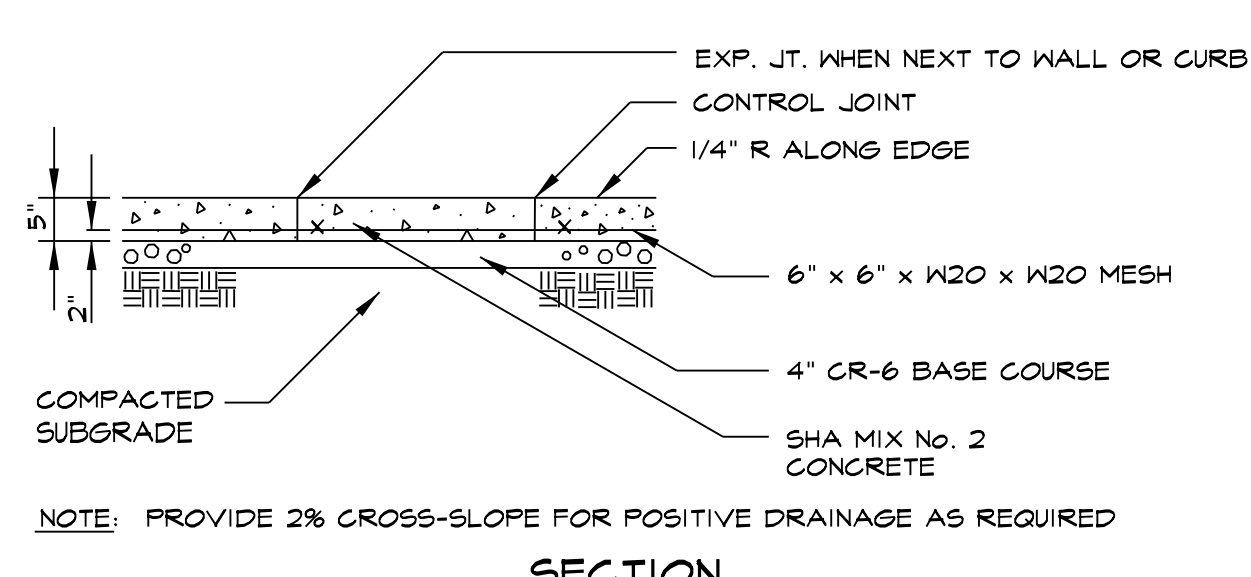
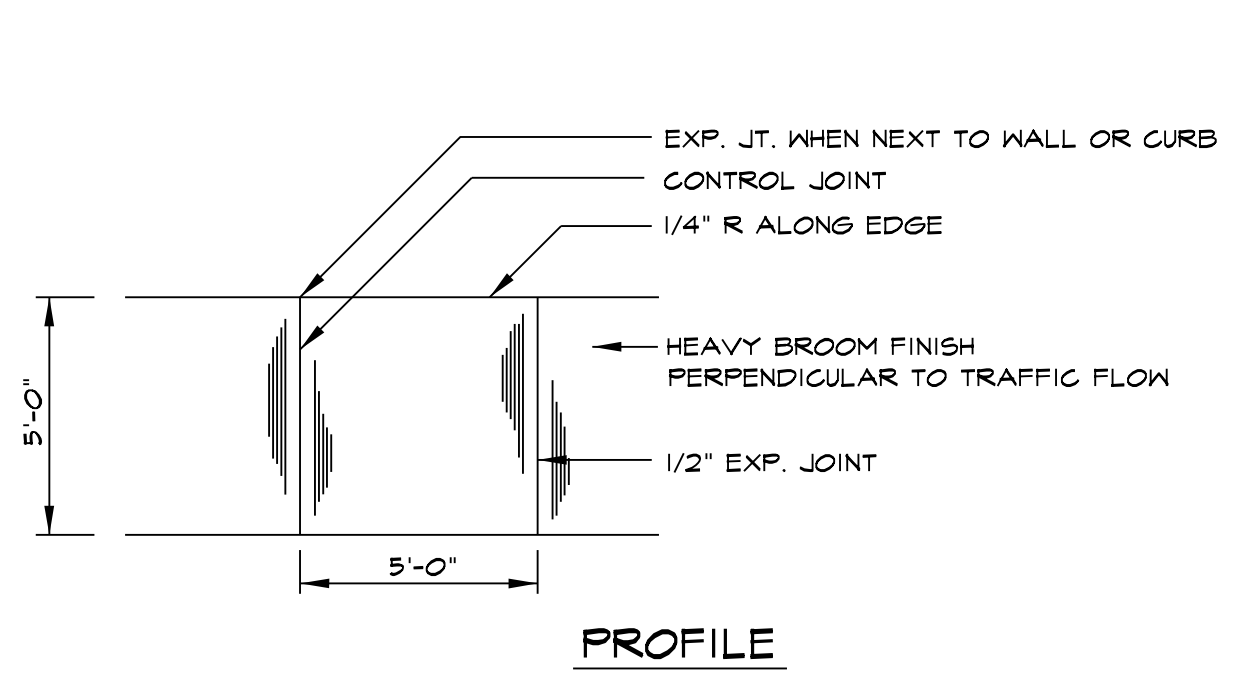
8 PAVING TIE-IN DETAIL
C3.00H NOT TO SCALE



12 CLEANOUT DETAIL (PERVIOUS AREAS)
C3.00H NOT TO SCALE

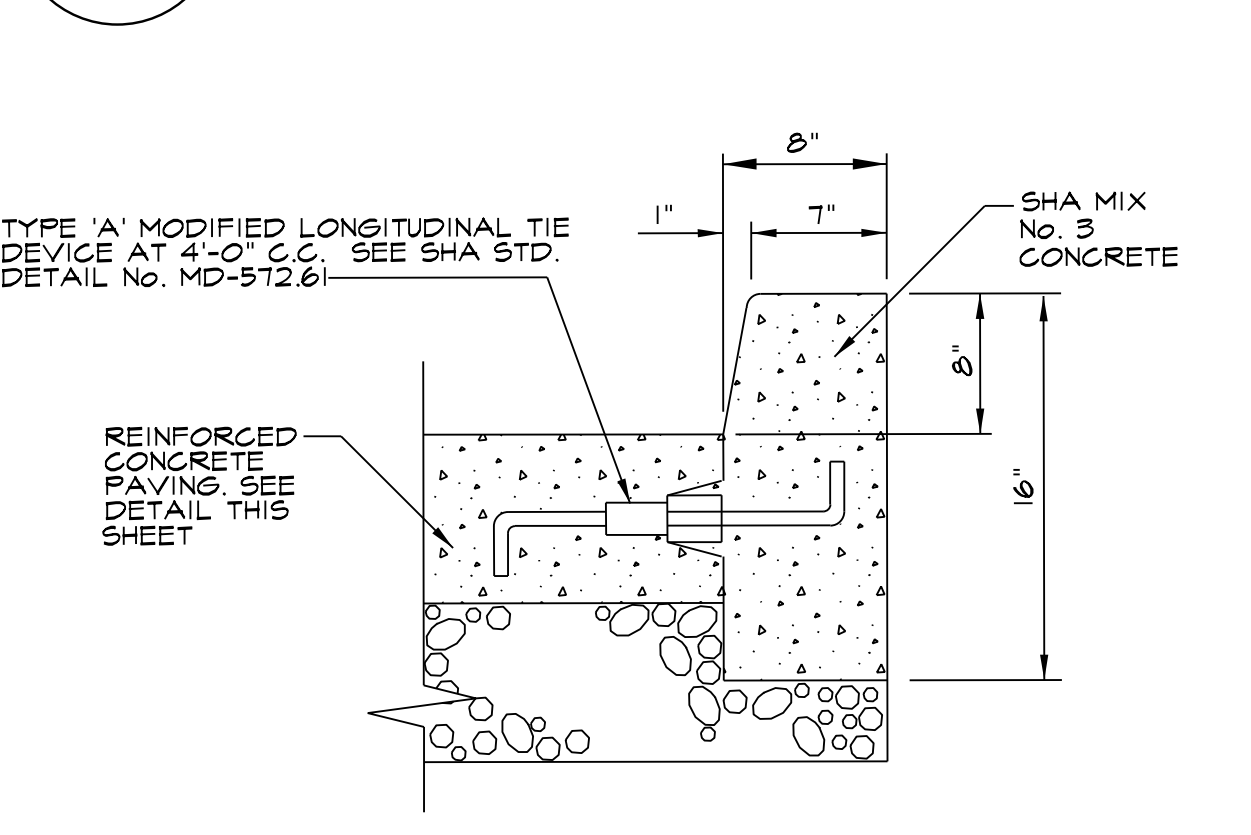


16 TIE IN FOR MEDIUM DUTY AND REINFORCED CONCRETE PAVING
C3.00H NOT TO SCALE

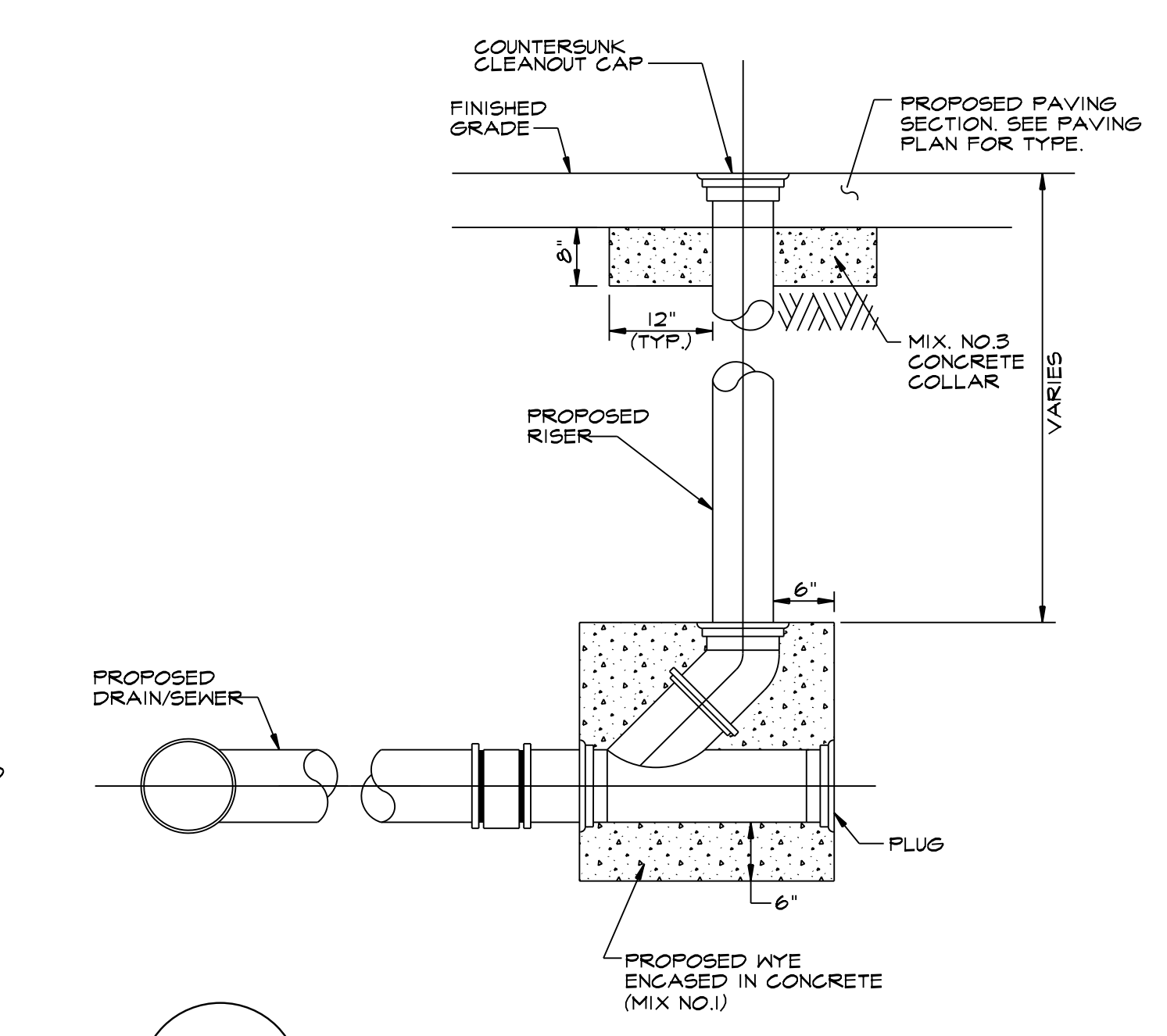


NOTE: PROVIDE 2% CROSS-SLOPE FOR POSITIVE DRAINAGE AS REQUIRED

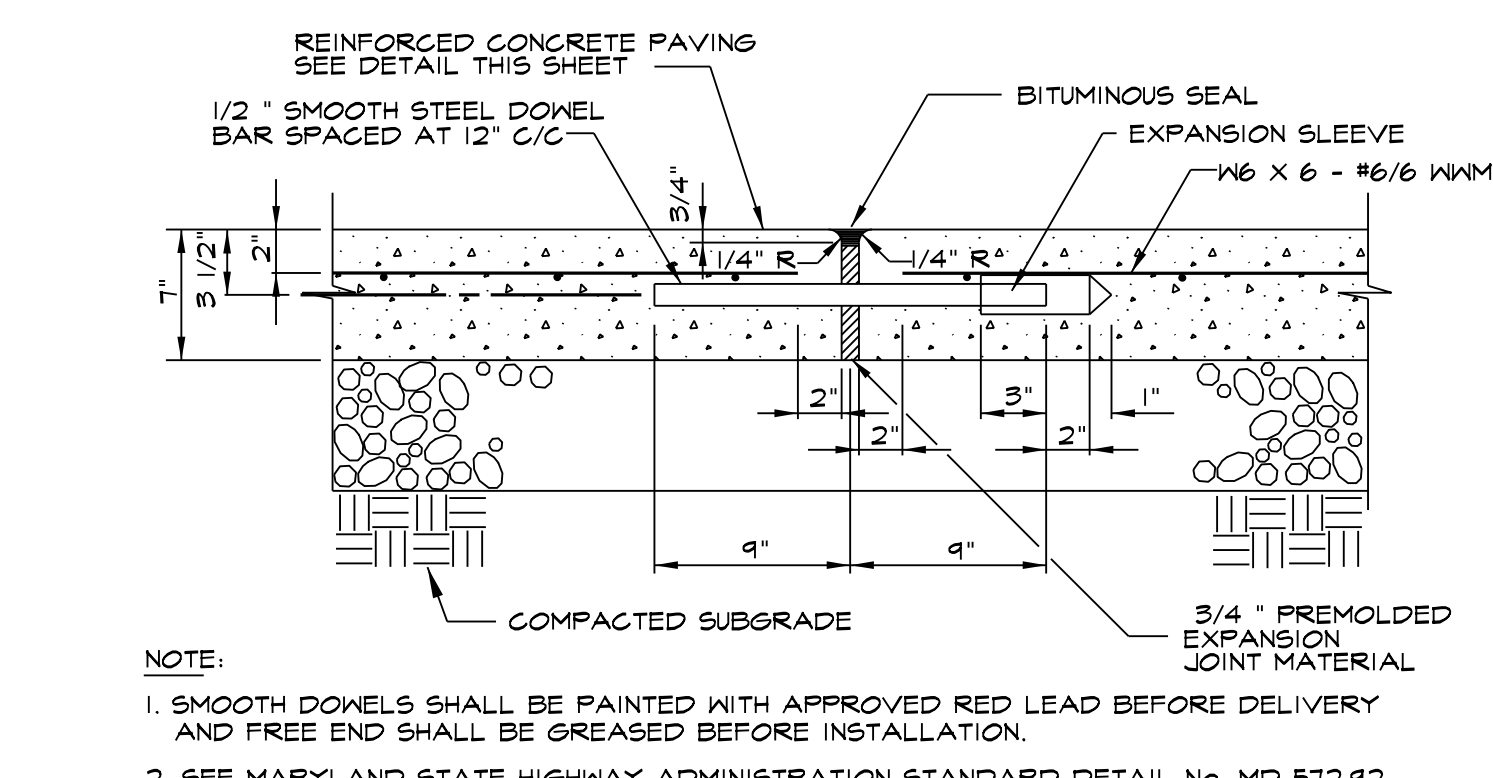
2 CONCRETE SIDEWALK
C3.00H NOT TO SCALE



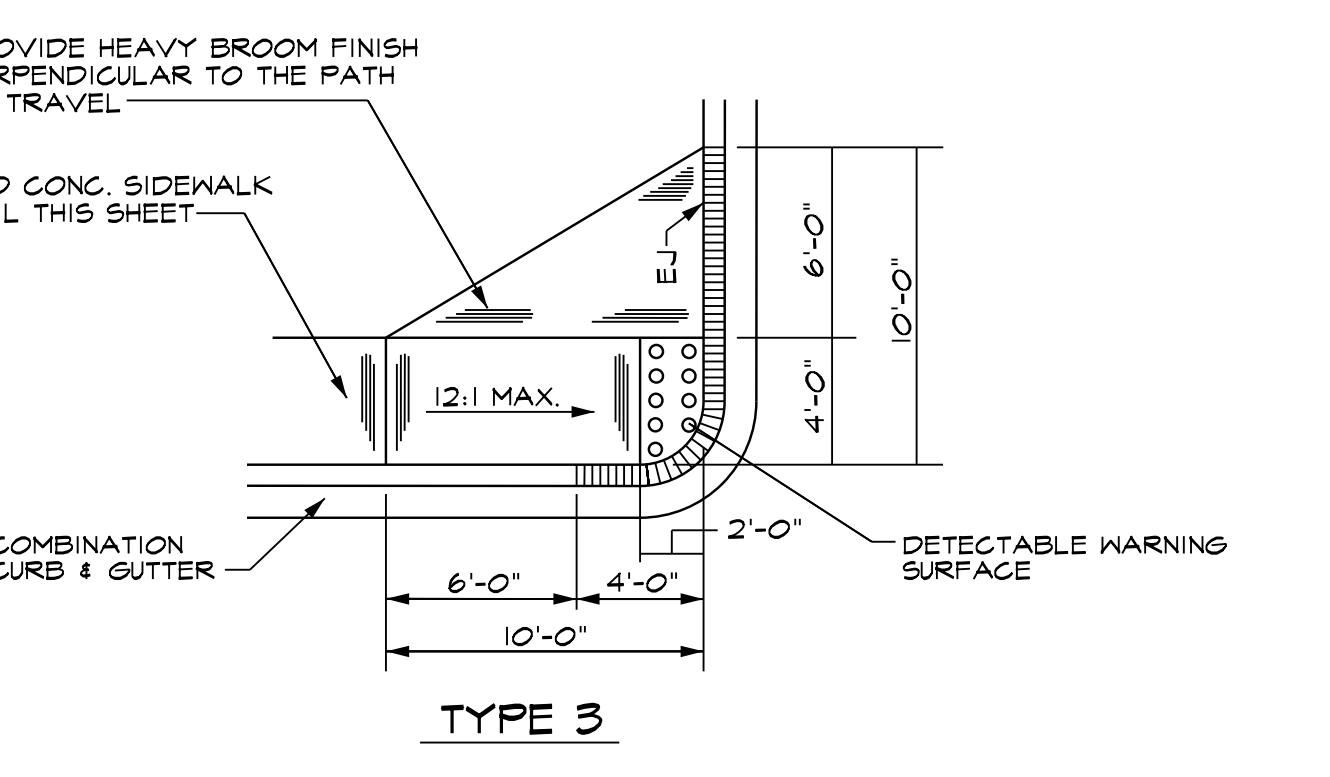
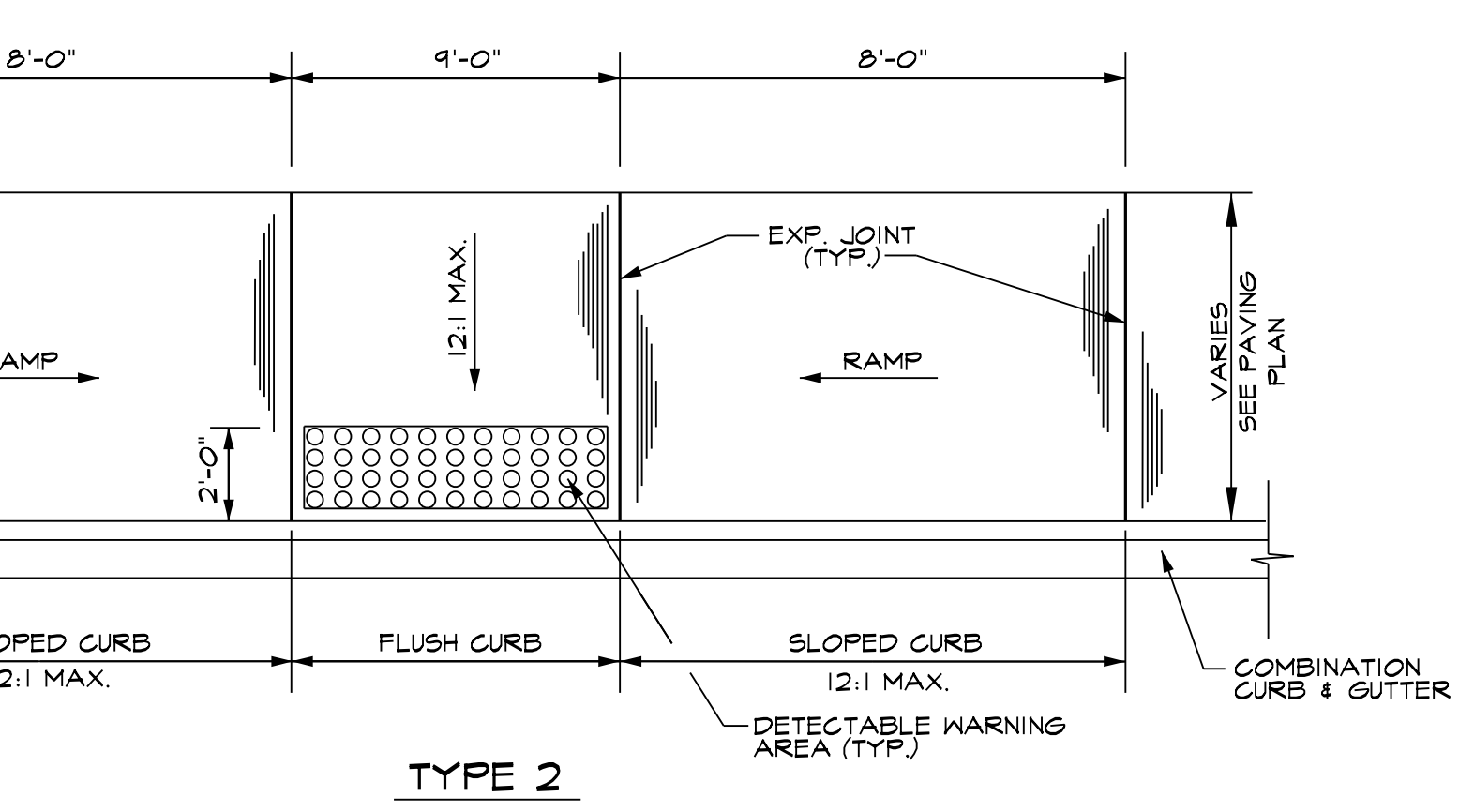
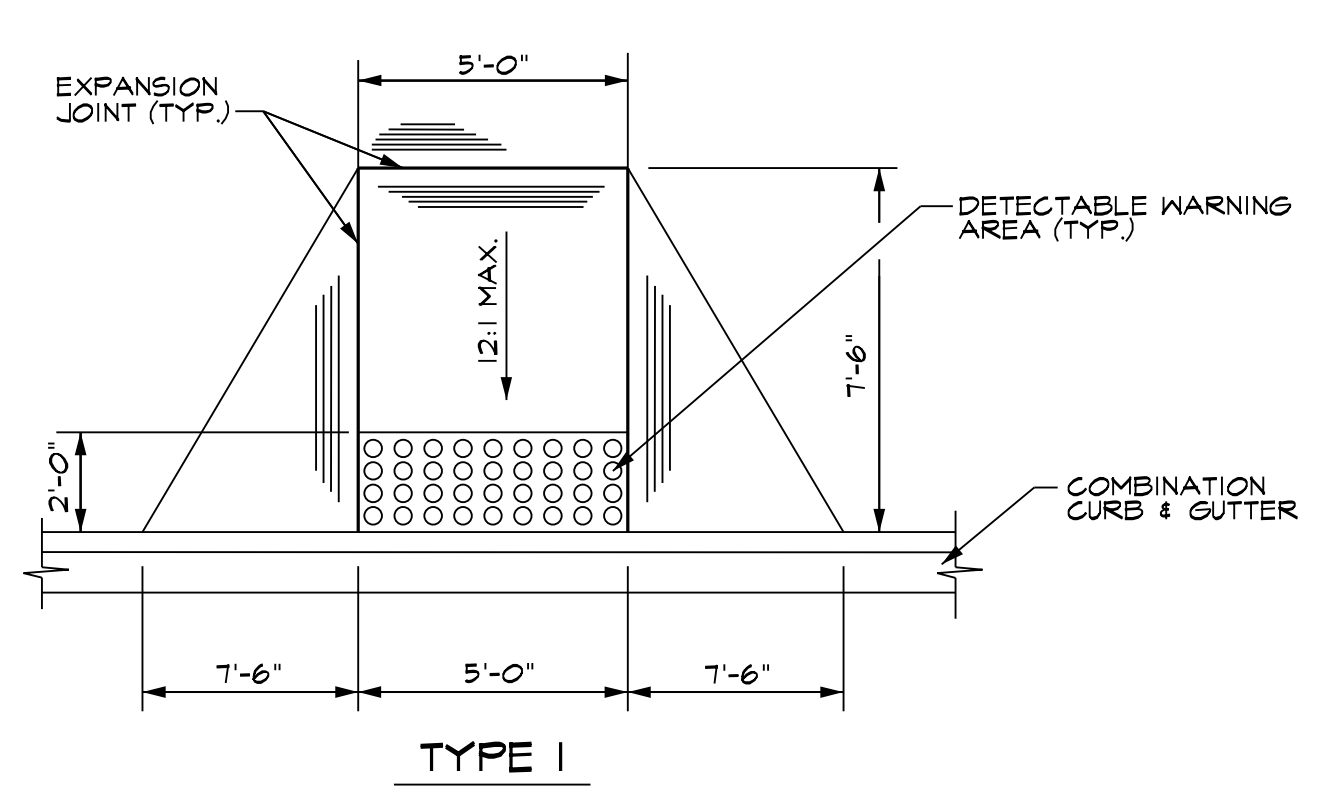
7 TYPE 'A' CURB
C3.00H NOT TO SCALE



11 CLEANOUT DETAIL (IMPERVIOUS AREAS)
C3.00H NOT TO SCALE

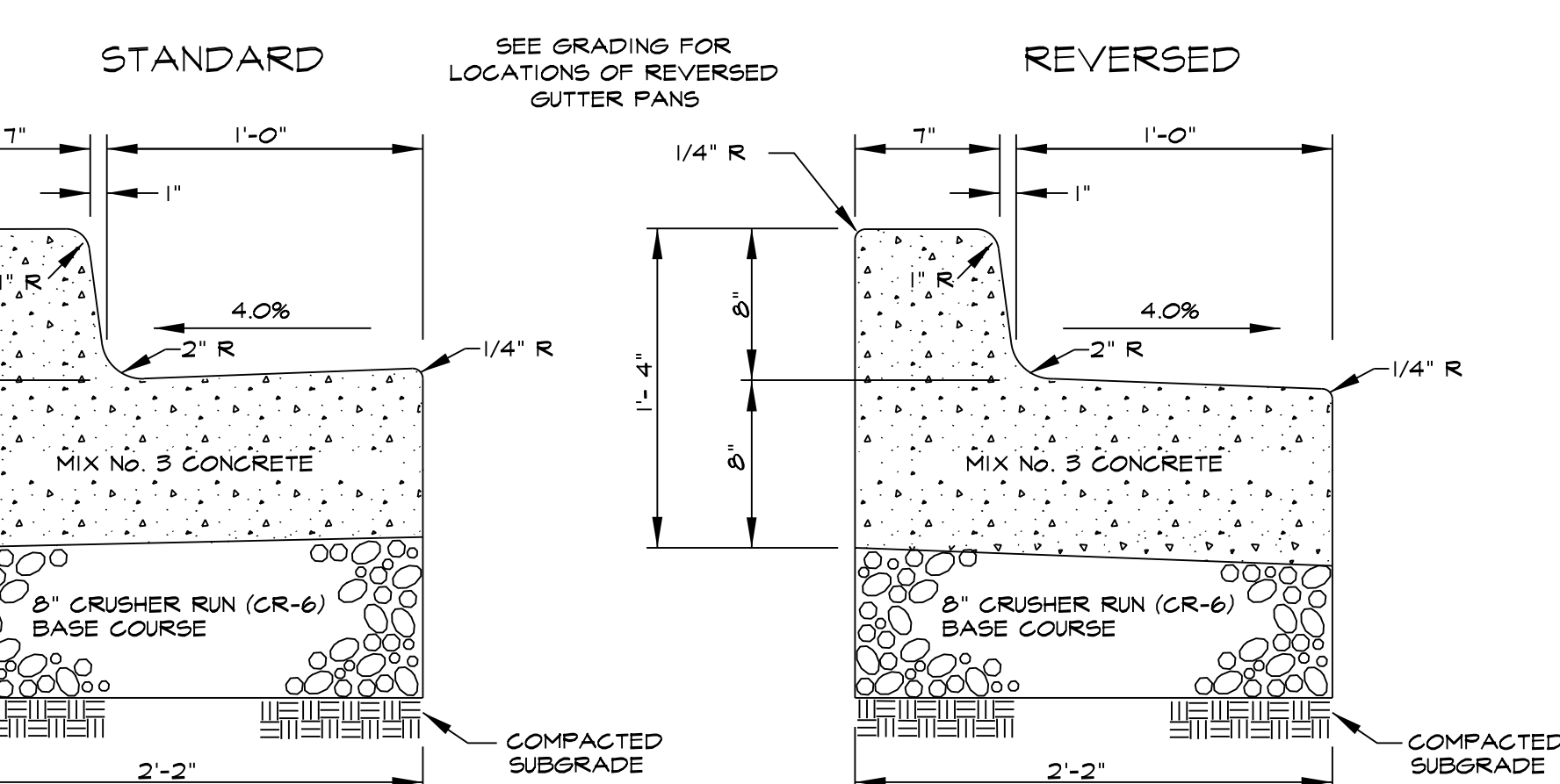


15 TIE IN AT EXPANSION JOINT
C3.00H NOT TO SCALE



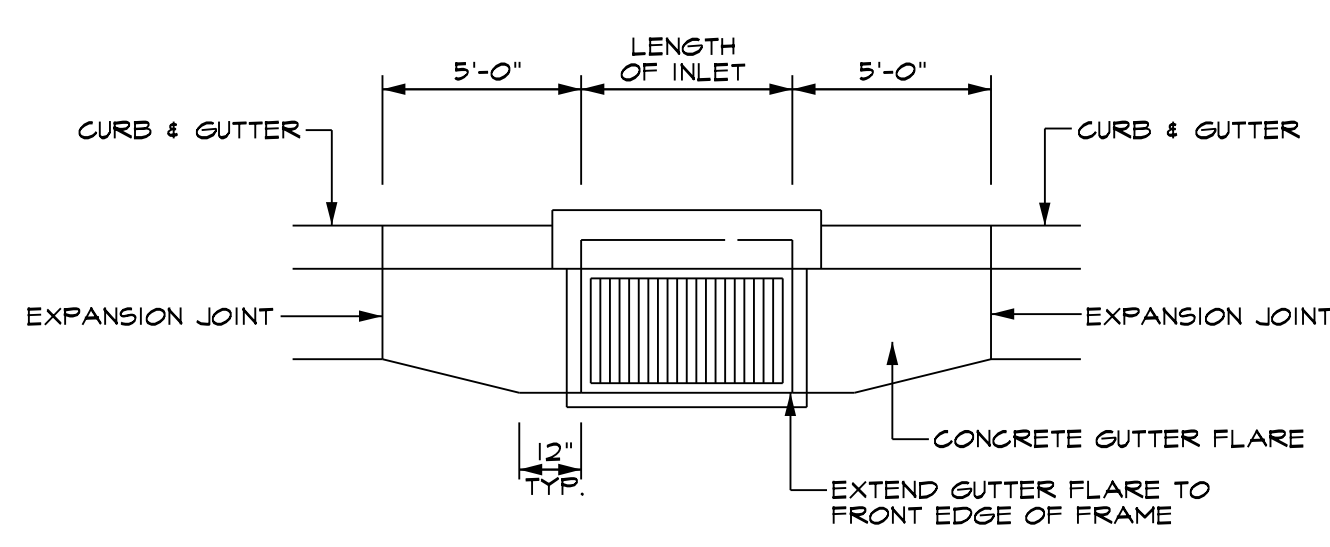
NOTES:
1. SURFACE TEXTURE OF RAMPS SHALL BE COARSE BROOMING OR NON SKID SURFACE.
2. SEE BALTIMORE CITY STANDARD DETAILS BC 655.11, 655.12 & 655.13 FOR ADDITIONAL INFORMATION.
3. DETECTABLE WARNING AREAS SHALL BE SQUARE PATTERN RED MASONRY UNITS. PARALLEL ALIGNMENT. SEE BALTIMORE CITY STANDARD DETAIL BC 655.40 FOR ADDITIONAL INFORMATION.
4. SEE DEPRESSED CURB AND GUTTER AT PEDESTRIAN RAMP DETAIL, SHEET C3.01H.

1 PEDESTRIAN RAMP
C3.00H NOT TO SCALE



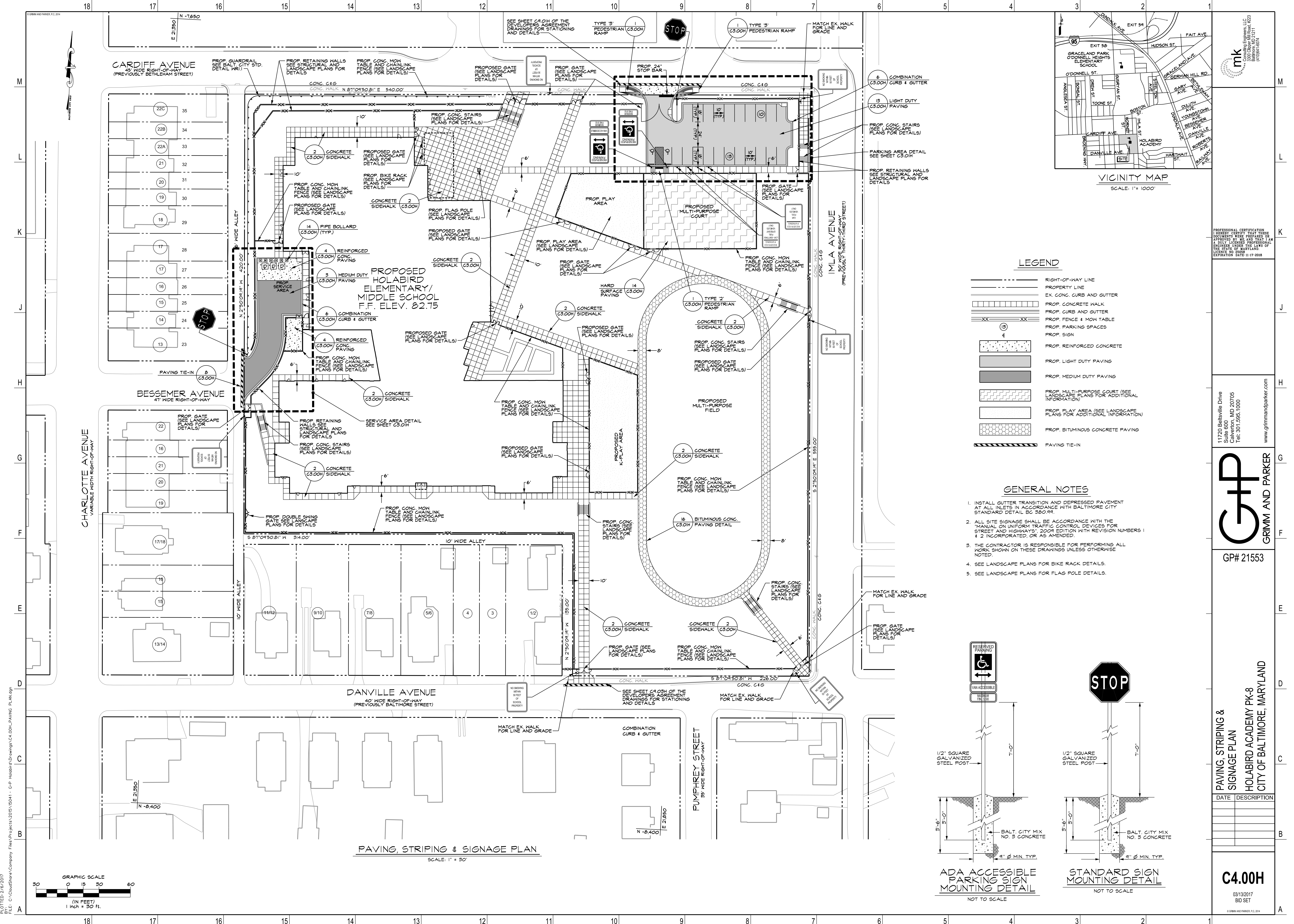
NOTES:
1. PROVIDE EXPANSION JOINTS EVERY 20' (MAX).
2. PROVIDE CONTROL JOINTS EVERY 10' (MAX). JOINTS ARE TO ALIGN WITH THE PROPOSED SIDEWALK JOINTS (TYPICAL).
3. SEE CONCRETE SIDEWALK DETAIL THIS SHEET REGARDING SCORING OF SIDEWALK.
4. SEE BALTIMORE CITY STANDARD DETAIL BC 620.11 FOR ADDITIONAL INFORMATION.

6 COMBINATION CURB AND GUTTER
C3.00H NOT TO SCALE



10 CURB & GUTTER FLARE DETAIL
C3.00H NOT TO SCALE

M L K J H G F E D C B A
PLOTTED: 2/6/2017
BY: C:\CloudShare\Company Files\Projects\2015\USD41 - CIP - Holbard\Drawings\C3.00H_SITE DETAILS.dwg



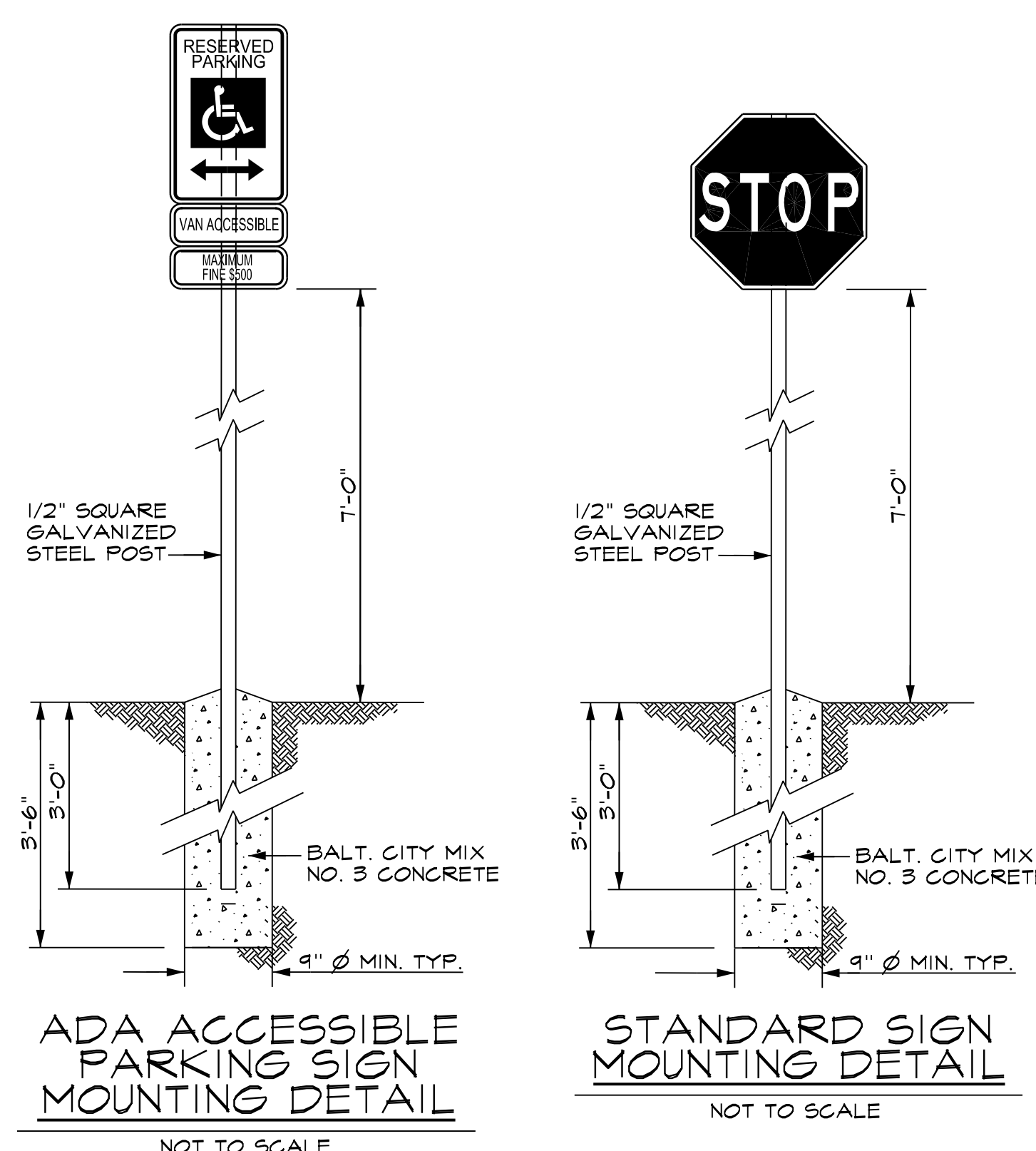
PAVING, STRIPING & SIGNAGE PLAN
SCALE: 1" = 30'

LEGEND

- RIGHT-OF-WAY LINE
- PROPERTY LINE
- EX. CONC. CURB AND GUTTER
- PROP. CONCRETE WALK
- PROP. CURB AND GUTTER
- XX --- PROP. FENCE & MON. TABLE
- (B) --- PROP. PARKING SPACES
- (S) --- PROP. SIGN
- (R) --- PROP. REINFORCED CONCRETE
- (L) --- PROP. LIGHT DUTY PAVING
- (M) --- PROP. MEDIUM DUTY PAVING
- (C) --- PROP. MULTI-PURPOSE COURT (SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION)
- (P) --- PROP. PLAY AREA (SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION)
- (B/C) --- PROP. BITUMINOUS CONCRETE PAVING
- PAVING TIE-IN

GENERAL NOTES

1. INSTALL GUTTER TRANSITION AND DEPRESSED PAVEMENT AT ALL INLETS IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAIL SG 300.99.
2. ALL SITE SIGNAGE SHALL BE ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS" 2008 EDITION WITH REVISION NUMBERS 1 & 2 INCORPORATED, OR AS AMENDED.
3. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THESE DRAWINGS UNLESS OTHERWISE NOTED.
4. SEE LANDSCAPE PLANS FOR BIKE RACK DETAILS.
5. SEE LANDSCAPE PLANS FOR FLAG POLE DETAILS.



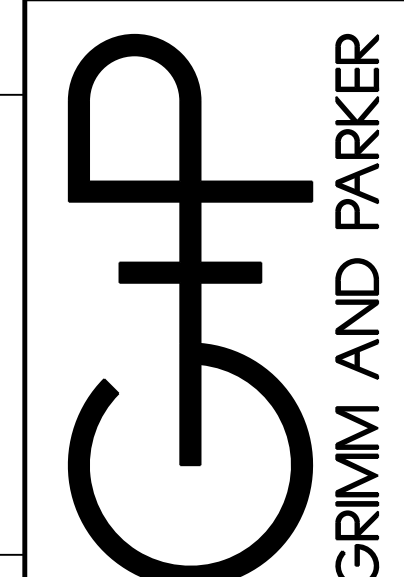
ADA ACCESSIBLE PARKING SIGN MOUNTING DETAIL
NOT TO SCALE

STANDARD SIGN MOUNTING DETAIL
NOT TO SCALE

PLOTTED: 2/6/2017
 BY: C:\CloudShare\Company Files\Projects\2015\5041 - C.P. Holabird\Drawings\C4.00H_PAVING PLAN.dgn
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PROFESSIONAL CERTIFICATION
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 EXPIRATION DATE 11-17-2018

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GP# 21553

**PAVING, STRIPING &
SIGNAGE PLAN**
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

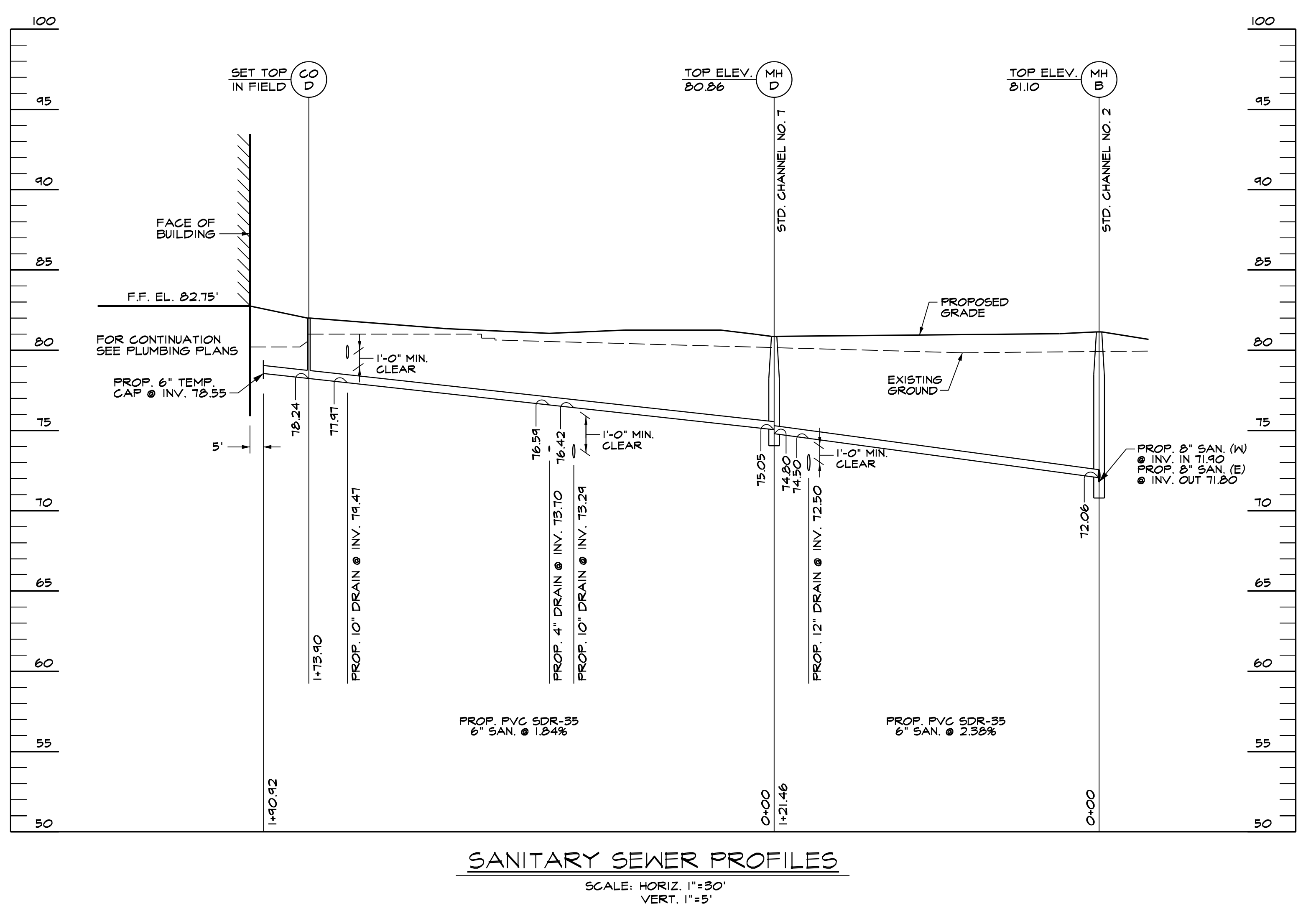
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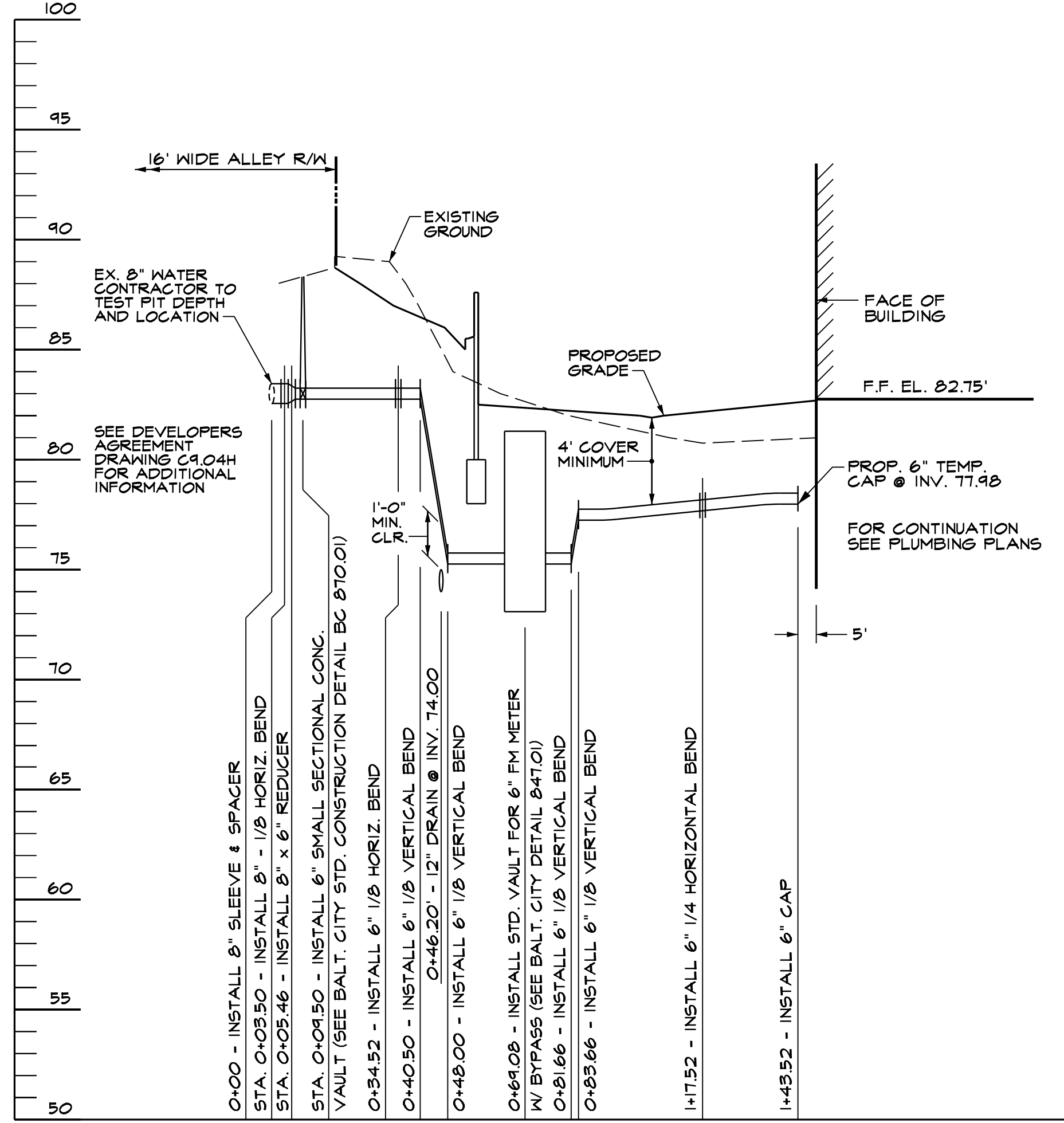
03/13/2017
BID SET

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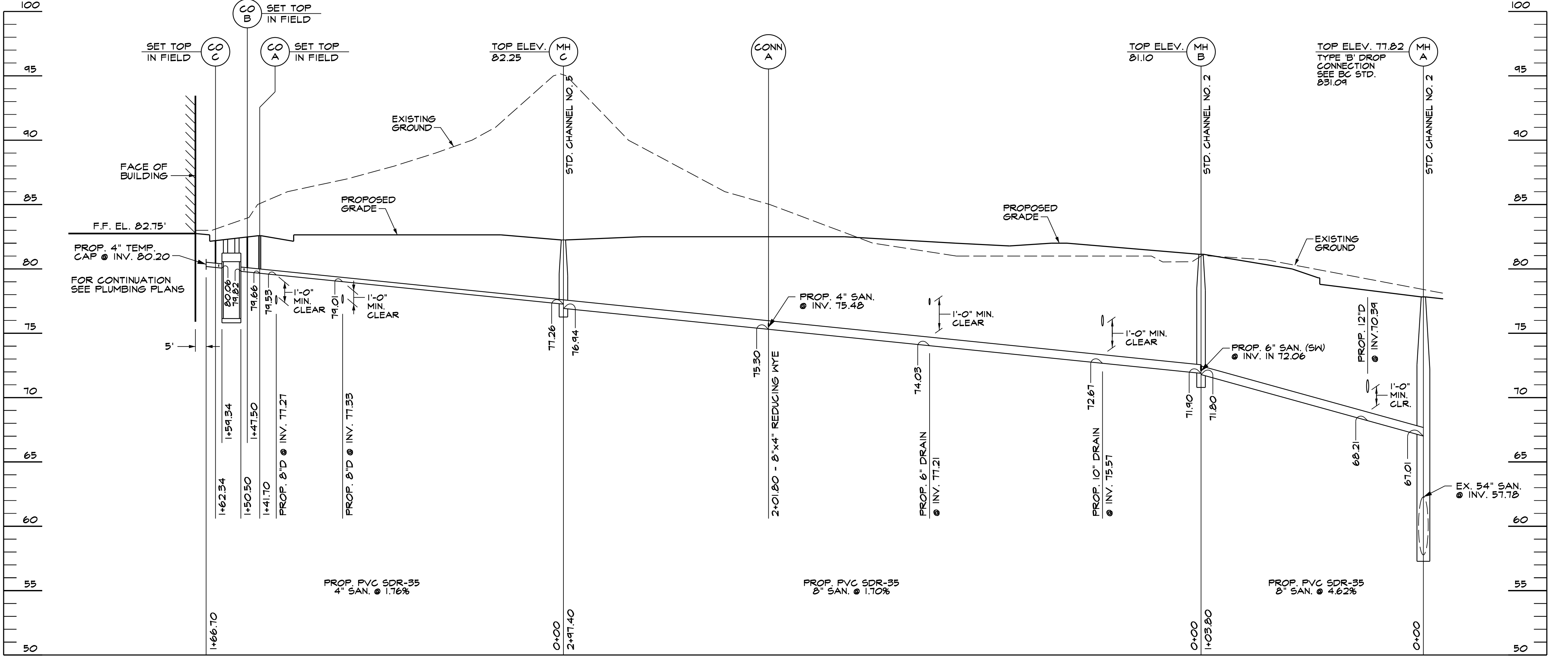
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SANITARY SEWER PROFILES
 SCALE: HORIZ. 1"=30'
 VERT. 1"=5'



WATER PROFILES
 SCALE: HORIZ. 1"=30'
 VERT. 1"=5'

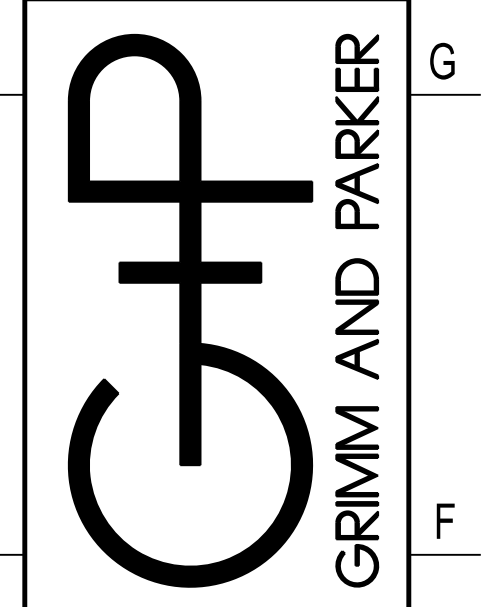


SANITARY SEWER PROFILES
 SCALE: HORIZ. 1"=30'
 VERT. 1"=5'

DATE	DESCRIPTION

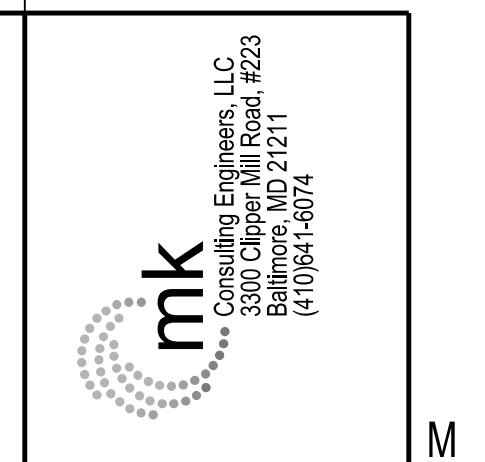
UTILITY PROFILES
 HOLABRAD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

GP# 21553

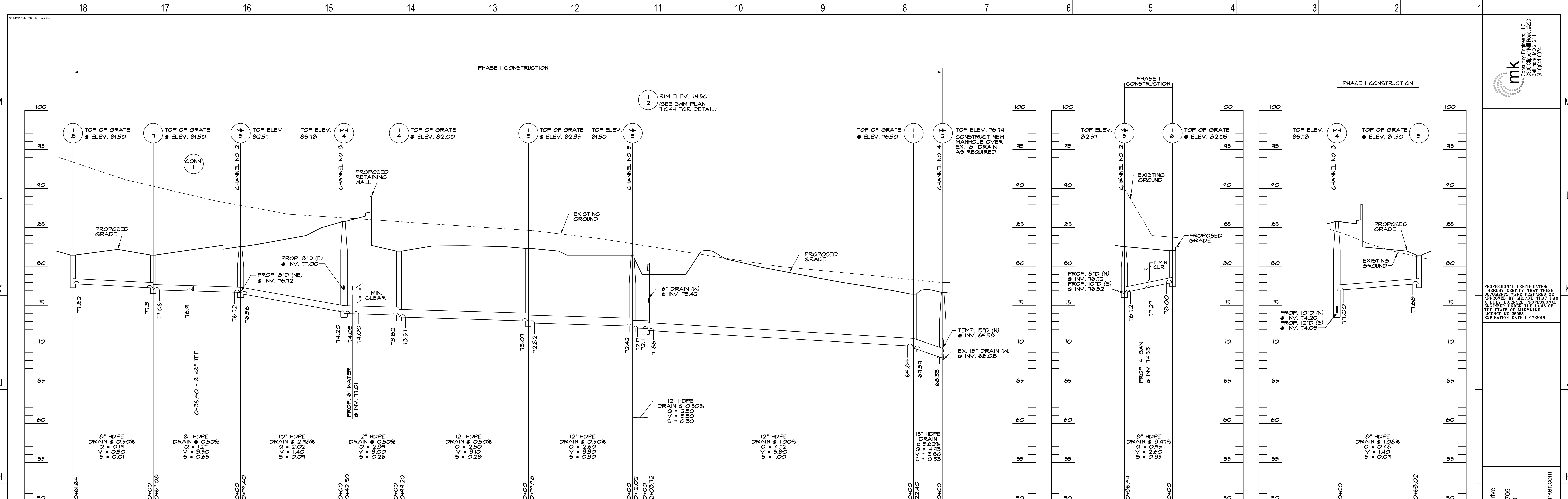


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 Suite 600
 Calverton, MD 20705
 Tel: 301.595.1000
 www.grimmandparker.com

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 THE STATE OF MARYLAND
 LICENSE NO. 20004
 EXPIRATION DATE 11-17-2018



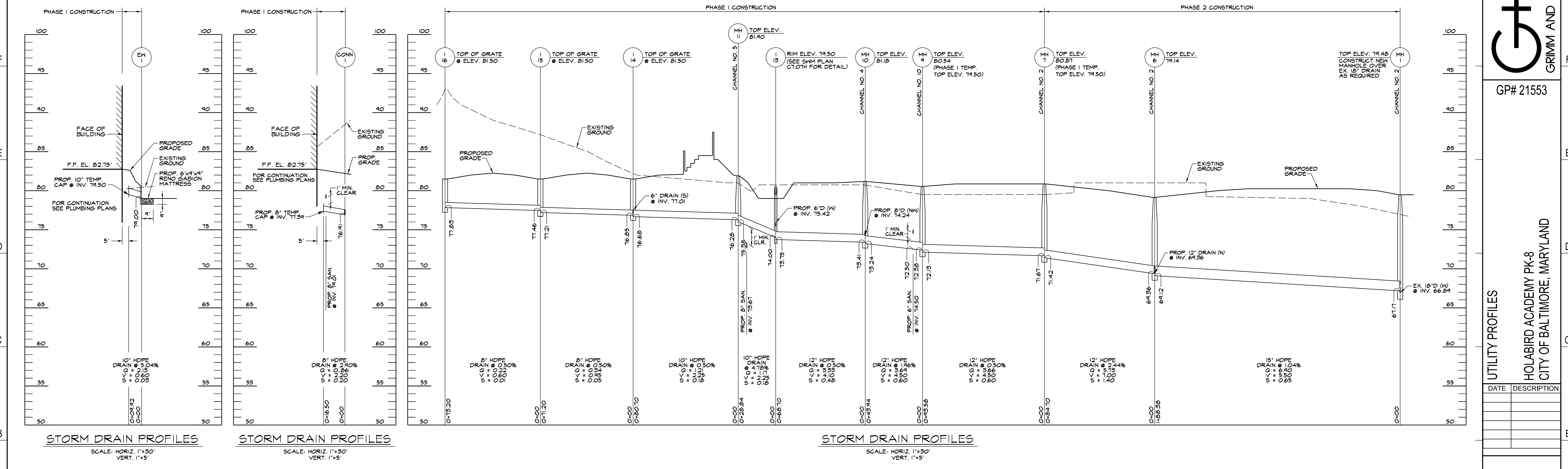
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 03/13/2017
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STORM DRAIN PROFILES
SCALE: HORIZ. 1"=30'
VERT. 1"=5'

STORM DRAIN PROFILES
SCALE: HORIZ. 1"=30'
VERT. 1"=5'


STORM DRAIN PROFILES
SCALE: HORIZ. 1"=30'
VERT. 1"=5'

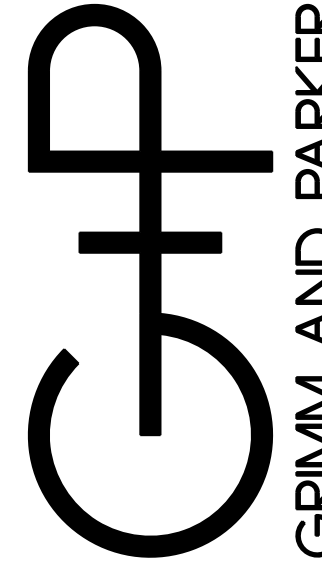


STORM DRAIN PROFILES
SCALE: HORIZ. 1"=30'
VERT. 1"=5'

STORM DRAIN PROFILES
SCALE: HORIZ. 1"=30'
VERT. 1"=5'

STORM DRAIN PROFILES
SCALE: HORIZ. 1"=30'
VERT. 1"=5'


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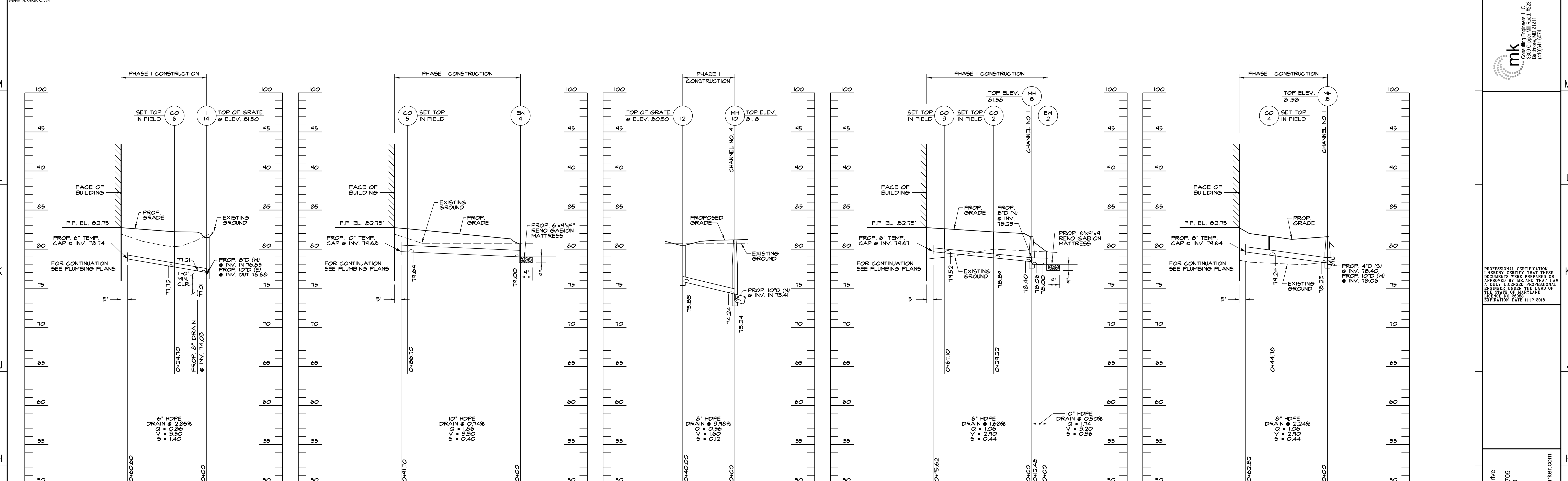
UTILITY PROFILES
 HOLABRAD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C5.03H
 03/13/2017
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PLOTTED: 2/6/2017
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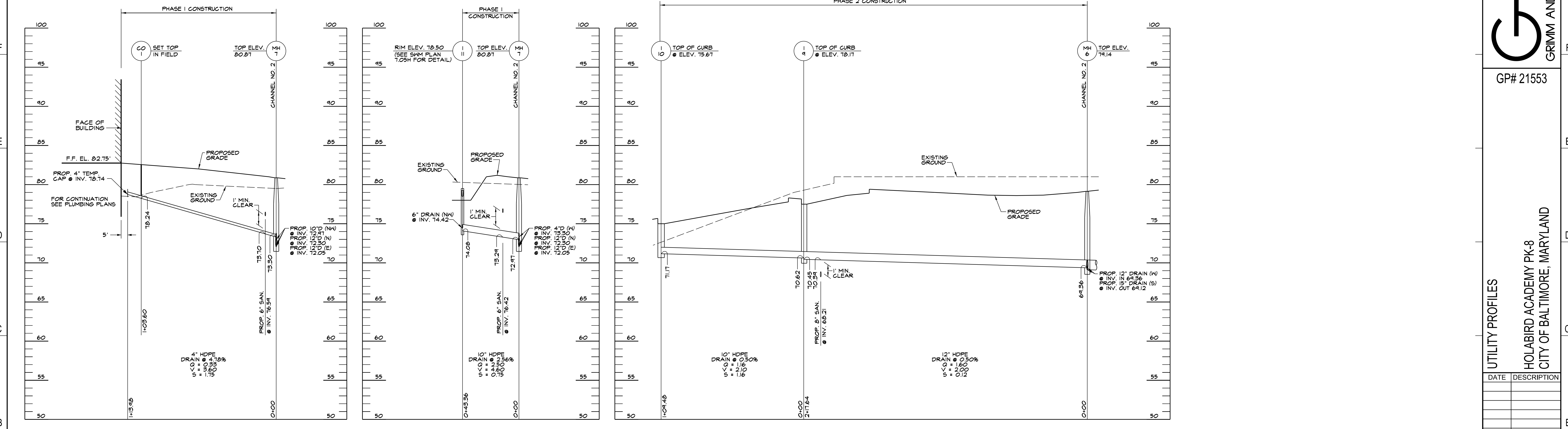
STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

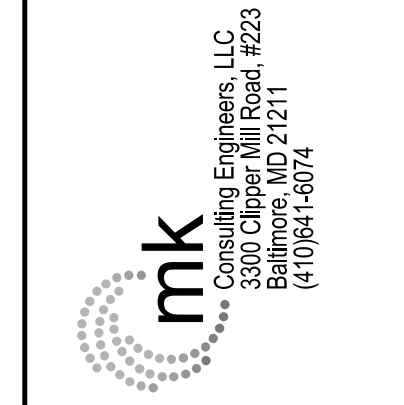
STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

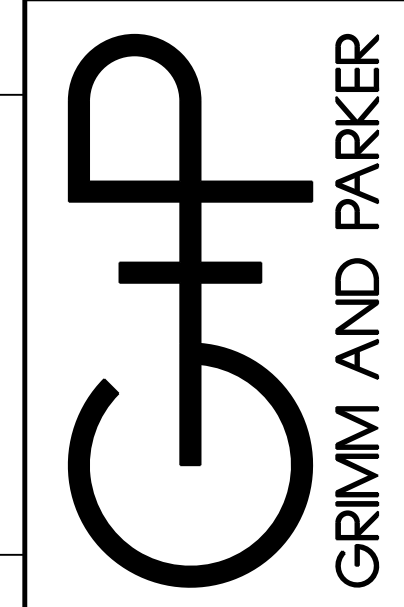
STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



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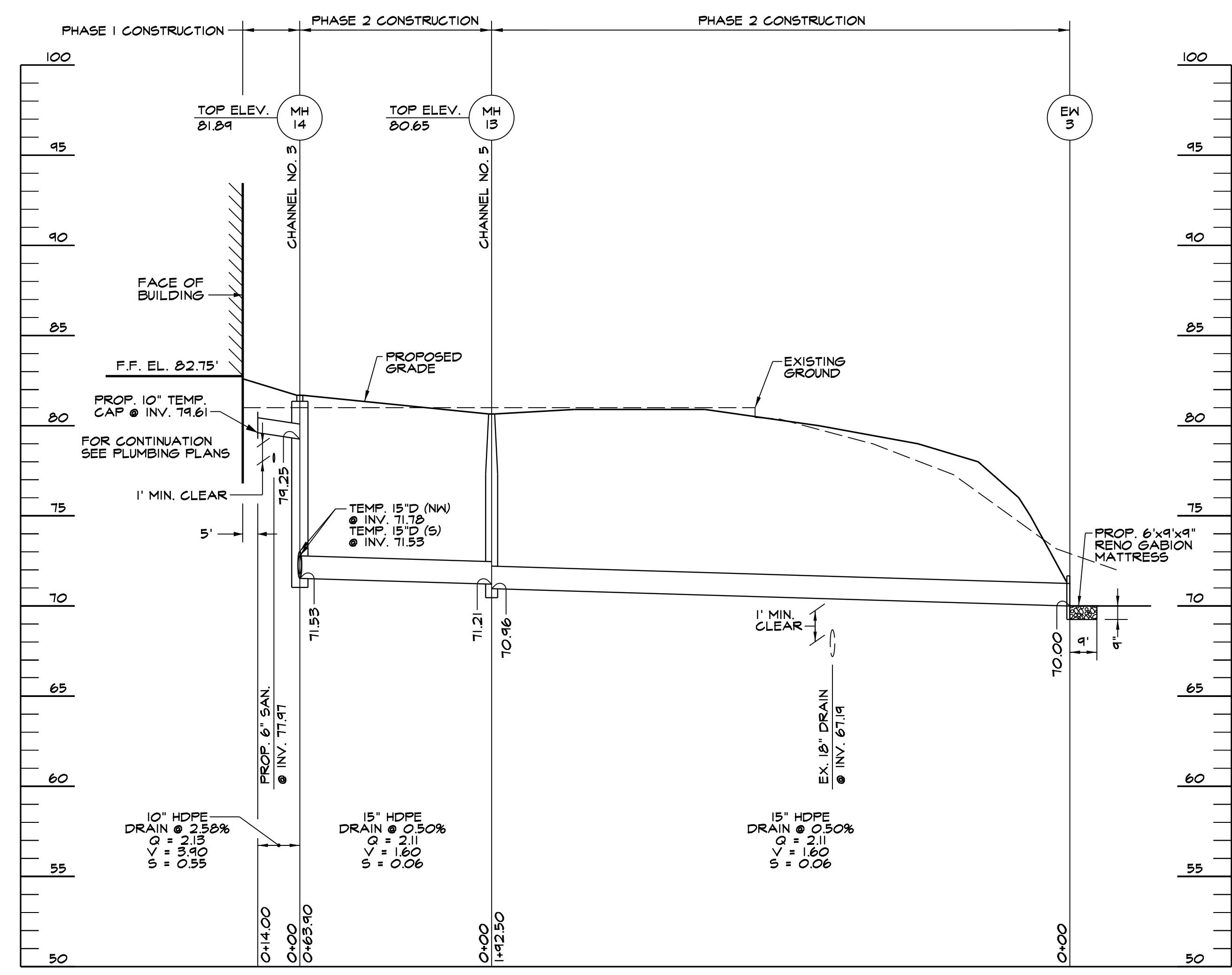
GP# 21553

UTILITY PROFILES
HOLBARD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

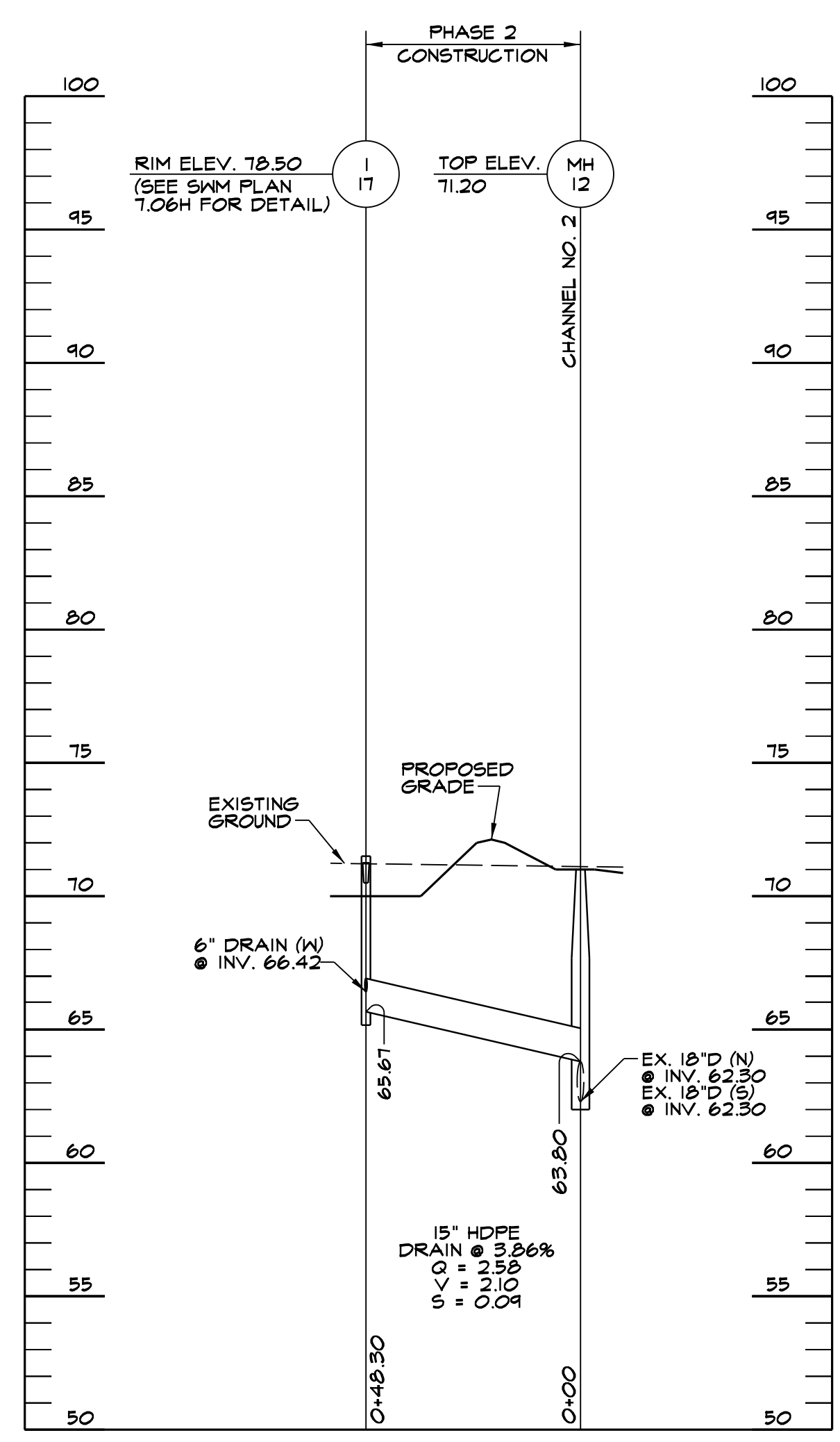
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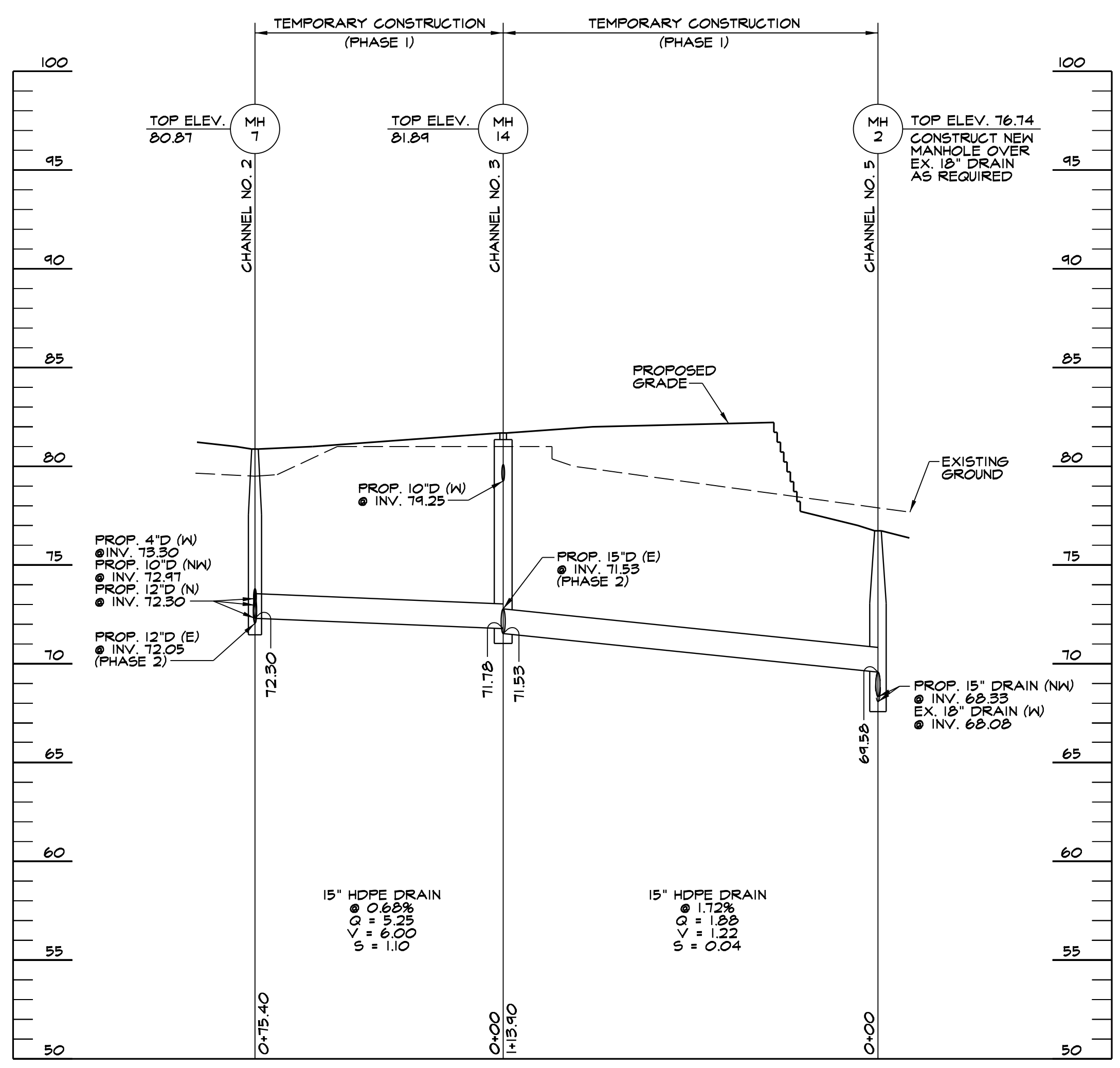
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STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

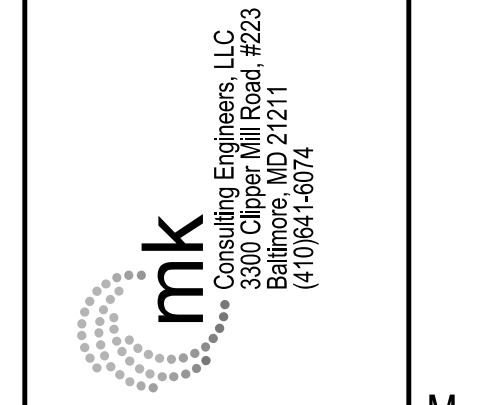


STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



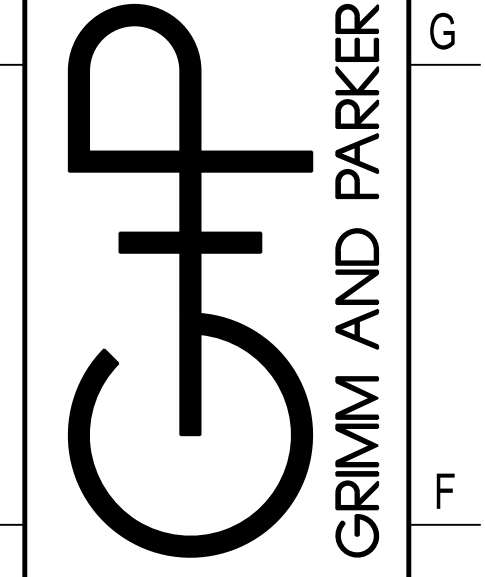
STORM DRAIN PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

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 EXPIRATION DATE 11-17-2018

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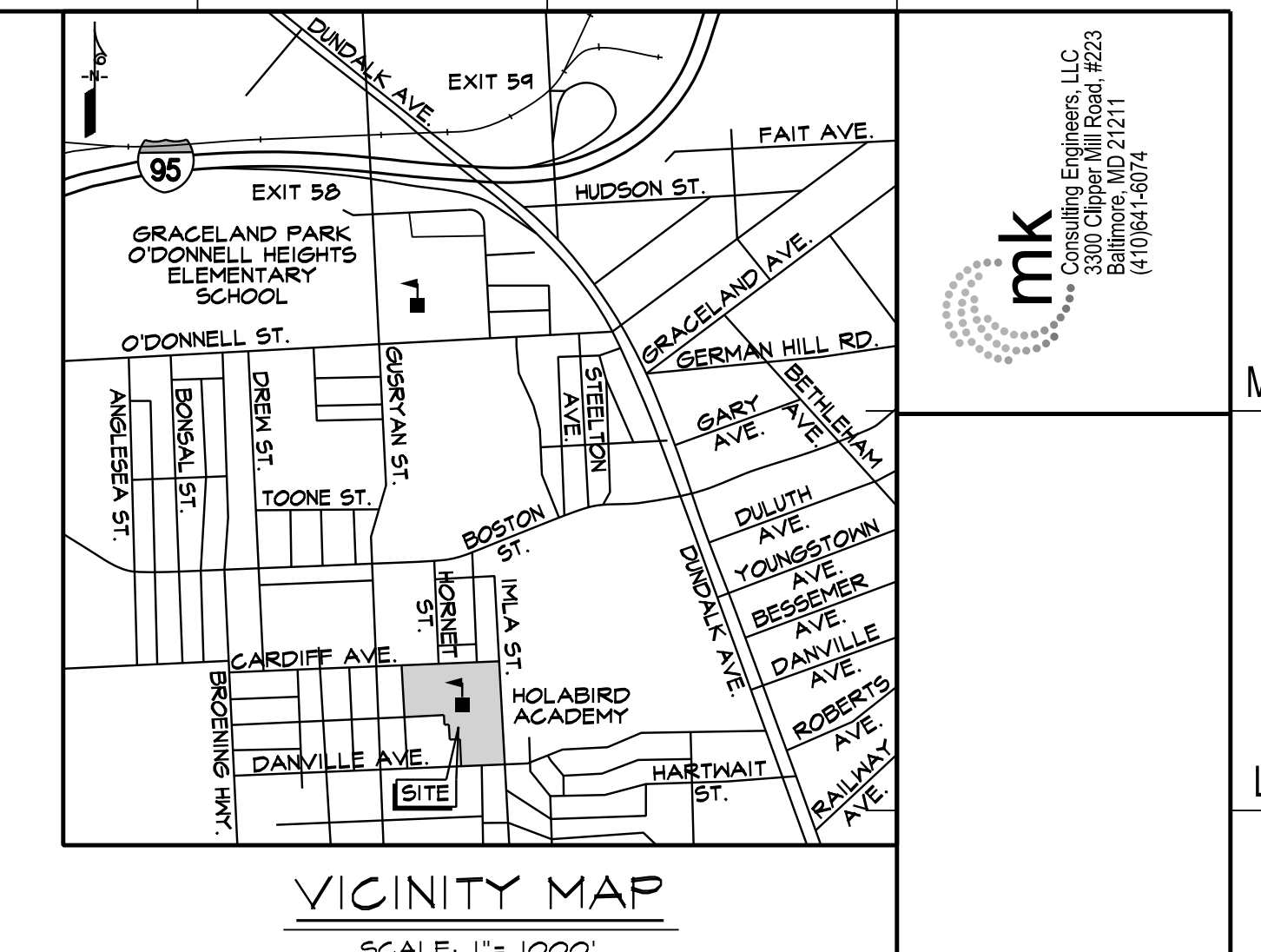
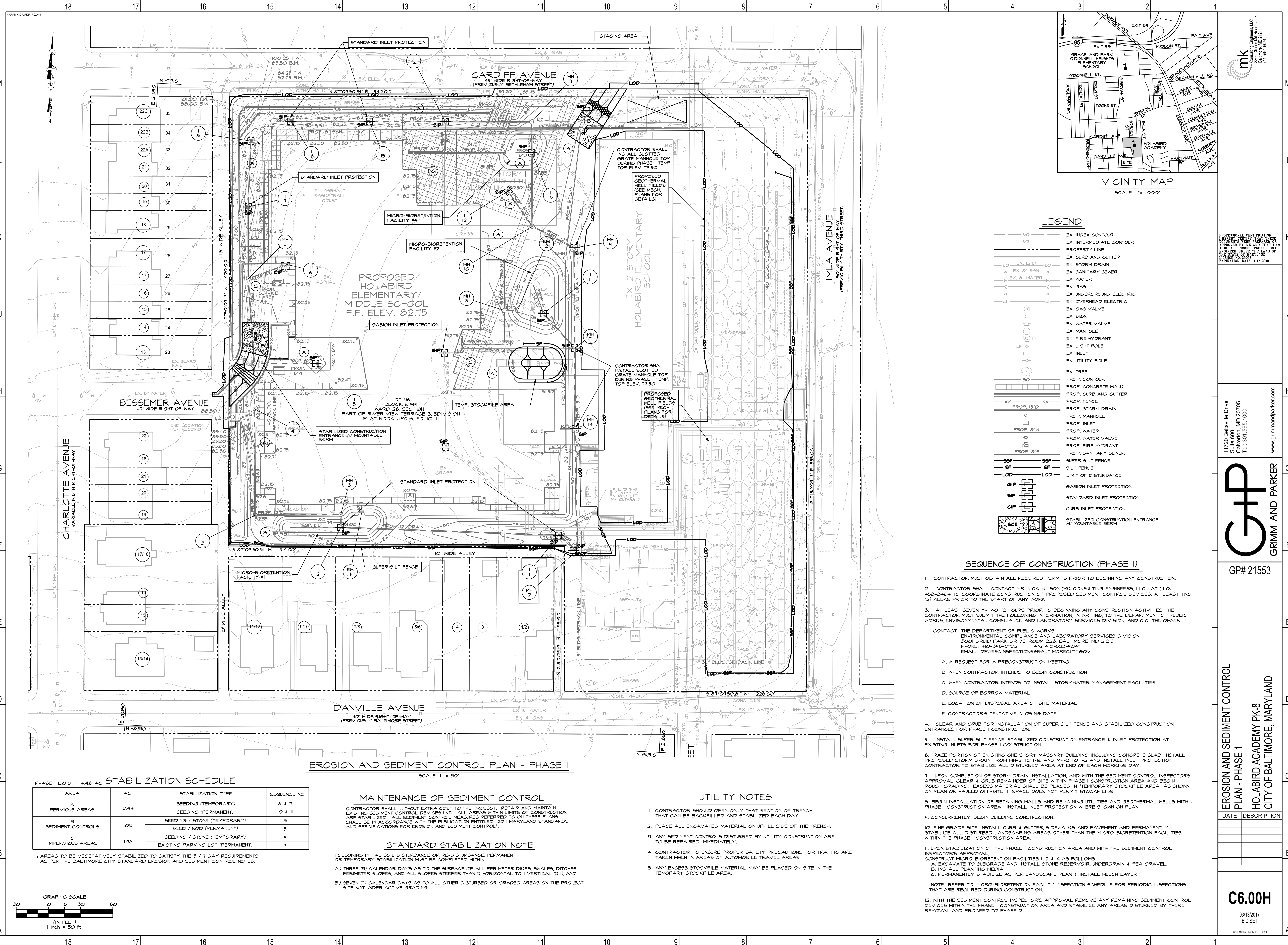


GP# 21553

UTILITY PROFILES
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C5.05H
 03/13/2017
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LEGEND

80	EX. INDEX CONTOUR
82	EX. INTERMEDIATE CONTOUR
---	PROPERTY LINE
---	EX. CURB AND GUTTER
---	EX. STORM DRAIN
---	EX. SANITARY SEWER
---	EX. WATER
---	EX. GAS
---	EX. UNDERGROUND ELECTRIC
---	EX. OVERHEAD ELECTRIC
---	EX. GAS VALVE
---	EX. SIGN
---	EX. WATER VALVE
---	EX. MANHOLE
---	EX. FIRE HYDRANT
---	EX. LIGHT POLE
---	EX. INLET
---	EX. UTILITY POLE
---	EX. TREE
---	PROP. CONCRETE WALK
---	PROP. CURB AND GUTTER
---	PROP. FENCE
---	PROP. STORM DRAIN
---	PROP. MANHOLE
---	PROP. INLET
---	PROP. WATER
---	PROP. WATER VALVE
---	PROP. FIRE HYDRANT
---	PROP. SANITARY SEWER
---	SUPER SILT FENCE
---	SILT FENCE
---	LIMIT OF DISTURBANCE
---	GABION INLET PROTECTION
---	STANDARD INLET PROTECTION
---	CURB INLET PROTECTION
---	STABILIZED CONSTRUCTION ENTRANCE W/ MOUNTABLE BERM

SEQUENCE OF CONSTRUCTION (PHASE I)

- CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING ANY CONSTRUCTION.
- CONTRACTOR SHALL CONTACT MR. NICK WILSON (MK CONSULTING ENGINEERS, LLC.) AT (410) 458-8464 TO COORDINATE CONSTRUCTION OF PROPOSED SEDIMENT CONTROL DEVICES, AT LEAST TWO (2) WEEKS PRIOR TO THE START OF ANY WORK.
- AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR MUST SUBMIT THE FOLLOWING INFORMATION, IN WRITING, TO THE DEPARTMENT OF PUBLIC WORKS, ENVIRONMENTAL COMPLIANCE AND LABORATORY SERVICES DIVISION, AND C.C. THE OWNER.

CONTACT: THE DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL COMPLIANCE AND LABORATORY SERVICES DIVISION
3001 DRUID PARK DRIVE, ROOM 226, BALTIMORE, MD 21215
PHONE: 410-596-0722 FAX: 410-523-1041
EMAIL: DPWENVIINSPECTIONS@BALTIMORECITY.GOV

 - A REQUEST FOR A PRECONSTRUCTION MEETING.
 - WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
 - WHEN CONTRACTOR INTENDS TO INSTALL STORMWATER MANAGEMENT FACILITIES
 - SOURCE OF BORROW MATERIAL
 - LOCATION OF DISPOSAL AREA OF SITE MATERIAL
 - CONTRACTOR'S TENTATIVE CLOSING DATE.
- CLEAR AND GRUB FOR INSTALLATION OF SUPER SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCES FOR PHASE I CONSTRUCTION.
- INSTALL SUPER SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE & INLET PROTECTION AT EXISTING INLETS FOR PHASE I CONSTRUCTION.
- RAZE PORTION OF EXISTING ONE STORY MASONRY BUILDING INCLUDING CONCRETE SLAB. INSTALL PROPOSED STORM DRAIN FROM MH-2 TO I-16 AND MH-2 TO I-2 AND INSTALL INLET PROTECTION. CONTRACTOR TO STABILIZE ALL DISTURBED AREA AT END OF EACH WORKING DAY.
- UPON COMPLETION OF STORM DRAIN INSTALLATION, AND WITH THE SEDIMENT CONTROL INSPECTORS APPROVAL, CLEAR & GRUB REMAINDER OF SITE WITHIN PHASE I CONSTRUCTION AREA AND BEGIN ROUGH GRADING. EXCESS MATERIAL SHALL BE PLACED IN TEMPORARY STOCKPILE AREA AS SHOWN ON PLAN OR HAULED OFF-SITE IF SPACE DOES NOT PERMIT STOCKPILING.
- BEGIN INSTALLATION OF RETAINING WALLS AND REMAINING UTILITIES AND GEOTHERMAL WELLS WITHIN PHASE I CONSTRUCTION AREA. INSTALL INLET PROTECTION WHERE SHOWN ON PLAN.
- CONCURRENTLY, BEGIN BUILDING CONSTRUCTION.
- UPON STABILIZATION OF THE PHASE I CONSTRUCTION AREA AND WITH THE SEDIMENT CONTROL INSPECTOR'S APPROVAL, CONSTRUCT MICRO-BIORETENTION FACILITIES 1, 2 & 4 AS FOLLOWS:
 - EXCAVATE TO SUBGRADE AND INSTALL STONE RESERVOIR, UNDERDRAIN & PEA GRAVEL.
 - INSTALL PLANTING MEDIA.
 - PERMANENTLY STABILIZE AS PER LANDSCAPE PLAN & INSTALL MULCH LAYER.

NOTE: REFER TO MICRO-BIORETENTION FACILITY INSPECTION SCHEDULE FOR PERIODIC INSPECTIONS THAT ARE REQUIRED DURING CONSTRUCTION.
- WITH THE SEDIMENT CONTROL INSPECTOR'S APPROVAL REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES WITHIN THE PHASE I CONSTRUCTION AREA AND STABILIZE ANY AREAS DISTURBED BY THERE REMOVAL AND PROCEED TO PHASE 2.

EROSION AND SEDIMENT CONTROL PLAN - PHASE I
SCALE: 1" = 50'

PHASE I L.O.D. = 4.48 AC. STABILIZATION SCHEDULE

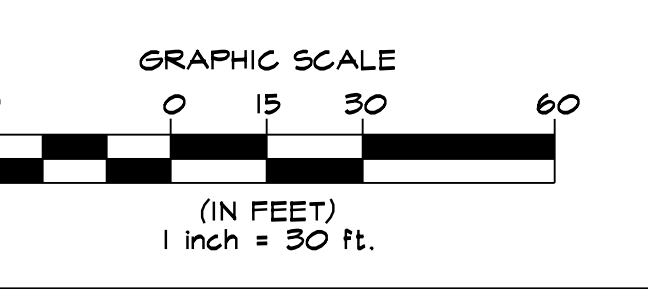
AREA	AC.	STABILIZATION TYPE	SEQUENCE NO.
A PERVIOUS AREAS	2.44	SEEDING (TEMPORARY)	6 & 7
		SEEDING (PERMANENT)	10 & 11
B SEDIMENT CONTROLS	0.8	SEEDING / STONE (TEMPORARY)	5
		SEED / SOD (PERMANENT)	5
C IMPERVIOUS AREAS	1.96	SEEDING / STONE (TEMPORARY)	4
		EXISTING PARKING LOT (PERMANENT)	4

MAINTENANCE OF SEDIMENT CONTROL
CONTRACTOR SHALL WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "2001 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL."

STANDARD STABILIZATION NOTE
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

UTILITY NOTES

- CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY.
- PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF THE TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.
- CONTRACTOR TO ENSURE PROPER SAFETY PRECAUTIONS FOR TRAFFIC ARE TAKEN WHEN IN AREAS OF AUTOMOBILE TRAVEL AREAS.
- ANY EXCESS STOCKPILE MATERIAL MAY BE PLACED ON-SITE IN THE TEMPORARY STOCKPILE AREA.



mk
MK CONSULTING ENGINEERS, LLC
3300 Old Baltimore Road, #223
Baltimore, MD 21211
Tel: 410-596-0722

PROFESSIONAL CERTIFICATION
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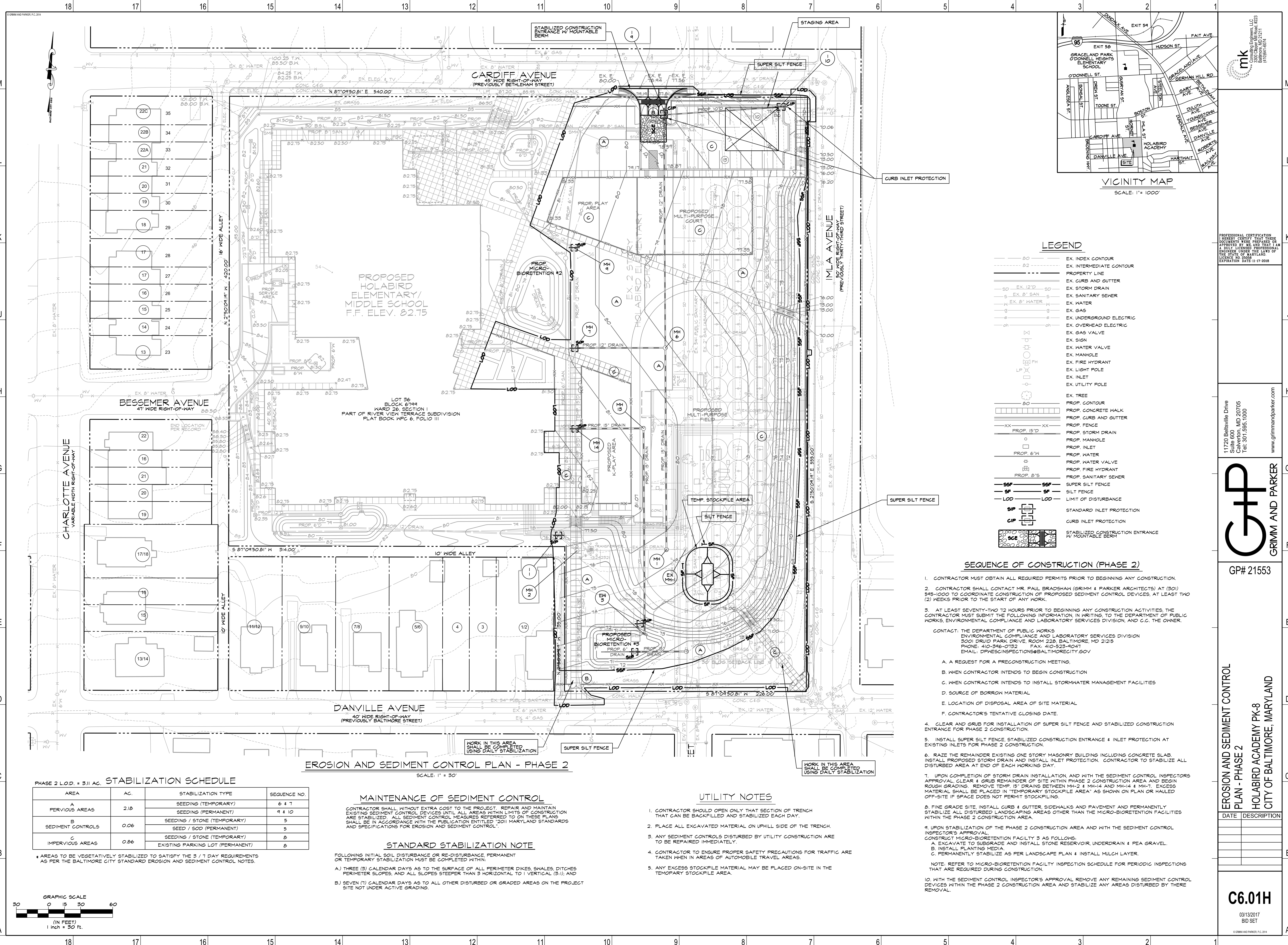
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www.grimmandparker.com

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EROSION AND SEDIMENT CONTROL PLAN - PHASE I
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE DESCRIPTION

C6.00H
03/13/2017
BID SET



EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
SCALE: 1" = 30'

PHASE 2 L.O.D. = 3.11 AC. STABILIZATION SCHEDULE

AREA	AC.	STABILIZATION TYPE	SEQUENCE NO.
A PERVIOUS AREAS	2.18	SEEDING (TEMPORARY)	6 & 7
		SEEDING (PERMANENT)	9 & 10
B SEDIMENT CONTROLS	0.06	SEEDING / STONE (TEMPORARY)	5
		SEED / SOD (PERMANENT)	5
C IMPERVIOUS AREAS	0.86	SEEDING / STONE (TEMPORARY)	8
		EXISTING PARKING LOT (PERMANENT)	8

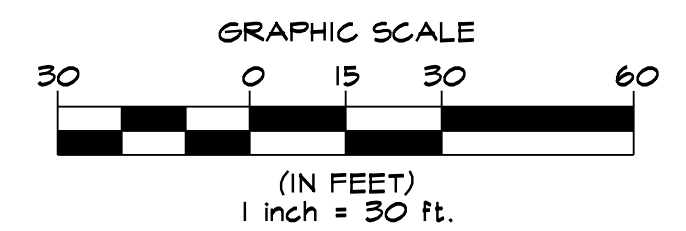
* AREAS TO BE VEGETATIVELY STABILIZED TO SATISFY THE 3 / 1 DAY REQUIREMENTS AS PER THE BALTIMORE CITY STANDARD EROSION AND SEDIMENT CONTROL NOTES.

MAINTENANCE OF SEDIMENT CONTROL
CONTRACTOR SHALL WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".

STANDARD STABILIZATION NOTE
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
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B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

UTILITY NOTES
1. CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY.
2. PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF THE TRENCH.
3. ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.
4. CONTRACTOR TO ENSURE PROPER SAFETY PRECAUTIONS FOR TRAFFIC ARE TAKEN WHEN IN AREAS OF AUTOMOBILE TRAVEL AREAS.
5. ANY EXCESS STOCKPILE MATERIAL MAY BE PLACED ON-SITE IN THE TEMPORARY STOCKPILE AREA.

- SEQUENCE OF CONSTRUCTION (PHASE 2)**
- CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING ANY CONSTRUCTION.
 - CONTRACTOR SHALL CONTACT MR. PAUL BRADSHAW (GRIMM & PARKER ARCHITECTS) AT (301) 545-1000 TO COORDINATE CONSTRUCTION OF PROPOSED SEDIMENT CONTROL DEVICES, AT LEAST TWO (2) WEEKS PRIOR TO THE START OF ANY WORK.
 - AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR MUST SUBMIT THE FOLLOWING INFORMATION, IN WRITING, TO THE DEPARTMENT OF PUBLIC WORKS, ENVIRONMENTAL COMPLIANCE AND LABORATORY SERVICES DIVISION, AND C.C. THE OWNER.
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3001 DRUID PARK DRIVE, ROOM 226, BALTIMORE, MD 21215
PHONE: 410-596-0732 FAX: 410-593-1047
EMAIL: DPWENCSINSPECTIONS@BALTIMORECITY.GOV
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B. WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
C. WHEN CONTRACTOR INTENDS TO INSTALL STORMWATER MANAGEMENT FACILITIES
D. SOURCE OF BORROW MATERIAL
E. LOCATION OF DISPOSAL AREA OF SITE MATERIAL
F. CONTRACTOR'S TENTATIVE CLOSING DATE.
- CLEAR AND GRUB FOR INSTALLATION OF SUPER SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE FOR PHASE 2 CONSTRUCTION.
 - INSTALL SUPER SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE & INLET PROTECTION AT EXISTING INLETS FOR PHASE 2 CONSTRUCTION.
 - RAZE THE REMAINDER EXISTING ONE STORY MASONRY BUILDING INCLUDING CONCRETE SLAB, INSTALL PROPOSED STORM DRAIN AND INSTALL INLET PROTECTION. CONTRACTOR TO STABILIZE ALL DISTURBED AREA AT END OF EACH WORKING DAY.
 - UPON COMPLETION OF STORM DRAIN INSTALLATION, AND WITH THE SEDIMENT CONTROL INSPECTORS APPROVAL, CLEAR & GRUB REMAINDER OF SITE WITHIN PHASE 2 CONSTRUCTION AREA AND BEGIN ROUGH GRADING. REMOVE TEMP. 15" DRAINS BETWEEN MH-2 & MH-4 AND MH-4 & MH-1. EXCESS MATERIAL SHALL BE PLACED IN "TEMPORARY STOCKPILE AREA" AS SHOWN ON PLAN OR HAULED OFF-SITE IF SPACE DOES NOT PERMIT STOCKPILING.
 - FINE GRADE SITE, INSTALL CURB & GUTTER, SIDEWALKS AND PAVEMENT AND PERMANENTLY STABILIZE ALL DISTURBED LANDSCAPING AREAS OTHER THAN THE MICRO-BIORETENTION FACILITIES WITHIN THE PHASE 2 CONSTRUCTION AREA.
 - UPON STABILIZATION OF THE PHASE 2 CONSTRUCTION AREA AND WITH THE SEDIMENT CONTROL INSPECTOR'S APPROVAL, CONSTRUCT MICRO-BIORETENTION FACILITY 3 AS FOLLOWS:
A. EXCAVATE TO SUBGRADE AND INSTALL STONE RESERVOIR, UNDERDRAIN & PEA GRAVEL.
B. INSTALL PLANTING MEDIA.
C. PERMANENTLY STABILIZE AS PER LANDSCAPE PLAN & INSTALL MULCH LAYER.
NOTE: REFER TO MICRO-BIORETENTION FACILITY INSPECTION SCHEDULE FOR PERIODIC INSPECTIONS THAT ARE REQUIRED DURING CONSTRUCTION.
 - WITH THE SEDIMENT CONTROL INSPECTOR'S APPROVAL REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES WITHIN THE PHASE 2 CONSTRUCTION AREA AND STABILIZE ANY AREAS DISTURBED BY THEIR REMOVAL.

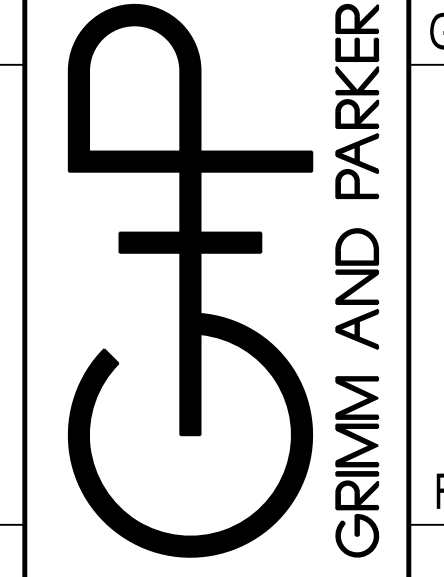


LEGEND

- EX. INDEX CONTOUR
- EX. INTERMEDIATE CONTOUR
- PROPERTY LINE
- EX. CURB AND GUTTER
- EX. STORM DRAIN
- EX. SANITARY SEWER
- EX. WATER
- EX. GAS
- EX. UNDERGROUND ELECTRIC
- EX. OVERHEAD ELECTRIC
- EX. GAS VALVE
- EX. SIGN
- EX. WATER VALVE
- EX. MANHOLE
- EX. FIRE HYDRANT
- EX. LIGHT POLE
- EX. INLET
- EX. UTILITY POLE
- EX. TREE
- PROP. CONTOUR
- PROP. CONCRETE WALK
- PROP. CURB AND GUTTER
- PROP. FENCE
- PROP. STORM DRAIN
- PROP. MANHOLE
- PROP. INLET
- PROP. WATER
- PROP. WATER VALVE
- PROP. FIRE HYDRANT
- PROP. SANITARY SEWER
- SUPER SILT FENCE
- SILT FENCE
- LIMIT OF DISTURBANCE
- STANDARD INLET PROTECTION
- CURB INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE W/ MOUNTABLE BERM

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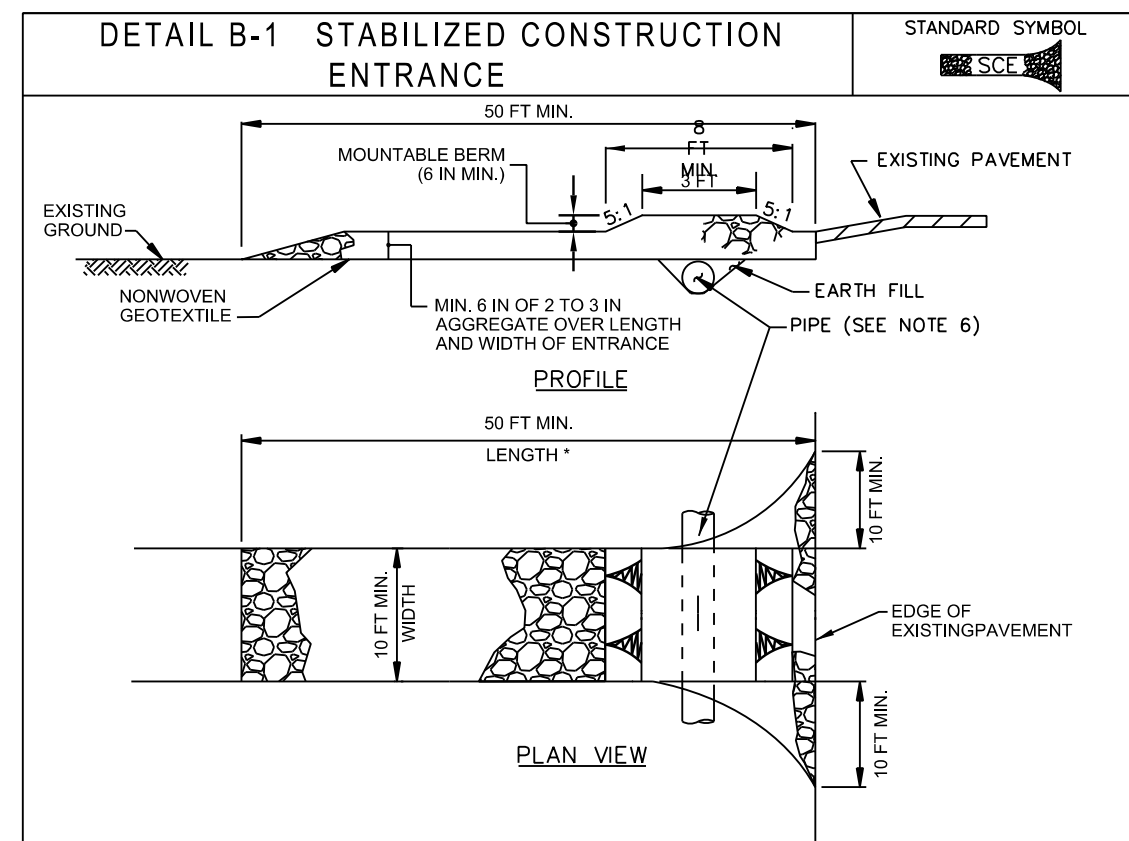


GP#21553

EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

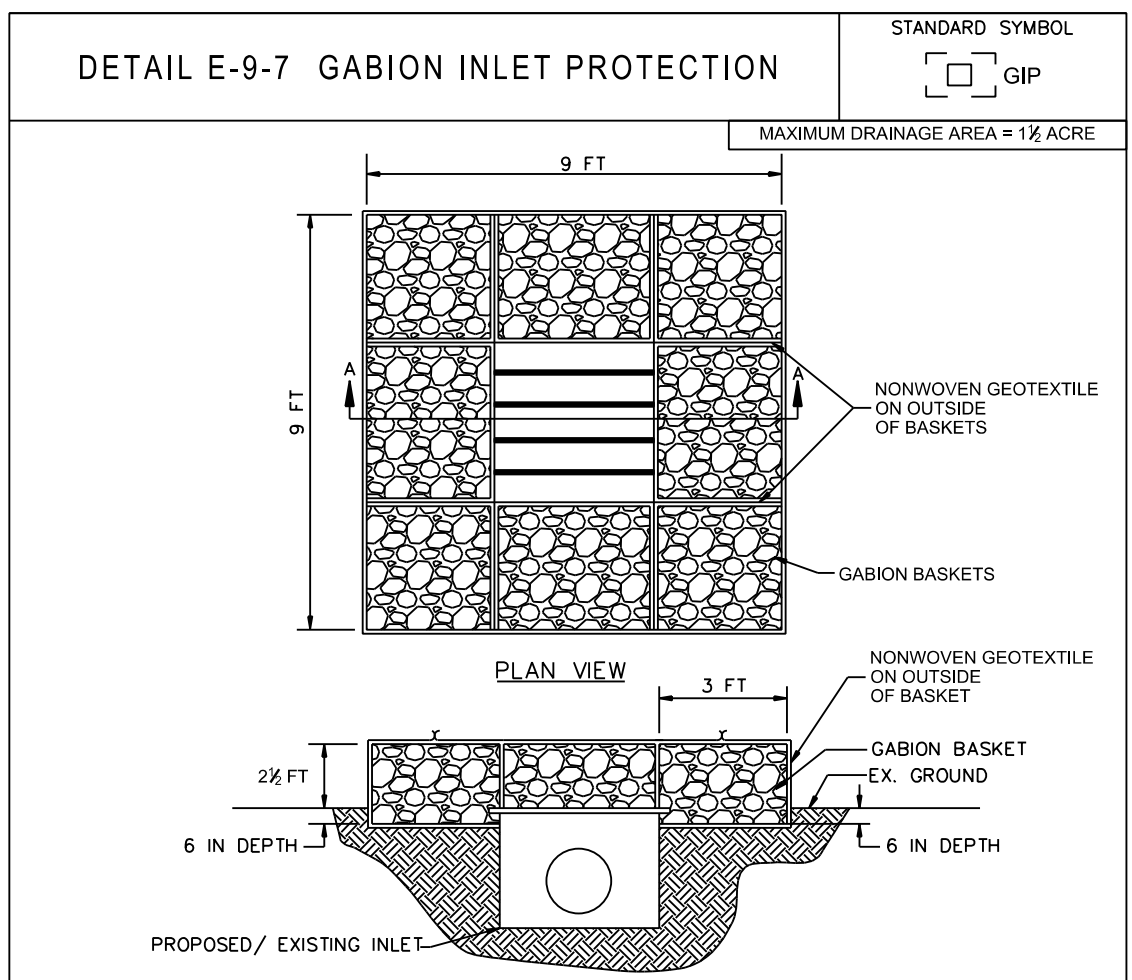
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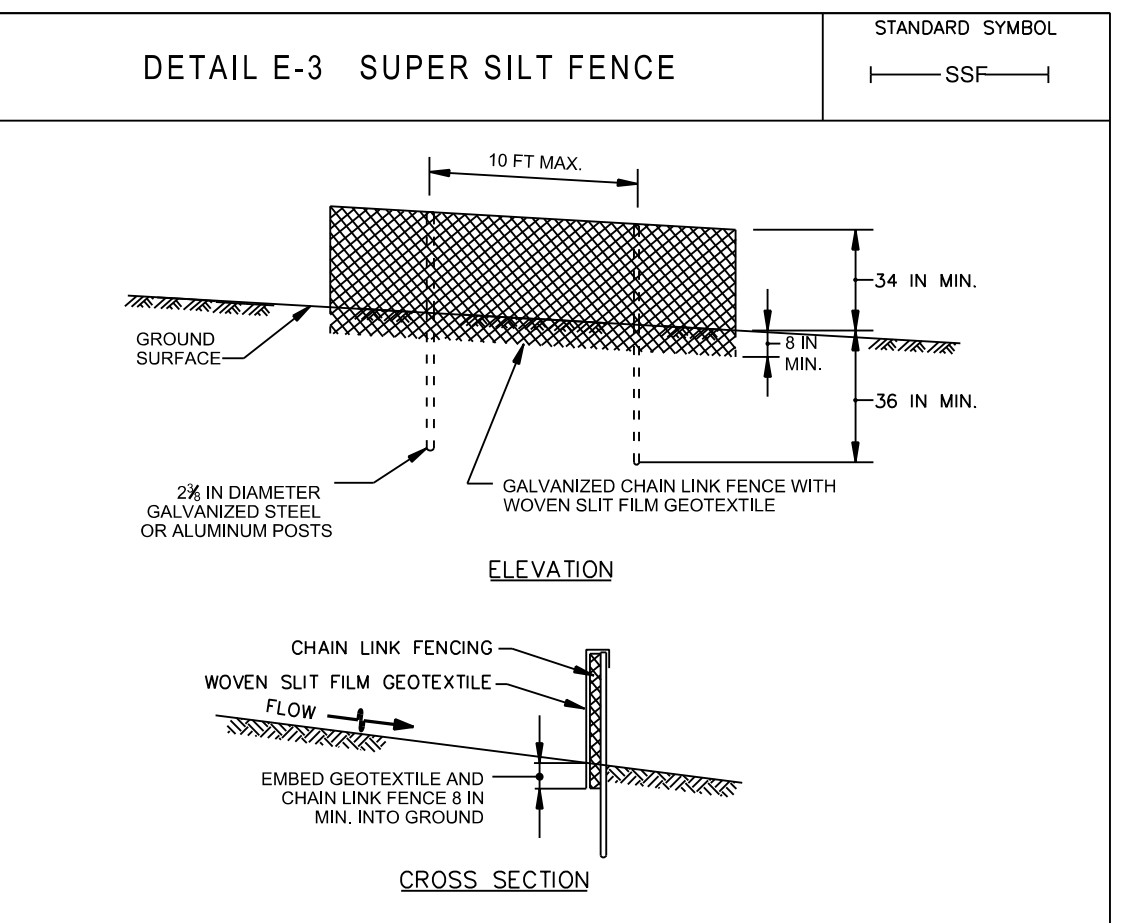
CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 30 FEET (30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SIDE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE. MAINTAIN POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 0:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 8 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.



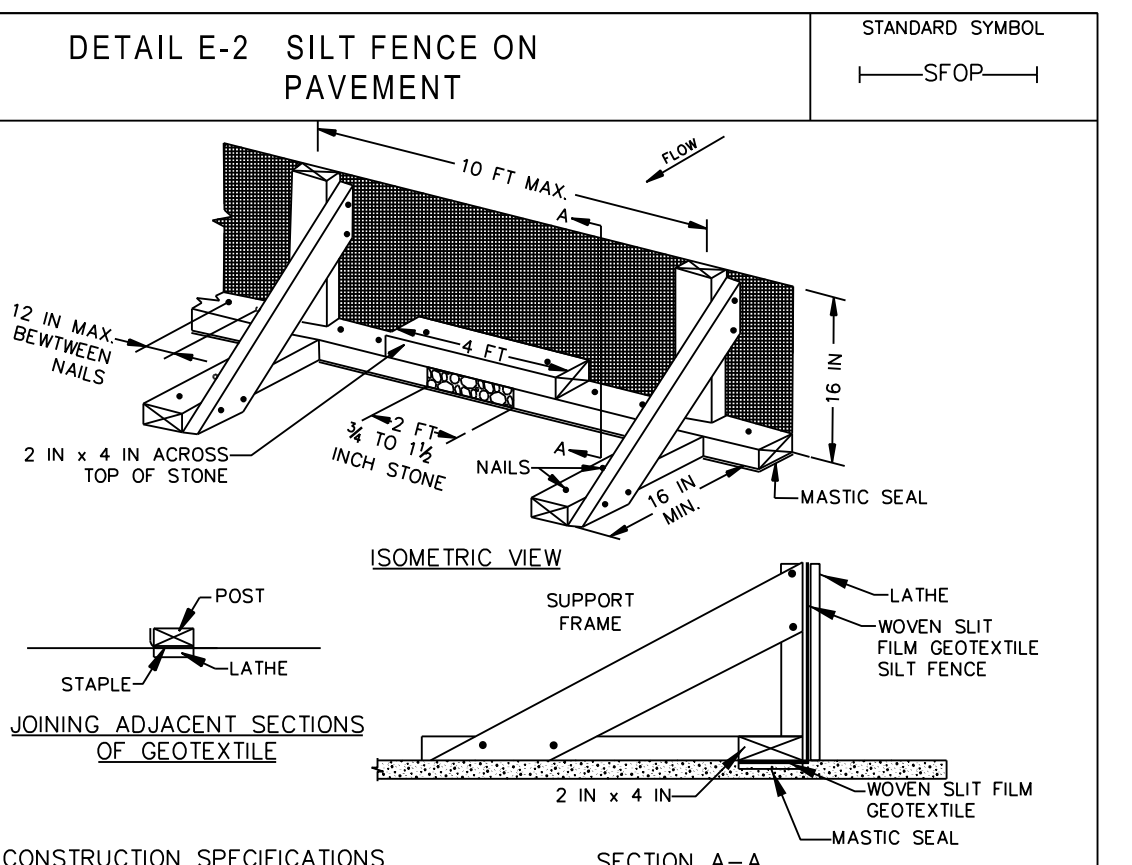
CONSTRUCTION SPECIFICATIONS

1. USE BASKETS MADE OF 11 GAUGE WIRE OR HEAVIER.
2. WRAP 3 FEET X 3 FEET GABION BASKETS (LENGTH VARIABLE) WITH NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVERLAPPING AT THE TOP AND FASTEN THE GEOTEXTILE AT THE TOP OF THE BASKET WITH WIRE FASTENERS (HOC RINGS) AT A MAXIMUM OF 1 FOOT INTERVALS ALONG THE SEAM.
3. AVOID TEARING OR DAMAGING GEOTEXTILE.
4. ENTRENCH GABION BASKETS TO A DEPTH OF 6 INCHES.
5. PLACE AND INTERLOCK GABION BASKETS WITH NO GAPS.
6. FILL GABION BASKETS WITH CLEAN 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE WITHOUT REBAR OR MESH.
7. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.



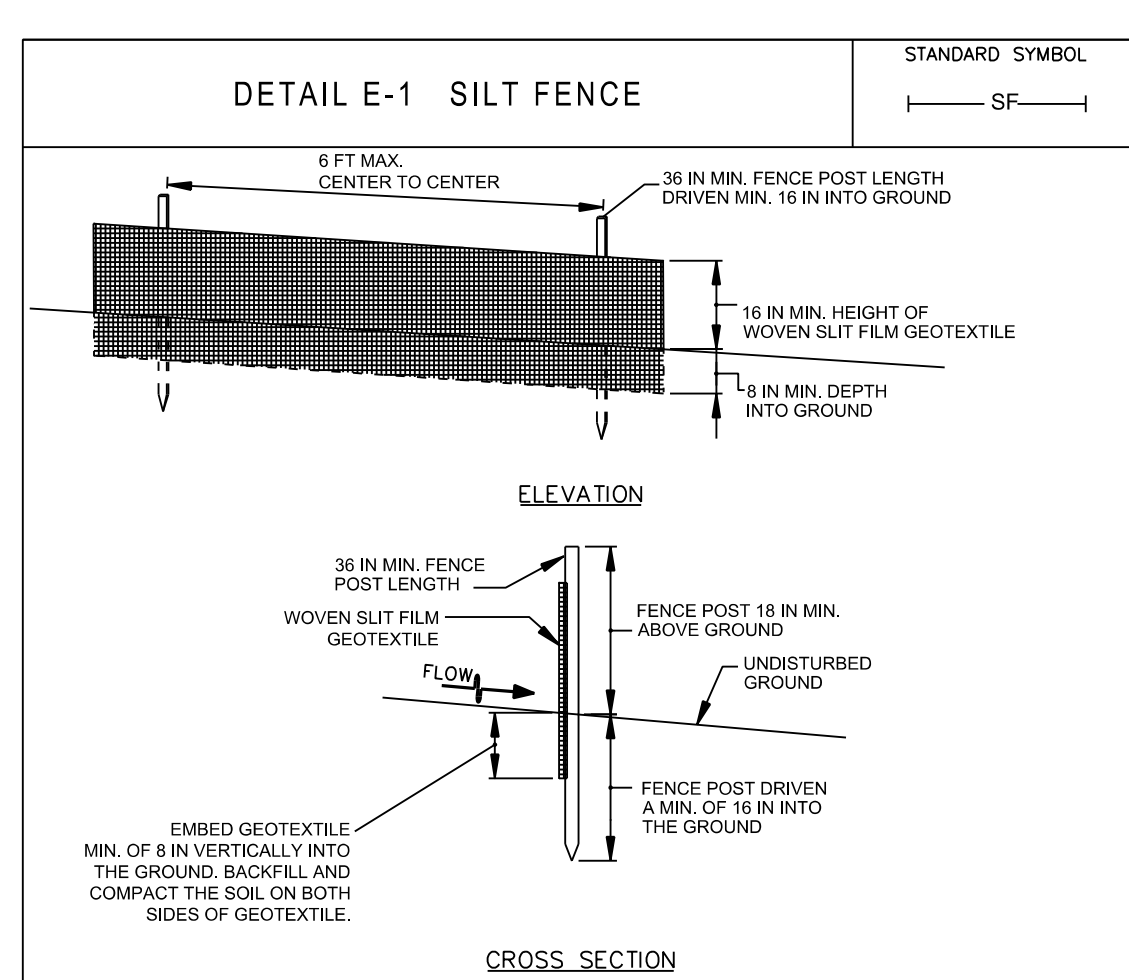
CONSTRUCTION SPECIFICATIONS

1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.



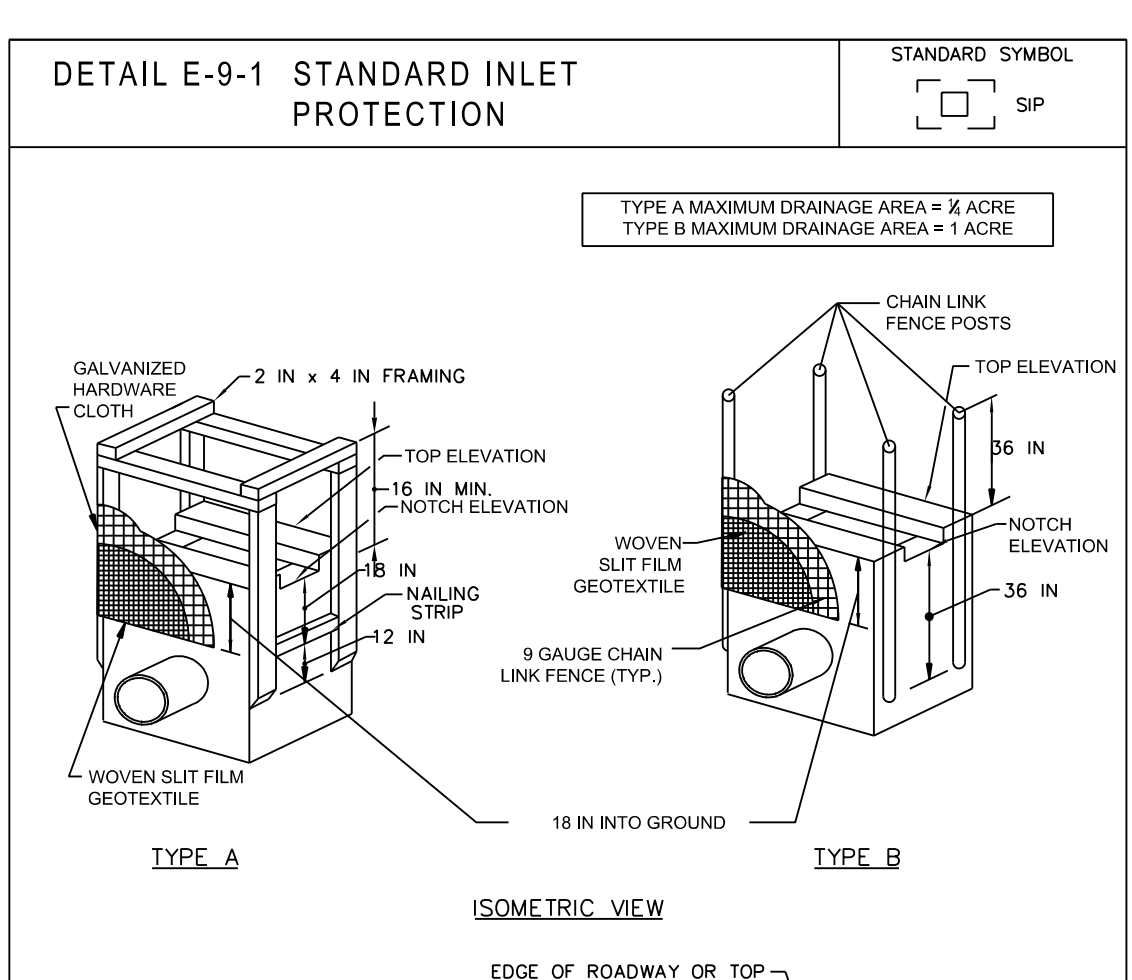
CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE WOVEN SILT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
3. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
7. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN, OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LOADED WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
9. SECURE BOARDS TO PAVEMENT WITH ADD 5 INCH MINIMUM LENGTH NAILS.
10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.



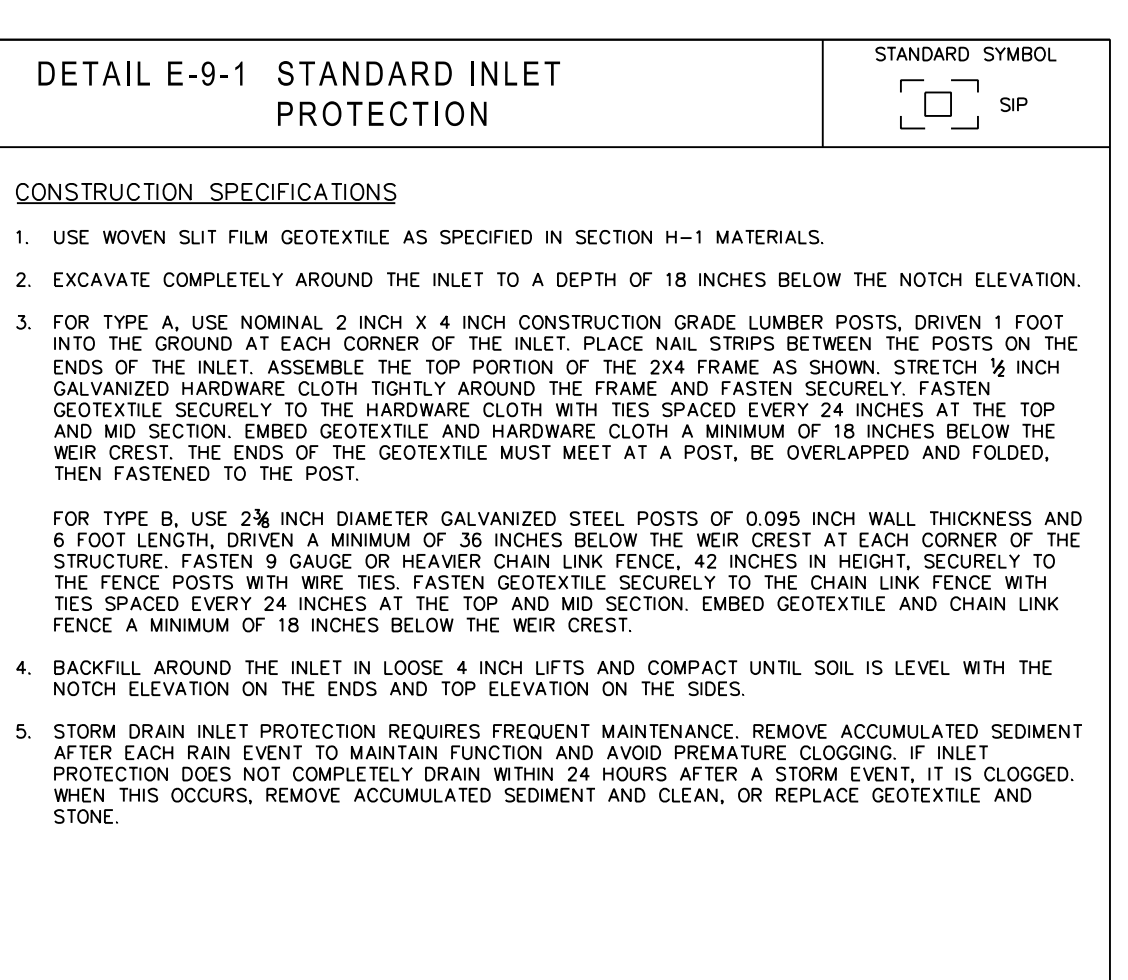
CONSTRUCTION SPECIFICATIONS

1. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET ASSEMBLY. THE PORTION OF THE 2x4 FRAME AS SHOWN, STRETCH 1/2 INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.



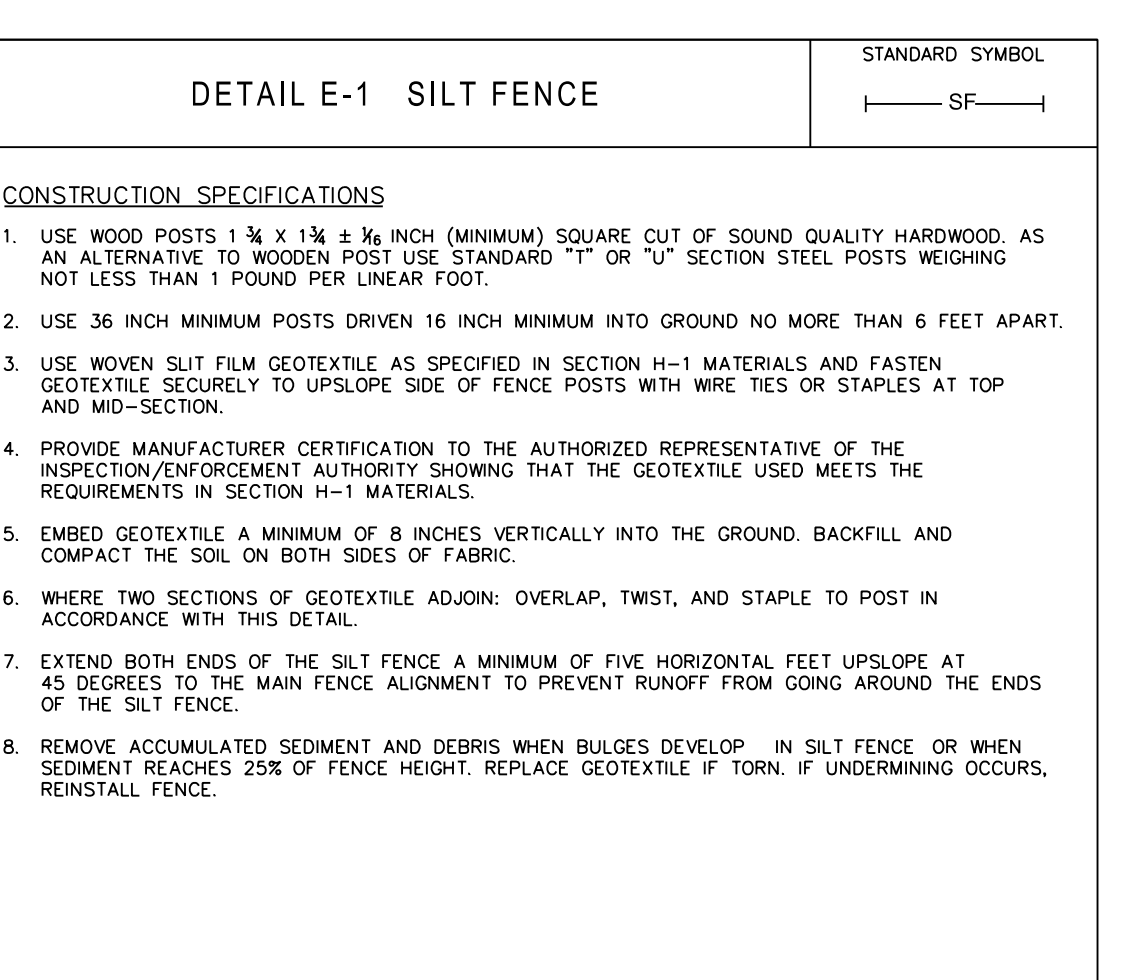
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4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
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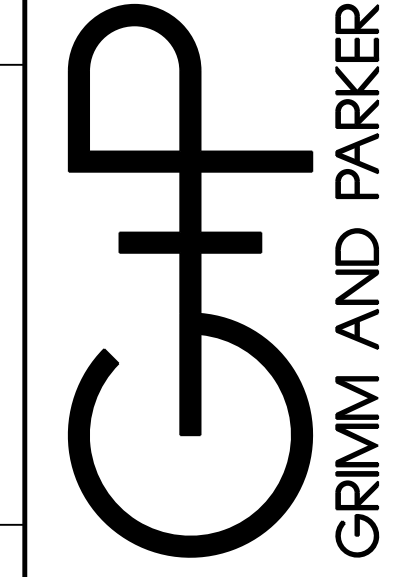
CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1 1/2 X 1 1/2 X 1/2 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS AN ALTERNATIVE TO WOODEN POSTS USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN, OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 20028 EXPIRATION DATE 11-17-2018

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GP# 21553

EROSION & SEDIMENT CONTROL DETAILS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C6.02H
03/13/2017
BID SET

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

DEFINITION
 A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES. PURPOSE TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

CONDITIONS
 WHERE PRACTICE APPLIES STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

CRITERIA

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGES.
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/1 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

MAINTENANCE
 THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

H-5 STANDARDS & SPECIFICATIONS FOR DUST CONTROL

DEFINITION
 CONTROLLING THE SUSPENSION OF DUST PARTICULS FROM CONSTRUCTION ACTIVITIES.

PURPOSE
 TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES TO REDUCE ON AND OFF-SITE DAMAGE.

CONDITIONS WHERE PRACTICE APPLIED
 AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

1. MULCHES; SEE SECTION B-4-2 SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS, SECTION B-4-3 SEEDING AND MULCHING, AND SECTION B-4-4 TEMPORARY STABILIZATION. MULCH MUST BE ANCHORED TO PREVENT BLOWING.
2. VEGETATIVE COVER; SEE SECTION B-4-4 TEMPORARY STABILIZATION.
3. TILLAGE; TILL TO ROUGHEN SURFACE AND BRING CLODS TO SURFACE. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.
4. IRRIGATION; SPRINKLE SITE WITH WATER UNTIL SURFACE IS MOIST. REPEAT AS NEEDED. THE SITE MUST NOT BE IRRIGATED TO THE POINT THAT RUNOFF OCCURS.
5. BARRIERS; SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
6. CHEMICAL TREATMENT; USE OF CHEMICAL TREATMENT REQUIRES APPROVAL BY THE APPROPRIATE PLAN REVIEW AUTHORITY.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

GENERAL NOTES

1. CONTRACTOR SHALL PLACE 4" MINIMUM TOPSOIL (AFTER COMPACTION), SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS ON SHEET C6.04H
2. THE CONTRACTOR SHALL SUBMIT SEED MIXTURE CERTIFICATION TO THE OWNER PRIOR APPLICATION.
3. FOR EROSION AND SEDIMENT CONTROL DETAILS SEE SHEET C6.02H.
4. FOR EROSION AND SEDIMENT CONTROL STAB. NOTES SEE SHTS. C6.04H & C6.05H.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR WILL COMPLY WITH ALL REQUIREMENTS OF SEDIMENT AND EROSION CONTROL AS SET FORTH IN THE MARYLAND SEDIMENT AND EROSION MANUAL AND BALTIMORE CITY CODE ARTICLE 1.
2. SUBMIT A WRITTEN NOTIFICATIONS TO: THE DEPARTMENT OF PUBLIC WORKS, OFFICE OF COMPLIANCE AND LABORATORIES, 3001 DRUID PARK DRIVE, ROOM 228, BALTIMORE, MD 21215. PHONE NUMBER 410-346-0752, FAX 410-523-9041, DPW.ESC.INSPCTIONS@BALTIMORECITY.GOV, AT LEAST 12 HOUR PRIOR TO THE START OF CONSTRUCTION STAGING.
 - A. WHEN THE CONTRACTOR INTENDS TO BEGIN WORK;
 - B. SOURCE OF THE BORROW MATERIAL;
 - C. DISPOSAL SITE FOR THE EXCESS MATERIAL;
 - D. STAGING AND/OR STOCKPILE LOCATION(S).
3. INITIAL DISTURBANCE WILL BE LIMITED TO THAT NECESSARY TO GAIN ENTRANCE TO THE SITE AND INSTALL NECESSARY SEDIMENT CONTROLS AS PER THE APPROVED PLANS.
4. ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN THREE CALENDAR DAYS. ALL OTHER INACTIVE DISTURBED AREAS ON THE PROJECT SITE MUST BE STABILIZED WITHIN SEVEN CALENDAR DAYS.
5. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE WHENEVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT OBSTRUCT THE NORMAL COURSE OF DRAINAGE.
6. PUMPING OF SEDIMENT LADEN WATER WILL NOT BE ALLOWED UNLESS IT IS FILTERED BY WAY OF AN APPROVED SEDIMENT TRAPPING DEVICE.
7. CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICE IS MANDATORY.
8. ANY SEDIMENT CONTROL DEVICES DISTURBED DURING UTILITY CONSTRUCTION MUST BE RESTORED IMMEDIATELY.
9. ALL POINTS OF INGRESS AND EGRESS SHALL BE PROTECTED TO MINIMIZE TRACKING OF MUD ON TO PUBLIC RIGHT-OF-WAYS.
10. ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL TRACKED, SPILLED OR WASHED ON TO ADJACENT ROADS MUST BE IMMEDIATELY REMOVED AND DISPOSED OF IN A PROPER MANNER. FLUSHING WILL NOT BE PERMITTED. ALL MATERIAL MUST BE REMOVED BY MEANS OF SHOVELING AND SWEEEPING.
11. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 5,000 SQ.FT, THE CONTRACTOR SHALL HAVE A BALTIMORE CITY EROSION AND SEDIMENT CONTROL INSPECTOR INSPECT AND APPROVE THE WORK COMPLETED AT THE STAGES OF CONSTRUCTION SPECIFIED BELOW.
 - A. UPON COMPLETION OF THE INSTALLATION OF THE PERIMETER SEDIMENT CONTROLS;
 - B. DURING ALL GRADING AND BUILDING OPERATIONS;
 - C. UPON FINAL STABILIZATION OF THE ENTIRE SITE PRIOR TO REMOVAL OF THE SEDIMENT CONTROLS.
12. THE CONTRACTOR SHALL NOT DEVIATE FROM THE APPROVED SEDIMENT AND EROSION CONTROL PLAN WITHOUT FIRST RECEIVING APPROVAL FROM THE OFFICE OF COMPLIANCE AND LABORATORIES. VARIATIONS TO THE ORIGINAL PLAN MUST BE SUBMITTED IN WRITING WITH ALL PROPOSED MODIFICATIONS STILL BEING HIGHLIGHTED. SUBSTANTIAL CHANGED WILL NECESSITATE AMENDMENT OF THE GRADING /BUILDING PERMIT.

OWNER'S/ DEVELOPER'S CERTIFICATION

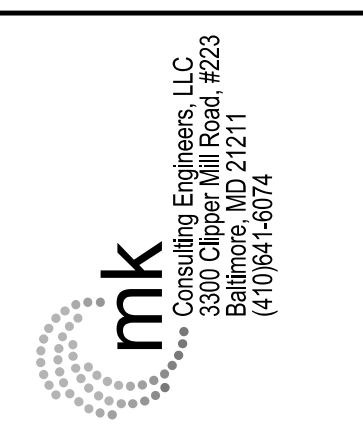
I/WE DO HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED PLAN AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT AN APPROVED MARYLAND DEPARTMENT OF THE ENVIRONMENT SEDIMENT AND EROSION CONTROL TRAINING PROGRAM PRIOR TO THE BEGINNING OF WORK.

PRINT NAME _____	SIGNATURE _____	DATE _____
ADDRESS _____	TELEPHONE NUMBER _____	

ENGINEER'S CERTIFICATION

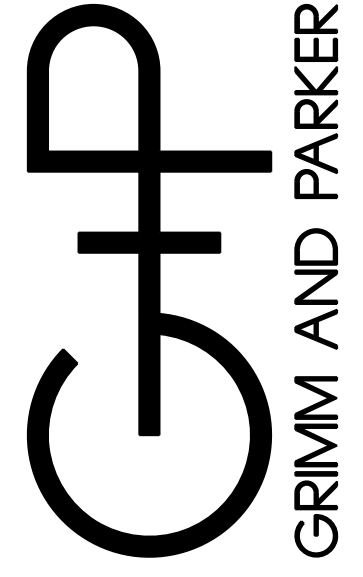
I DO HEREBY CERTIFY THAT THIS PLAN FOR EROSION SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED UPON PERSONAL KNOWLEDGE OT THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE CITY STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL PLANS REVIEW SECTION.

MARIANNE CRAMPTON PRINT NAME	25058 LIC. NO.	SIGNATURE _____	DATE _____
MK CONSULTING ENGINEERS, LLC 301 CENTRAL AVENUE, PO BOX 265 GLYNDON, MD 21071 ADDRESS		TELEPHONE NUMBER _____	



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 25058 EXPIRATION DATE 11-17-2018

11720 Beltsville Drive Suite 600 Calverton, MD 20705 Tel: 301.595.1000 www.grimmandparker.com



GP# 21553

EROSION & SEDIMENT CONTROL NOTES
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

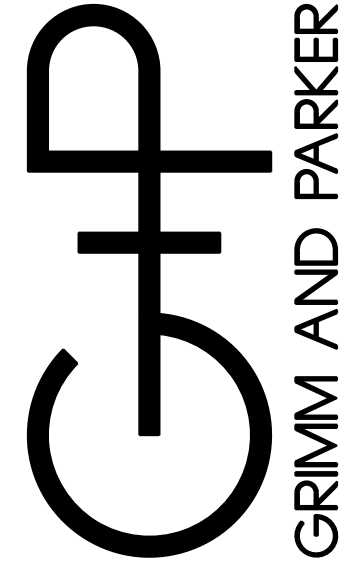
DATE	DESCRIPTION

C6.03H
 03/13/2017
 BID SET



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 20048 EXPIRATION DATE 11-17-2018

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GP# 21553

EROSION & SEDIMENT CONTROL STABILIZATION NOTES HOLLARD ACADEMY PK-8 CITY OF BALTIMORE, MARYLAND

Table with 2 columns: DATE, DESCRIPTION

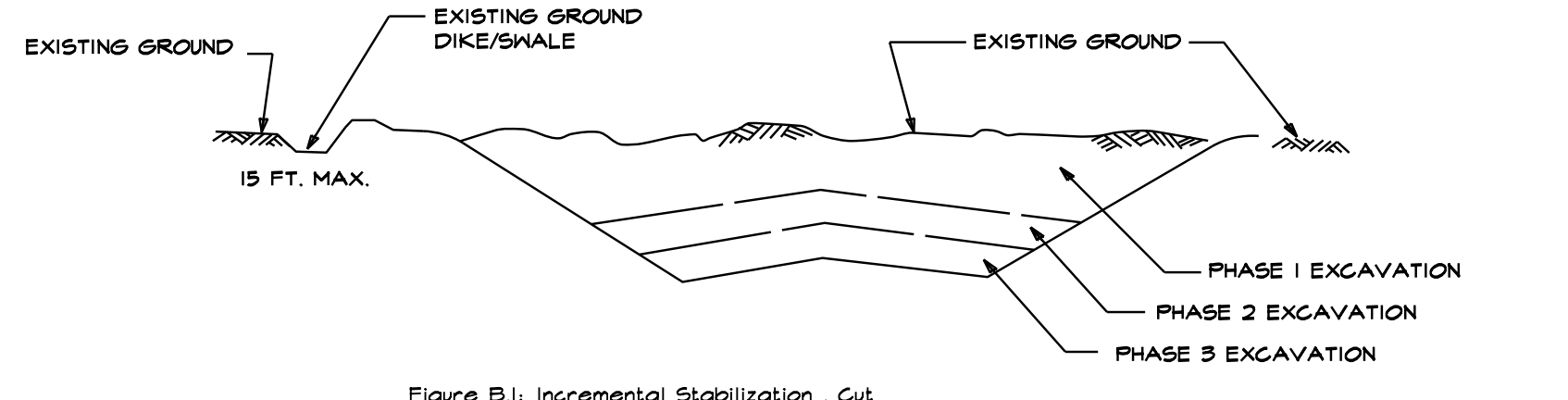
C6.04H 03/13/2017 BID SET

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

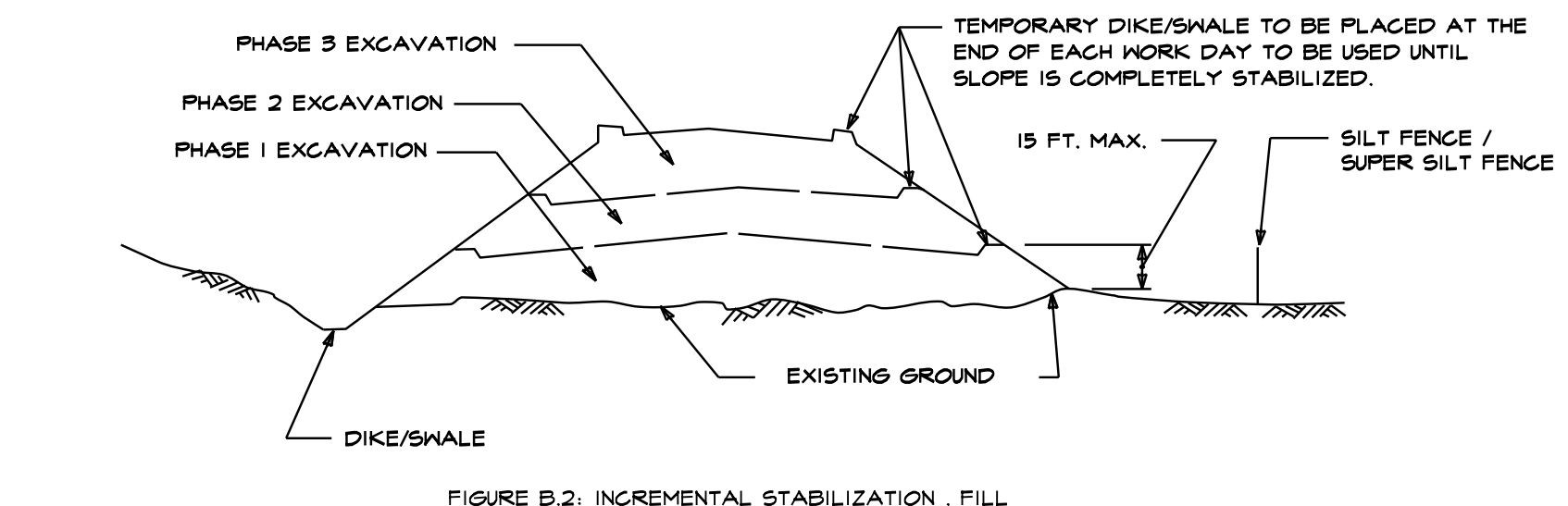
DEFINITION: USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION. PURPOSE: TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. CONDITIONS WHERE PRACTICE APPLIES: ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS...

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

DEFINITION: ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES. PURPOSE: TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK PROGRESSES. CONDITIONS WHERE PRACTICE APPLIES: ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT...



B. INCREMENTAL STABILIZATION - FILL SLOPES. 1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. 2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET...



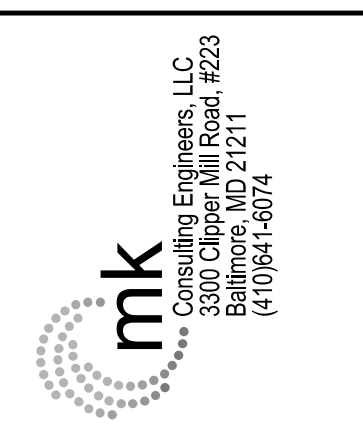
B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION: THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. CONDITIONS WHERE PRACTICE APPLIES: WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS...

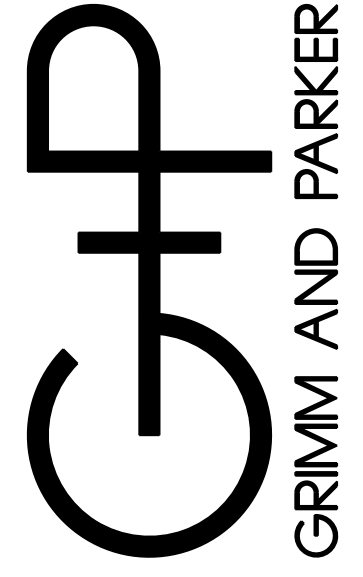
B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

DEFINITION: THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. PURPOSE: TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION. CONDITIONS WHERE PRACTICE APPLIES: TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.



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GP# 21553

EROSION & SEDIMENT CONTROL STABILIZATION NOTES HOLLABIRD ACADEMY PK-8 CITY OF BALTIMORE, MARYLAND

Table with 2 columns: DATE, DESCRIPTION

C6.05H 03/13/2017 BID SET

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS. PURPOSE TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS. CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED. CRITERIA 1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY...

PERMANENT SEEDING SUMMARY table with columns: NO., SPECIES, APPLICATION RATE (lb/ac), SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE (N, P2O5, K2O), LIME RATE

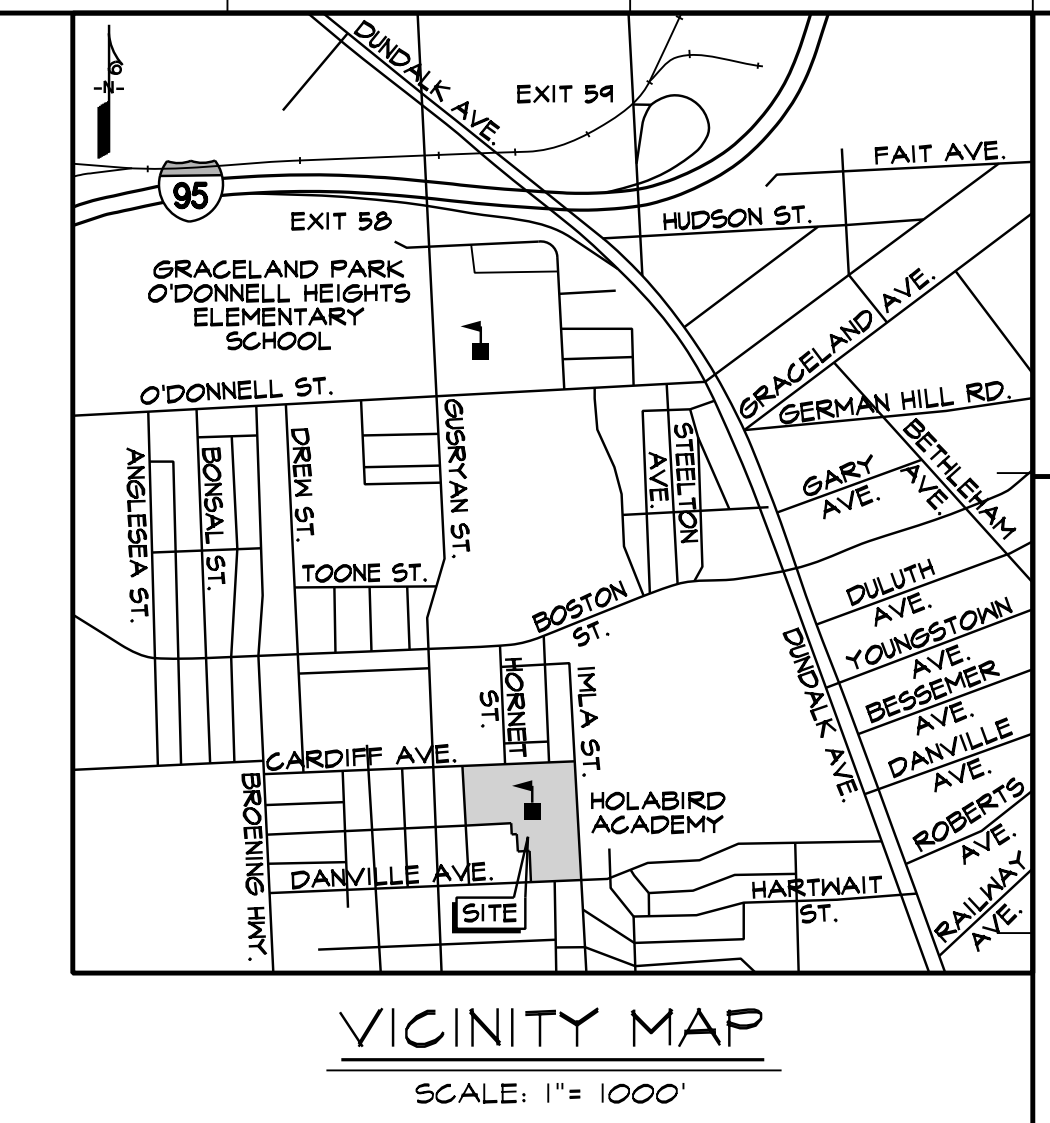
TEMPORARY SEEDING SUMMARY

TEMPORARY SEEDING SUMMARY table with columns: NO., SPECIES, APPLICATION RATE (lb/ac), SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE (lb/1000 sf), LIME RATE

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

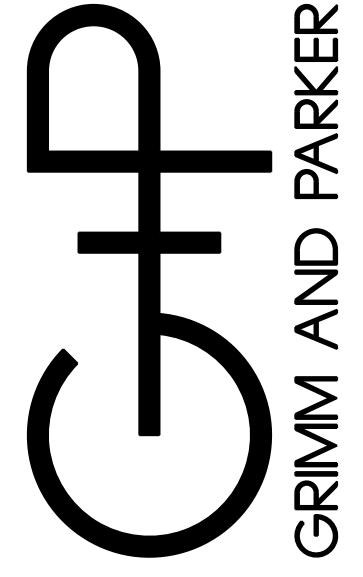
DEFINITION TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION. PURPOSE TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS. CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE. CRITERIA A. SEED MIXTURES 1. GENERAL USE a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY... b. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT... c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY... d. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 LBS PER 1000 SQUARE FEET (50 POUNDS PER ACRE) AT THE TIME OF SEEDING... 2. TURFGRASS MIXTURES a. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY... i. KENTUCKY BLUEGRASS: FULL SUN MIXTURE. FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT, IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET... ii. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE. FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT... iii. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE. FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT... iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE. FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA... NOTES SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION AGRONOMY MEMO #71, 'TURFGRASS CULTIVAR CULTIVAR RECOMMENDATIONS FOR MARYLAND' CHOOSE CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY... c. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B) d. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 INCHES IN DIAMETER... e. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED...

- B. SOD TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER). 1. GENERAL SPECIFICATIONS a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED... b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF +/- INCH PLUS OR MINUS +/- INCH... c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT... d. SOD MUST NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL... e. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS... 2. SOD INSTALLATION a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL... b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE... c. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR... d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING... 3. SOD MAINTENANCE a. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY... b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED... c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED...



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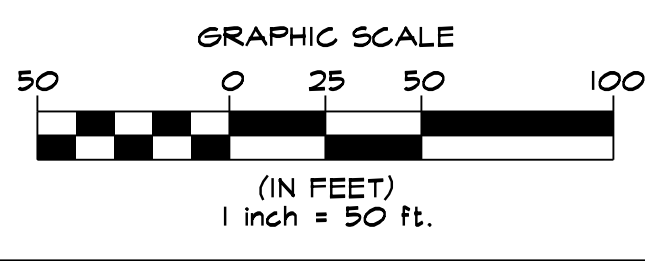
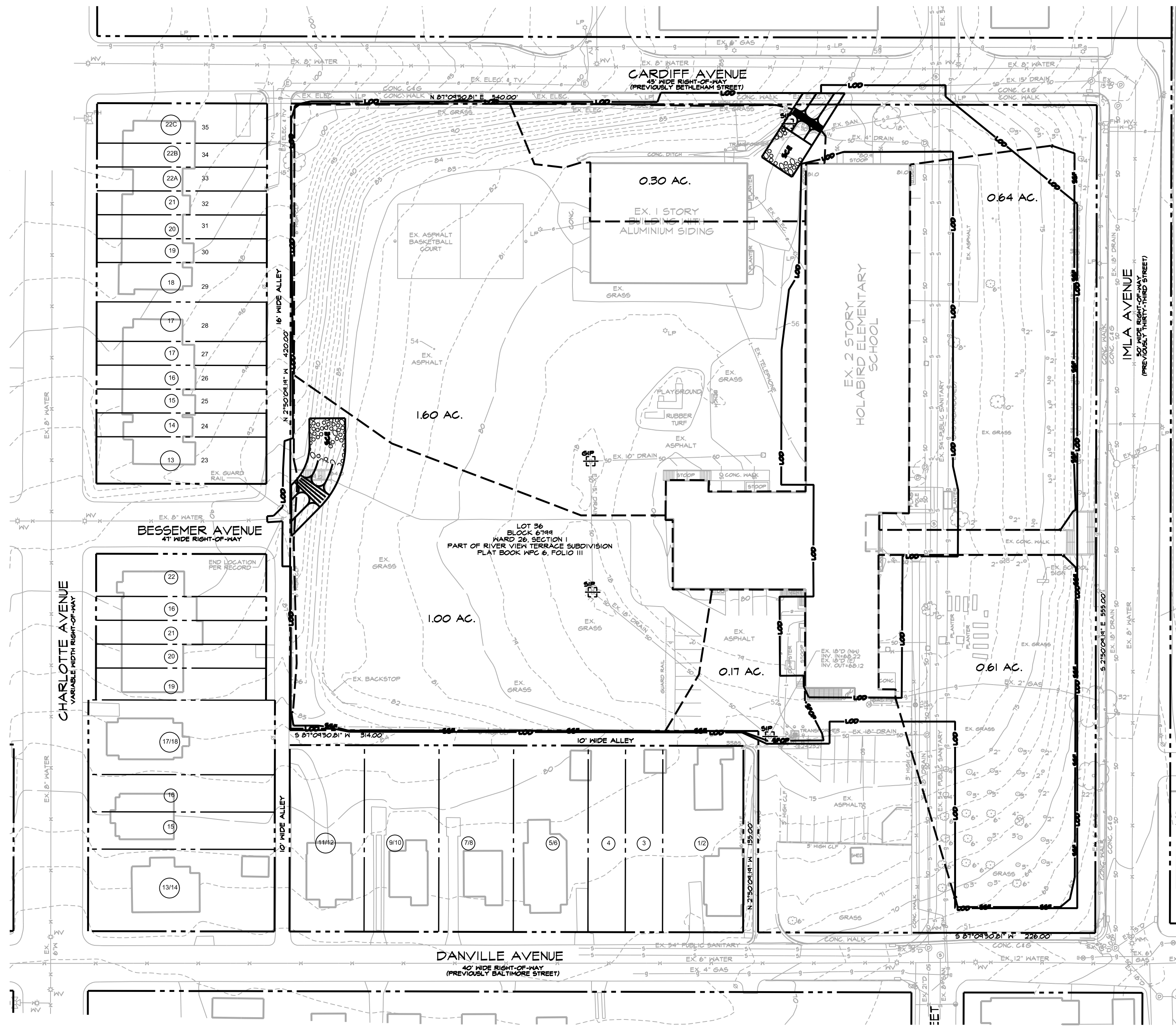
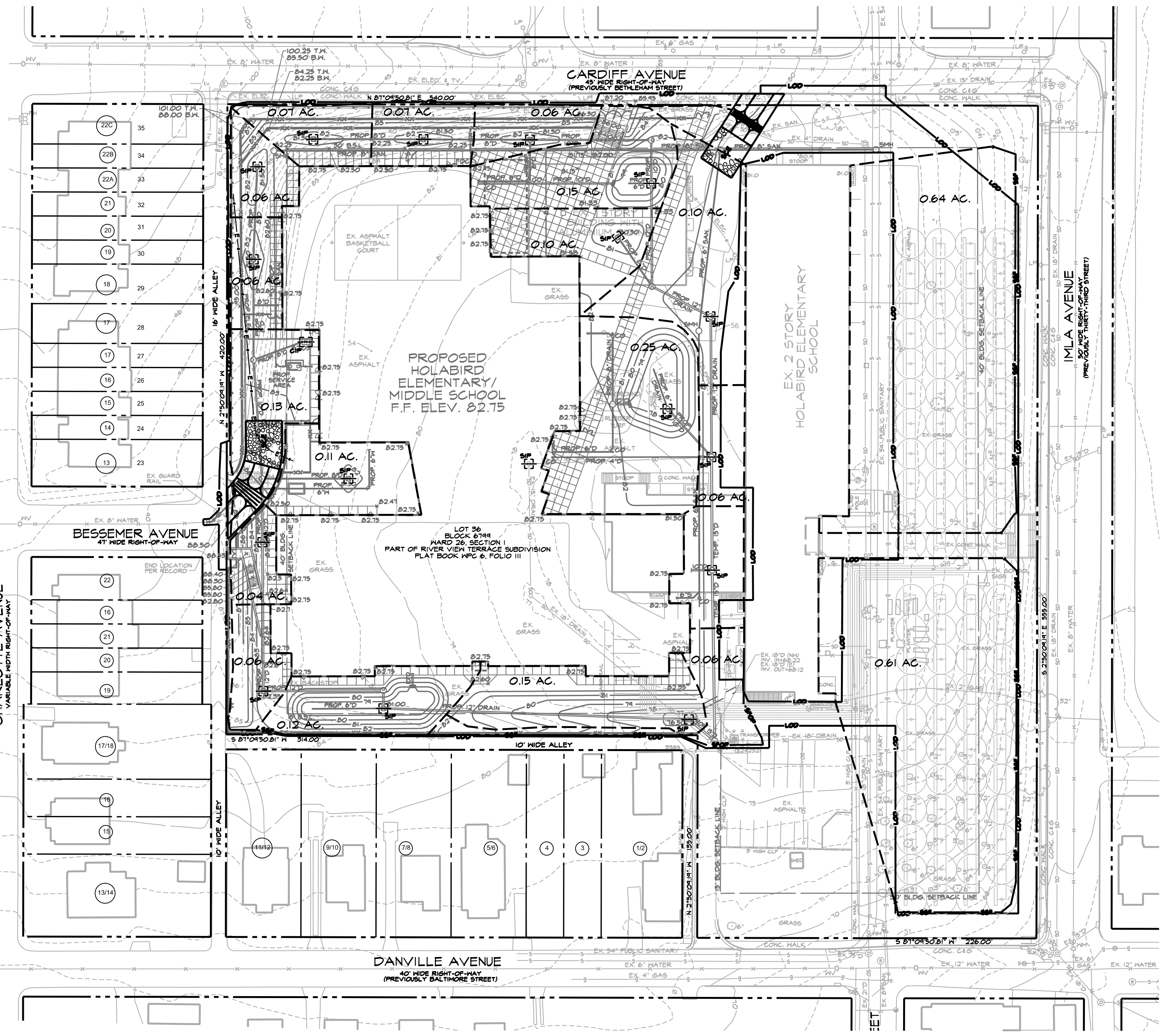
EROSION AND SEDIMENT CONTROL
DRAINAGE AREA MAPS - PHASE 1
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

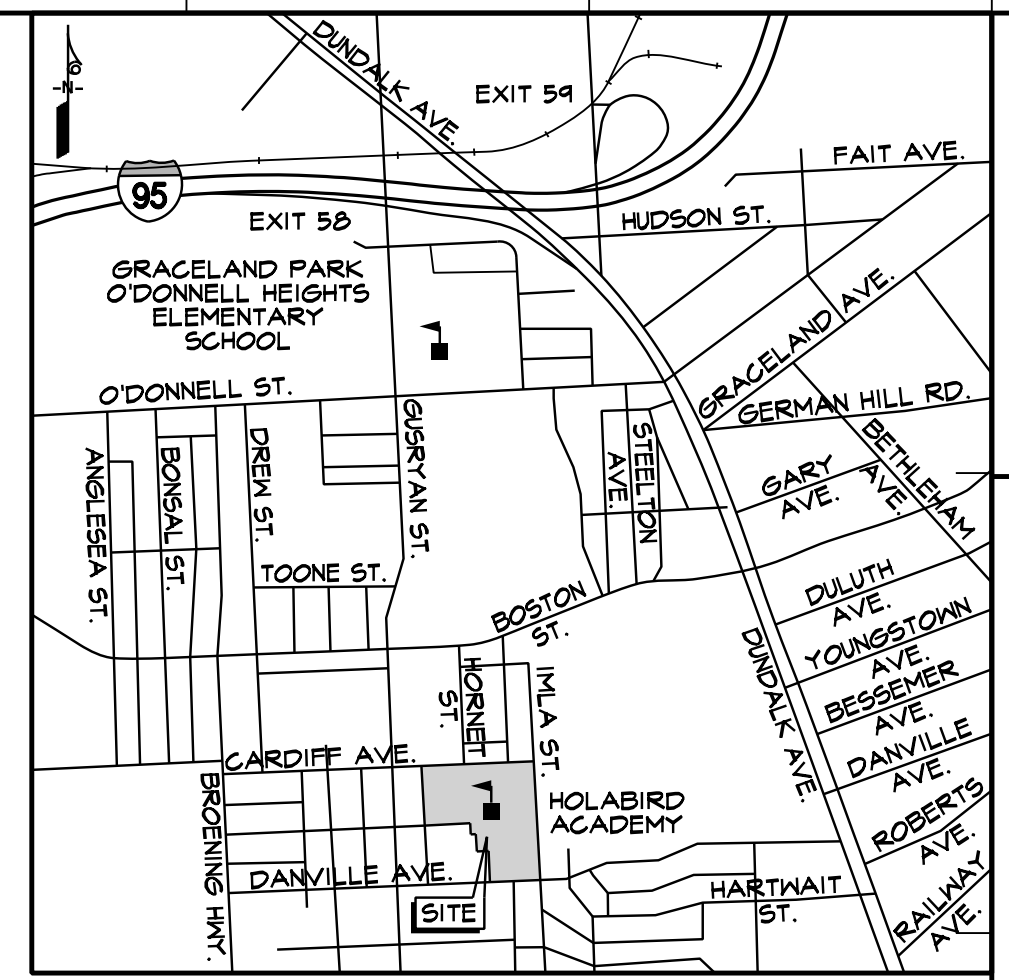
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C6.06H

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PLOTTED: 2/6/2017
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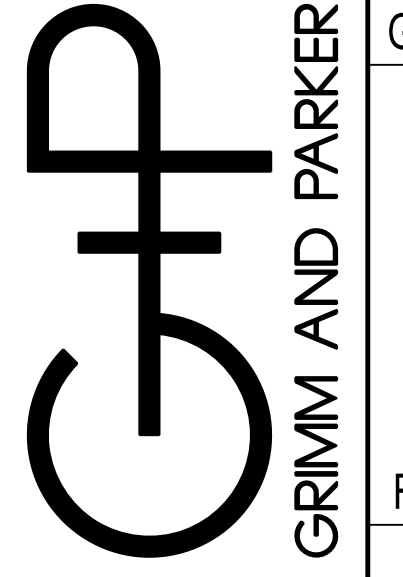


VICINITY MAP
SCALE: 1" = 1000'



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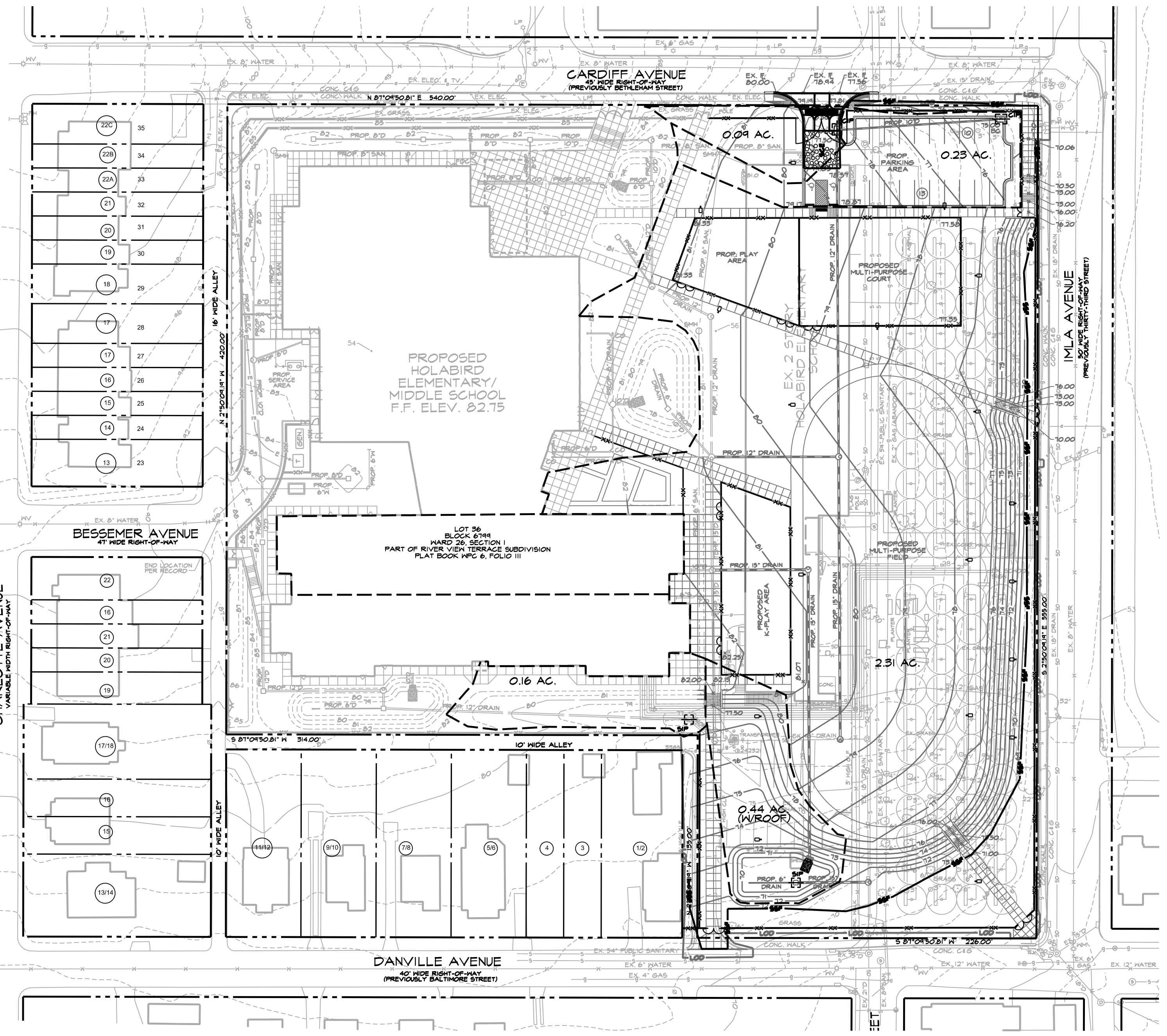
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EROSION AND SEDIMENT CONTROL
DRAINAGE AREA MAPS - PHASE 2
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

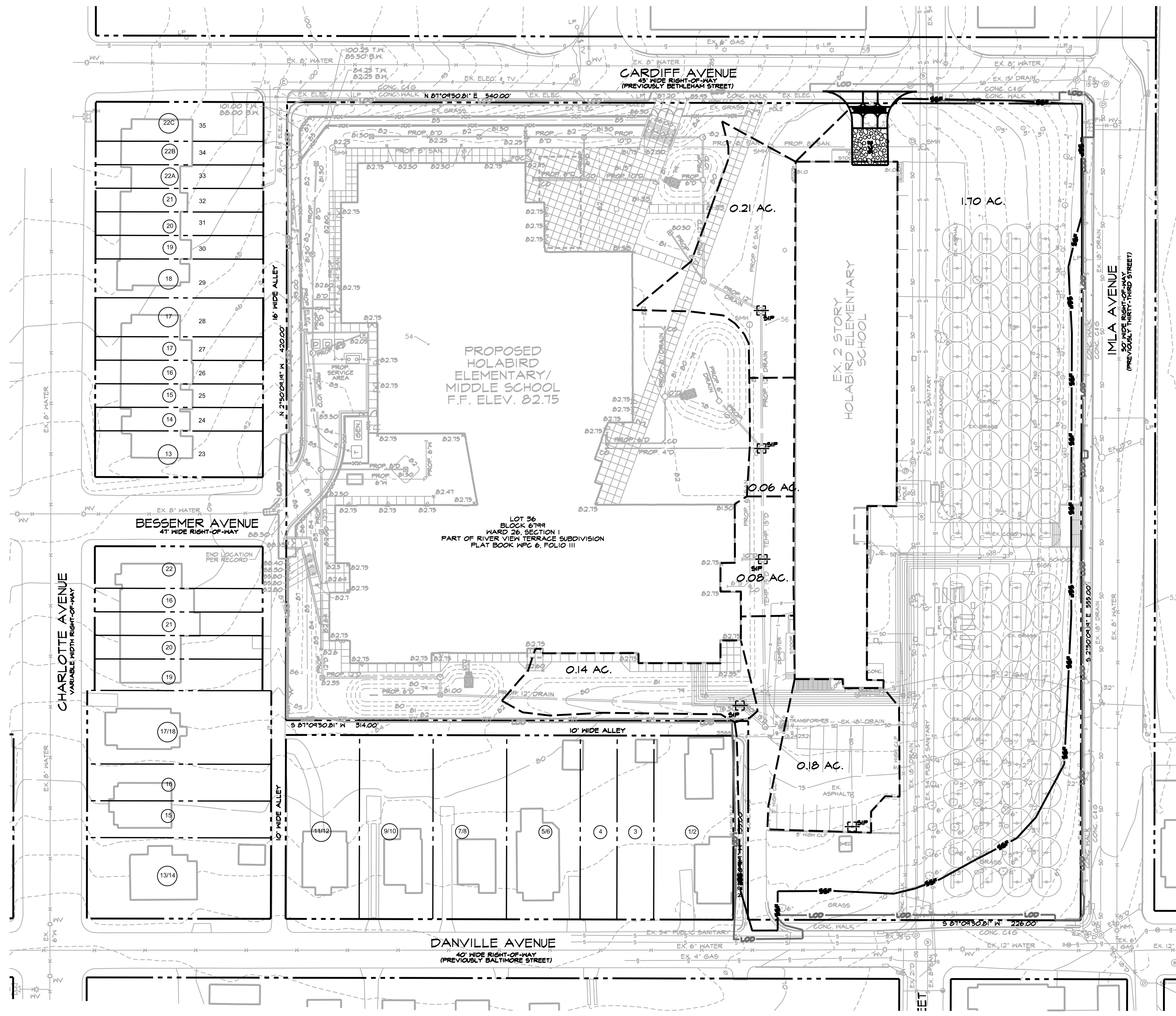
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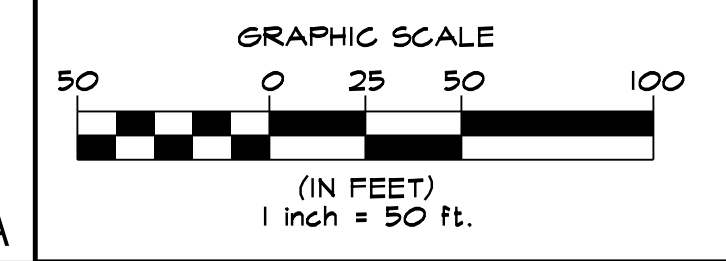
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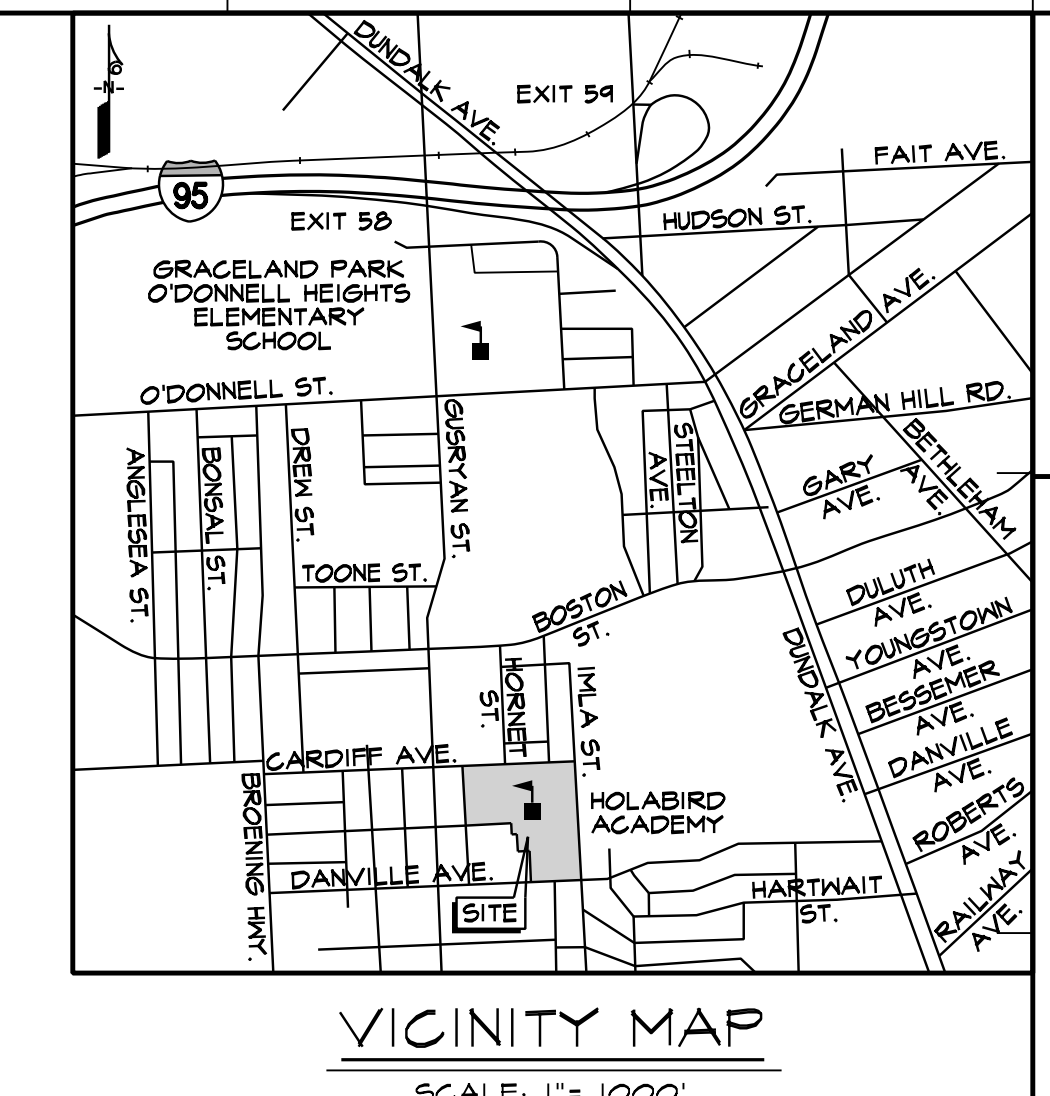


PROPOSED CONDITIONS DRAINAGE AREA - PHASE 2
SCALE: 1" = 50'



EXISTING CONDITIONS DRAINAGE AREA - PHASE 2
SCALE: 1" = 50'





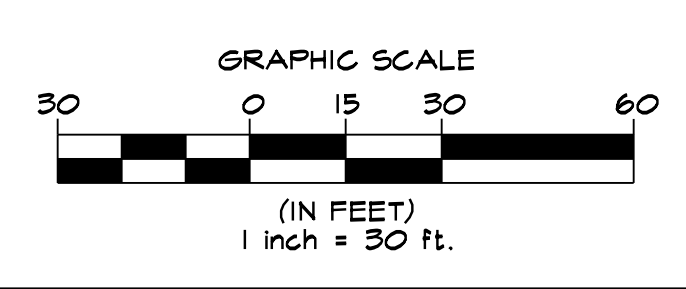
LEGEND

- 80 --- EX. INDEX CONTOUR
- 81 --- EX. INTERMEDIATE CONTOUR
- --- PROPERTY LINE
- --- EX. CURB AND GUTTER
- EX. 12" D --- EX. STORM DRAIN
- EX. 8" SAN --- EX. SANITARY SEWER
- EX. 8" WATER --- EX. WATER
- EX. GAS --- EX. GAS
- EX. UNDERGROUND ELECTRIC --- EX. UNDERGROUND ELECTRIC
- EX. OVERHEAD ELECTRIC --- EX. OVERHEAD ELECTRIC
- EX. GAS VALVE --- EX. GAS VALVE
- EX. SIGN --- EX. SIGN
- EX. WATER VALVE --- EX. WATER VALVE
- EX. MANHOLE --- EX. MANHOLE
- EX. FIRE HYDRANT --- EX. FIRE HYDRANT
- EX. LIGHT POLE --- EX. LIGHT POLE
- EX. INLET --- EX. INLET
- EX. UTILITY POLE --- EX. UTILITY POLE
- EX. TREE --- EX. TREE
- EX. CLEANOUT --- EX. CLEANOUT
- 15B --- SOILS LINES
- 44UC --- SOILS LINES

SOILS DATA					
SYMBOL	SOIL SERIES	SLOPE	HYDRIC	HIGHLY ERODIBLE? (K)	HYDROLOGIC CLASSIFICATION
15UB	KEYPORT URBAN LAND	0-8%	NO	YES (0.43)	D
15B	KEYPORT LOAM	0-8%	NO	YES (0.43)	D
44UC	URBAN LAND	0-8%	NO	NO RATING	D

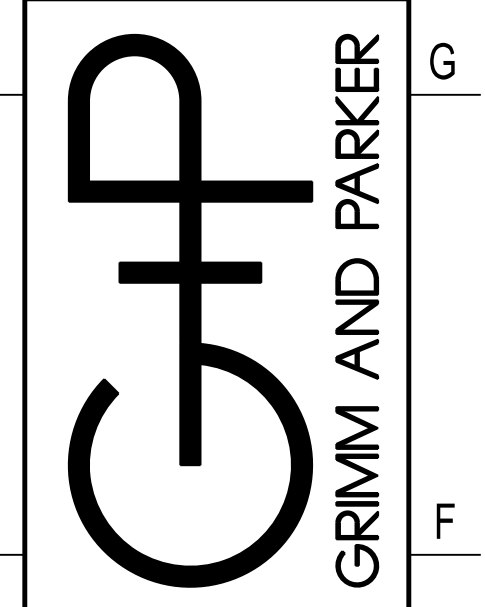
NATURAL RESOURCES INVENTORY						
FEDERAL REGULATED			STATE REGULATED		LOCAL REGULATED	
PRESENT? (Y/N)	FEATURE	LEGEND SYMBOLOGY	PRESENT? (Y/N)	LEGEND SYMBOLOGY	PRESENT? (Y/N)	LEGEND SYMBOLOGY
NO	WETLANDS		NO	TIDAL & NON-TIDAL WETLANDS	YES	STEEP SLOPES
NO	MAJOR WATERWAYS		NO	WETLANDS OF SPECIAL STATE	YES	HIGHLY ERODIBLE SOILS
NO	FLOODPLAINS		NO	WETLAND BUFFERS	NO	ENHANCED STREAM BUFFERS
			NO	STREAM BUFFERS	YES	TOPOGRAPHIC SLOPES
			NO	PERENNIAL STREAMS	NO	SPRINGS
			NO	FLOODPLAINS	NO	SEEPS
			NO	FORESTS	NO	INTERMITTENT STREAMS
			NO	FOREST BUFFERS	YES	VEGETATIVE COVER
			NO	CRITICAL AREAS	YES	SOILS
					NO	BEDROCK/ GEOLOGY
					YES	EXISTING DRAINAGE AREA
					YES	EXISTING SWM FACILITIES

NATURAL RESOURCE MAP
SCALE: 1" = 30'



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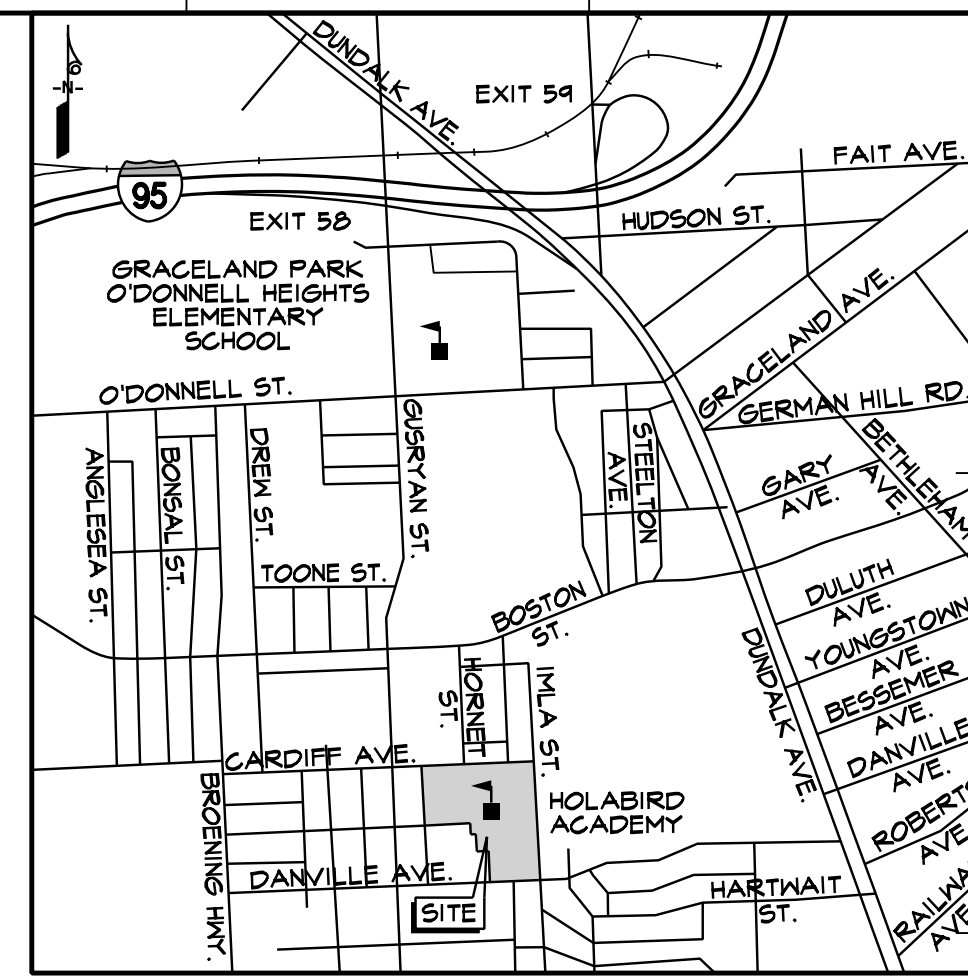
GP# 21553

NATURAL RESOURCE
MAP
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C7.00H
03/13/2017
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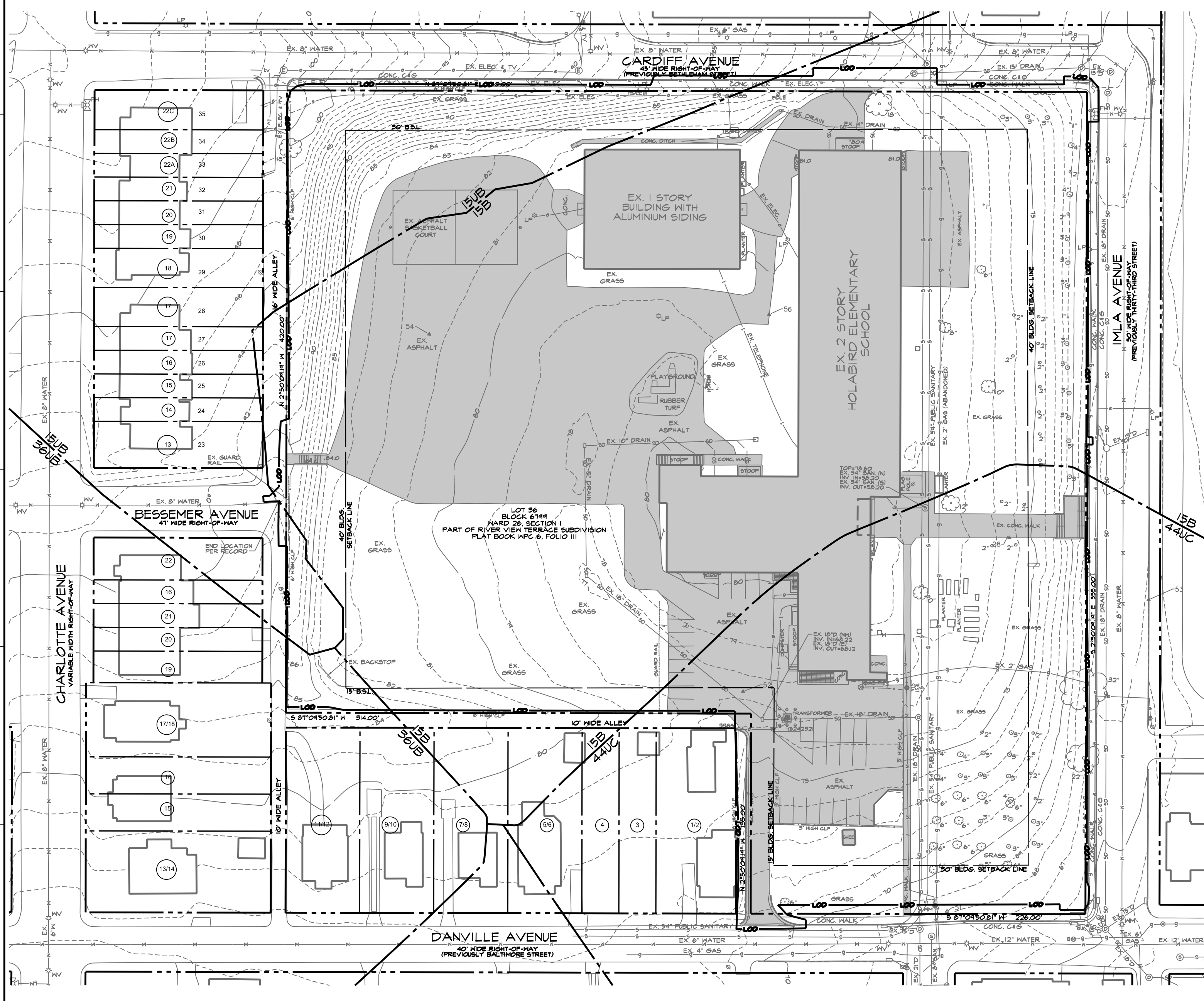
PL01TED: 2/6/2017
BY: C:\CloudShare\Company Files\Projects\2015\USD41 - C/P Holabird\Drawings\C7.00H_SMM_RESOURCE_MAP.dgn



VICINITY MAP
SCALE: 1" = 1000'

mk
M&K ENGINEERS, P.C.
3300 Old Chapel Hill Road, #223
Baltimore, MD 21211
(410) 661-6014

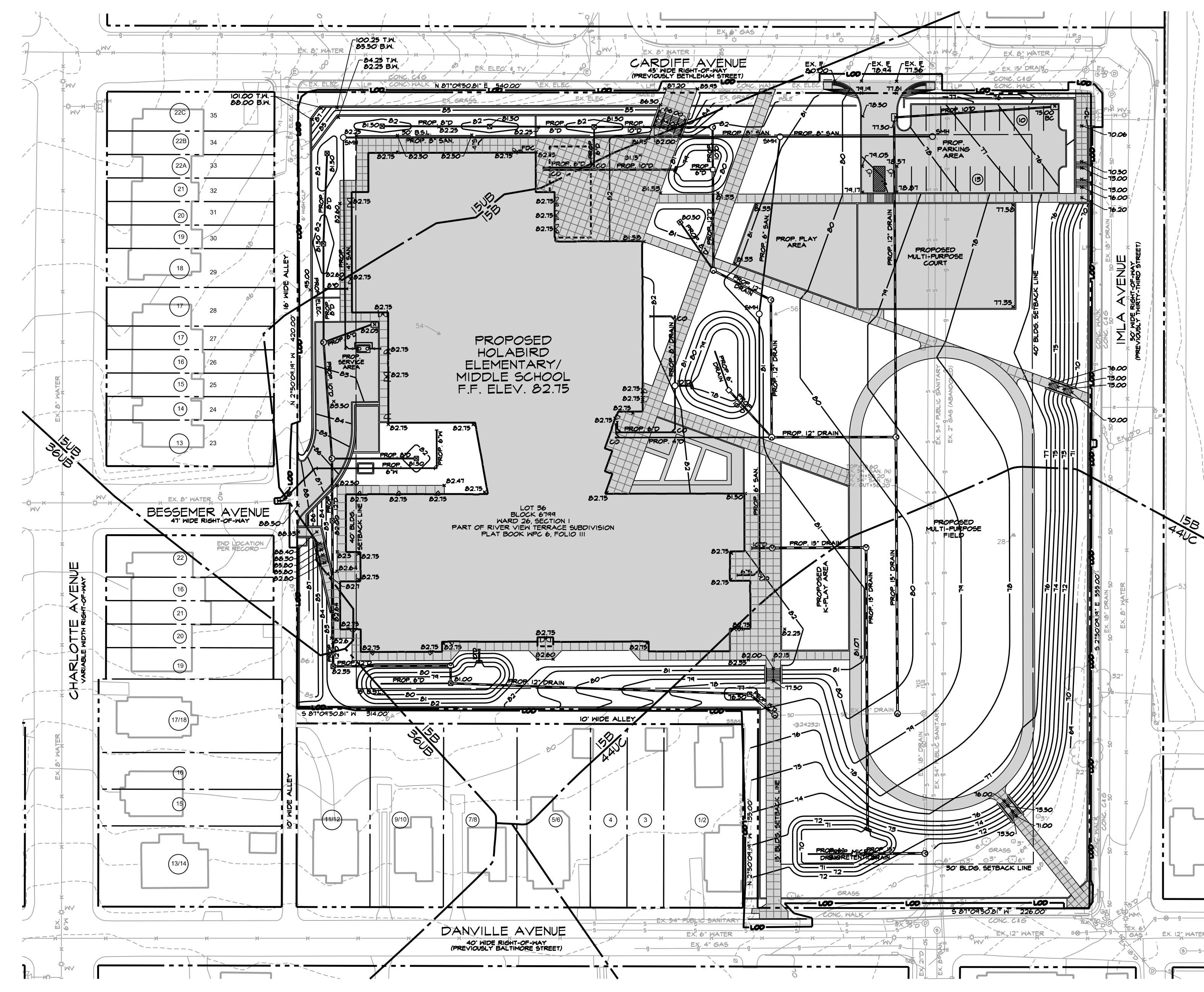
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EXISTING CONDITION IMPERVIOUS AREA MAP
SCALE: 1" = 50'

EXISTING CONDITION
IMPERVIOUS AREA ANALYSIS

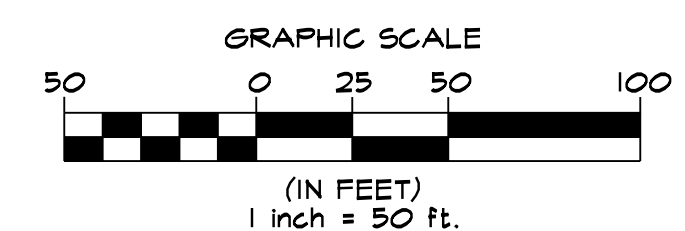
LIMIT OF DISTURBED AREA = 250,916 S.F. OR 5.762 ACRES
EXISTING LIMIT OF IMPERVIOUS AREA = 117,916 S.F. OR 2.707 ACRES



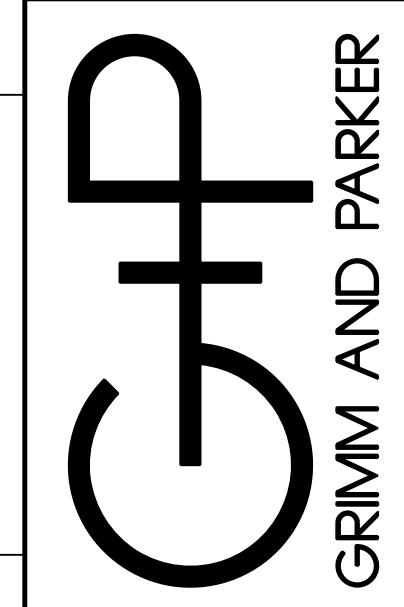
PROPOSED CONDITION IMPERVIOUS AREA MAP
SCALE: 1" = 50'

PROPOSED CONDITION
IMPERVIOUS AREA ANALYSIS

LIMIT OF DISTURBED AREA = 250,916 S.F. OR 5.762 ACRES
PROPOSED LIMIT OF IMPERVIOUS AREA = 129,894 S.F. OR 2.959 ACRES



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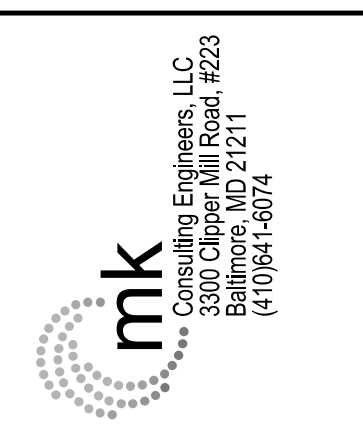
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IMPERVIOUS AREA
MAPS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

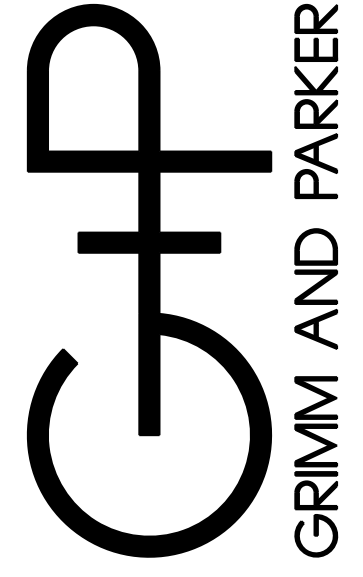
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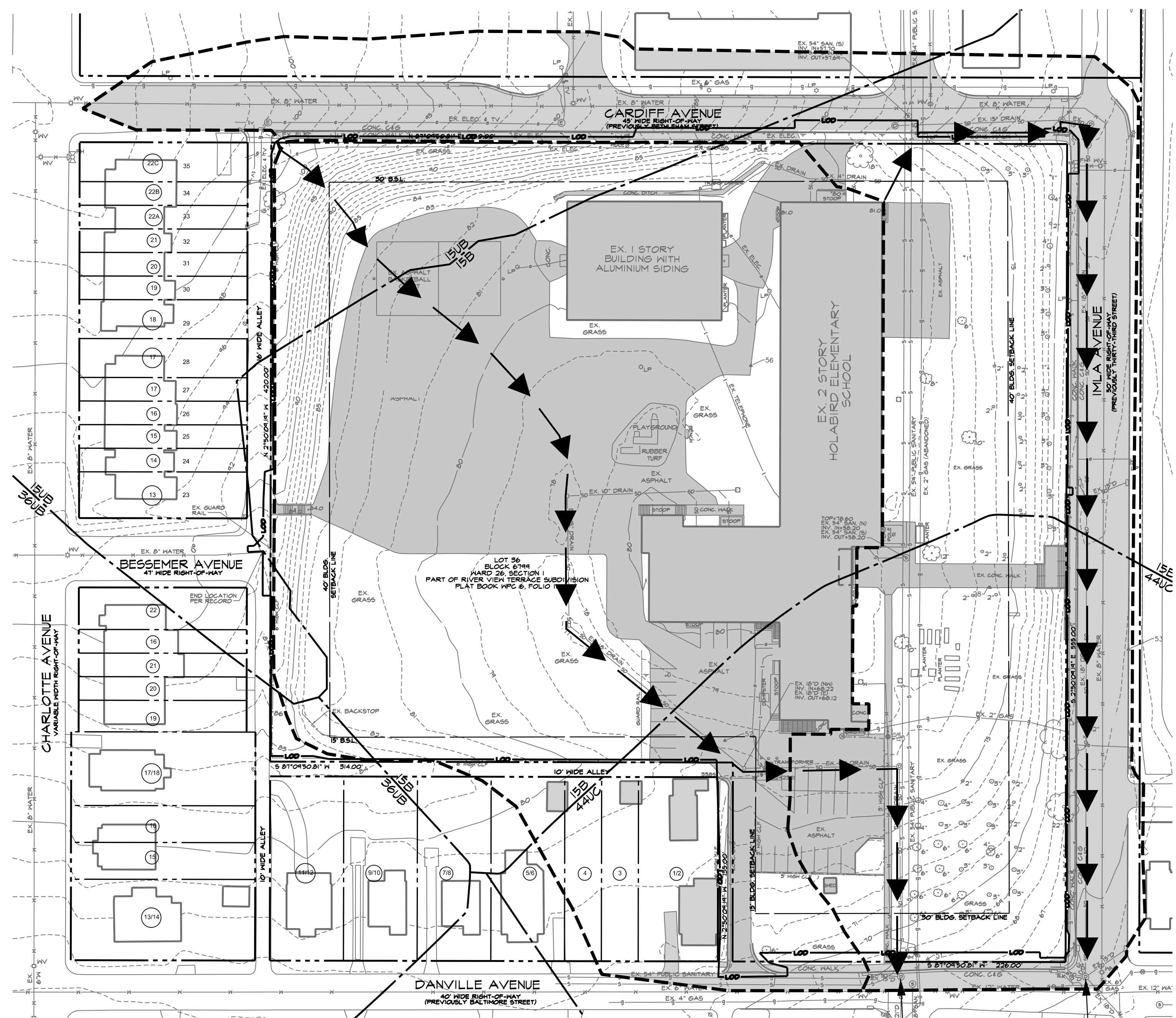


GP# 21553

QUANTITY MANAGEMENT DRAINAGE
AREA MAPS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

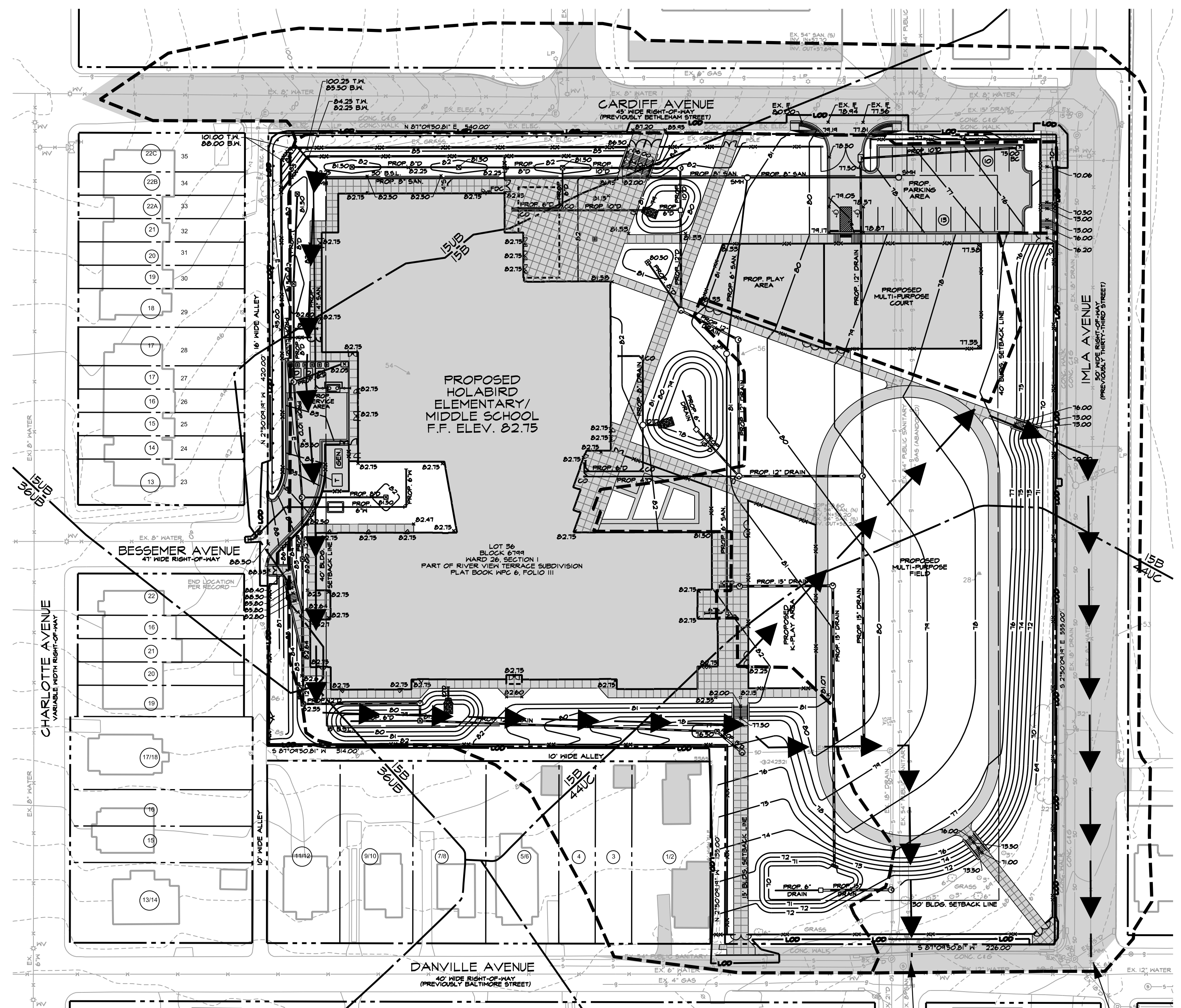
DATE DESCRIPTION

C7.02H
03/13/2017
BID SET



EXISTING CONDITION DRAINAGE AREA MAP
SCALE: 1" = 50'

DESIGN POINT "B"
DESIGN POINT "A"



PROPOSED CONDITION DRAINAGE AREA MAP
SCALE: 1" = 50'

DESIGN POINT "B"
DESIGN POINT "A"

LEGEND

- 150 --- EX. INDEX CONTOUR
- 122 --- EX. INTERMEDIATE CONTOUR
- X-X --- EX. CURB AND GUTTER
- X-X --- EX. FENCE
- X-X --- EX. 12" D.
- O --- EX. STORM DRAIN
- O --- EX. MANHOLE
- O --- EX. CLEANOUT
- O --- EX. SIGN
- O --- EX. POWER POLE
- O --- EX. LIGHT POLE
- O --- EX. HANDBOX
- O --- EX. INLET
- --- DRAINAGE AREA BOUNDARY
- --- EX. PROPERTY LINE
- 4UB --- SOILS LINE
- 42E --- SOILS LINE
- Tc PATH --- LIMITS OF IMPERVIOUS AREA
- Tc PATH --- TIME OF CONCENTRATION PATH

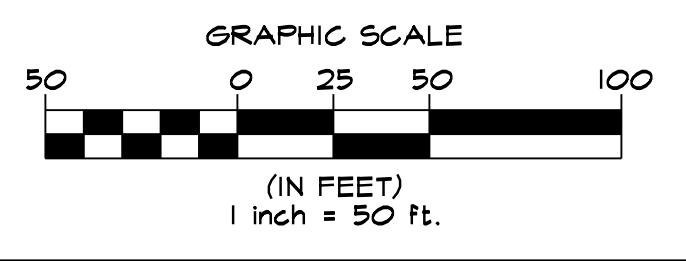
DA. "A"	DA. "B"
EXISTING CONDITIONS "D" SOIL	EXISTING CONDITIONS "D" SOIL
IMPERVIOUS AREA: 66,641 SQ. FT. GRASS AREA: 81,556 SQ. FT.	IMPERVIOUS AREA: 108,465 SQ. FT. GRASS AREA: 81,381 SQ. FT.

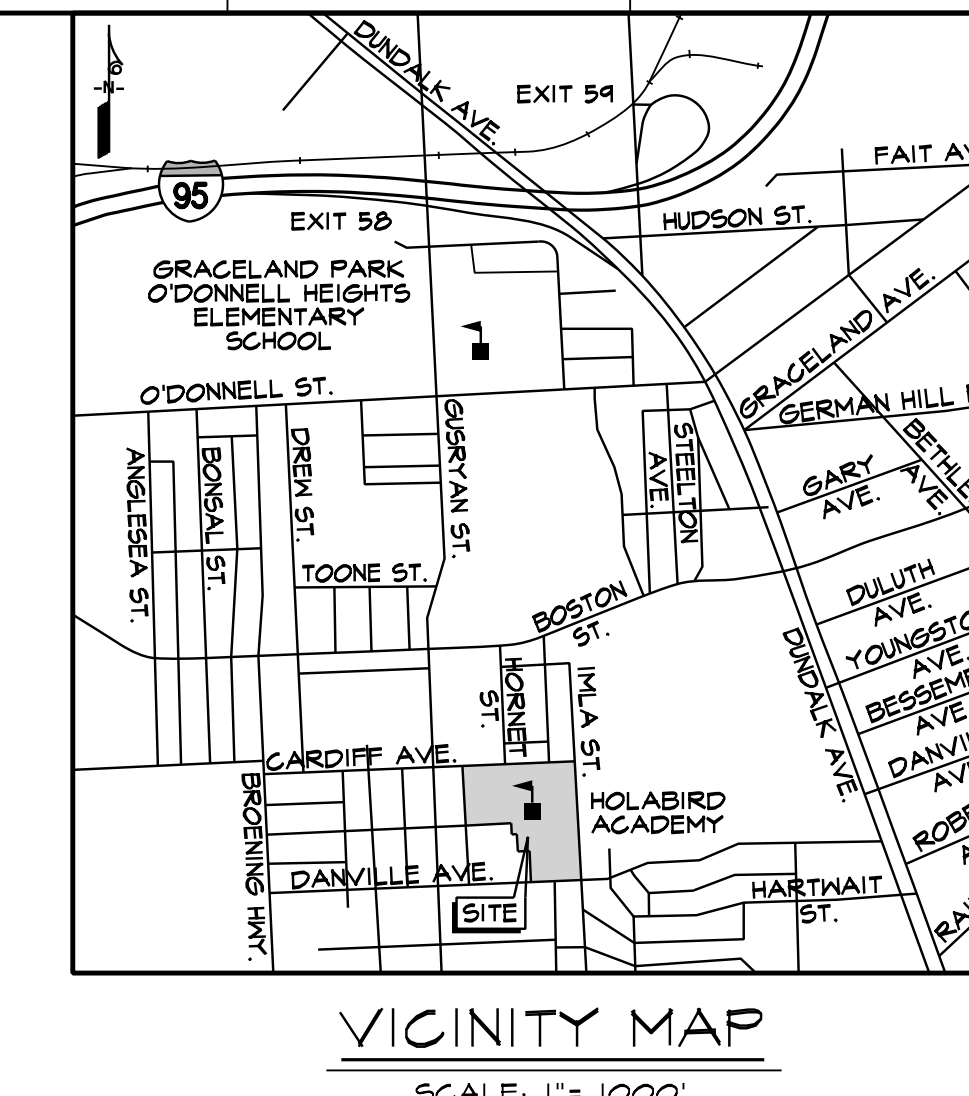
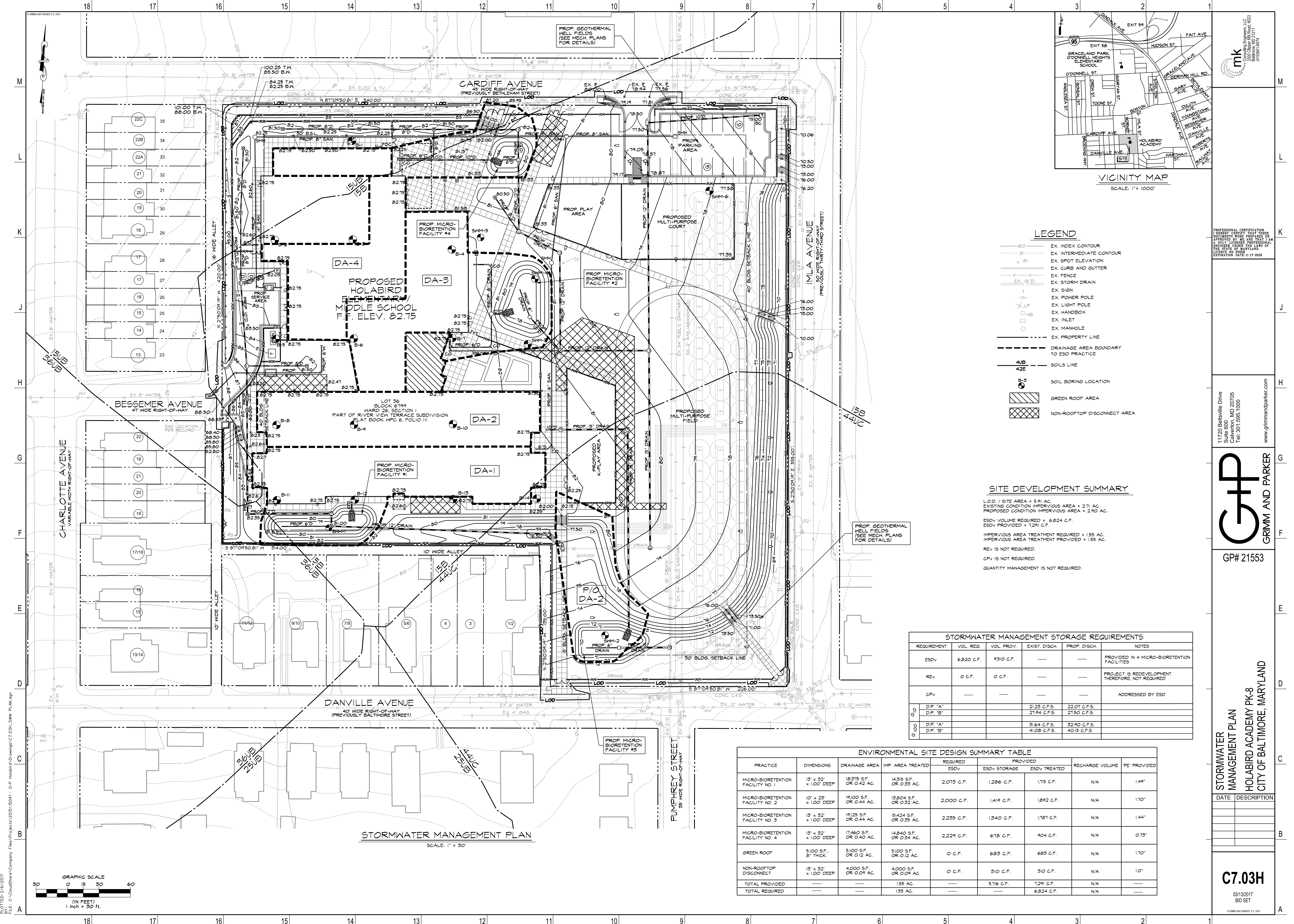
DA. "A"	DA. "B"
PROPOSED CONDITIONS "D" SOIL	PROPOSED CONDITIONS "D" SOIL
IMPERVIOUS AREA: 65,340 SQ. FT. GRASS AREA: 94,960 SQ. FT.	IMPERVIOUS AREA: 119,354 SQ. FT. GRASS AREA: 70,561 SQ. FT.

QUANTITY MANAGEMENT SUMMARY TABLE

DESIGN POINT	10 YEAR STORM EVENT (C.F.S.)		100 YEAR STORM EVENT (C.F.S.)	
	EXISTING CONDITION	DEVELOPED CONDITION	EXISTING CONDITION	DEVELOPED CONDITION
A	21.23	22.01	31.64	32.90
B	27.44	27.50	41.08	40.13

NOTE: PROJECT IS LOCATED WITHIN THE BALTIMORE HARBOR WATERSHED.





- ### LEGEND
- 0.0 — EX. INDEX CONTOUR
 - 0.1 — EX. INTERMEDIATE CONTOUR
 - x 0.1 — EX. SPOT ELEVATION
 - x — x — EX. CURB AND GUTTER
 - x — x — EX. FENCE
 - x — x — EX. STORM DRAIN
 - x — x — EX. SIGN
 - x — x — EX. POWER POLE
 - x — x — EX. LIGHT POLE
 - x — x — EX. HANDBOX
 - x — x — EX. INLET
 - x — x — EX. MANHOLE
 - x — x — EX. PROPERTY LINE
 - x — x — DRAINAGE AREA BOUNDARY TO ESD PRACTICE
 - x — x — SOILS LINE
 - x — x — SOIL BORING LOCATION
 - x — x — GREEN ROOF AREA
 - x — x — NON-ROOFTOP DISCONNECT AREA

SITE DEVELOPMENT SUMMARY

L.O.D. / SITE AREA = 5.91 AC.
 EXISTING CONDITION IMPERVIOUS AREA = 2.71 AC.
 PROPOSED CONDITION IMPERVIOUS AREA = 2.90 AC.
 ESDV VOLUME REQUIRED = 6,824 C.F.
 ESDV PROVIDED = 1,291 C.F.
 IMPERVIOUS AREA TREATMENT REQUIRED = 1.55 AC.
 IMPERVIOUS AREA TREATMENT PROVIDED = 1.55 AC.
 REV IS NOT REQUIRED.
 CPV IS NOT REQUIRED.
 QUANTITY MANAGEMENT IS NOT REQUIRED.

STORMWATER MANAGEMENT STORAGE REQUIREMENTS					
REQUIREMENT	VOL. REQ.	VOL. PROV.	EXIST. DISCH.	PROP. DISCH.	NOTES
ESDV	6,820 C.F.	9,510 C.F.	—	—	PROVIDED IN 4 MICRO-BIORETENTION FACILITIES
REV	0 C.F.	0 C.F.	—	—	PROJECT IS REDEVELOPMENT THEREFORE, NOT REQUIRED
CPV	—	—	—	—	ADDRESSED BY ESD
D.P. "A"	—	—	21.25 C.F.S.	22.01 C.F.S.	
D.P. "B"	—	—	21.44 C.F.S.	21.50 C.F.S.	
D.P. "A"	—	—	31.64 C.F.S.	32.40 C.F.S.	
D.P. "B"	—	—	41.08 C.F.S.	40.15 C.F.S.	

ENVIRONMENTAL SITE DESIGN SUMMARY TABLE							
PRACTICE	DIMENSIONS	DRAINAGE AREA	IMP. AREA TREATED	PROVIDED		RECHARGE VOLUME	PE PROVIDED
				REQUIRED ESDV	ESDV STORAGE		
MICRO-BIORETENTION FACILITY NO. 1	15' x 32' x 1.00' DEEP	18,375 S.F. OR 0.42 AC.	14,315 S.F. OR 0.33 AC.	2,073 C.F.	1,286 C.F.	1,715 C.F.	1.44'
MICRO-BIORETENTION FACILITY NO. 2	10' x 25' x 1.00' DEEP	14,100 S.F. OR 0.44 AC.	13,204 S.F. OR 0.32 AC.	2,000 C.F.	1,419 C.F.	1,842 C.F.	1.70'
MICRO-BIORETENTION FACILITY NO. 3	15' x 32' x 1.00' DEEP	18,125 S.F. OR 0.44 AC.	15,424 S.F. OR 0.35 AC.	2,235 C.F.	1,340 C.F.	1,781 C.F.	1.44'
MICRO-BIORETENTION FACILITY NO. 4	15' x 32' x 1.00' DEEP	17,460 S.F. OR 0.40 AC.	14,840 S.F. OR 0.34 AC.	2,229 C.F.	678 C.F.	904 C.F.	0.75'
GREEN ROOF	5,100 S.F. 8" THICK	5,100 S.F. OR 0.12 AC.	5,100 S.F. OR 0.12 AC.	0 C.F.	683 C.F.	683 C.F.	1.70'
NON-ROOFTOP DISCONNECT	15' x 32' x 1.00' DEEP	4,000 S.F. OR 0.09 AC.	4,000 S.F. OR 0.09 AC.	0 C.F.	310 C.F.	310 C.F.	1.0'
TOTAL PROVIDED	—	—	1.55 AC.	—	5,716 C.F.	7,241 C.F.	—
TOTAL REQUIRED	—	—	1.55 AC.	—	—	6,824 C.F.	—

PROFESSIONAL CERTIFICATION
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 Suite 600
 Calverton, MD 20705
 Tel: 301.595.1000
 www.grimmandparker.com

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GP#21553

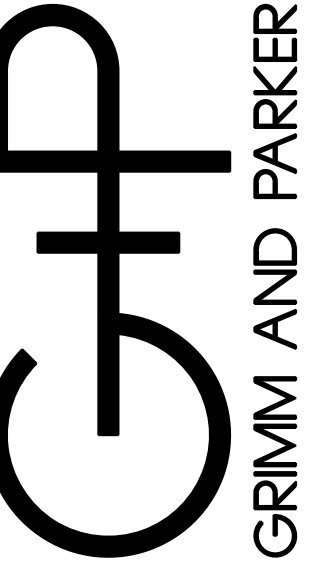
STORMWATER MANAGEMENT PLAN
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

C7.03H
 03/13/2017
 BID SET


 mk CONSULTING ENGINEERS, LLC
 3300 Old Baltimore Road, #223
 Baltimore, MD 21211
 (410) 661-5014

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 EXPIRATION DATE 11-17-2018

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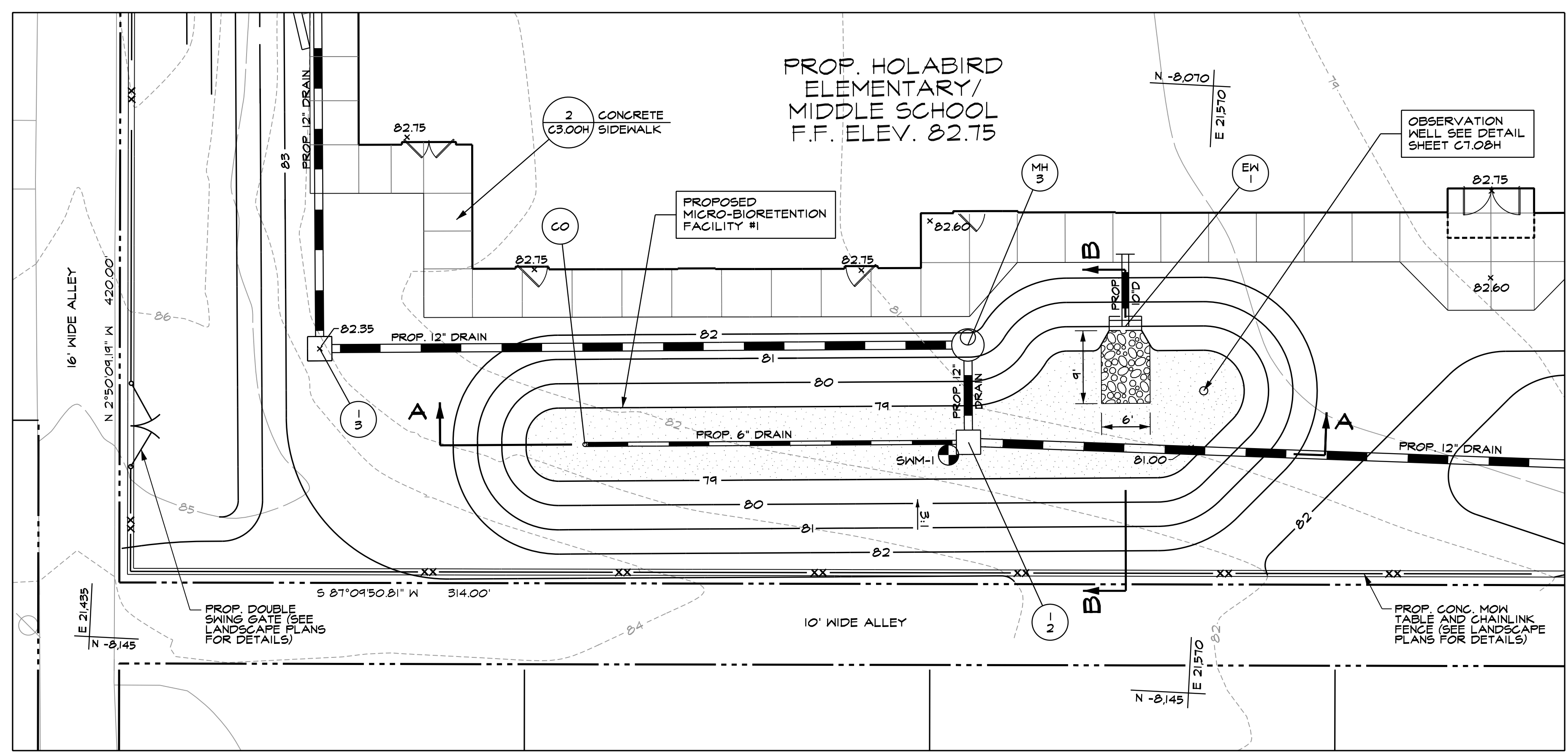
GP# 21553

STORMWATER MANAGEMENT
 FACILITY 1
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C7.04H
 03/13/2017
 BID SET

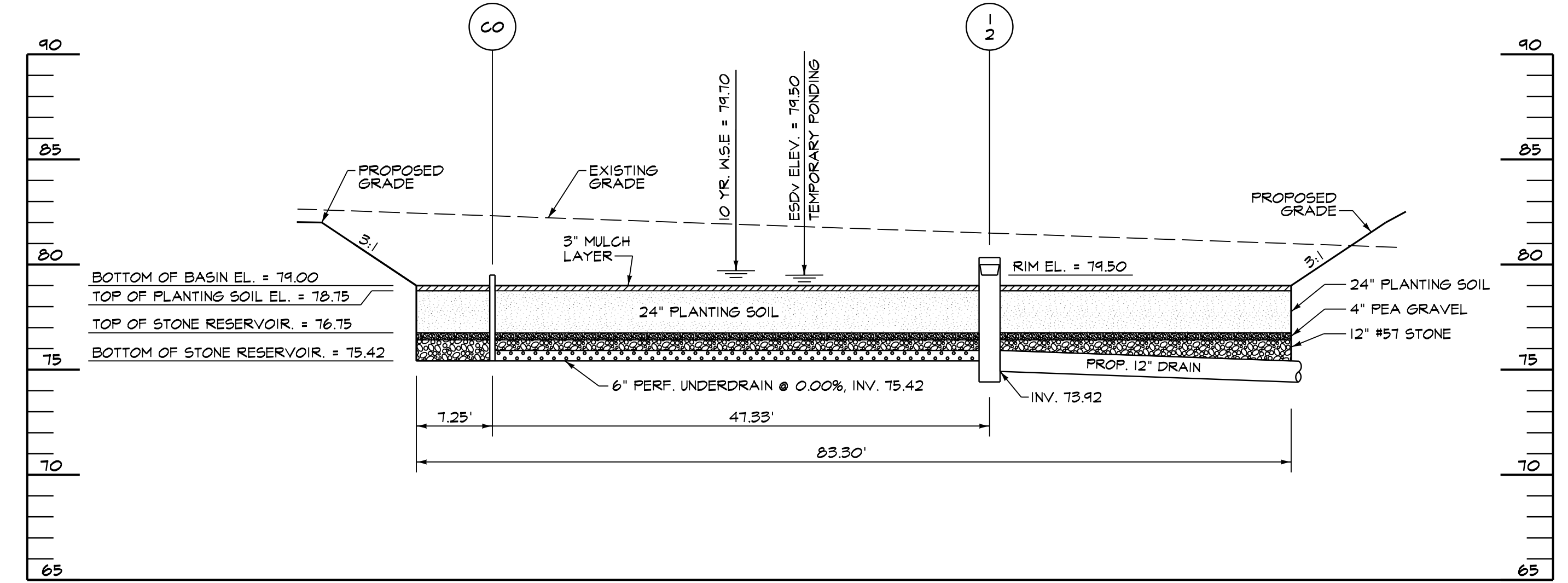
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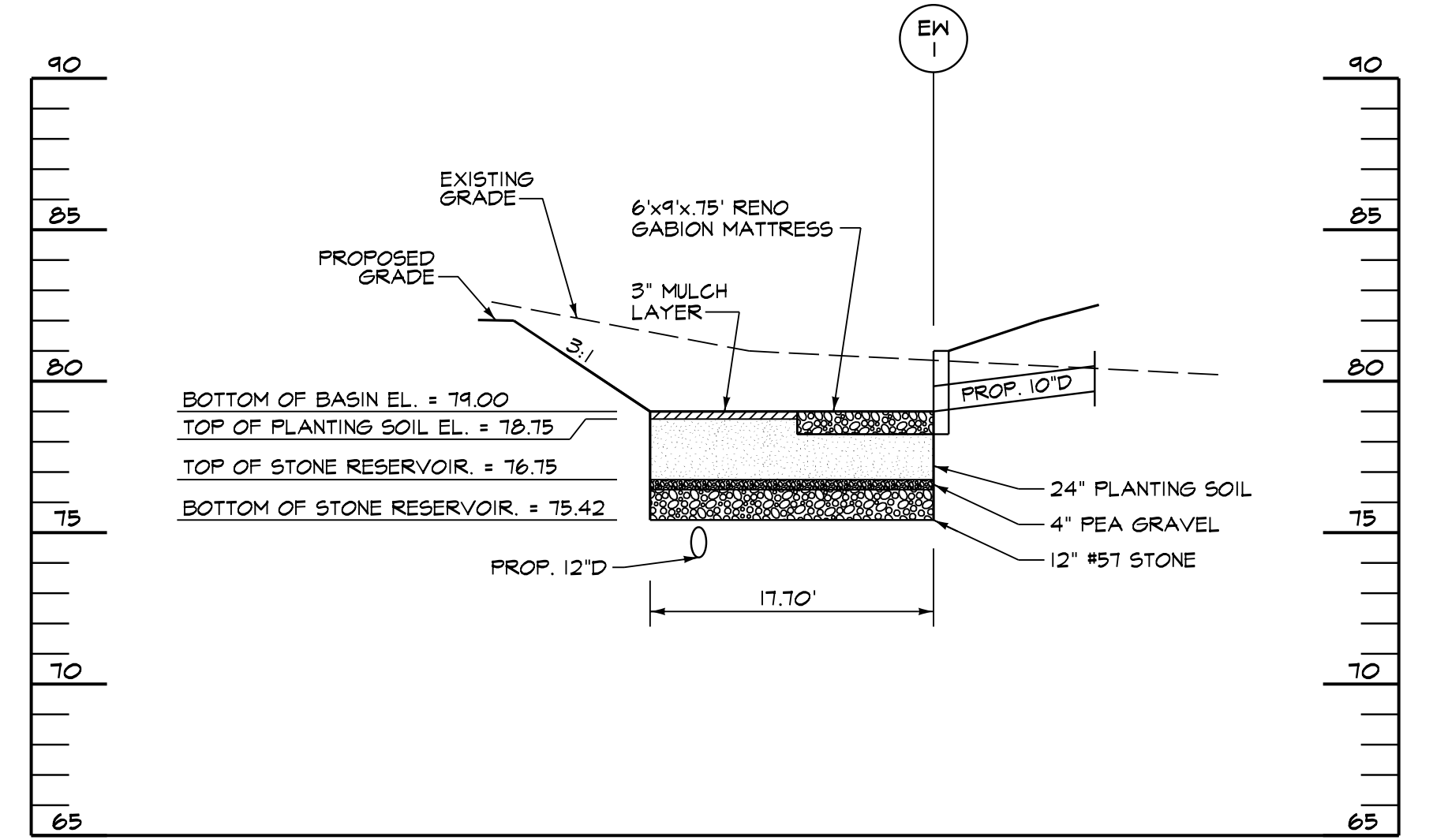
MICRO-BIORETENTION FACILITY #1
SCALE: 1" = 10'

LEGEND

--- 80 ---	EX. INDEX CONTOUR
--- 82 ---	EX. INTERMEDIATE CONTOUR
---	PROPERTY LINE
---	EX. CURB AND GUTTER
---	EX. STORM DRAIN
○	EX. MANHOLE
○	EX. INLET
---	PROP. CONTOUR
---	PROP. CONCRETE WALK
---	PROP. CURB AND GUTTER
XX	PROP. FENCE
---	PROP. STORM DRAIN
○	PROP. MANHOLE
○	PROP. INLET
○	SOIL BORING LOCATION
---	APPROXIMATE LIMITS OF PLANTING MEDIA



SECTION "A-A"
SCALE: HORIZ. 1" = 10'
VERT. 1" = 5'



SECTION "B-B"
SCALE: HORIZ. 1" = 10'
VERT. 1" = 5'

AS-BUILT DATA FOR MICRO-BIORETENTION FACILITY NO. 1

ITEM	DESIGN	AS-BUILT	STATE COORDINATES			
			DESIGN		AS-BUILT	
			NORTHING	EASTING	NORTHING	EASTING
PIPE SIZE & TYPE	12" HDPE		N/A	N/A	N/A	N/A
BOTTOM OF STONE ELEV.	75.42		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	#57 12" DEPTH		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	PEA GRAVEL, 4" DEPTH		N/A	N/A	N/A	N/A
PLANTING SOIL	24" DEPTH		N/A	N/A	N/A	N/A
STABILIZATION & LANDSCAPING	SEE LANDSCAPE PLAN		N/A	N/A	N/A	N/A
STRUCTURE 1-2	WEIR CREST EL. #74.50		-8115.48	21542.08		
OBSERVATION WELL	SEE DETAIL SHT. C7.08H		-8107.64	21570.74		
CLEANOUT (STA. 0+41.35)	SEE DETAIL SHT. C7.08H		-8110.10	21494.83		
6" HDPE UNDERDRAIN @ 1-2 (STA. 0+00)	INV. #75.42		-8115.48	21542.08	N/A	N/A
6" HDPE UNDERDRAIN @ C.O. (STA. 0+41.35)	INV. #75.42		-8110.10	21494.83	N/A	N/A
TOTAL SURFACE AREA OF PLANTING SOIL	927 S.F.		N/A	N/A	N/A	N/A

MICRO-BIORETENTION INSPECTION SCHEDULE

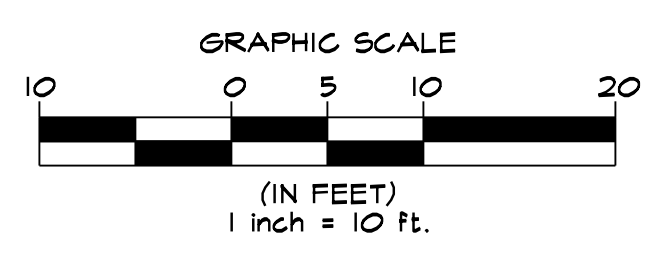
IT IS THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER/INSPECTOR OF AN APPROXIMATE TIME FOR INSPECTION OF THE FOLLOWING ITEMS:

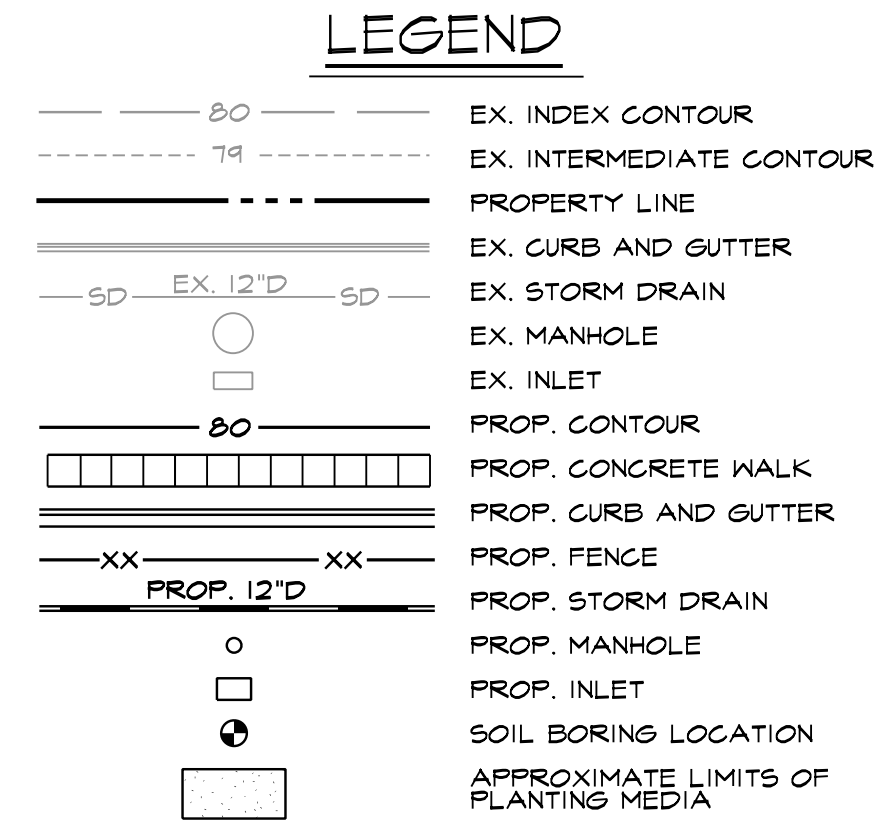
- CONSTRUCTION OF OUTFALL (ROOF TO EX-1).
- EXCAVATION TO SUBGRADE, PLACEMENT & BACKFILL OF UNDERDRAIN.
- PLACEMENT OF FILTER MEDIA.
- UPON COMPLETION OF FINAL GRADING AND STABILIZATION.

CONTACT INFO: MK CONSULTING ENGINEERS, LLC.
ATTN: NICK WILSON

MICRO-BIORETENTION MAINTENANCE SCHEDULE

- REMOVE AND REPLACE THE TOP FEW INCHES OF FILTER MEDIA WHEN WATER PONDS FOR MORE THAN 48 HOURS.
- REMOVE SEDIMENT FROM SURFACE OF FILTER BED WHEN ACCUMULATION EXCEEDS ONE INCH.
- REPLACE MULCH ANNUALLY.
- PRUNE & REPLACE DEAD VEGETATION AS NECESSARY.



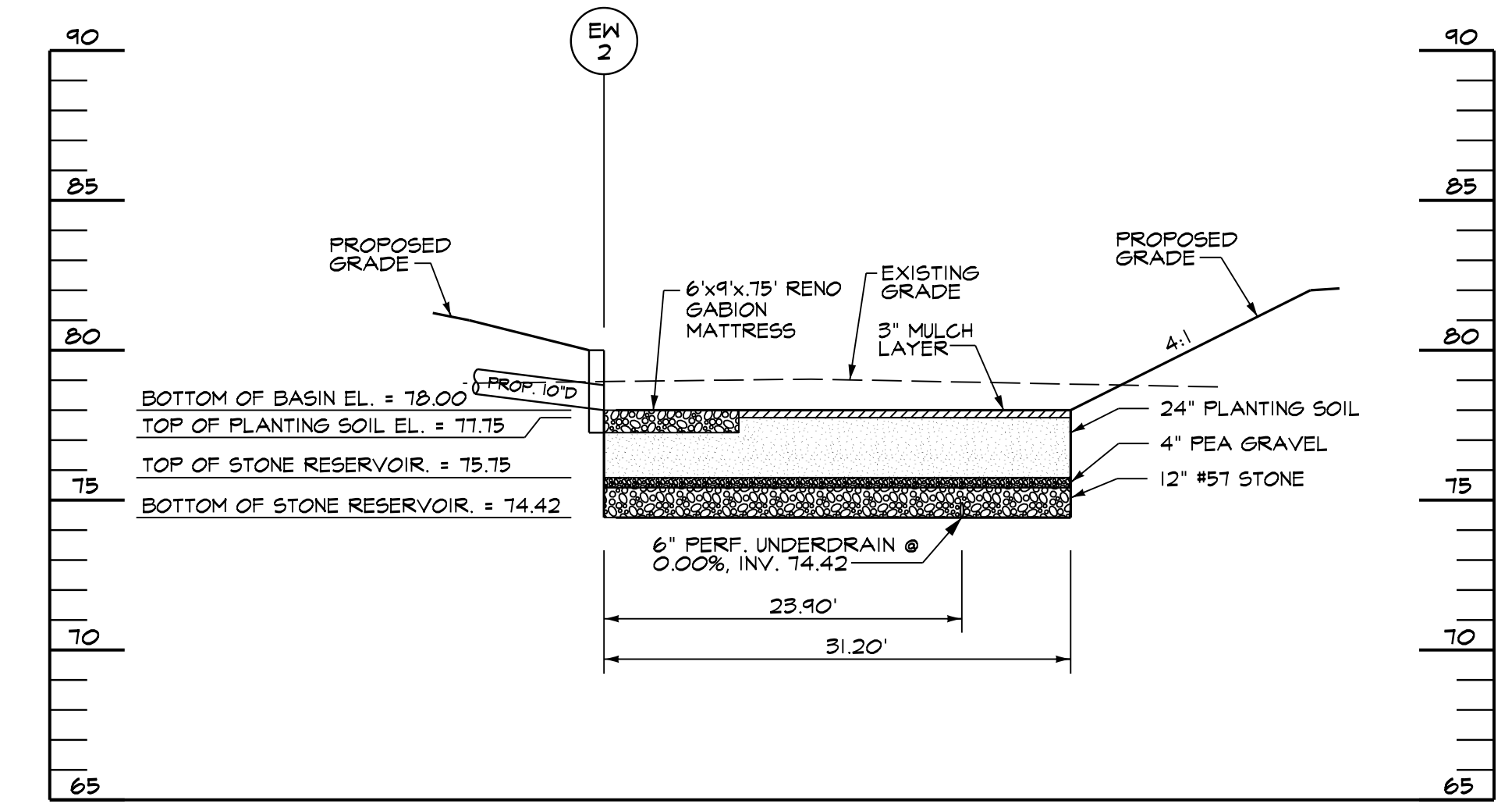
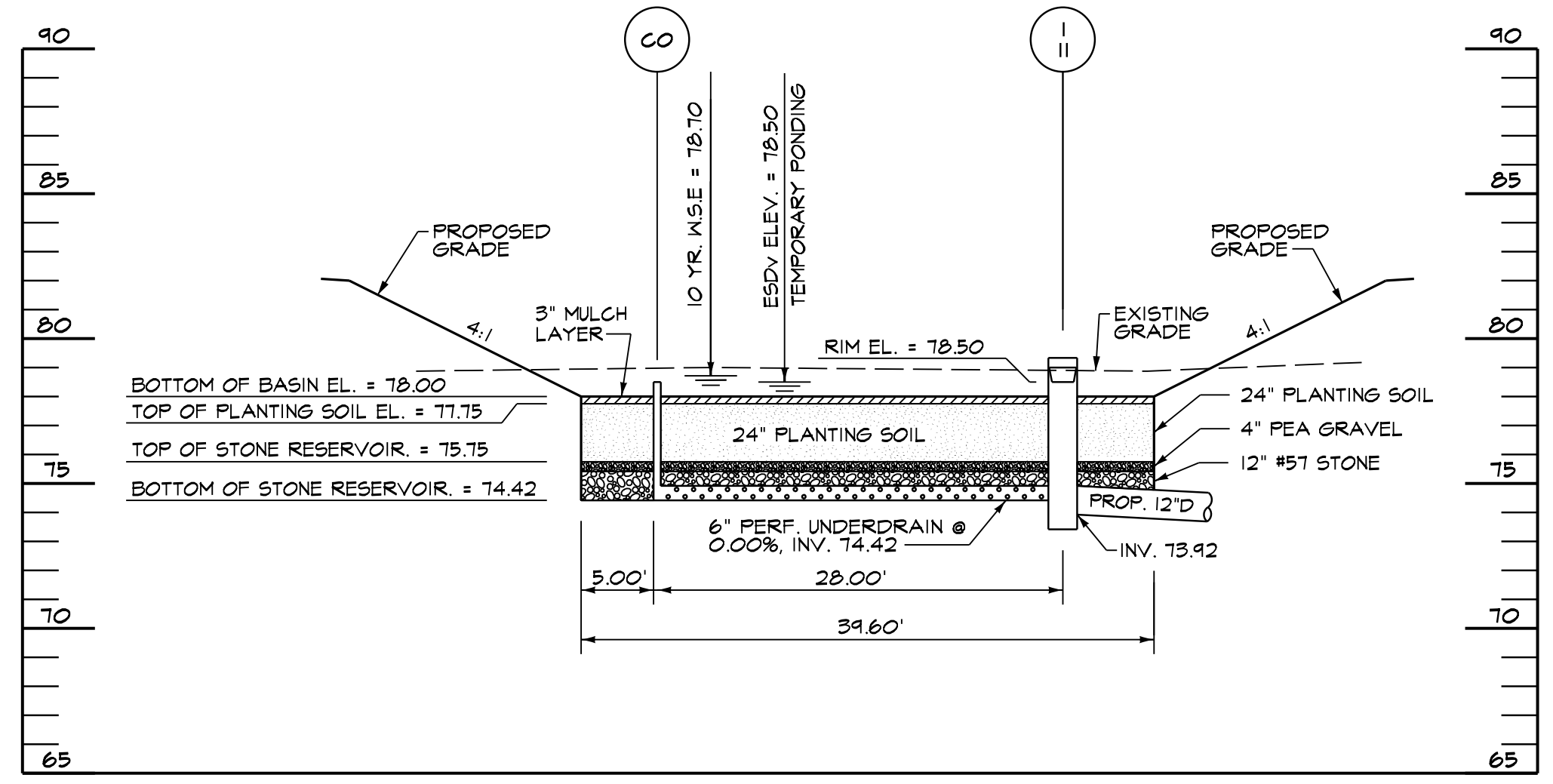
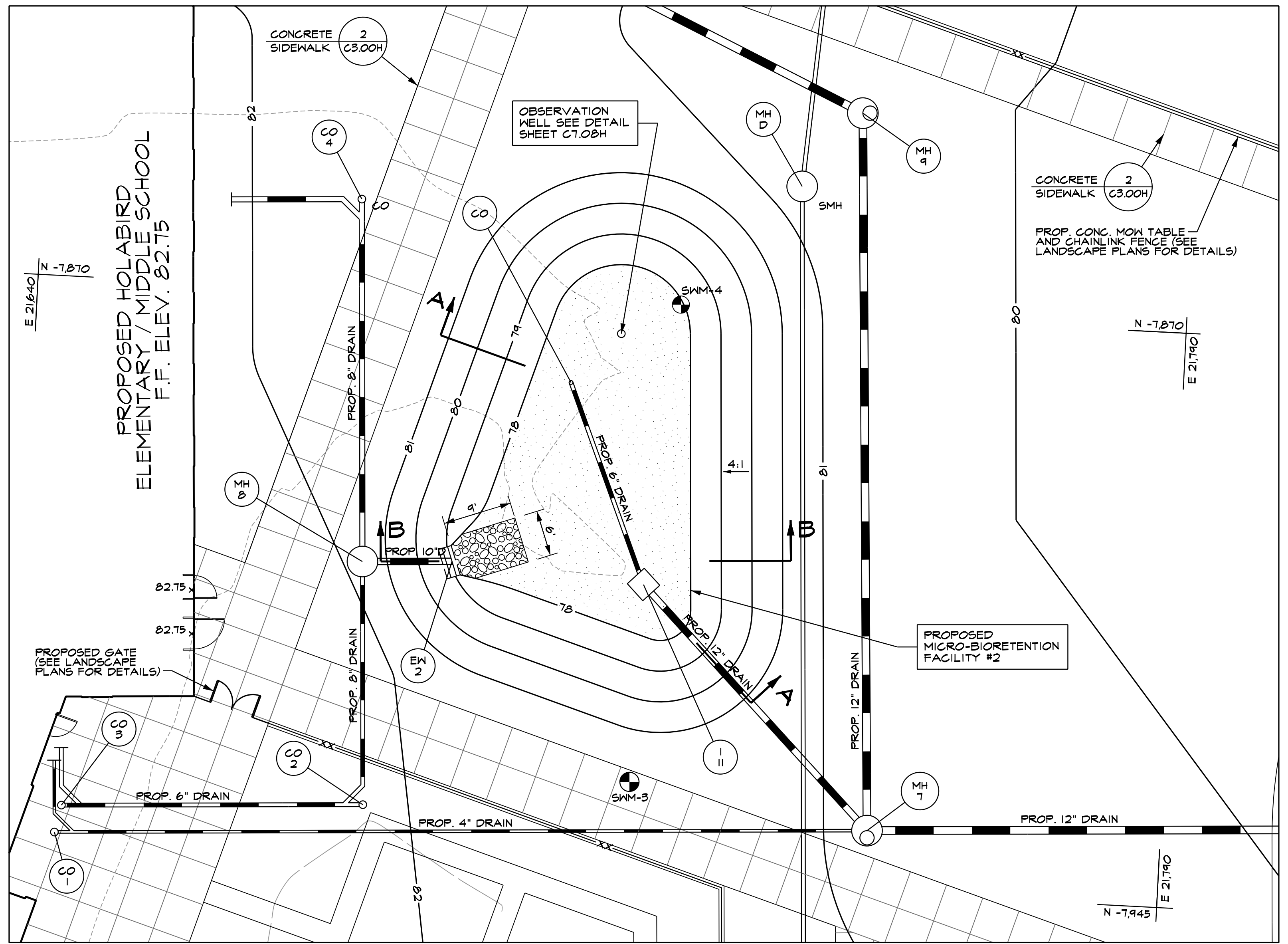


MICRO-BIORETENTION MAINTENANCE SCHEDULE

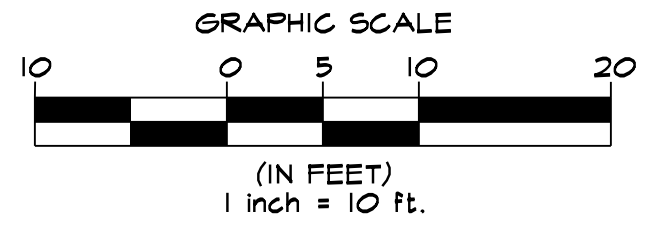
1. REMOVE AND REPLACE THE TOP FEW INCHES OF FILTER MEDIA WHEN WATER PONDS FOR MORE THAN 48 HOURS.
2. REMOVE SEDIMENT FROM SURFACE OF FILTER BED WHEN ACCUMULATION EXCEEDS ONE INCH.
3. REPLACE MULCH ANNUALLY.
4. PRUNE & REPLACE DEAD VEGETATION AS NECESSARY.

MICRO-BIORETENTION INSPECTION SCHEDULE

- IT IS THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER/INSPECTOR OF AN APPROXIMATE TIME FOR INSPECTION OF THE FOLLOWING ITEMS:
1. CONSTRUCTION OF OUTFALL (MH-8 TO EW-2).
 2. EXCAVATION TO SUBGRADE, PLACEMENT & BACKFILL OF UNDERDRAIN.
 3. PLACEMENT OF FILTER MEDIA.
 4. UPON COMPLETION OF FINAL GRADING AND STABILIZATION. CONTACT INFO: MK CONSULTING ENGINEERS, LLC. ATTN: NICK WILSON



AS-BUILT DATA FOR MICRO-BIORETENTION FACILITY NO. 2						
ITEM	DESIGN	AS-BUILT	STATE COORDINATES			
			DESIGN		AS-BUILT	
			NORTHING	EASTING	NORTHING	EASTING
PIPE SIZE & TYPE	12" HDPE		N/A	N/A	N/A	N/A
BOTTOM OF STONE ELEV.	14.42		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	#51, 12" DEPTH		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	PEA GRAVEL, 4" DEPTH		N/A	N/A	N/A	N/A
PLANTING SOIL	24" DEPTH		N/A	N/A	N/A	N/A
STABILIZATION & LANDSCAPING	SEE LANDSCAPE PLAN		N/A	N/A	N/A	N/A
STRUCTURE I-II	WEIR CREST EL.=18.50		-1,906.36	21,720.96		
OBSERVATION WELL (WEST)	SEE DETAIL SHT. C7.05H		-1,873.83	21,716.34		
CLEANOUT (STA. 0+28.00)	SEE DETAIL SHT. C7.05H		-1,880.53	21,710.17		
6" HDPE UNDERDRAIN @ I-II (STA. 0+00)	INV.=14.42		-1,906.36	21,720.96	N/A	N/A
6" HDPE UNDERDRAIN @ C.O. (STA. 0+28.00)	INV.=14.42		-1,880.53	21,710.17	N/A	N/A
TOTAL SURFACE AREA OF PLANTING SOIL	1,040 S.F.		N/A	N/A	N/A	N/A



PLOTTED: 2/6/2017
 BY: [redacted]
 FILE: C:\CloudShare\Company Files\Projects\2015\5041 - C/P Holdard\Drawings\C7.06H_SMM FACILITY 3.dgn

LEGEND

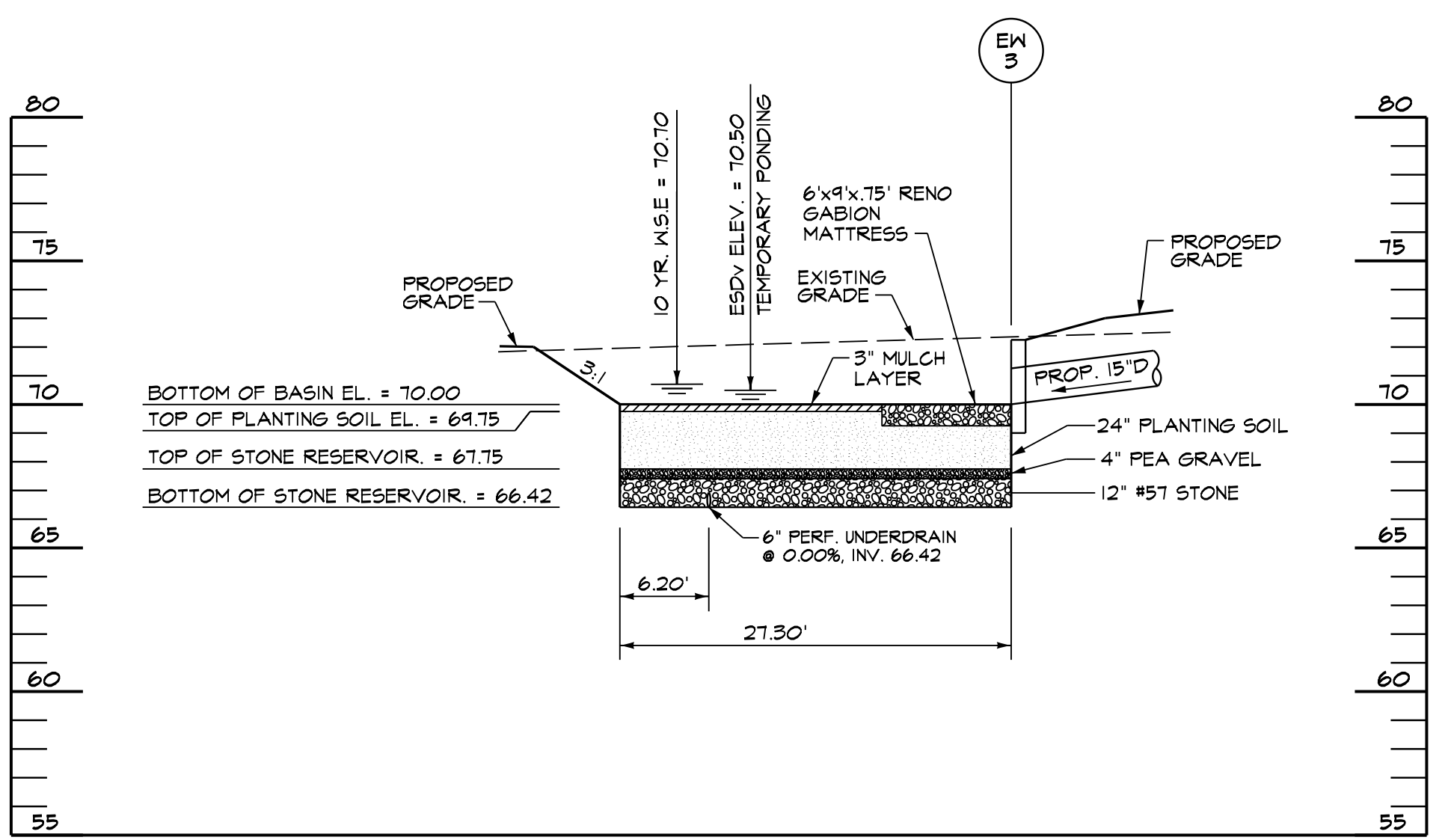
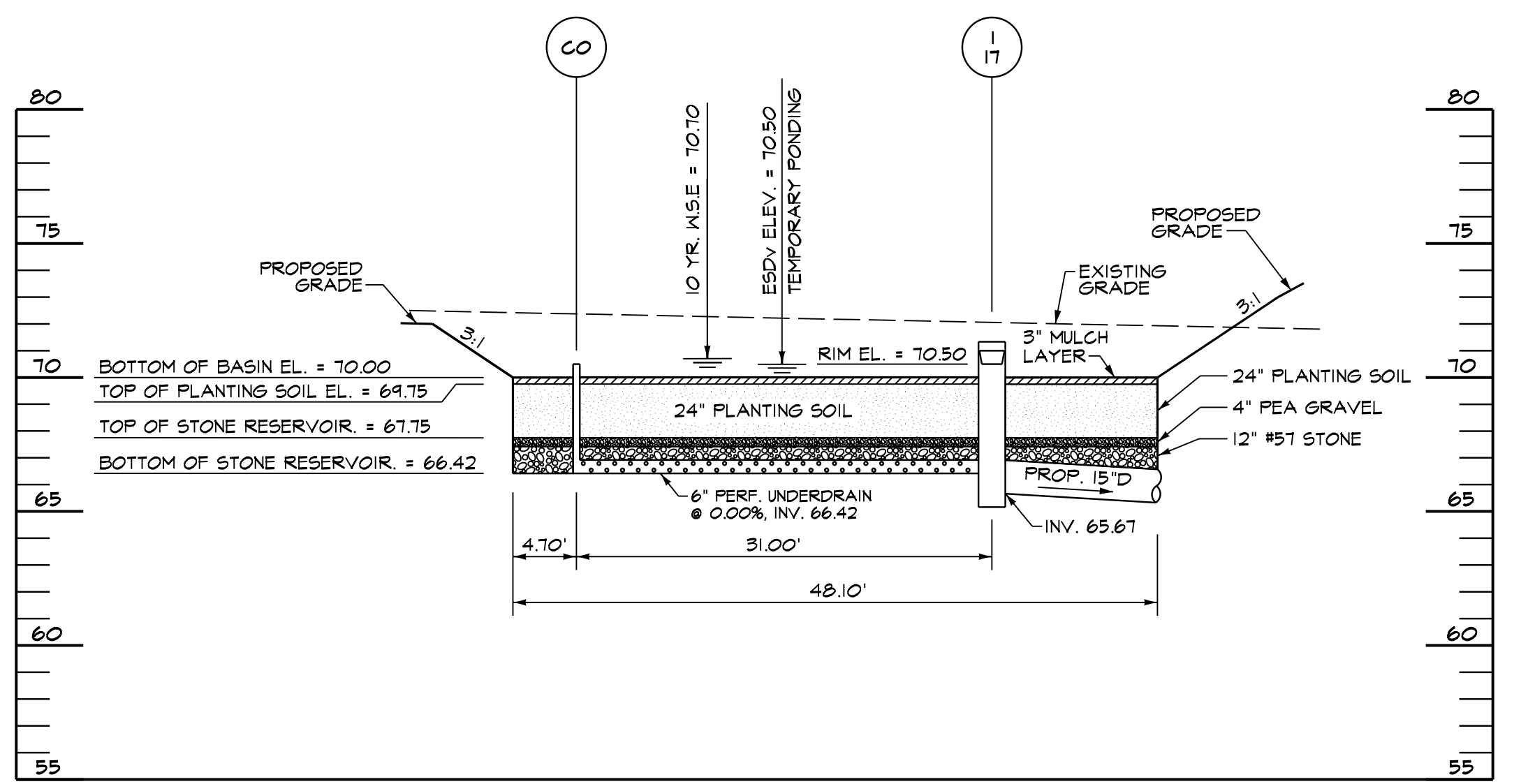
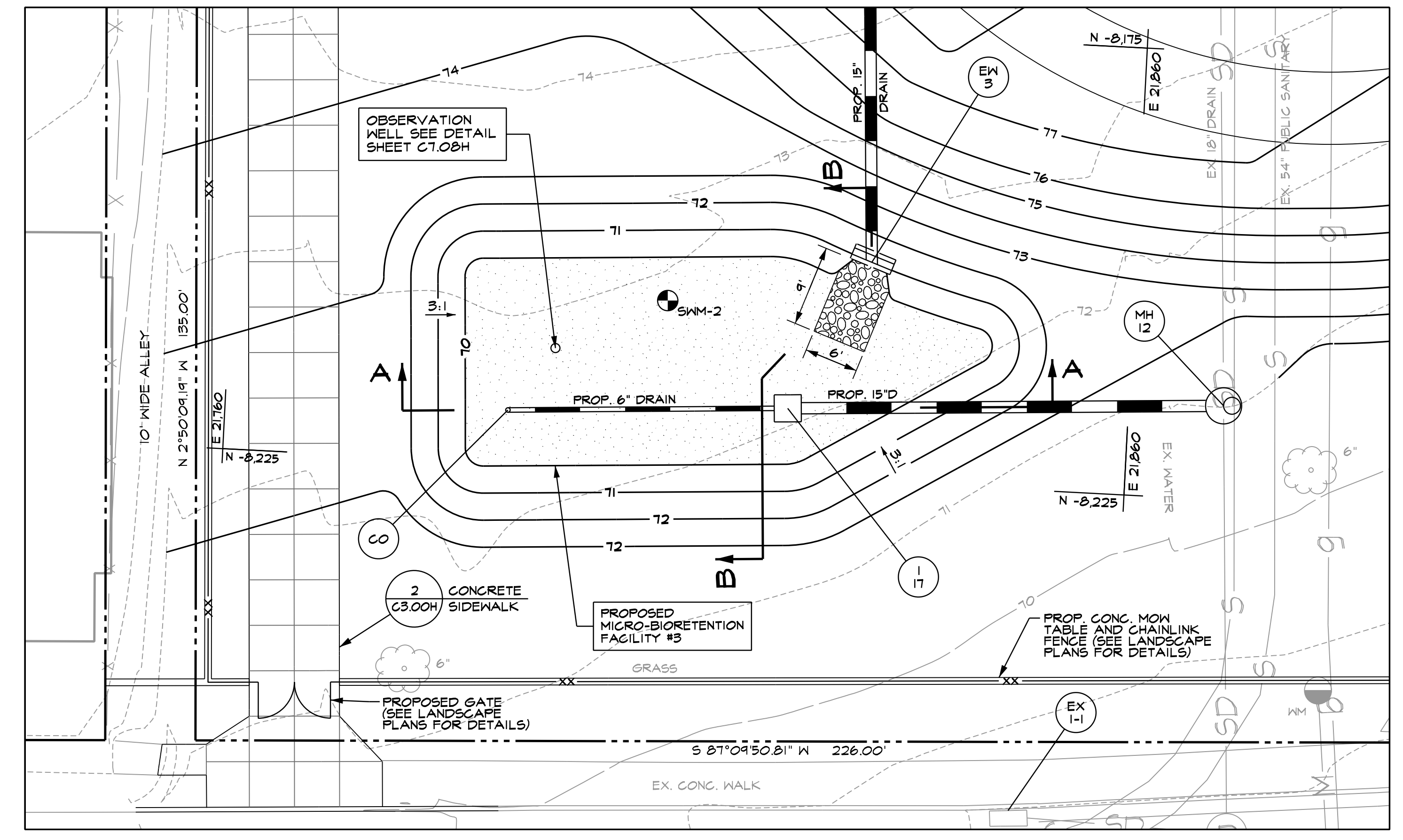
- TO --- EX. INDEX CONTOUR
- T1 --- EX. INTERMEDIATE CONTOUR
- --- PROPERTY LINE
- EX. CURB AND GUTTER
- SD --- EX. STORM DRAIN
- EX. MANHOLE
- EX. INLET
- TO --- PROP. CONTOUR
- --- PROP. CONCRETE WALK
- --- PROP. CURB AND GUTTER
- XX --- PROP. FENCE
- --- PROP. STORM DRAIN
- PROP. MANHOLE
- PROP. INLET
- SOIL BORING LOCATION
- --- APPROXIMATE LIMITS OF PLANTING MEDIA

MICRO-BIORETENTION INSPECTION SCHEDULE

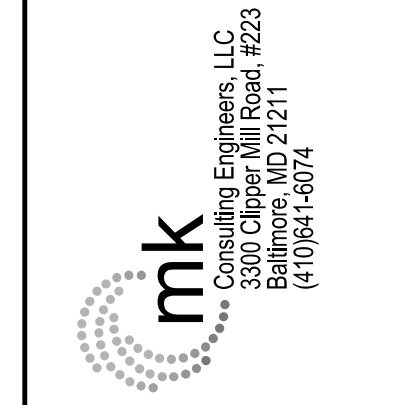
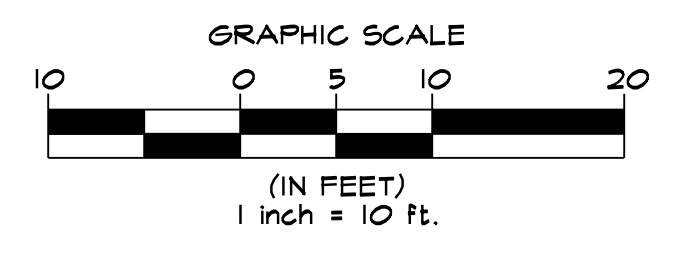
- IT IS THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER/INSPECTOR OF AN APPROXIMATE TIME FOR INSPECTION OF THE FOLLOWING ITEMS:
1. CONSTRUCTION OF OUTFALL (MH-13 TO EX-3).
 2. EXCAVATION TO SUBGRADE, PLACEMENT & BACKFILL OF UNDERDRAIN.
 3. PLACEMENT OF FILTER MEDIA.
 4. UPON COMPLETION OF FINAL GRADING AND STABILIZATION.
- CONTACT INFO: MK CONSULTING ENGINEERS, LLC.
ATTN: NICK WILSON

MICRO-BIORETENTION MAINTENANCE SCHEDULE

1. REMOVE AND REPLACE THE TOP FEW INCHES OF FILTER MEDIA WHEN WATER PONDS FOR MORE THAN 48 HOURS.
2. REMOVE SEDIMENT FROM SURFACE OF FILTER BED WHEN ACCUMULATION EXCEEDS ONE INCH.
3. REPLACE MULCH ANNUALLY.
4. PRUNE & REPLACE DEAD VEGETATION AS NECESSARY.

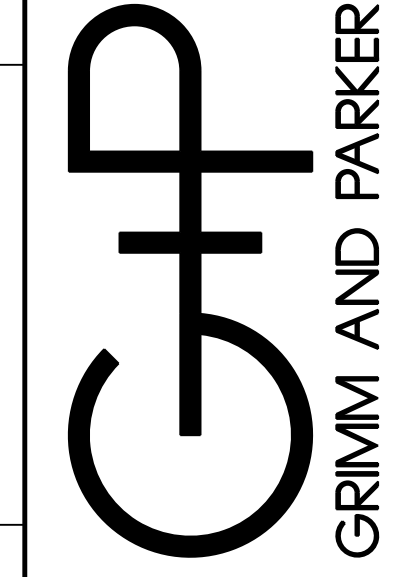


ITEM	DESIGN	AS-BUILT	STATE COORDINATES			
			DESIGN		AS-BUILT	
			NORTHING	EASTING	NORTHING	EASTING
PIPE SIZE & TYPE	12" HDPE		N/A	N/A	N/A	N/A
BOTTOM OF STONE ELEV.	66.42		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	#51, 12" DEPTH		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	PEA GRAVEL, 4" DEPTH		N/A	N/A	N/A	N/A
PLANTING SOIL	24" DEPTH		N/A	N/A	N/A	N/A
STABILIZATION & LANDSCAPING	SEE LANDSCAPE PLAN		N/A	N/A	N/A	N/A
STRUCTURE I-T	WEIR CREST EL.=10.50	-8.211.93	21,822.30			
OBSERVATION WELL	SEE DETAIL SHT. C7.08H	-8.211.98	21,796.25			
CLEANOUT (STA. 0+31.00)	SEE DETAIL SHT. C7.08H	-8.219.10	21,791.35			
6" HDPE UNDERDRAIN @ I-T (STA. 0+00)	INV.=66.42	-8.217.33	21,822.30	N/A	N/A	
6" HDPE UNDERDRAIN @ C.O. (STA. 0+31.00)	INV.=66.42	-8.219.10	21,791.35	N/A	N/A	
TOTAL SURFACE AREA OF PLANTING SOIL	1,100 S.F.		N/A	N/A	N/A	N/A



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 20004 EXPIRATION DATE 11-17-2018

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Tel: 301.595.1000
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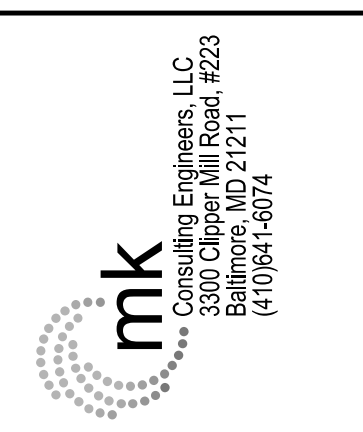
GP# 21553

STORMWATER MANAGEMENT
FACILITY 3
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

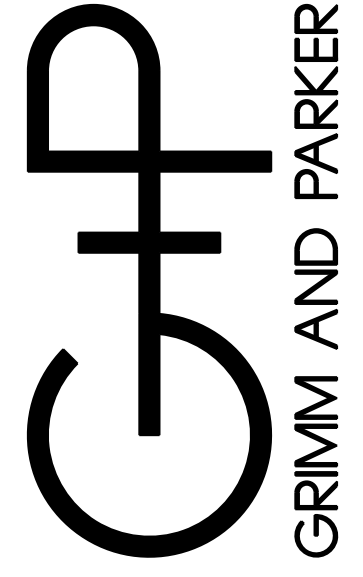
C7.06H

03/13/2017
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 LICENSE NO. 20004
 EXPIRATION DATE 11-17-2018

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 www.grimmandparker.com



GP# 21553

STORMWATER MANAGEMENT
 FACILITY 4
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C7.07H
 03/13/2017
 BID SET

LEGEND

	EX. INDEX CONTOUR
	EX. INTERMEDIATE CONTOUR
	PROPERTY LINE
	EX. CURB AND GUTTER
	EX. STORM DRAIN
	EX. MANHOLE
	EX. INLET
	PROP. CONTOUR
	PROP. CONCRETE WALK
	PROP. CURB AND GUTTER
	PROP. FENCE
	PROP. STORM DRAIN
	PROP. MANHOLE
	PROP. INLET
	SOIL BORING LOCATION
	APPROXIMATE LIMITS OF PLANTING MEDIA

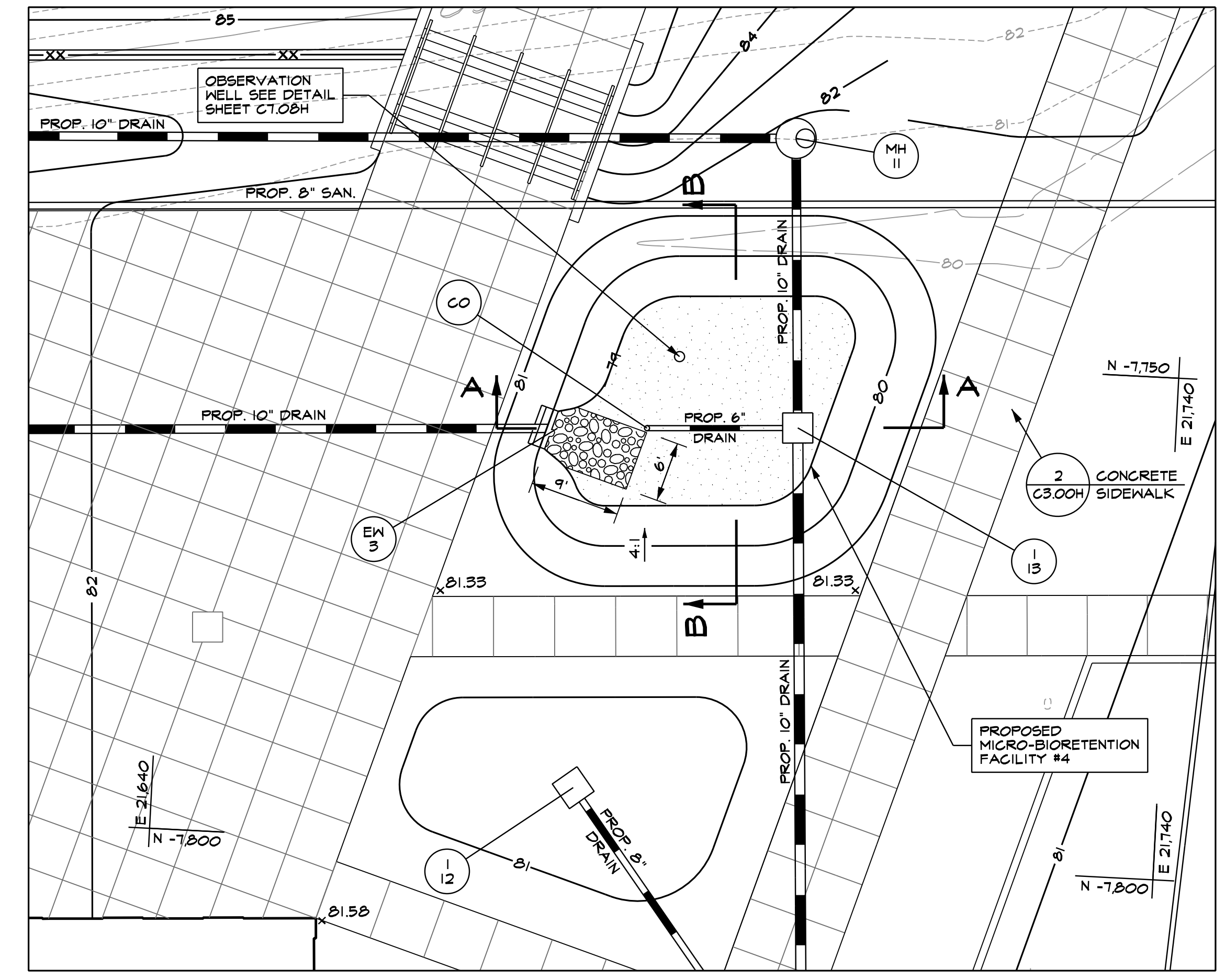
MICRO-BIORETENTION MAINTENANCE SCHEDULE

1. REMOVE AND REPLACE THE TOP FEW INCHES OF FILTER MEDIA WHEN WATER PONDS FOR MORE THAN 48 HOURS.
2. REMOVE SEDIMENT FROM SURFACE OF FILTER BED WHEN ACCUMULATION EXCEEDS ONE INCH.
3. REPLACE MULCH ANNUALLY.
4. PRUNE & REPLACE DEAD VEGETATION AS NECESSARY.

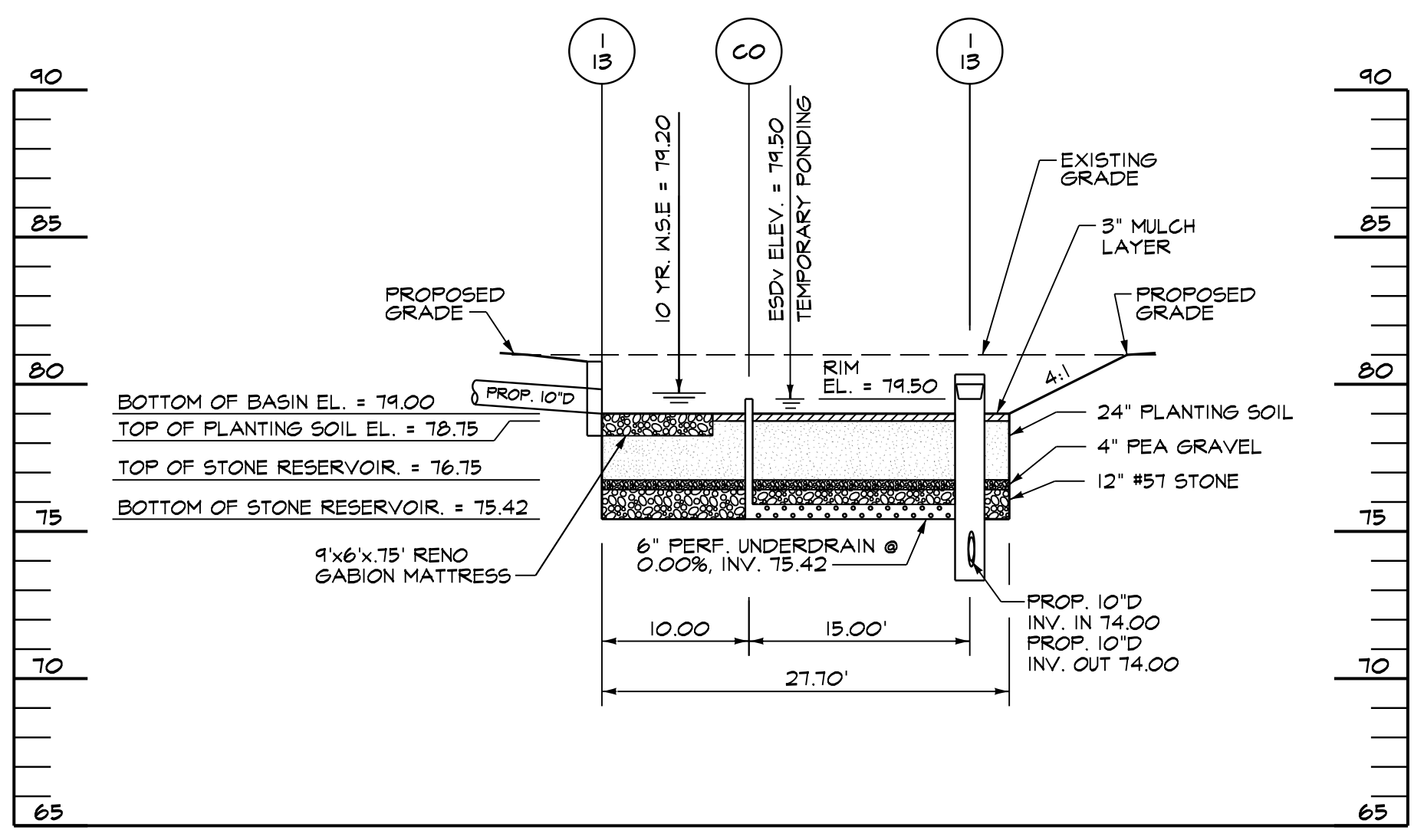
MICRO-BIORETENTION INSPECTION SCHEDULE

IT IS THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER/INSPECTOR OF AN APPROXIMATE TIME FOR INSPECTION OF THE FOLLOWING ITEMS:

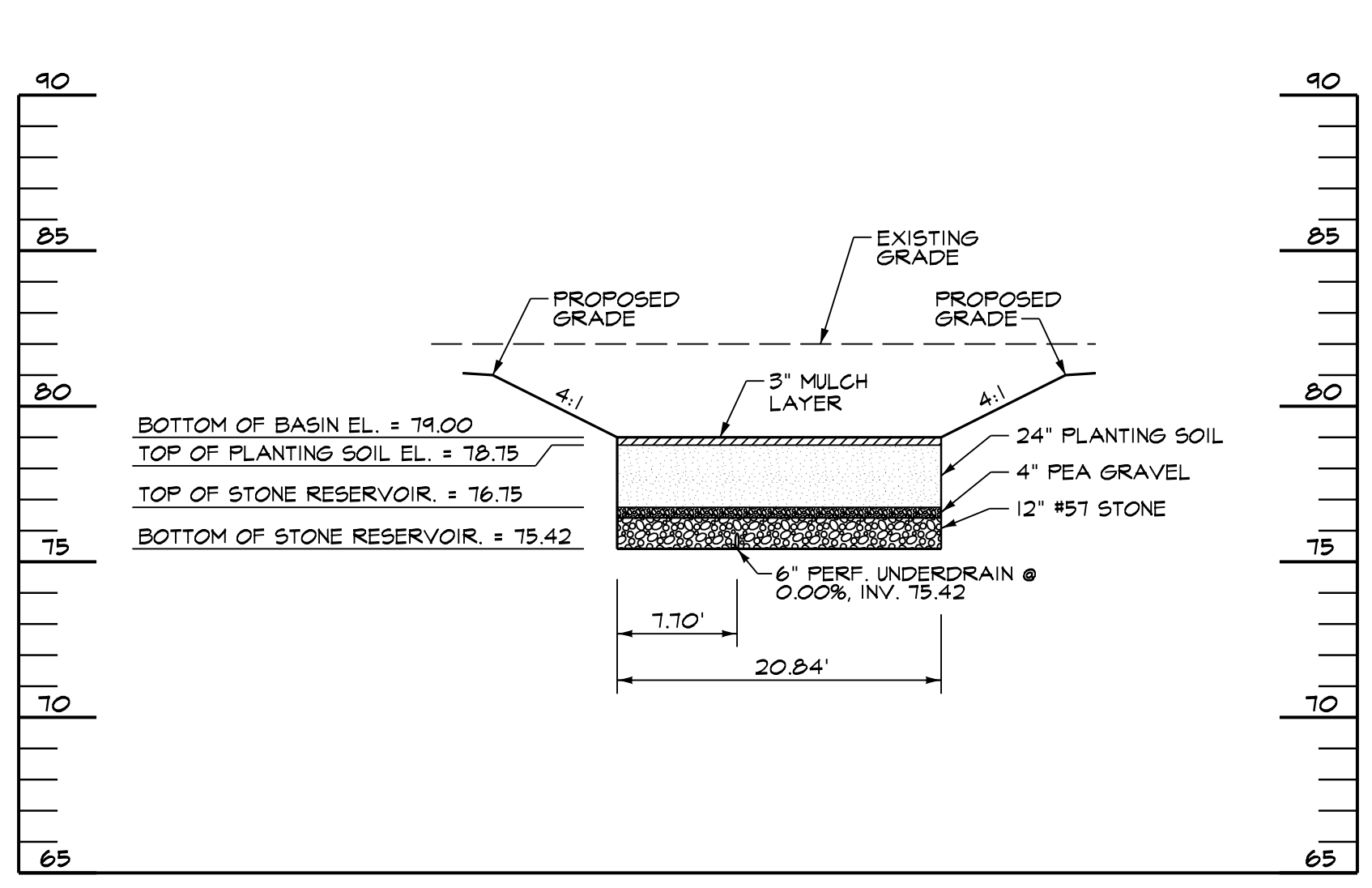
1. CONSTRUCTION OF OUTFALL (ROOF TO EX-3).
2. EXCAVATION TO SUBGRADE, PLACEMENT & BACKFILL OF UNDERDRAIN.
3. PLACEMENT OF FILTER MEDIA.
4. UPON COMPLETION OF FINAL GRADING AND STABILIZATION. CONTACT INFO: MK CONSULTING ENGINEERS, LLC. ATTN: NICK WILSON



MICRO-BIORETENTION FACILITY 4
 SCALE: 1" = 10'



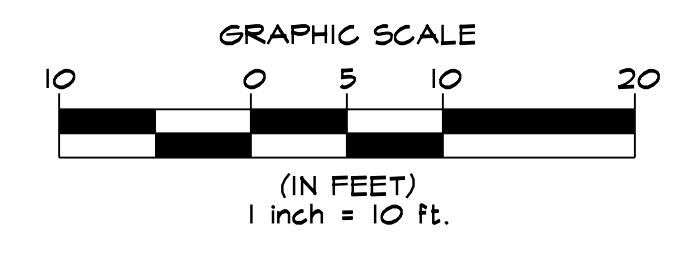
SECTION "A-A"
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 5'



SECTION "B-B"
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 5'

AS-BUILT DATA FOR MICRO-BIORETENTION FACILITY NO. 4

ITEM	DESIGN	AS-BUILT	STATE COORDINATES			
			DESIGN		AS-BUILT	
			NORTHING	EASTING	NORTHING	EASTING
PIPE SIZE & TYPE	10" HDPE		N/A	N/A	N/A	N/A
BOTTOM OF STONE ELEV.	75.42		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	#57, 12" DEPTH		N/A	N/A	N/A	N/A
STONE TYPE & DEPTH	PEA GRAVEL, 4" DEPTH		N/A	N/A	N/A	N/A
PLANTING SOIL	24" DEPTH		N/A	N/A	N/A	N/A
STABILIZATION & LANDSCAPING	SEE LANDSCAPE PLAN		N/A	N/A	N/A	N/A
STRUCTURE I-13	WEIR CREST EL.=74.30		-1,756.89	21,702.38		
OBSERVATION WELL	SEE DETAIL SHT. C7.08H		-1,750.40	21,690.27		
CLEANOUT (STA. 0+15.00)	SEE DETAIL SHT. C7.08H		-1,757.69	21,687.41		
6" HDPE UNDERDRAIN @ I-13 (STA. 0+00)	INV.=75.42		-1,756.89	21,702.38	N/A	N/A
6" HDPE UNDERDRAIN @ C.O. (STA. 0+15.00)	INV.=75.42		-1,757.69	21,687.41	N/A	N/A
TOTAL SURFACE AREA OF PLANTING SOIL	490 S.F.		N/A	N/A	N/A	N/A



BIORETENTION SOIL MIX SPECIFICATIONS

MDSHA STANDARD SPECIFICATION 420.01.05
 BIORETENTION SOIL MIX (BSM) A HOMOGENOUS MIXTURE
 COMPOSED BY LOOSE VOLUME OF 5 PARTS COARSE SAND, 3 PARTS BASE
 SOIL, AND 2 PARTS FINE BARK. BSM SHALL CONFORM TO THE FOLLOWING:

(a) COMPONENTS, COMPONENTS OF BSM SHALL BE SAMPLED, TESTED AND
 APPROVED BEFORE MIXING AS FOLLOWS:

- (1) COARSE SAND, MSMT 356. COARSE SAND SHALL BE WASHED SILICA
 SAND OR CRUSHED GLASS THAT CONFORMS TO ASTM FINE
 AGGREGATE C-33. COARSE SAND SHALL INCLUDE LESS THAN 1%
 BY WEIGHT OF CLAY OR SILT SIZE PARTICLES, AND LESS THAN 5%
 BY WEIGHT OR ANY COMBINATION OF DIABASE, GREYSTONE,
 CALCAREOUS OR DOLOMITIC SAND.
- (2) BASE SOIL. BASE SOIL SHALL BE TESTED AND CERTIFIED BY THE
 PRODUCER TO CONFORM TO THE FOLLOWING REQUIREMENTS:

COMPOSITION - BASE SOIL					
TEST PROPERTY	TEST METHOD	TEST VALUE AND AMENDMENT			
PROHIBITED WEEDS	—	FREE OF SEED AND VIABLE PLANT PARTS OF SPECIES IN 420.06.02(a)(10) WHEN INSPECTED			
DEBRIS	—	NO OBSERVABLE CONTENT OF CEMENT, CONCRETE, ASPHALT, CRUSHED GRAVEL OR CONSTRUCTION DEBRIS WHEN INSPECTED			
GRADING ANALYSIS	T 87	SIEVE SIZE		PASSING BY WEIGHT MINIMUM %	
		2 IN.	100		
		NO. 4	90		
TEXTURAL ANALYSIS	T 88	PARTICLE		% PASSING BY WEIGHT	
		SIZE	mm	MINIMUM	MAXIMUM
		SAND	2.0 - 0.075	50	85
		SILT	0.075 - 0.002	5	45
		CLAY	LESS THAN 0.002	5	10
SOIL pH	D 4972	pH OF 5.1 TO 6.9			
ORGANIC MATTER	T 194	10 TO 100 % BY WEIGHT			
SOLUBLE SALTS	ECC.2 (V:V)	500 ppm (1.25 mmhos/cm) OR LESS			
HARMFUL MATERIALS	—	420.01.0(a)			

(3) FINE BARK. FINE BARK SHALL BE HE BARK OF HARDWOOD TREES THAT
 IS MILLED AND SCREENED TO A UNIFORM PARTICLE SIZE OF 2 IN. OR
 LESS. FINE BARK SHALL BE COMPOSTED AND AGED FOR 6 MONTHS
 OR LONGER, AND BE FREE FROM SANDUST AND FOREIGN MATERIALS.

A 1 TO 2lb SAMPLE OF SINE BARK SHALL BE SUBMITTED TO THE
 LANDSCAPE OPERATIONS DIVISION FOR EXAMINATION.

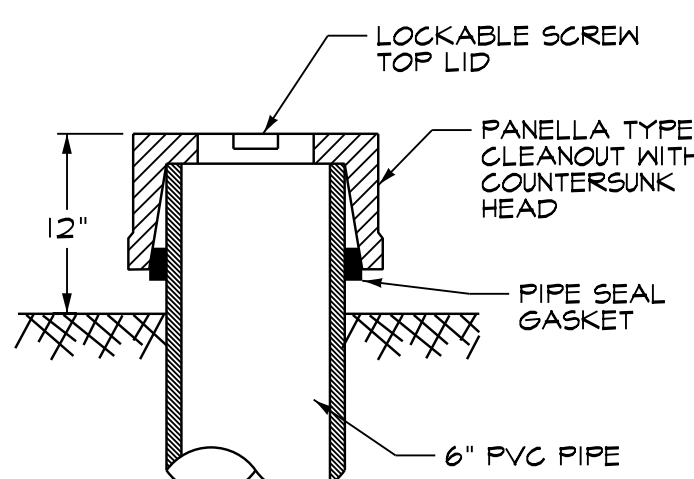
(b) COMPOSITION. BSM SHALL BE SAMPLED AND TESTED ACCORDING
 TO THE REQUIREMENTS OF MSMT 356 AND CONFORM TO THE FOLLOWING:

COMPOSITION - BIORETENTION SOIL MIX (BSM)						
TEST PROPERTY	TEST METHOD	TEST VALUE AND AMENDMENT				
WEEDS	—	FREE OF SEED AND VIABLE PLANT PARTS OF SPECIES IN 420.06.02(a)(10) WHEN INSPECTED				
DEBRIS	—	420.01.05(a)(2)				
TEXTURAL ANALYSIS	T 88	PARTICLE		% PASSING BY WEIGHT		
		SIZE	mm	MINIMUM	MAXIMUM	
		SAND	2.0 - 0.075	55	85	
		SILT	0.075 - 0.002	—	20	
SOIL pH	D 4972	pH OF 5.1 TO 7.1				
		MINIMUM 15% BY WEIGHT.				
ORGANIC MATTER	T 194	MINIMUM 15% BY WEIGHT.				
NUTRIENT ANALYSIS AND SOLUBLE SALTS	MEHLICH-3	CONCENTRATION				
		ELEMENT	MINIMUM	MAXIMUM		
			ppm	FIV	ppm	FIV
		CALCIUM (Ca)	32	25	NO LIMIT	NO LIMIT
		MAGNESIUM (Mg)	15	25	NO LIMIT	NO LIMIT
		PHOSPHORUS (P)	18	25	92	100
POTASSIUM (K)	22	25	NO LIMIT	NO LIMIT		
SULFUR (SO4)	25	N/A	NO LIMIT	NO LIMIT		
HARMFUL MATERIALS	—	ECC.2 (V:V)				
		SOLUBLE SALTS				
HARMFUL MATERIALS	—	420.01.0(a)				

(c) AMENDMENT OR FAILURE. BSM THAT DOES NOT CONFORM TO
 COMPOSITION REQUIREMENTS FOR pH OR NUTRIENT ANALYSIS
 SHALL BE AMENDED AS SPECIFIED BY THE NMP. BSM THAT
 EXCEEDS MAXIMUM PHOSPHORUS CONCENTRATION OR FAILS
 OTHER COMPOSITION REQUIREMENTS WILL NOT BE ACCEPTED,
 AND SHALL NOT BE DELIVERED OR USED AS A BSM.

(d) STORAGE 420.01.02(b). BSM SHALL BE STORED IN A STOCKPILE
 THAT IS PROTECTED FROM WEATHER UNDER TARP OR SHED. BSM
 STORED FOR 6 MONTHS OR LONGER SHALL BE RESAMPLED,
 RETESTED, AND REAPPROVED BEFORE USE.

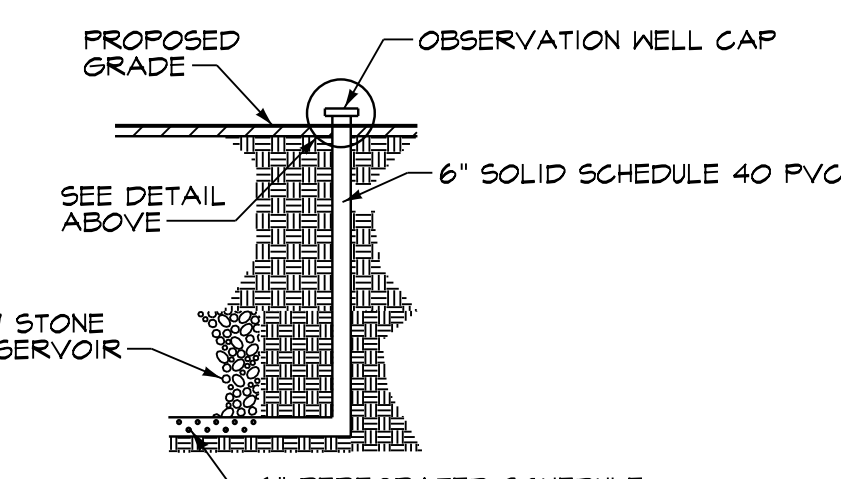
TABLE B.3.2 MATERIALS SPECIFICATIONS FOR BIORETENTION			
MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE LANDSCAPE PLANS	N/A	PLANTINGS ARE SITE-SPECIFIC
PLANTING SOIL [2 1/2' TO 4' DEEP]	SHA SOIL MIX	N/A	USA SOIL TYPES LOAMY SAND, SANDY LOAM OR LOAM SEE SHA BSM SPECIFICATIONS SHOWN ON THIS SHEET.
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM
PEA GRAVEL, DIAPHRAGM AND CURTAIN DRAIN	PEA GRAVEL: ASTM-D-448 ORNAMENTAL STONE: WASHED COBBLES	PEA GRAVEL: NO. 6 STONE 2" TO 3"	
GEOTEXTILE	CLASS "C" - APPARENT OPENING SIZE (ASTM-D-4751), GRAB TENSILE STRENGTH (ASTM-D-4832), PUNCTURE RESISTANCE (ASTM-D-4833)	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY
UNDERDRAIN GRAVEL	AASHTO M-43	0.375" TO 0.75"	
UNDERDRAIN PIPING	F 758, TYPE PS 28 OR AASHTO M-278	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	3/8" PER @ 6" ON CENTER, 4 HOLES PER ROW. MINIMUM OF 3" OF GRAVEL OVER PIPES, NOT NECESSARY UNDERNEATH PIPES
POURED IN PLACED CONCRETE (IF REQUIRED)	MSHA MIX NO. 3, 1" ± 3500 psi @ 28 DAYS, NORMAL HEIGHT, AIR-ENTRAINED, REINFORCING TO MEET ASTM-615-60	N/A	ON SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED. 28 DAY STRENGTH AND SLUMP TEST. ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND. DESIGN TO INCLUDE MEETING ACI CODE 309/84 VERTICAL LOADING (H-10 OR H-20). ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURE); AN ANALYSIS OF POTENTIAL CRACKING
SAND [1' DEEP]	AASHTO-M-6 OR ASTM-C-33	0.002" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.



SCREW TOP CAP

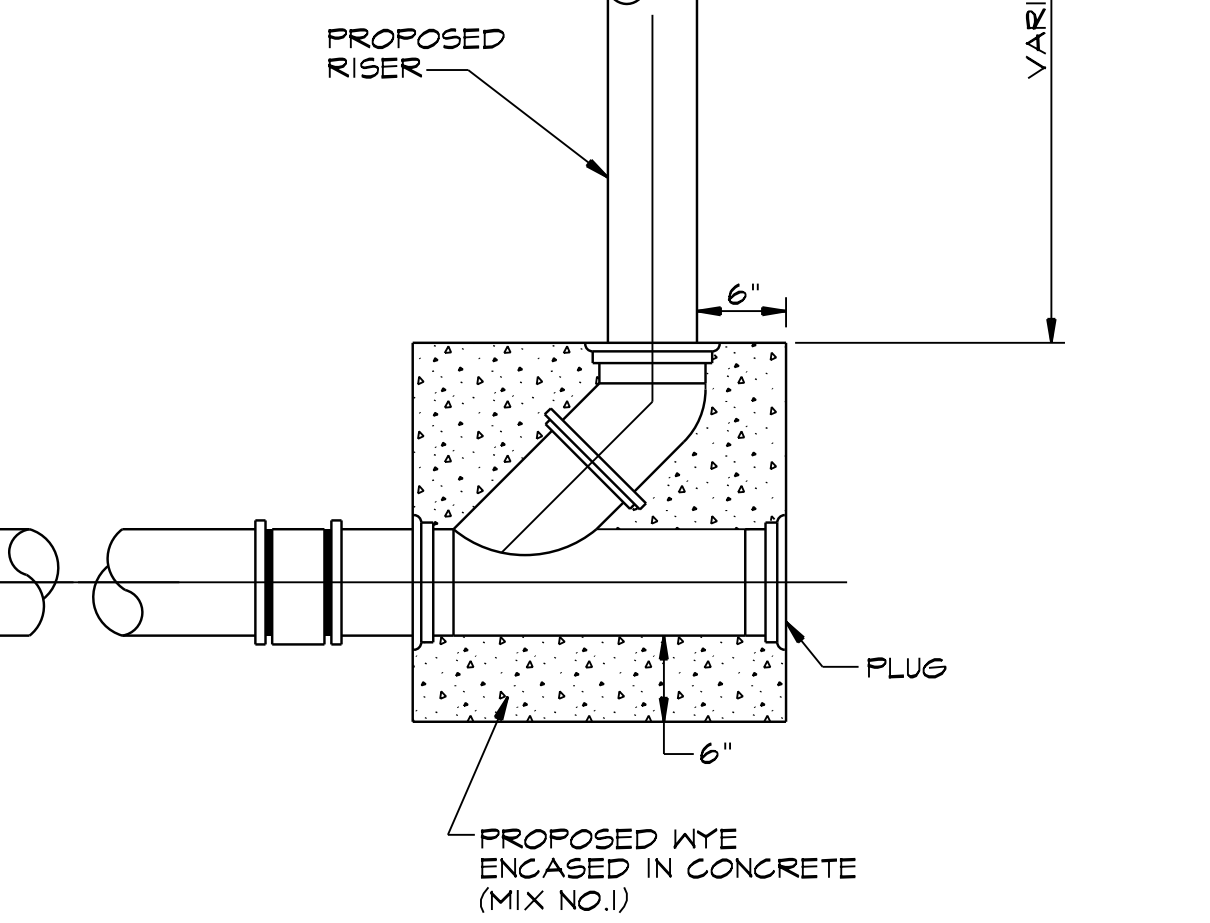
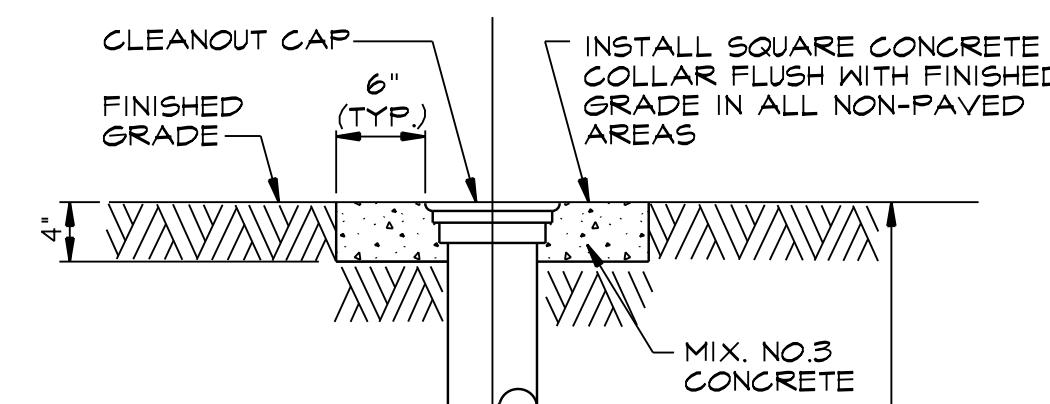
NOT TO SCALE

NOTES:
 THE TUBE SHALL HAVE A FACTORY ATTACHED CAST IRON OR HIGH IMPACT PLASTIC COLLAR WITH RIPS TO PREVENT ROTATION WHEN REMOVING SCREW TOP LID. THE SCREW TOP LID SHALL BE CAST IRON OR HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRA-VIOLET RAYS.
 AS-BUILT DEPTH TO INVERT SHALL BE PERMANENTLY MARKED ON THE OBSERVATION WELL CAP.



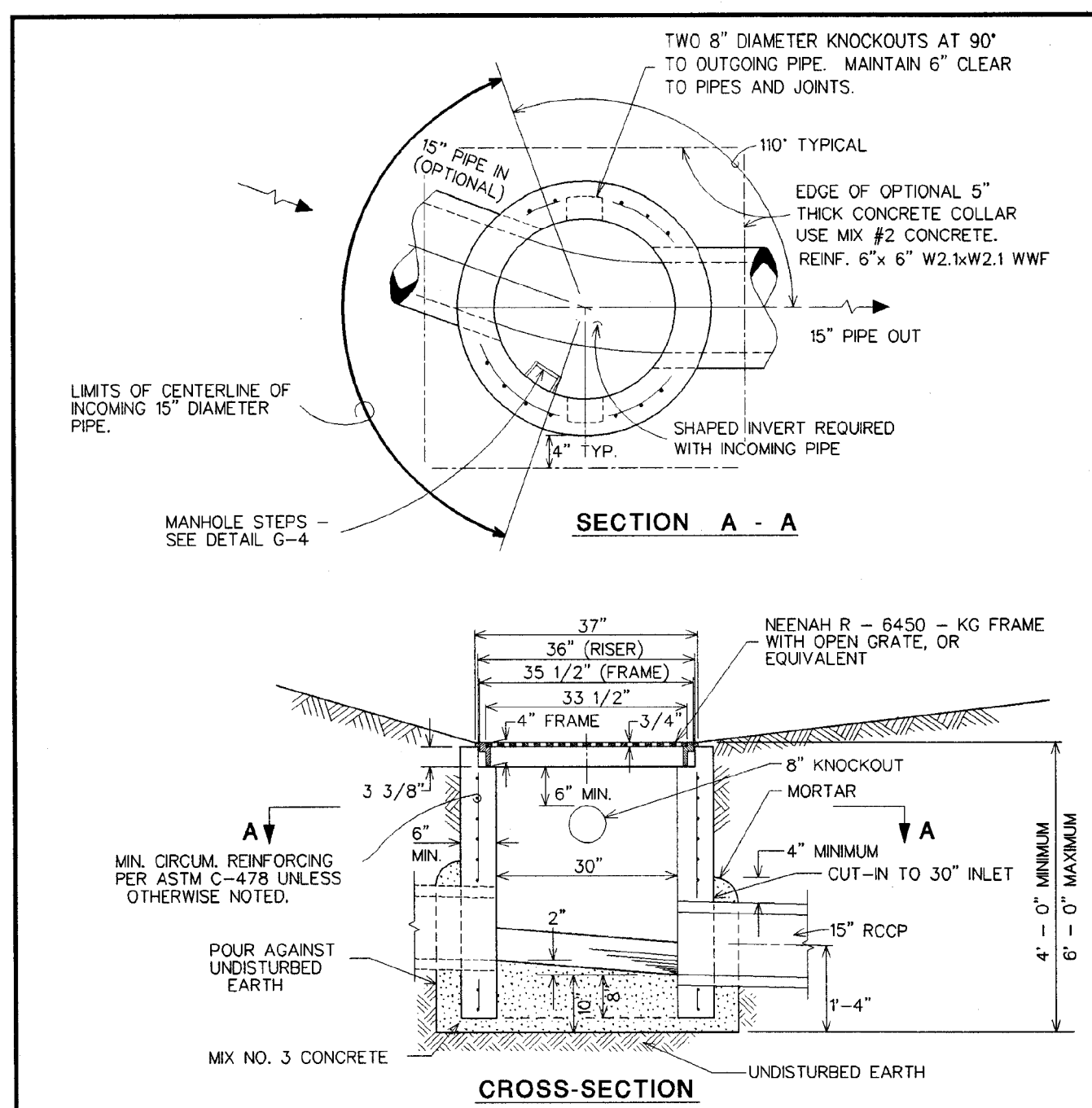
OBSERVATION WELL DETAIL

NOT TO SCALE



CLEANOUT DETAIL (PERVIOUS AREAS)

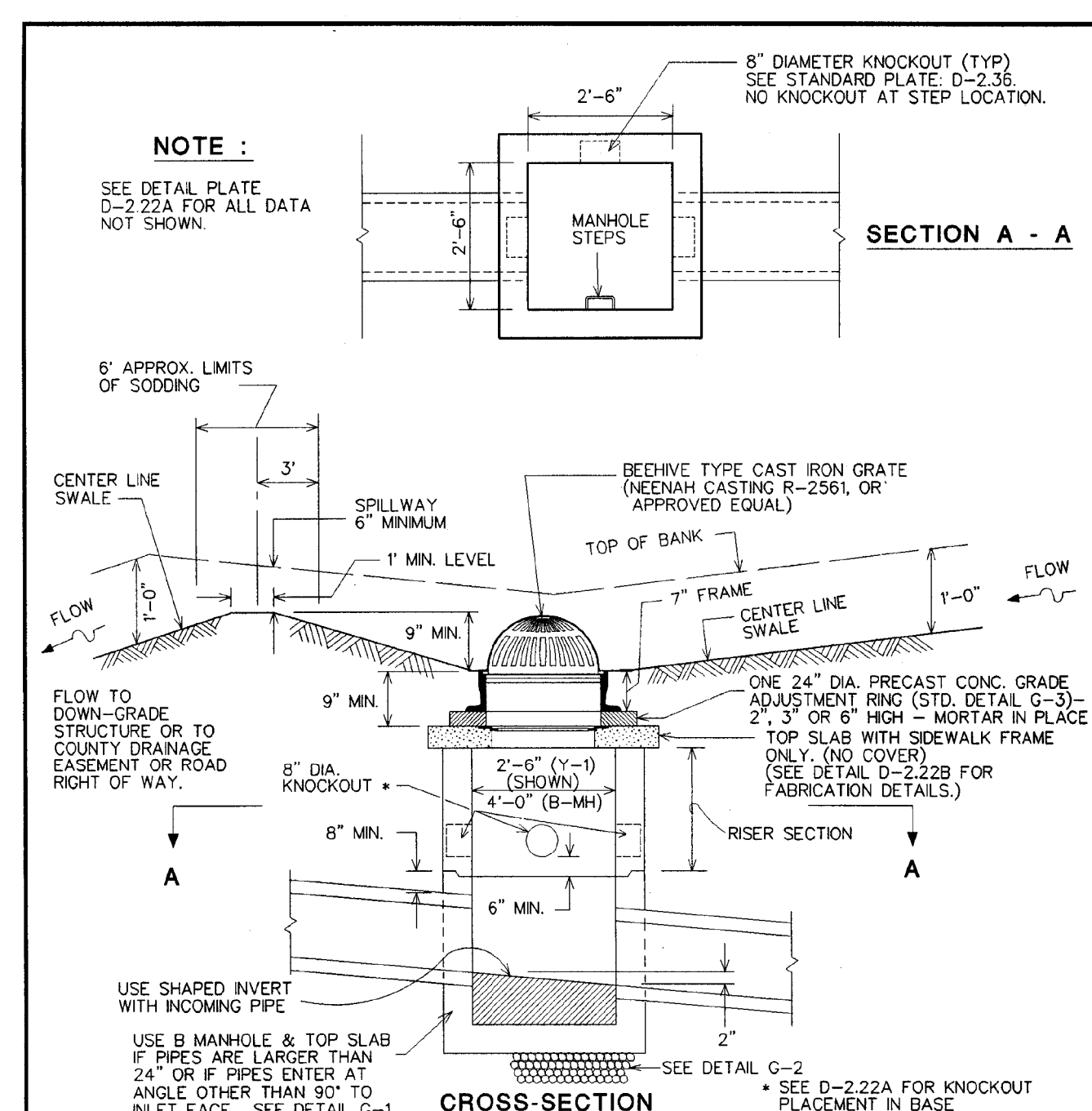
NOT TO SCALE



TYPE Y-2 YARD INLET

NOT TO SCALE

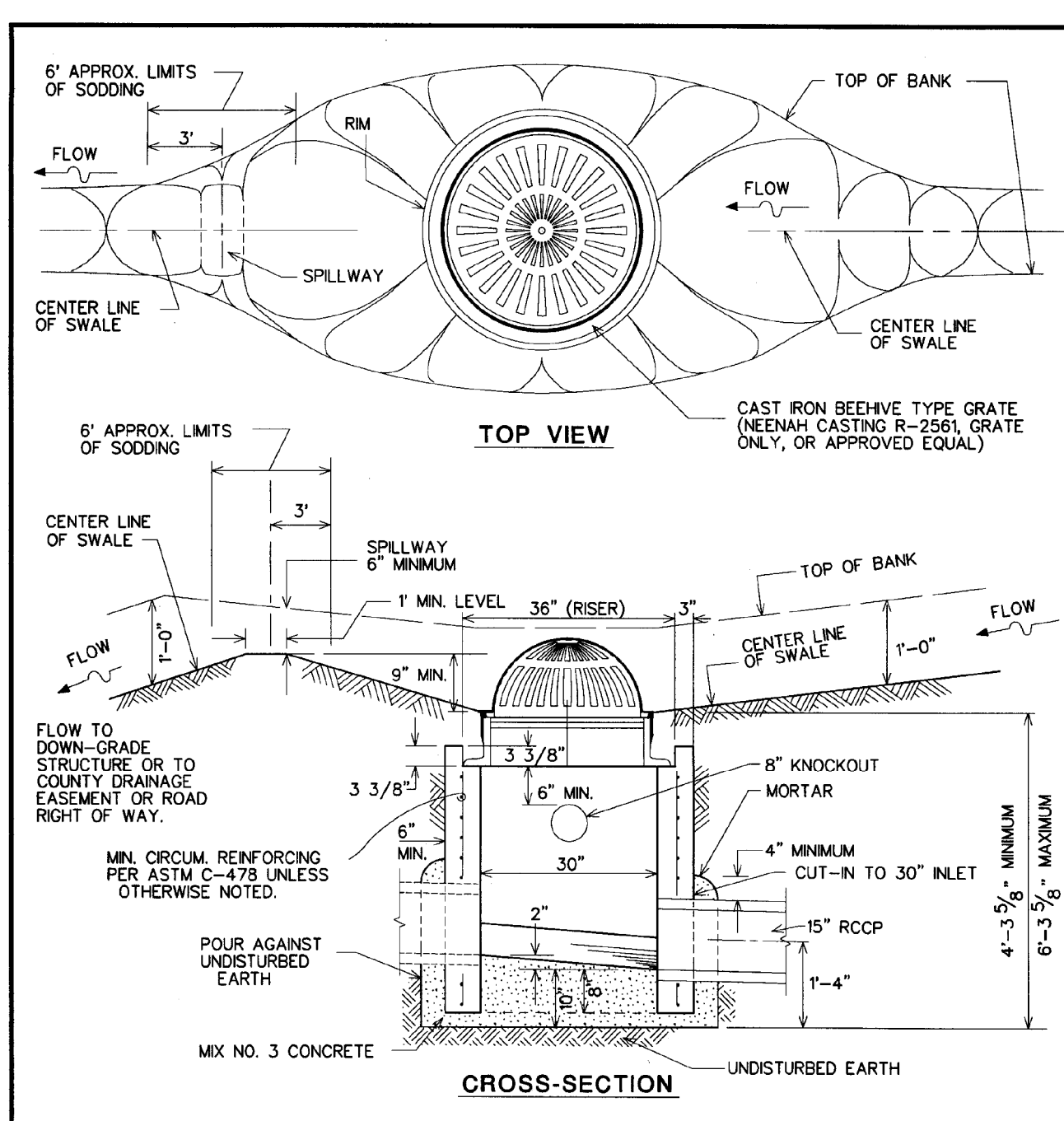
DEPARTMENT OF PUBLIC WORKS
 STORM DRAINAGE DETAILS
TYPE Y-2 YARD INLET
 PLATE **D-2.23**
 AUGUST 2007
 REVISED MAY 2008



TYPE Y-3 INLET

NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS
 STORM DRAINAGE DETAILS
TYPE Y-3 INLET
 WITH Y-1 INLET BASE, BEEHIVE GRATE
 PLATE **D-2.24A**
 AUGUST 2007
 REVISED MAY 2008



TYPE Y-3 YARD INLET

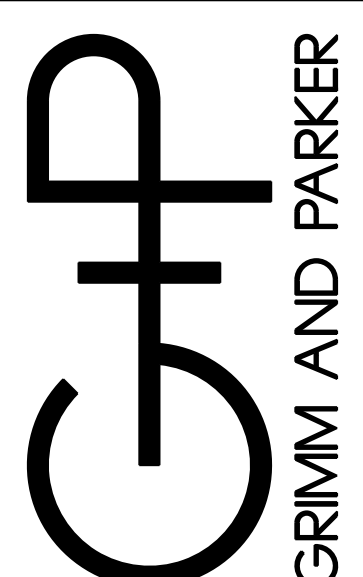
NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS
 STORM DRAINAGE DETAILS
TYPE Y-3 YARD INLET
 TYPE Y-2 BASE, BEEHIVE GRATE
 PLATE **D-2.24B**
 AUGUST 2007
 REVISED MAY 2008



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 LICENSE NO. 20004
 EXPIRATION DATE 11-17-2018

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 Suite 600
 Calverton, MD 20705
 Tel: 301.595.1000
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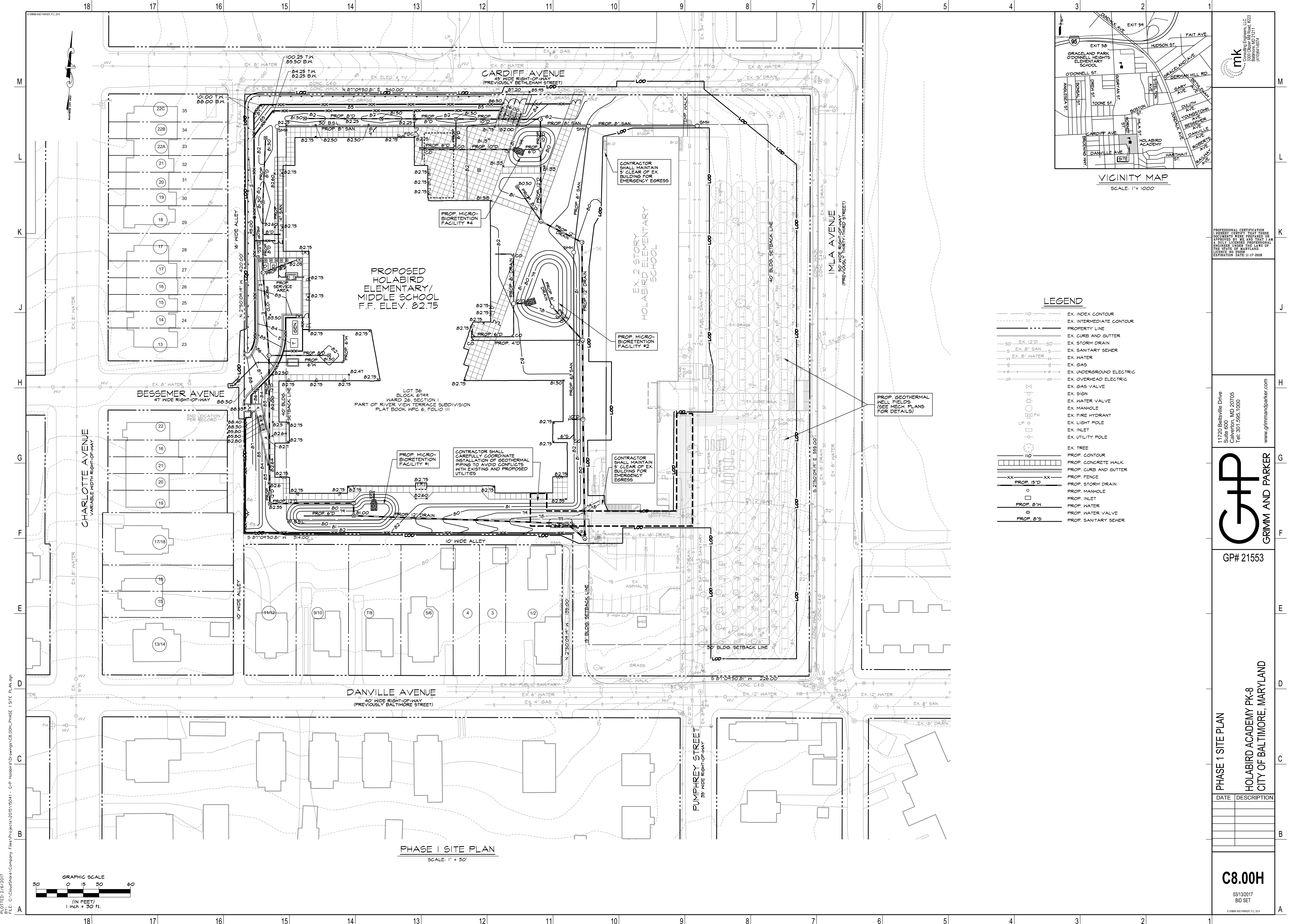


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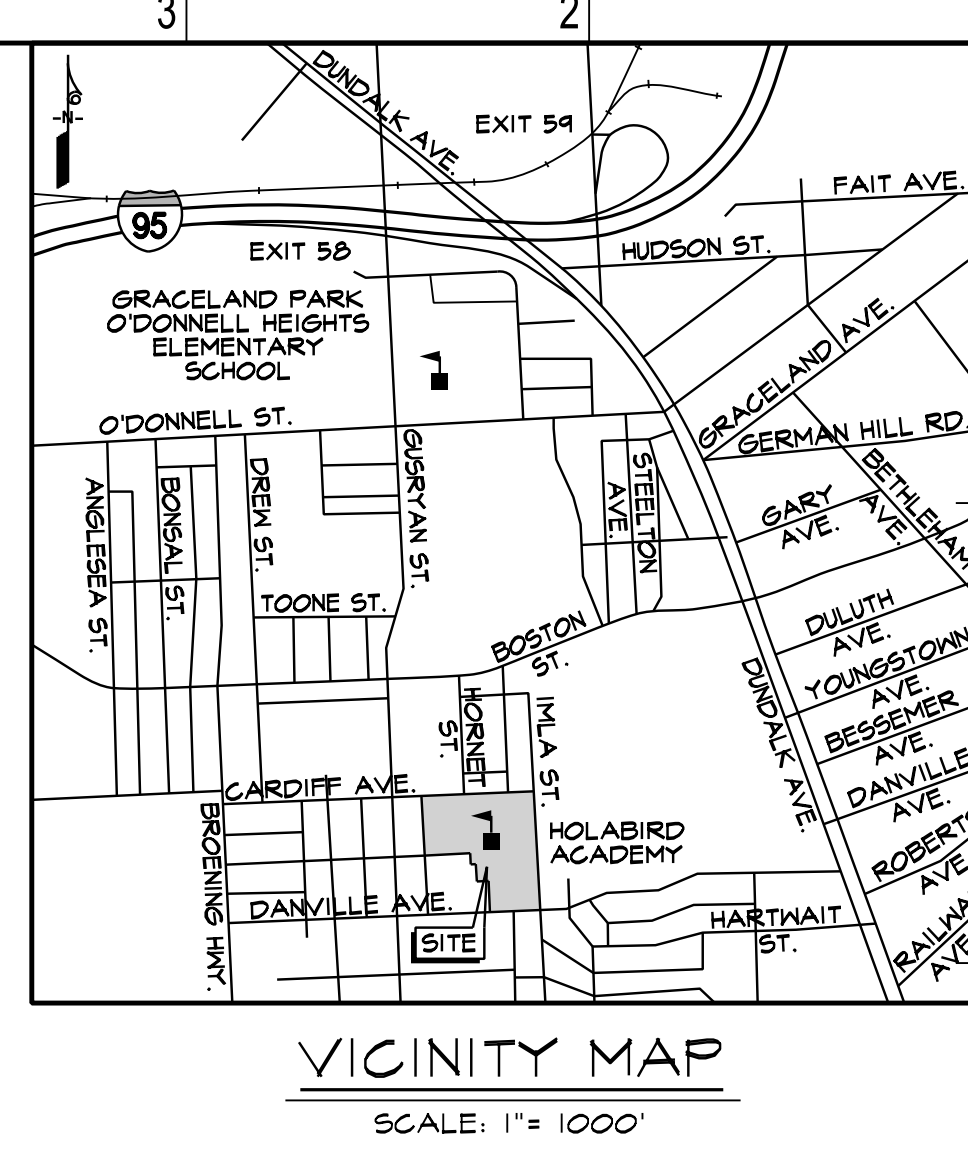
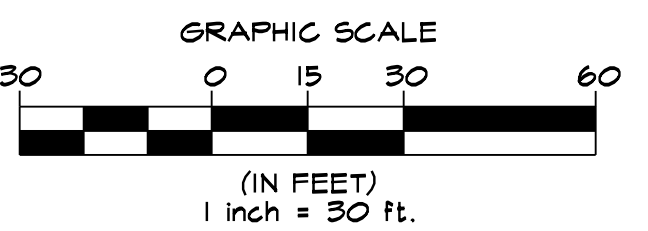
STORMWATER
 MANAGEMENT DETAILS
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C7.08H
 03/13/2017
 BID SET



PHASE I SITE PLAN
SCALE: 1" = 30'

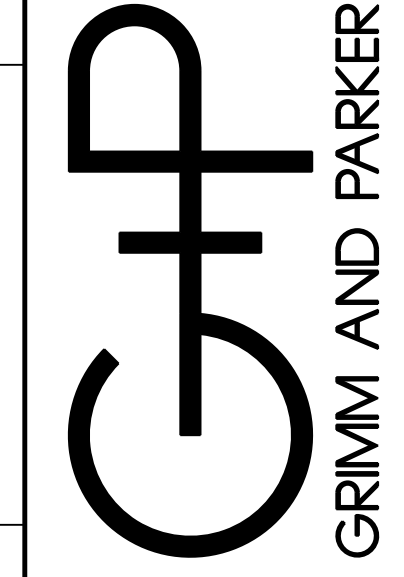


LEGEND

---	EX. INDEX CONTOUR
---	EX. INTERMEDIATE CONTOUR
---	PROPERTY LINE
---	EX. CURB AND GUTTER
---	EX. STORM DRAIN
---	EX. SANITARY SEWER
---	EX. WATER
---	EX. GAS
---	EX. UNDERGROUND ELECTRIC
---	EX. OVERHEAD ELECTRIC
---	EX. GAS VALVE
---	EX. SIGN
---	EX. WATER VALVE
---	EX. MANHOLE
---	EX. FIRE HYDRANT
---	EX. LIGHT POLE
---	EX. INLET
---	EX. UTILITY POLE
---	EX. TREE
---	PROP. CONTOUR
---	PROP. CONCRETE WALK
---	PROP. CURB AND GUTTER
---	PROP. FENCE
---	PROP. STORM DRAIN
---	PROP. MANHOLE
---	PROP. INLET
---	PROP. WATER
---	PROP. WATER VALVE
---	PROP. SANITARY SEWER

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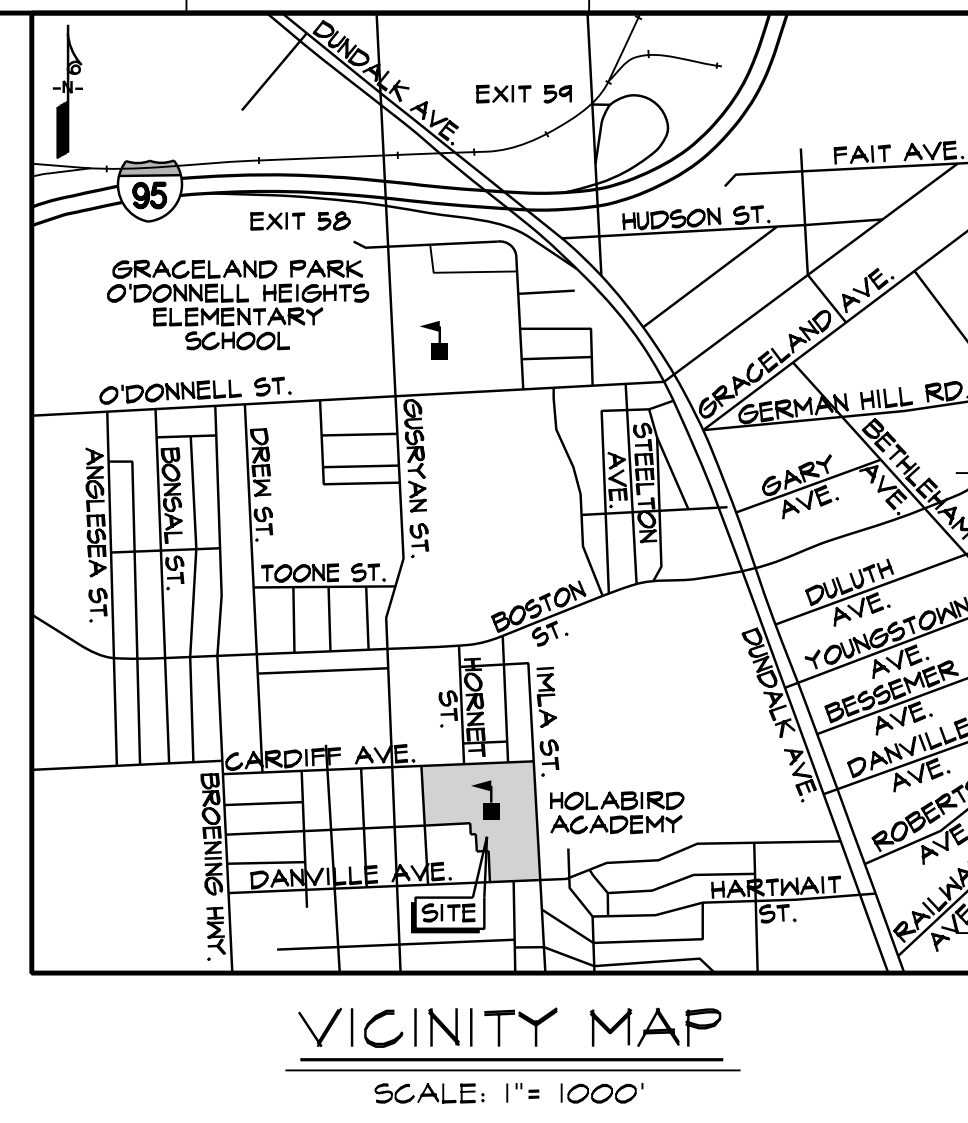
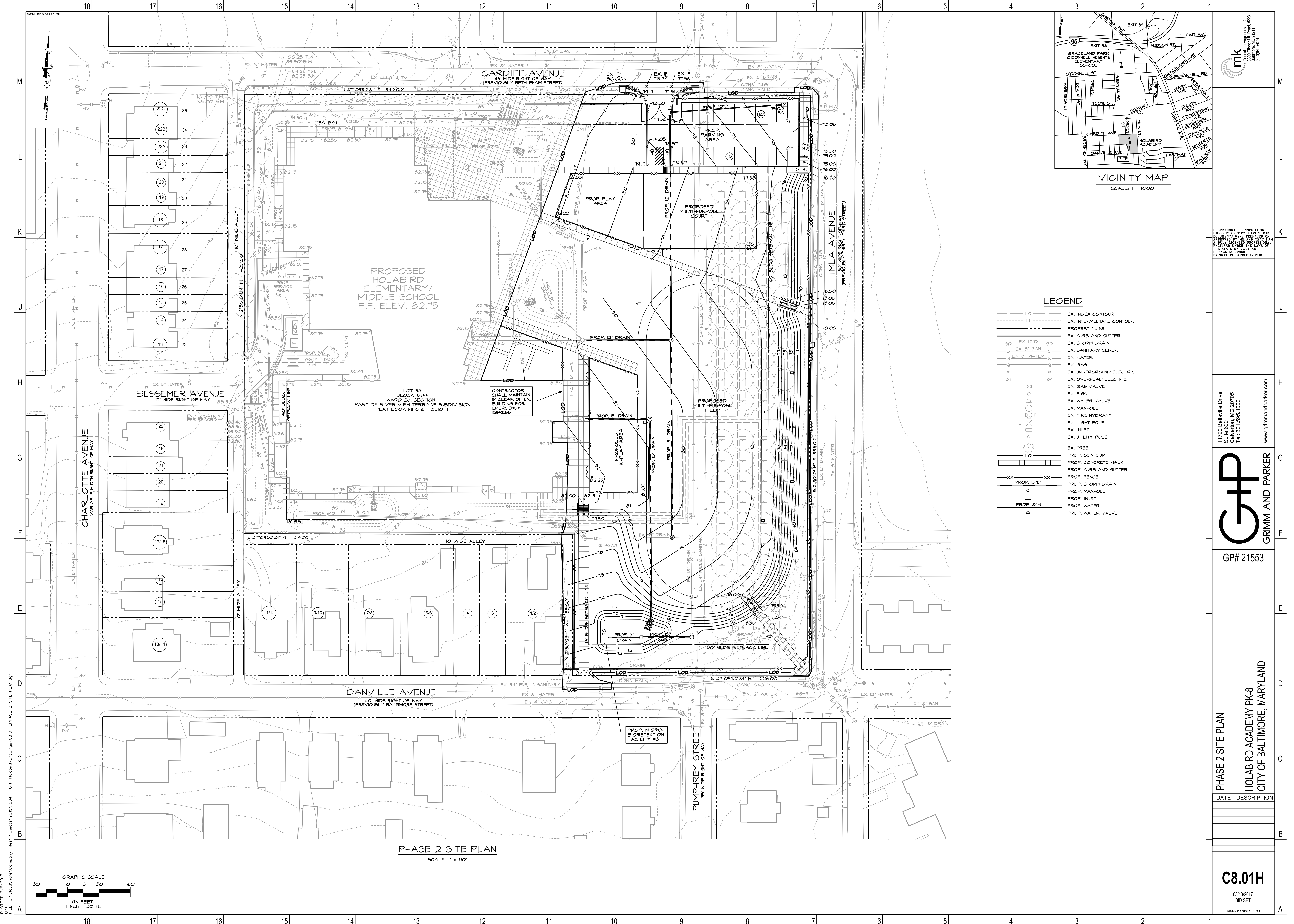
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HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C8.00H

03/13/2017
BID SET

PLOTTED: 2/6/2017
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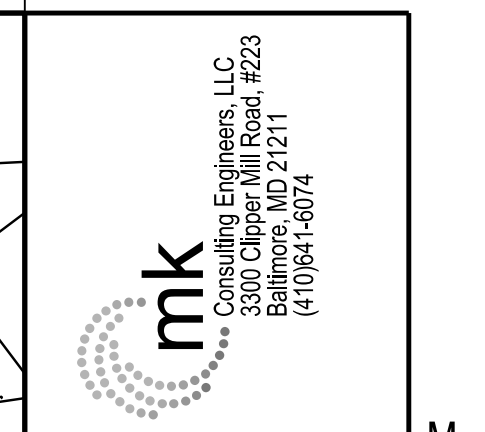
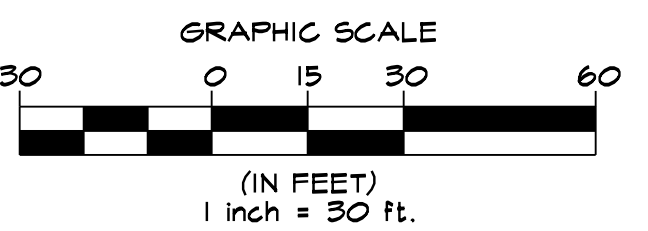
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- EX. INTERMEDIATE CONTOUR
- PROPERTY LINE
- EX. CURB AND GUTTER
- EX. STORM DRAIN
- EX. SANITARY SEWER
- EX. WATER
- EX. GAS
- EX. UNDERGROUND ELECTRIC
- EX. OVERHEAD ELECTRIC
- EX. GAS VALVE
- EX. SIGN
- EX. WATER VALVE
- EX. MANHOLE
- EX. FIRE HYDRANT
- EX. LIGHT POLE
- EX. INLET
- EX. UTILITY POLE
- EX. TREE
- PROP. CONTOUR
- PROP. CONCRETE WALK
- PROP. CURB AND GUTTER
- XX PROP. FENCE
- PROP. STORM DRAIN
- PROP. MANHOLE
- PROP. INLET
- PROP. WATER
- PROP. WATER VALVE

PROPOSED
HOLABIRD
ELEMENTARY/
MIDDLE SCHOOL
F.F. ELEV. 82.75

LOT 36
BLOCK 6794
WARD 26, SECTION 1
PART OF RIVER VIEW TERRACE SUBDIVISION
PLAT BOOK WFC 6, FOLIO III

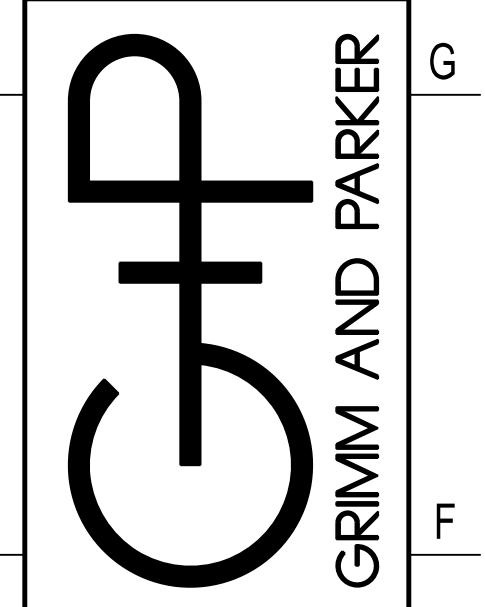
CONTRACTOR
SHALL MAINTAIN
5' CLEAR OF EX.
BUILDING FOR
EMERGENCY
EGRESS

PHASE 2 SITE PLAN
SCALE: 1" = 30'



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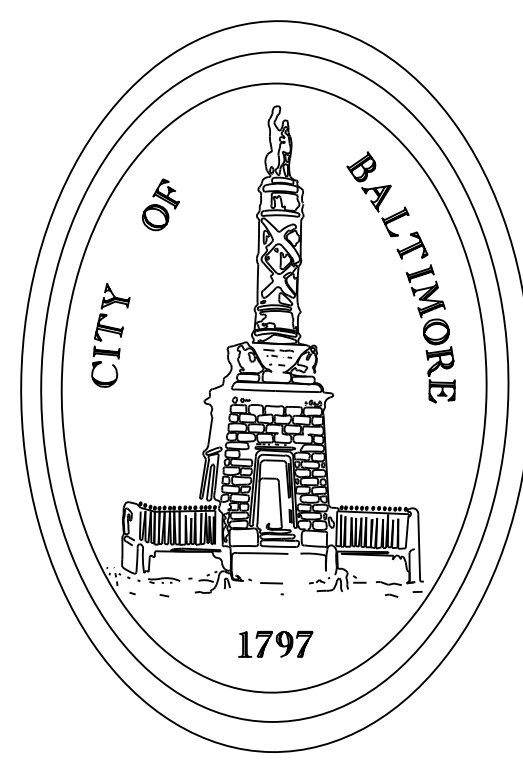
PHASE 2 SITE PLAN
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

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03/13/2017
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PLOTTED: 2/6/2017
BY: C:\CloudShare\Company Files\Projects\2015\5041 - C/P Holabird\Drawings\CB.DH\PHASE 2 SITE PLAN.dgn

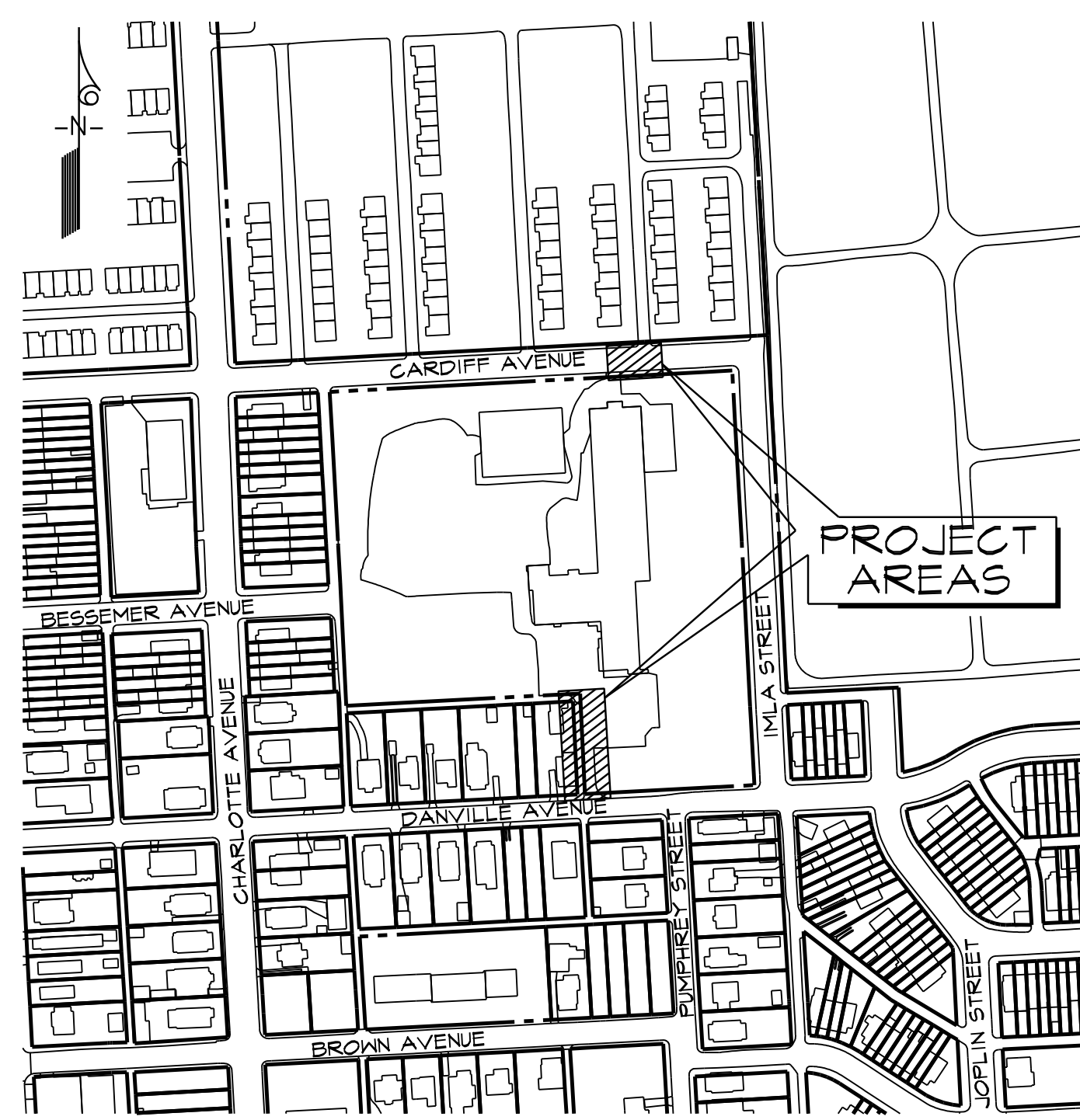
CITY OF BALTIMORE DEVELOPERS AGREEMENT No. 1512



HOLABIRD ACADEMY
1600 IMLA STREET
BALTIMORE, MD 21224

INDEX OF DRAWINGS

1. TITLE SHEET
2. CARDIFF AVENUE ROAD PLAN
3. DANVILLE AVENUE ROAD PLAN
4. STREET LIGHT PLAN
5. WATER METER PLAN



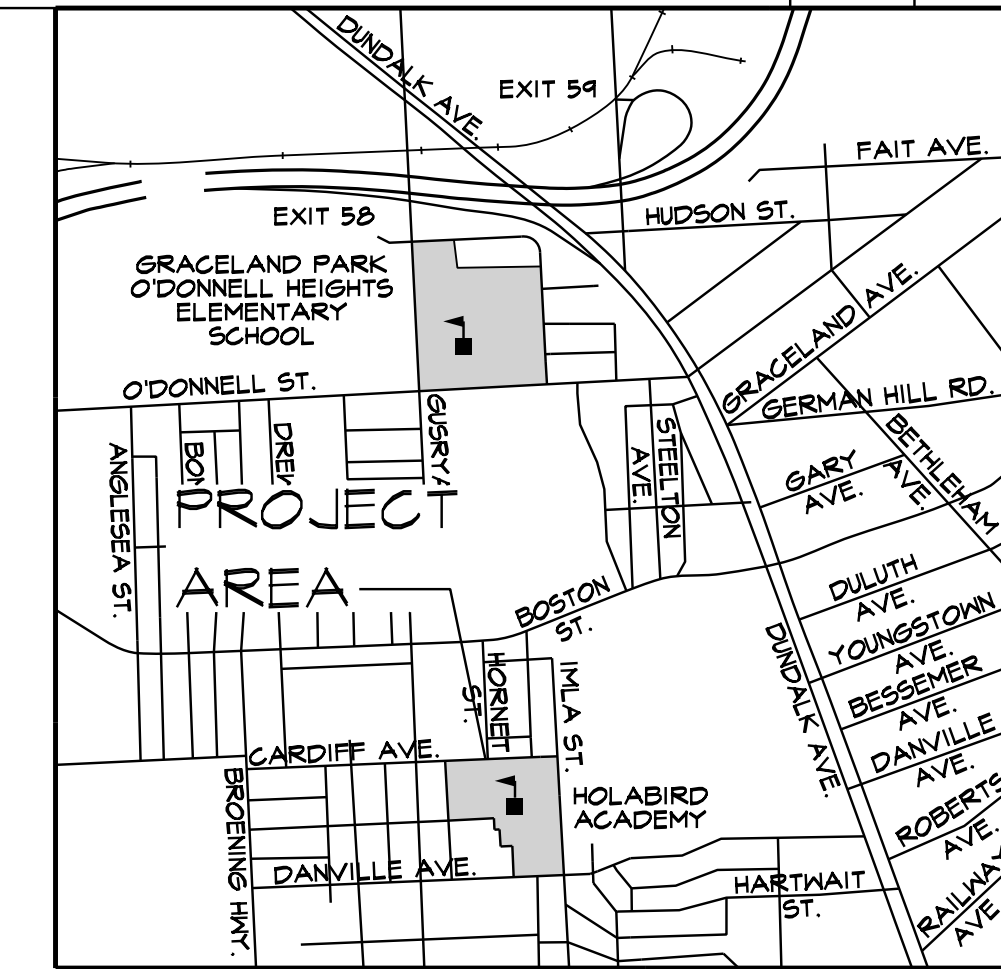
VICINITY MAP

SCALE: 1" = 500'



(IN FEET)
1 inch = 500 ft.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



VICINITY MAP
SCALE: 1" = 1000'

OWNER: MAYOR & CITY COUNCIL
201 E. BALTIMORE STREET
BALTIMORE, MD 21202

DEVELOPER/APPLICANT: BALTIMORE CITY PUBLIC SCHOOLS
200 E. NORTH AVENUE
BALTIMORE, MD 21202

CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. 1512

HOLABIRD
ACADEMY

TITLE SHEET

SCALE: 1"=10' DATE: FEBRUARY 8, 2017
TRANSPORTATION ENGINEERING AND CONSTRUCTION DIVISION SHEET 1 OF 5

DIRECTOR, DEPARTMENT OF TRANSPORTATION DATE

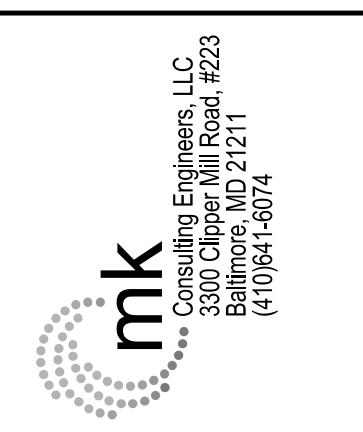
CHIEF, OFFICE OF ENGINEERING AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

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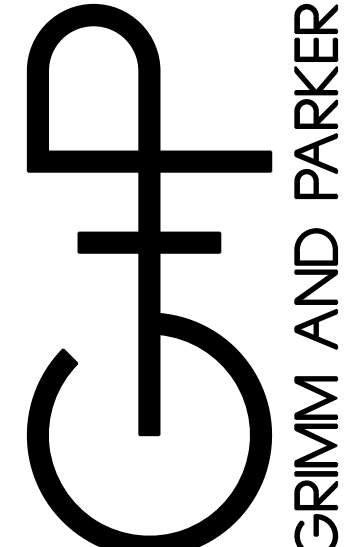


mk CONSULTING ENGINEERS ENGINEER: MARIANNE K. CRAMPTON DATE: ___/___/16 LIC. NO. 25058		WATER PLAT SERVICE ZONE WORKING PRESSURE ... P. S. I. TEST PRESSURE ... P. S. I.		WARD: 26 SECTION: 01 BLOCK: 6799 LOT: 836	
DESTINED:	NW	BALTIMORE CITY REVIEW	R / W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN
DRAWN BY:	SG	BY		STRUCTURAL	DRAINAGE
CHECKED BY:	PC	DATE		LIGHTING	CONDUIT
				EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING
					SIGNAL ENGINEERING
					WASTEWATER ENGINEERING
					WATER ENGINEERING
					TRANSPORTATION ENGINEERING DIVISION



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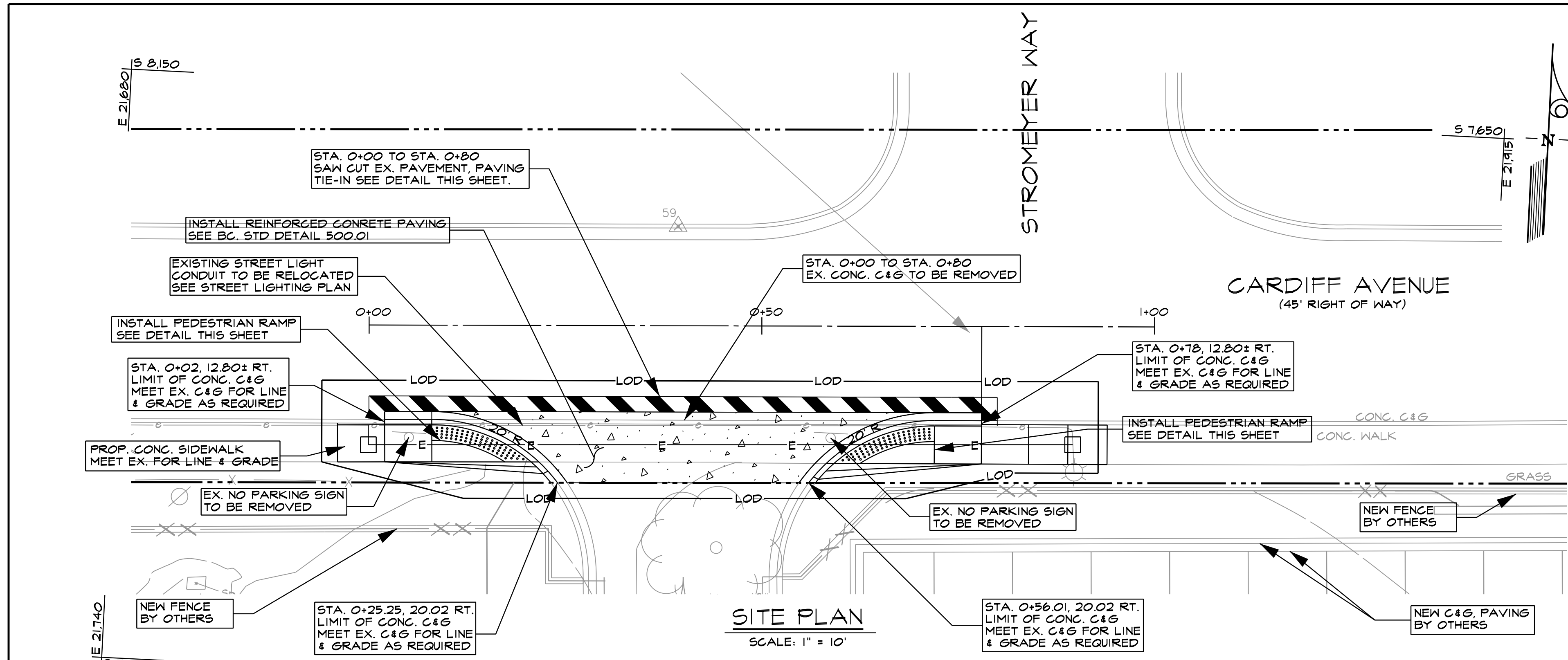


GP# 21553

TITLE SHEET
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

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03/13/2017
BID SET

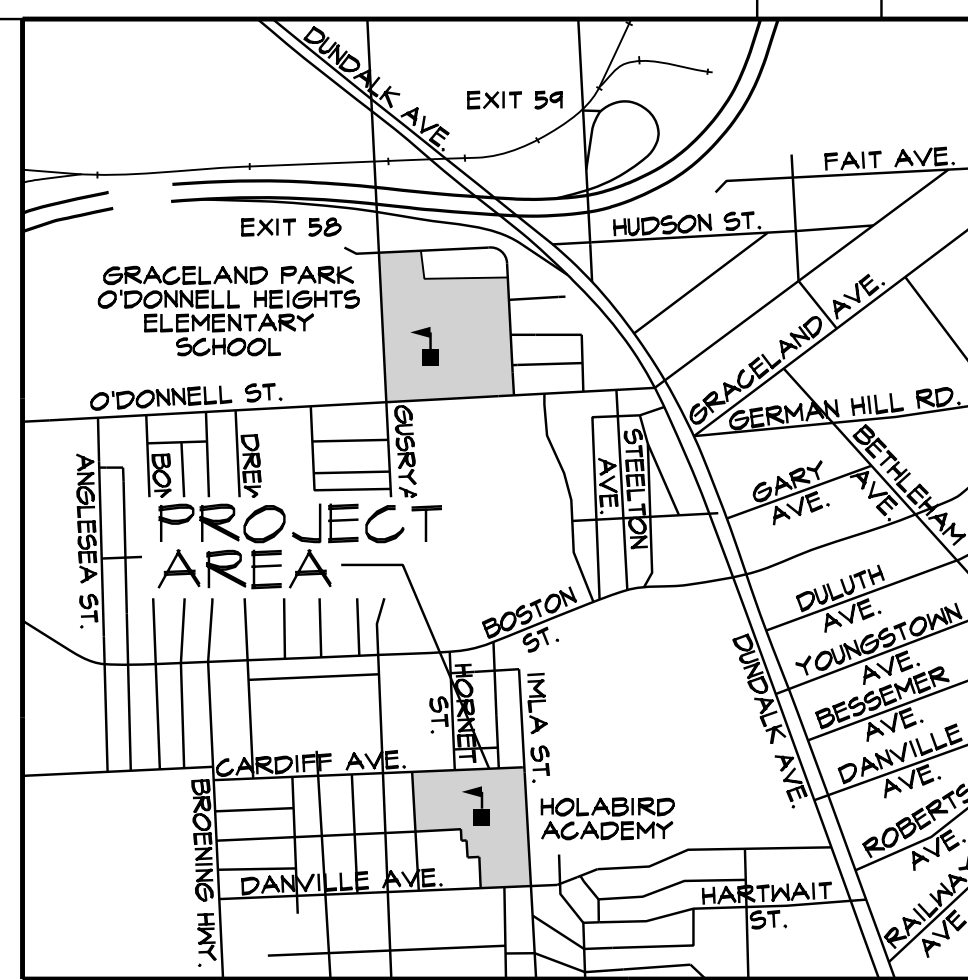


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1+00	-1,676.21	21,871.75

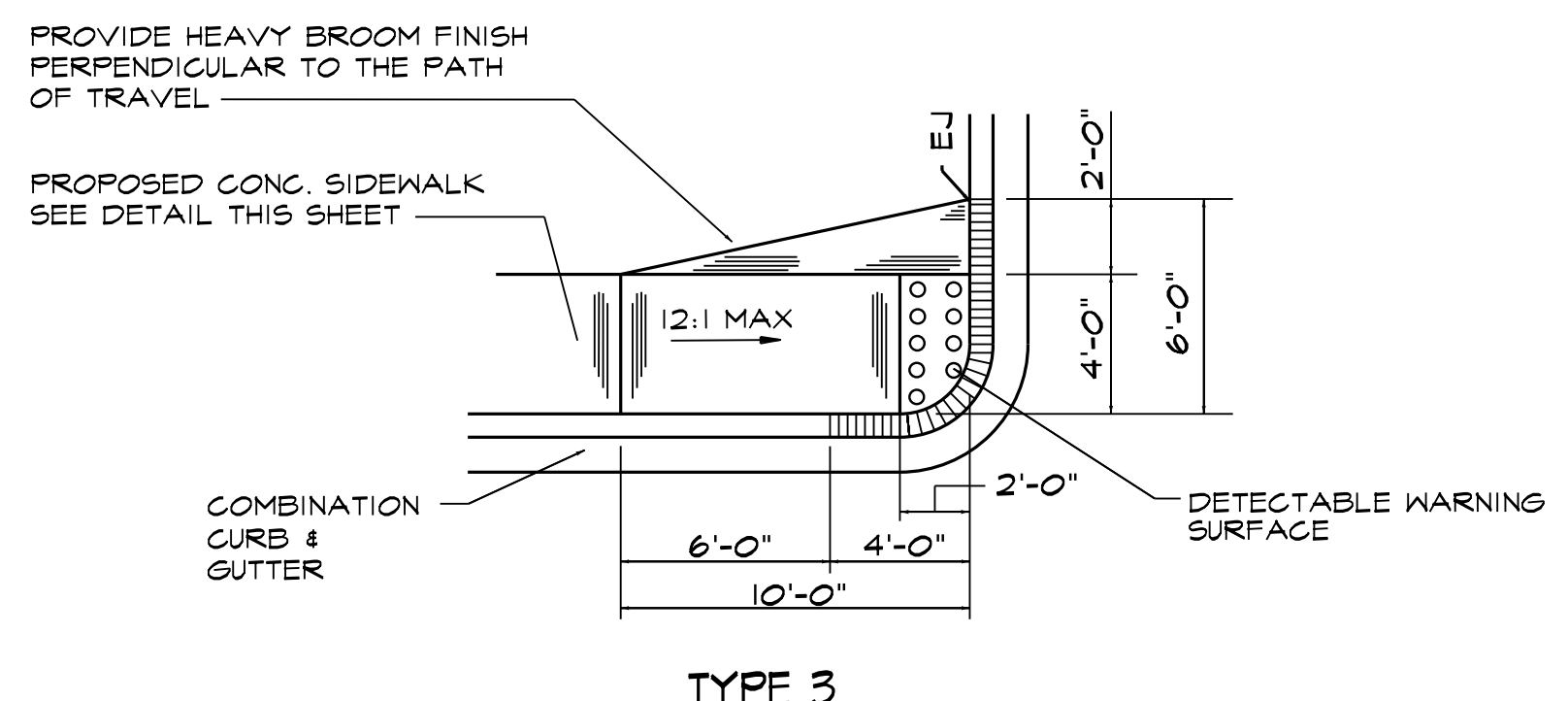
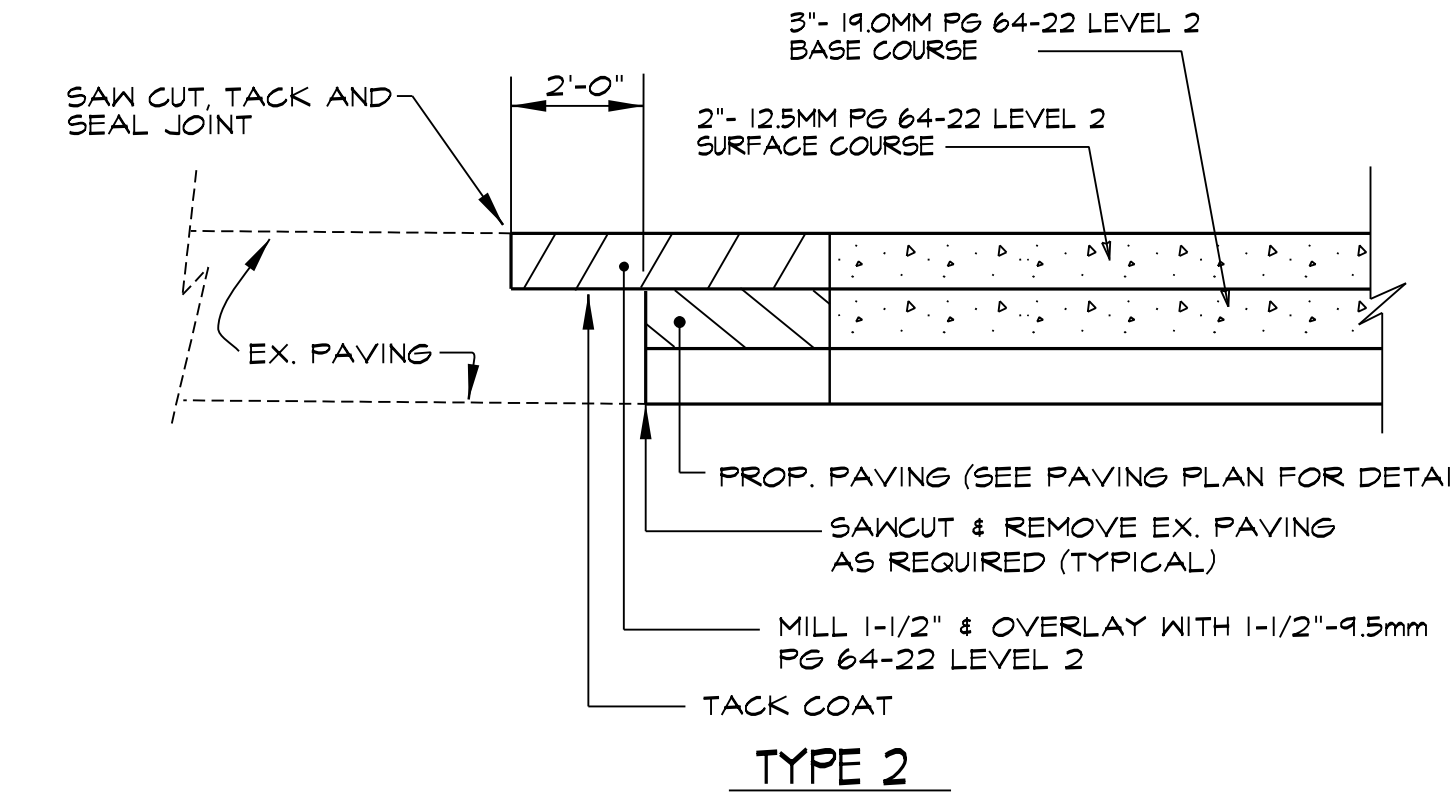
REVISIONS

NO.	DESCRIPTION	DATE	BY



GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" (1-800-257-1171) AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK.
2. CONTRACTOR SHALL PROVIDE A PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
3. EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED ON THE BEST AVAILABLE INFORMATION WHICH INCLUDES FIELD SURVEYS CONDUCTED BY AULTEC INC. CONDUCTED DURING JULY 2015 "AS-BUILT" WATER, WASTEWATER AND STORM DRAIN PLANS FROM BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS, BALTIMORE GAS AND ELECTRIC COMPANY PLANS, AND EXISTING SITE AND UTILITY PLANS PROVIDED BY BALTIMORE CITY PUBLIC SCHOOLS.
4. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION. IN THE EVENT THAT INFORMATION IS IN CONFLICT WITH INFORMATION OUTLINED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT PRIOR TO STARTING ANY WORK.
5. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON BALTIMORE CITY GIS AND A FIELD SURVEY CONDUCTED BY AULTEC INC., MARCH 2016.
6. REMOVAL OF ANY SIDEWALK AND/OR CURB AND GUTTER SHALL BE TO THE NEAREST JOINT. NO PATCHING SHALL BE PERMITTED.
7. ADJUST TOP OF CURB GRADES TO PROVIDE SMOOTH TRANSITION.
8. SAWCUT EXISTING PAVING AS NEEDED TO INSTALL NEW CONSTRUCTION.
9. STRIP AND RESURFACE EXISTING PAVING AS NEEDED TO PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE.
10. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
13. THE CONTRACTOR SHALL NOTE THAT IN CASE OF ANY DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
14. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL TIE-IN ELEVATIONS.
15. STRUCTURAL FILL IN BUILDINGS AND PAVEMENT AREAS SHALL BE PLACED IN HORIZONTAL EIGHT-INCH MAXIMUM LOOSE LIFTS AT A MOISTURE CONTENT WHICH IS NO MORE THAN 3 PERCENTAGE POINTS ABOVE OR 3 PERCENTAGE POINTS BELOW THE OPTIMUM MOISTURE CONTENT ESTABLISHED FOR THE MATERIAL PER ASTM D-957. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
16. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE SUB-GRADE UNTIL IT RECEIVES FINAL SURFACE TREATMENT AND SHALL MAINTAIN THE SUB-GRADE AS SUITABLE AND ACCEPTABLE TO THE OWNER OR OWNER'S REPRESENTATIVE AT ALL TIMES. HE SHALL BE COMPLETELY RESPONSIBLE FOR THE RESTORATION OR REPLACEMENT OF THE SUB-GRADE DUE TO MOISTURE DAMAGE, CONSTRUCTION TRAFFIC, OR ANY OTHER CAUSE. REPAIR OR REPLACEMENT OF THE SUB-GRADE SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
17. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST BALTIMORE CITY STANDARD DETAILS AND SPECIFICATIONS AND ALL REVISIONS THERETO, UNLESS OTHERWISE NOTED.
18. CONTRACTOR SHALL ADJUST ALL FRAMES, GRATES AND COVERS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE CONTRACT TO THE PROPOSED GRADES, AS REQUIRED.
19. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO SHALES AND/ OR STORM DRAIN SYSTEMS AT ALL TIMES.
20. PAVING REPAIR SHALL BE IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAIL BC 576.19.
21. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL SITE ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE ADA 2010 STANDARDS FOR ACCESSIBLE DESIGN OR MOST CURRENT.



- NOTES:**
1. SURFACE TEXTURE OF RAMPS SHALL BE COARSE BROOMING OR NON SKID SURFACE.
 2. SEE BALTIMORE CITY STANDARD DETAILS BC 655.11, 655.12 & 655.13 FOR ADDITIONAL INFORMATION.
 3. DETECTABLE WARNING AREAS SHALL BE SQUARE PATTERN RED MASONRY UNITS. PARALLEL ALIGNMENT. SEE BALTIMORE CITY STANDARD DETAIL BC 655.40 FOR ADDITIONAL INFORMATION.
 4. SEE DEPRESSED CURB AND GUTTER AT PEDESTRIAN RAMP DETAIL, SHEET C1.4.

LEGEND

- RIGHT-OF-WAY
- 150- EX. INDEX CONTOUR
- 152- EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- EX. GAS
- 12" EX. STORM DRAIN
- 8" EX. SANITARY SEWER
- 8" EX. WATER
- II EX. WATER VALVE
- III EX. FIRE HYDRANT
- O EX. MANHOLE
- CO EX. CLEANOUT
- E EX. SIGN
- LP EX. POWER POLE
- EX. LIGHT POLE
- LOD --- LIMIT OF DISTURBANCE
- E --- PROP. 1-3" CONC. ENCASED CONDUIT
- PROP. ELECTRICAL HANDBOX

MK CONSULTING ENGINEERS

ENGINEER: MARIANNE K. CRAMPTON
DATE: ___/___/16 LIC. NO. 25058

DESTIGNED: NW
DRAWN BY: SG
CHECKED BY: PC

WATER PLAT
SERVICE ZONE
WORKING PRESSURE ... P. S. I.
TEST PRESSURE ... P. S. I.

WARD: 26
SECTION: 01
BLOCK: 6799
LOT: 036

BALTIMORE REVIEW	DATE	BY	DATE

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 25058 EXPIRATION DATE: 11-17-2018



CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. 1512

HOLABIRD ACADEMY

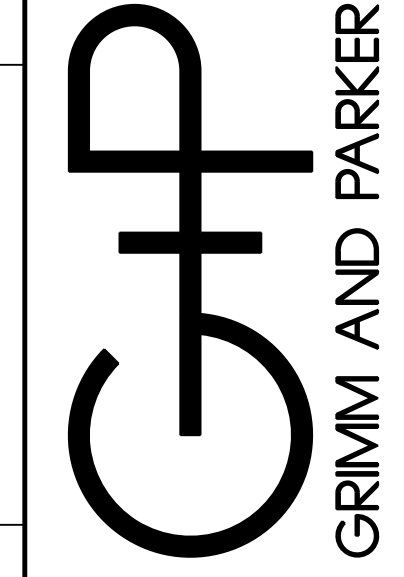
CARDIFF AVE. ROAD PLAN

SCALE: 1" = 10'
DATE: FEBRUARY 8, 2017

TRANSPORTATION ENGINEERING AND CONSTRUCTION DIVISION SHEET 2 OF 5

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 25058 EXPIRATION DATE: 11-17-2018

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com

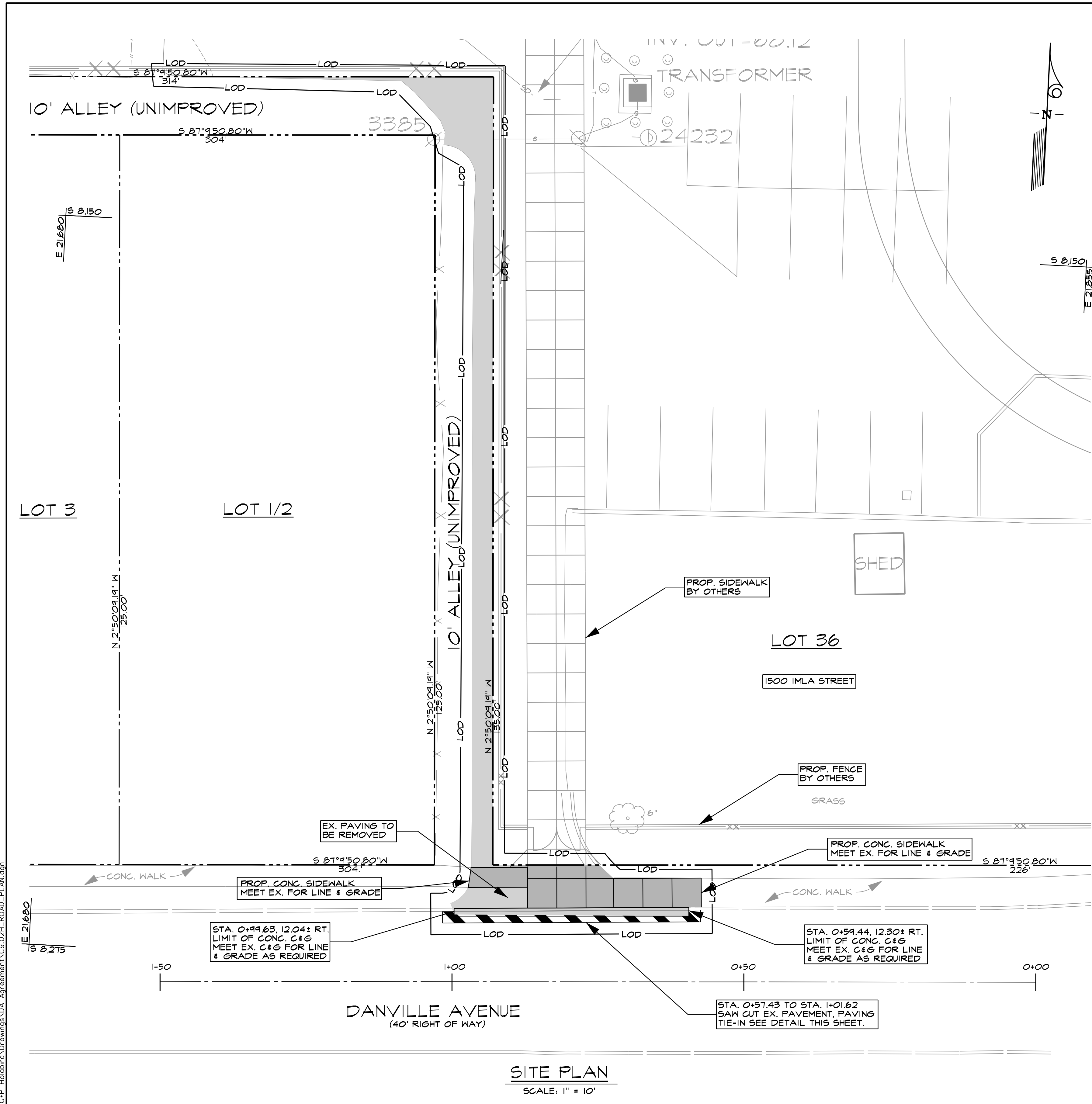


GP# 21553

CARDIFF AVENUE ROAD PLAN
HOLABIRD ACADEMY
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

C9.01H
03/13/2017
BID SET

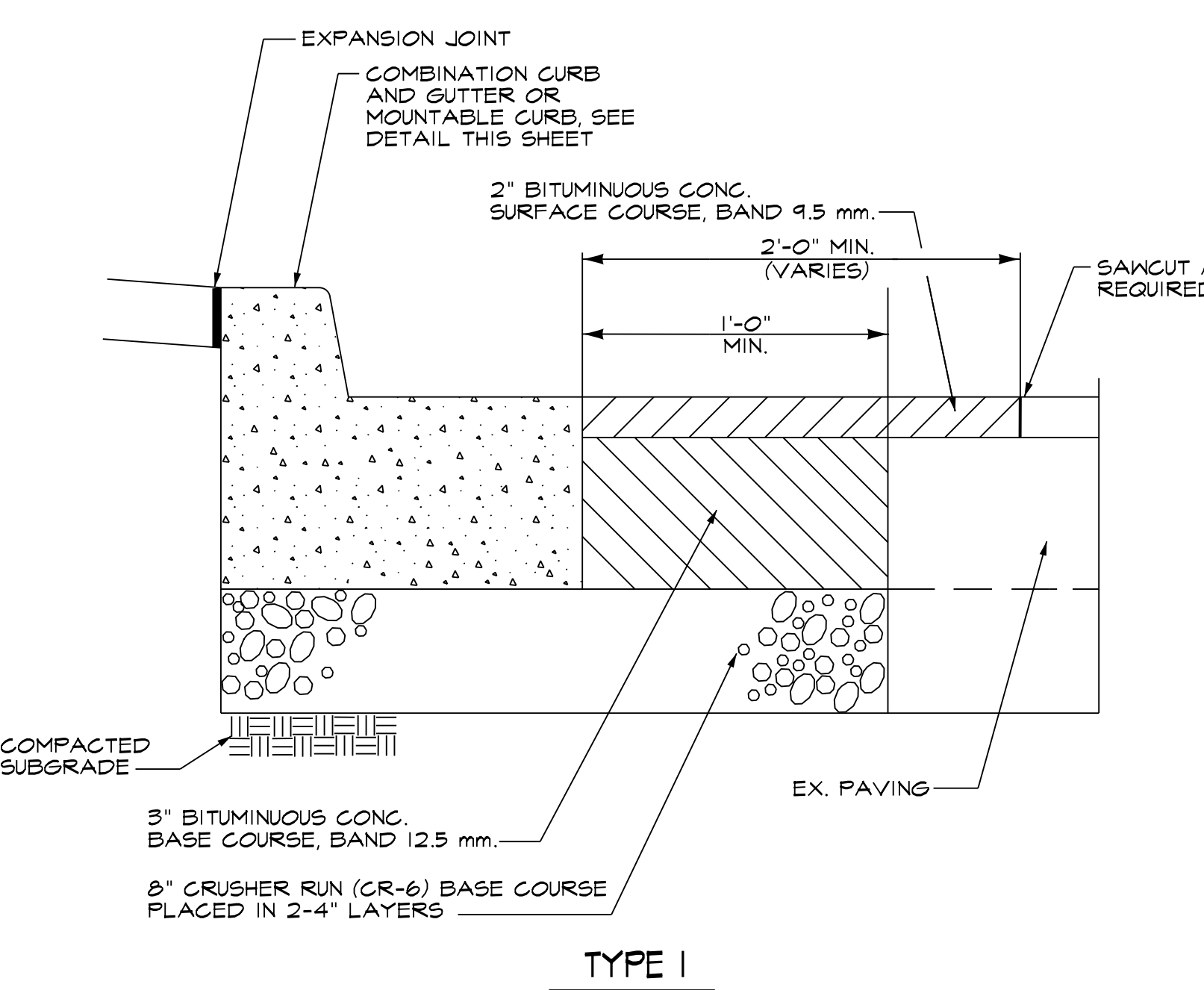
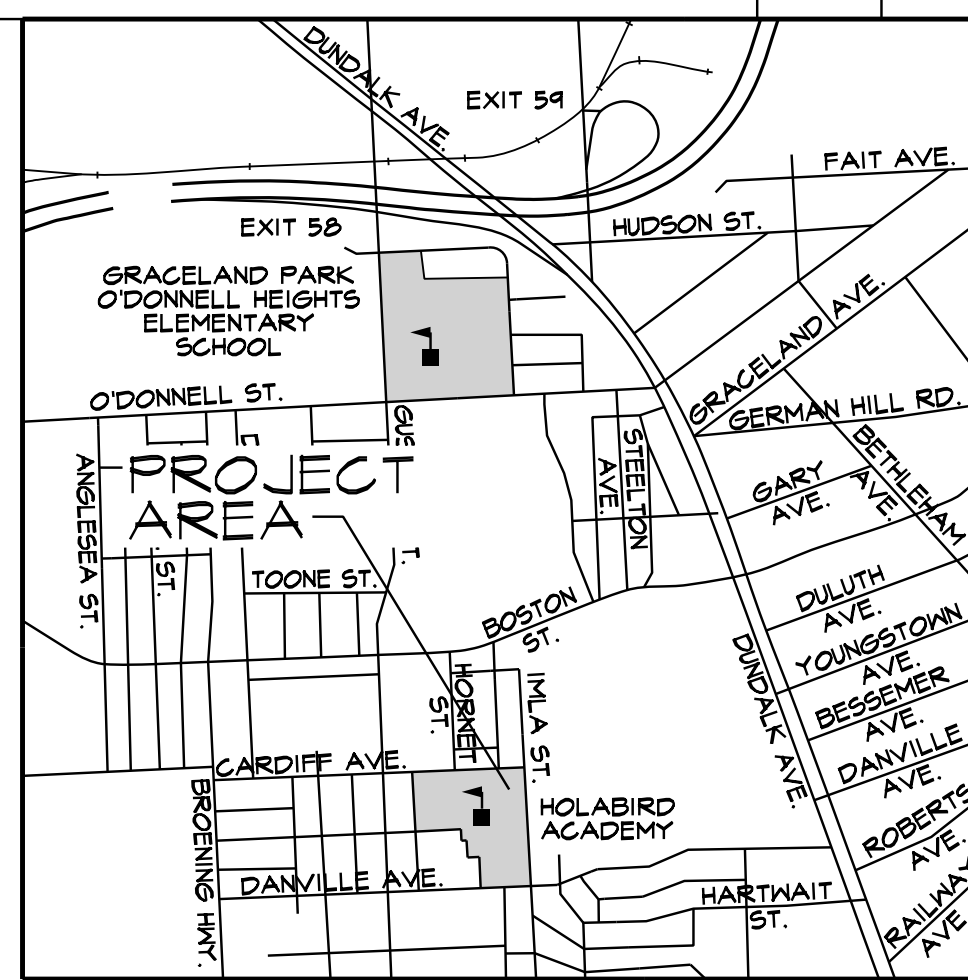


REVISIONS			
NO.	DESCRIPTION	DATE	BY

BASELINE DATA		
STATION	NORTHING	EASTING
0+00	-7681.01	21771.87
1+00	-7676.21	21871.75

SYMBOLS

- APPROXIMATE LIMIT OF PROPOSED CONCRETE SIDEWALK, SEE DETAIL BC 655.05
- APPROXIMATE LIMIT OF EXISTING PAVING TO BE REMOVED
- STANDARD TYPE 'A' COMBINATION CURB & GUTTER, BC-620.11.
- PAVING TIE-IN TYPE I, SEE DETAIL THIS SHEET



LEGEND

- RIGHT-OF-WAY
- 150- EX. INDEX CONTOUR
- 152- EX. INTERMEDIATE CONTOUR
- EX. CURB AND GUTTER
- EX. GAS
- 12" D EX. STORM DRAIN
- 8" SAN EX. SANITARY SEWER
- 8" W EX. WATER
- W EX. WATER VALVE
- H EX. FIRE HYDRANT
- O EX. MANHOLE
- CO EX. CLEANOUT
- S EX. SIGN
- LP EX. POWER POLE
- LP EX. LIGHT POLE
- LOD LIMIT OF DISTURBANCE

DIRECTOR, DEPARTMENT OF TRANSPORTATION DATE

CHIEF, OFFICE OF ENGINEERING AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

CITY OF BALTIMORE
DEVELOPER'S AGREEMENT NO. 1512

HOLABIRD ACADEMY

DANVILLE AVE. ROAD PLAN

SCALE: 1" = 10' DATE: FEBRUARY 8, 2017

TRANSPORTATION ENGINEERING AND CONSTRUCTION DIVISION SHEET 5 OF 5

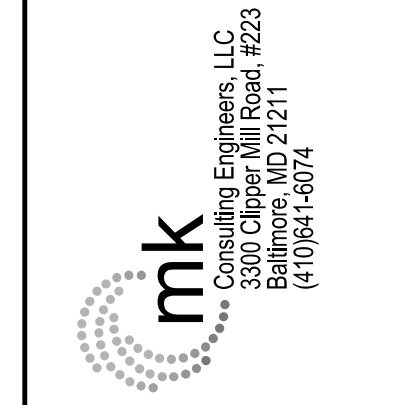
mk CONSULTING ENGINEERS

ENGINEER: MARIANNE K. CRAMPTON
DATE: ___/___/16 LIC. NO. 25058

DESIGNED: NW
DRAWN BY: SC
CHECKED BY: PC

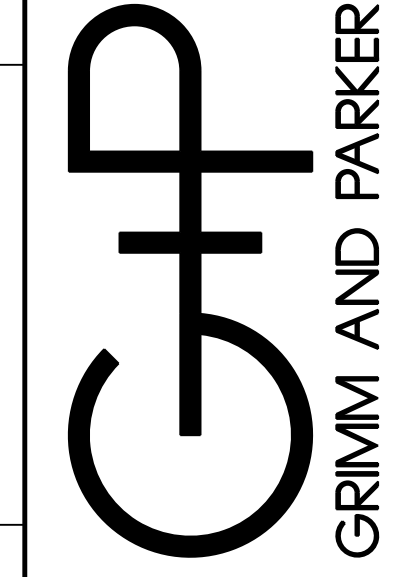
WATER PLAT	WARD: 26
SERVICE ZONE	SECTION: 01
WORKING PRESSURE: P. S. I.	BLOCK: 6799
TEST PRESSURE: P. S. I.	LOT: 836

BALTIMORE CITY REVIEW	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	TRANSPORTATION ENGINEERING DIVISION
BY	DATE											



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 25058 EXPIRATION DATE 11-17-2018

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GP# 21553

DANVILLE AVENUE
ROAD PLAN
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

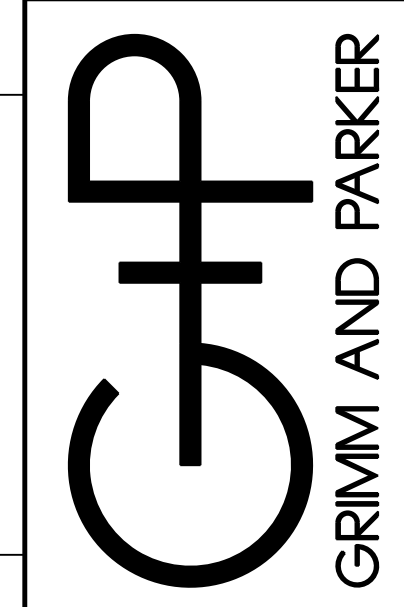
DATE	DESCRIPTION

C9.02H
03/13/2017
BID SET



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE
 DOCUMENTS WERE PREPARED OR
 APPROVED BY ME AND THAT I AM
 A FULLY LICENSED PROFESSIONAL
 ENGINEER UNDER THE LAWS OF
 THE STATE OF MARYLAND
 LICENSE NO. 25058
 EXPIRATION DATE 11-17-2018

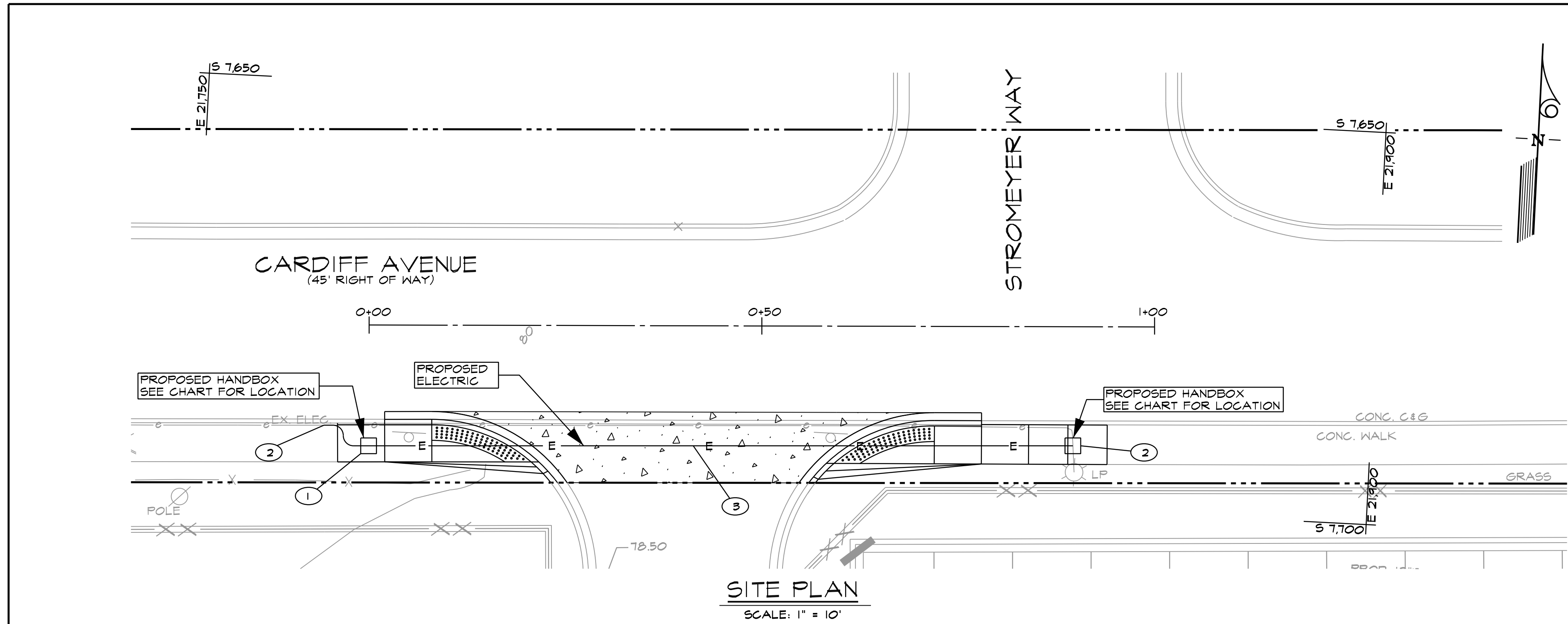
11720 Beltsville Drive
 Suite 600
 Calverton, MD 20705
 Tel: 301.595.1000
 www.grimmandparker.com



GP# 21553

STREET LIGHT PLAN
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

C9.03H
 03/13/2017
 BID SET



BASELINE DATA		
STATION	NORTHING	EASTING
0+00	-7681.01	21,771.87
1+00	-7676.21	21,871.75

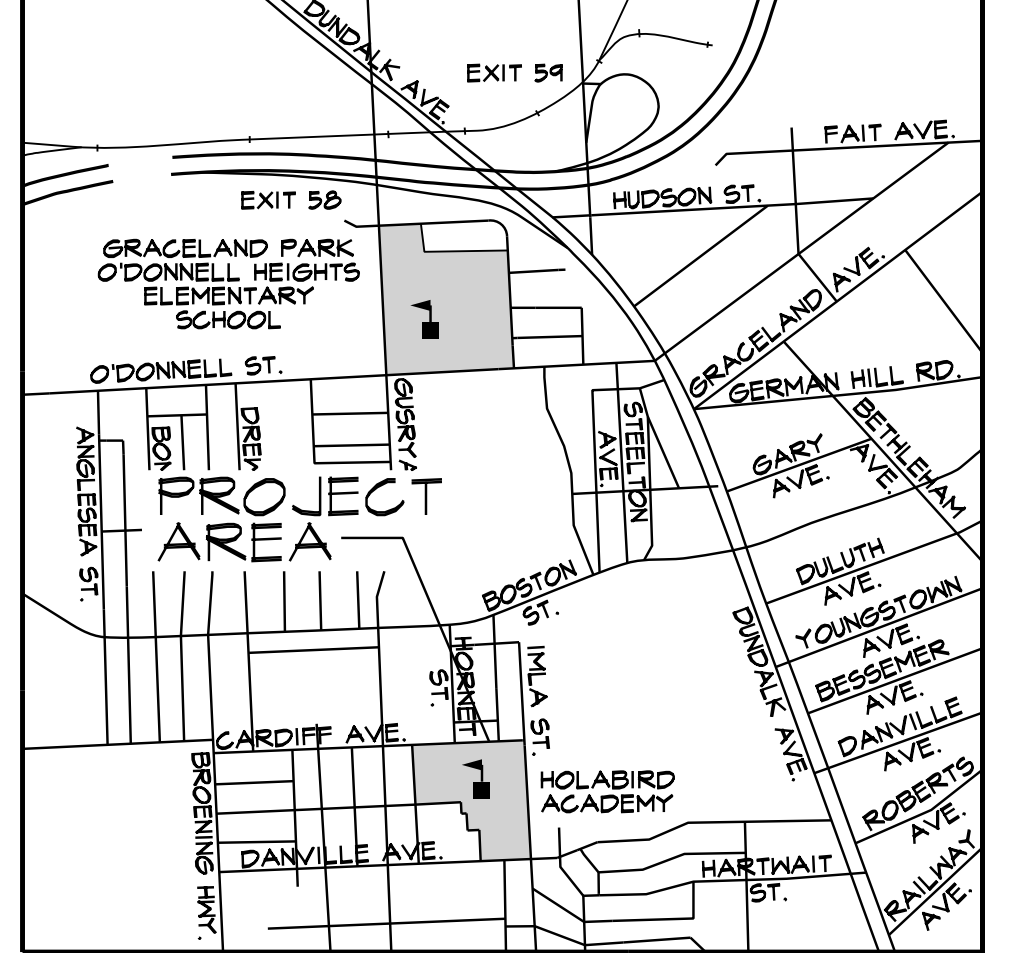
HANDBOXES		
STATION	OFFSET	LOCATION
0+00	15.00 RT	CARDIFF AVENUE
0+89.64	15.00 RT	CARDIFF AVENUE

NOTE: CONTRACTOR SHALL TEST PIT FOR DEPTH AND LOCATION OF EXISTING STREET LIGHT CABLE PRIOR TO DOING ANY WORK.

CONSTRUCTION NOTES

- 1. INSTALL NEW HANDBOX PER BG-804.01 AT LOCATION SHOWN ON CHART
- 2. CUT EXISTING CONDUIT AND INSTALL 1-3" CONCRETE ENCASED CONDUIT TO HANDBOX
- 3. INSTALL 1-3" CONCRETE ENCASED PVC CONDUIT PER BG-824.01-I FROM HANDBOX TO HANDBOX

REVISIONS			
NO.	DESCRIPTION	DATE	BY



- TRAFFIC NOTES**
1. THE CONTRACTOR SHALL CONTACT MR. ROBERT E. FERGUSON OF THE DEPARTMENT OF TRANSPORTATION AT (443) 864-2159 TWO (2) WEEKS BEFORE CONSTRUCTION BEGINS AND ONE (1) WEEK PRIOR TO ANY CHANGES TO THE MAINTENANCE OF TRAFFIC (MOT) PLAN.
 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT.
 3. NO WORK, LANE CLOSURES OR DISRUPTIONS OF TRAFFIC ARE PERMITTED BETWEEN THE HOURS OF 6:00 AM AND 9:00 AM AND 3:00 PM AND 6:00 PM WEEKDAYS. THE FULL WIDTH OF ROADWAY SHALL BE OPEN TO TRAFFIC AT THE END OF EACH WORKDAY.
 4. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION AND REVISIONS OF THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) WORK ZONE TRAFFIC CONTROL STANDARDS AND THE CITY OF BALTIMORE BOOK OF STANDARDS.
 5. THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL LOCAL BUSINESSES AND RESIDENCES.
 6. THE CONTRACTOR SHALL CONTACT THE PARKING METER DIVISION (443) 573-2851 PRIOR TO ANY WORK AROUND PARKING METERS.
 7. THE CONTRACTOR SHALL MAINTAIN A MINIMUM FOUR FOOT (4') WIDE PEDESTRIAN FOOTWAY OR IMPLEMENT AN APPROPRIATE PEDESTRIAN DETOUR WHILE ACTIVELY WORKING IN THE SIDEWALK IN ACCORDANCE WITH ADA GUIDELINES AND APPROPRIATE SHA STANDARDS (MD 104.06.5A THROUGH D).
 8. IN ORDER TO WORK IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR MUST OBTAIN PERMITS FROM THE DEPT. OF GENERAL SERVICES. APPLICATIONS FOR PERMITS ARE ACCEPTED AT THE D.P.A. PERMIT DIVISION IN THE ABEL WOLMAN MUNICIPAL BUILDING, 200 N. HOLIDAY STREET, IN ROOM 6, PHONE (410) 396-6869 (OR 4503). DURING THE PERMIT REVIEW THE CONTRACTOR MAY BE BILLED ADDITIONAL TRAFFIC INSPECTION FEES NOT RELATED TO ANY PREVIOUS COSTS.
 9. ALL EXCAVATIONS AND TRENCHES SHALL BE PLATED AT THE END OF EACH WORKDAY AND STEEL PLATES AHEAD WARNING SIGNS DISPLAYED IN ADVANCE.
 10. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN EXISTING SIGNALS, ALL LIGHTING AND CONDUIT FACILITIES DURING CONSTRUCTION. CALL STREET LIGHTING MAINTENANCE AT (410) 396-4446 AT LEAST TEN (10) DAYS PRIOR TO STARTING WORK.
 11. THE CONTRACTOR MUST MAINTAIN LOCAL TRAFFIC AT ALL TIMES.
 12. THE CONTRACTOR IS RESPONSIBLE FOR ANY SIGNING AND PAVEMENT MARKINGS DAMAGED OR DESTROYED DURING CONSTRUCTION, INCLUDING THOSE OUTSIDE THE PROJECT LIMITS.
 13. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY TEMPORARY 'NO STOPPING' PROHIBITION SIGNING THAT WILL BE NECESSARY TO COMPLETE THIS PROJECT.
 14. THE CONTRACTOR MUST MAINTAIN A MINIMUM OF THREE (3) TRAVEL LANES ON LIGHT STREET AND E BALTIMORE STREET AND ONE (1) LANE PER DIRECTION ON E. REDWOOD STREET AT ALL TIMES.
 15. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONSTRUCTION THAT MAY BE IN THE VICINITY OF THE LIMITS OF CONSTRUCTION. THE CONTRACTOR MUST ENSURE THAT TRAFFIC CONTROL FOR MULTIPLE WORK ZONES IN THE SAME AREA, INCLUDING THOSE ESTABLISHED BY OTHERS, ARE NOT IN CONFLICT AND SHALL MAINTAIN TRAFFIC IN A MANNER ACCEPTABLE TO THE DEPARTMENT OF TRANSPORTATION.

- UTILITY NOTES**
1. STREET LIGHTING CABLES AND POLES SHALL BE PROTECTED AND SERVICE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL CALL BGE (410-281-3507) AT LEAST TWO (2) DAYS PRIOR TO ANY EXCAVATION.
 2. CONDUIT EXISTS WITHIN THE WORK AREA. CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND INSTALLING THE NEW UTILITY. CONTRACTOR SHALL CALL CONDUIT MAINTENANCE (410-396-1515) PRIOR TO STARTING WORK.
 3. IF THE CONTRACTOR UNCOVERS OR DAMAGES A STREET LIGHT CONDUIT OR CABLE DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO NOTIFY STREET LIGHTING MAINTENANCE (410-396-4446) AND BGE IMMEDIATELY. STREET LIGHTING MAINTENANCE WOULD EFFECT REPAIRS OR DIRECT BGE TO MAKE SAFE CONDITIONS AND/OR REPLACE CABLE PRIOR TO RESUMING CONSTRUCTION. ALL SUCH REPAIRS SHALL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.
 4. THE CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AS PER BALTIMORE CITY STANDARDS IF THE EXISTING LIGHTING CANNOT BE MAINTAINED IN SERVICE DURING CONSTRUCTION.
 5. THE COST OF REQUIRED STREET LIGHTING ADJUSTMENTS OR IMPROVEMENTS ARE TO BE PAID BY THE DEVELOPERS.
 6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS' SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES, EXISTING UTILITIES AND INCIDENTAL STRUCTURES (STANDARD SPECIFICATION) AND CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS.
 7. EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FOR THE CONVINCE OF THE CONTRACTOR AND ARE NOT WARRANTED OR GUARANTEED BY THE CITY OR THE ENGINEER TO BE COMPLETE OR CORRECT. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS OWN SATISFACTION.
 8. BEFORE DOING ANY DIGGING, NOTIFY THE FOLLOWING:
 "MISS UTILITY" AT 800-251-7111 (NOTIFY 3 DAYS PRIOR TO WORK).
 DEPT. OF TRANSPORTATION, STREET LIGHTING SECTION AT 410-396-4446 (NOTIFY 2 WEEKS PRIOR TO WORK).
 DEPT. OF TRANSPORTATION, CONDUIT SECTION AT 410-396-1515 (NOTIFY 15 DAYS PRIOR TO WORK).
 VERIZON AT 800-837-4966 (NOTIFY 3 DAYS PRIOR TO WORK).

- STREET LIGHT NOTES**
1. UNLESS OTHERWISE NOTED, ALL STREET LIGHTING RELATED WORK SHALL BE IN ACCORDANCE WITH THE CITY OF BALTIMORE'S DEPARTMENT OF PUBLIC WORKS' CONSTRUCTION SPECIFICATIONS, 'BOOK OF STANDARDS', THE BUILDING CODE OF BALTIMORE CITY, AND THE UTILITY CONSTRUCTION PLANS.
 2. FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR MUST OBTAIN PERMITS FROM THE DEPARTMENT OF PUBLIC WORKS PERMITS DIVISION, ABEL WOLMAN MUNICIPAL BUILDING, 1ST FLOOR, 200 NORTH HOLIDAY STREET, BALTIMORE, MARYLAND, 21202, PHONE (410) 396-6869 OR (410) 396-4508.
 3. BALTIMORE CITY'S DEPARTMENT OF TRANSPORTATION MAINTENANCE DIVISION MAINTAINS STREET LIGHTING POLES AND THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) MAINTAINS STREET LIGHT CABLES IN THE AREA. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN ALL EXISTING LIGHTING INFRASTRUCTURE, CIRCUIT CONTINUITY AND CONDUIT FACILITIES DURING CONSTRUCTION.
 4. THE CONTRACTOR IS REQUIRED TO NOTIFY BGE AND BALTIMORE CITY STREET LIGHTING MAINTENANCE ENGINEERS SECTION AT (410) 396-4446 TWO (2) WEEKS PRIOR TO STARTING ANY WORK.
 5. IF THE CONTRACTOR UNCOVERS OR DAMAGES A STREET LIGHT, CONDUIT OR CABLE DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO NOTIFY STREET LIGHTING MAINTENANCE INSPECTIONS AT (410) 396-4446 AND BGE IMMEDIATELY. STREET LIGHTING MAINTENANCE WOULD EFFECT REPAIRS OR DIRECT BGE TO MAKE SAFE CONDITIONS AND/OR REPLACE CABLES PRIOR TO RESUMING CONSTRUCTION. ALL SUCH REPAIRS SHALL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.
 6. IF THE EXISTING LIGHTING SYSTEM CANNOT BE MAINTAINED IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY LIGHTING IN ACCORDANCE WITH BALTIMORE CITY STANDARDS UNTIL THE PERMANENT LIGHTING IS INSTALLED AND IN SATISFACTORY OPERATION. THE TOTAL COST OF MATERIALS AND LABOR FOR STREET LIGHTING WORK, INCLUDING BGE CABLE CONNECTION WORK SHALL BE BORNE BY THE CONTRACTOR.
 7. IN AREAS WHERE THE CONTRACTOR IS TO REMOVE THE FOOTWAY WHERE BURIED CABLE IS PRESENT, THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH BGE AT (410) 470-6144. BGE MAY ELECT TO INSTALL NEW CABLE PRIOR TO THE INSTALLATION OF THE NEW FOOTWAY.
 8. COORDINATION FOR BGE STREET LIGHTING CONSTRUCTION SERVICES REQUIRES THAT THE LATEST RED-LINED OR UPDATED DRAWINGS (AS IT PERTAINS TO STREET LIGHTING INFRASTRUCTURE) ARE PROVIDED ELECTRONICALLY TO BALTIMORE CITY'S TRANSPORTATION MAINTENANCE DIVISION. IF APPLICABLE, THE MARKED UP DRAWINGS SUBMITTED WILL SERVE AS THE BASIS FOR DETERMINING THE PROBABLE COST ESTIMATE FOR BGE SERVICES. CONTRACTOR SHALL CONTACT STREET LIGHTING MAINTENANCE (410) 396-4446, AT LEAST 10 WORK DAYS PRIOR TO STARTING ANY WORK.
 9. CONTRACTOR SHALL CONTACT CONDUIT MAINTENANCE INSPECTIONS AT 410-396-1515 THREE (3) DAYS BEFORE START OF CONSTRUCTION. CABLE INSTALLATION BY BGE WILL NOT BE CARRIED OUT WITHOUT COMPLETION OF AN INSPECTION BY CONDUIT MAINTENANCE.

GENERAL NOTES

1. THE CONTRACTOR IS REQUIRED TO NOTIFY BGE AND BALTIMORE CITY STREET LIGHTING MAINTENANCE AT (410) 396-4446 FOUR WEEKS PRIOR TO STARTING WORK.
2. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN EXISTING STREET LIGHTING FACILITIES INCLUDING CABLE/CONDUIT SYSTEM.
3. IF THE CONTRACTOR UNCOVERS OR DAMAGES A STREET LIGHT CONDUIT OR CABLE DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO NOTIFY STREET LIGHTING MAINTENANCE AT (410) 396-4446 AND BGE IMMEDIATELY. STREET LIGHTING MAINTENANCE WOULD EFFECT REPAIRS OR DIRECT BGE TO MAKE SAFE CONDITIONS AND/OR REPLACE CABLE PRIOR TO RESUMING CONSTRUCTION. ALL SUCH REPAIRS SHALL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.
4. THE CONTRACTOR WOULD BE RESPONSIBLE TO PROVIDE TEMPORARY LIGHTING AS PER BALTIMORE CITY STANDARDS IF THE EXISTING LIGHTS CAN NOT BE MAINTAINED IN SERVICE DURING CONSTRUCTION.
5. CONTACT STREET LIGHTING MAINTENANCE (410) 396-4446 FOR THE COST OF STREET LIGHT WORK TO BE COMPLETED BY BGE.
6. THE CONTRACTOR SHALL INSTALL ALL CONDUITS CONCRETE ENCASED AS PER BALTIMORE CITY STANDARDS WITH 7A PULL ROPE AND INSPECTION COMPLETED IN ORDER FOR BGE CABLE INSTALLATION.
7. THE COST OF REQUIRED STREET LIGHTING OR IMPROVEMENTS IS TO BE PAID FOR BY THE DEVELOPERS.
8. THE EXISTING STREET LIGHT CONDUIT/CABLE MUST BE PROTECTED AND MAINTAINED DURING CONSTRUCTION.
9. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN EXISTING STREET LIGHTING FACILITIES INCLUDING LIGHT FIXTURES, POLES, POLE BASES, AND CONDUIT/CABLE SYSTEM DURING CONSTRUCTION. ANY DAMAGE TO THE STREET LIGHTING SYSTEM SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN COST.
10. CONTACT STREET LIGHTING MAINTENANCE (410) 396-4446 PRIOR TO STARTING ANY DEMO WORK.

LEGEND

- - - - - RIGHT-OF-WAY
- - - - -50'- EX. INDEX CONTOUR
- - - - -52'- EX. INTERMEDIATE CONTOUR
- - - - - EX. CURB AND GUTTER
- +—+— EX. GAS
- +—+— EX. STORM DRAIN
- +—+— EX. SANITARY SEWER
- +—+— EX. WATER
- +—+— EX. WATER VALVE
- +—+— EX. FIRE HYDRANT
- +—+— EX. MANHOLE
- +—+— EX. GLEANOUT
- +—+— EX. SIGN
- +—+— EX. POWER POLE
- +—+— EX. LIGHT POLE
- PROP. HANDBOX
- PROP. ELECTRIC

mk CONSULTING ENGINEERS ENGINEER: MARIANNE K. CRAMPTON DATE: ___/___/16 LIC. NO. 25058		WATER PLAT SERVICE ZONE WORKING PRESSURE ... P. S. I. TEST PRESSURE ... P. S. I.		WARD: 26 SECTION: 01 BLOCK: 6799 LOT: 836	
DESIGNED: NW	BY: SG	DATE: ___/___/16	DATE: ___/___/16	DATE: ___/___/16	DATE: ___/___/16
CHECKED BY: PC	DATE: ___/___/16	DATE: ___/___/16	DATE: ___/___/16	DATE: ___/___/16	DATE: ___/___/16

DIRECTOR, DEPARTMENT OF TRANSPORTATION DATE
 CHIEF, OFFICE OF ENGINEERING AND CONSTRUCTION DATE
 DIRECTOR, DEPARTMENT OF PUBLIC WORKS DATE

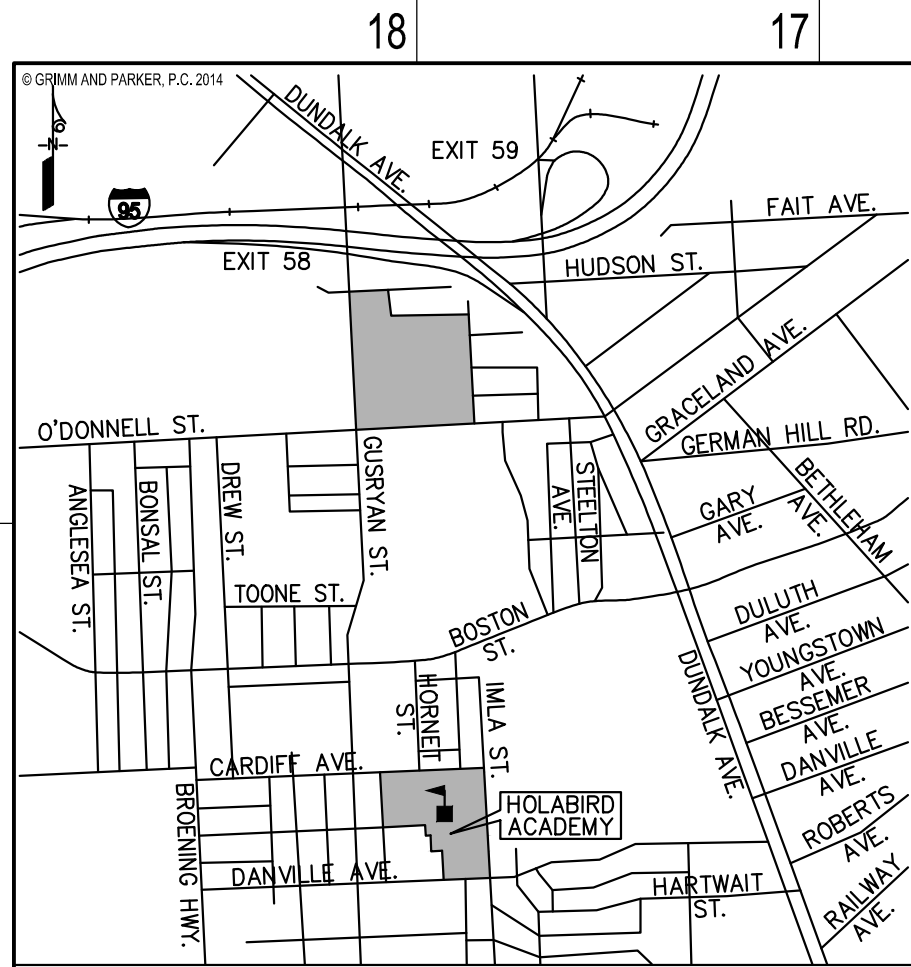
CITY OF BALTIMORE
 DEVELOPER'S AGREEMENT NO. 1512

HOLABIRD ACADEMY

STREET LIGHT PLAN

SCALE: 1" = 10' DATE: FEBRUARY 8, 2017
 TRANSPORTATION ENGINEERING AND CONSTRUCTION DIVISION SHEET 4 OF 5

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 25058 EXPIRATION DATE: 11-17-18



VICINITY PLAN
SCALE: 1" = 1000.00'

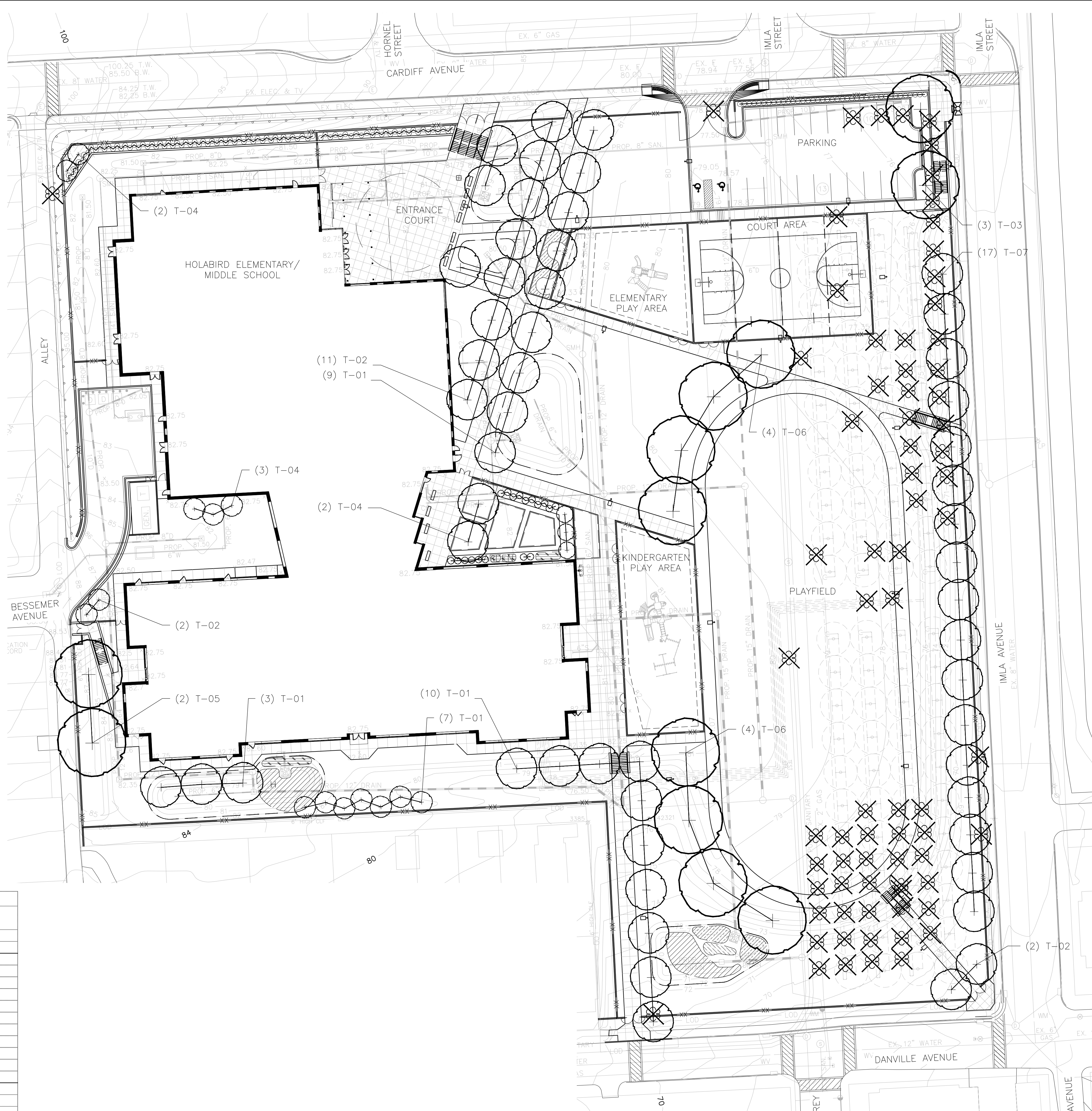
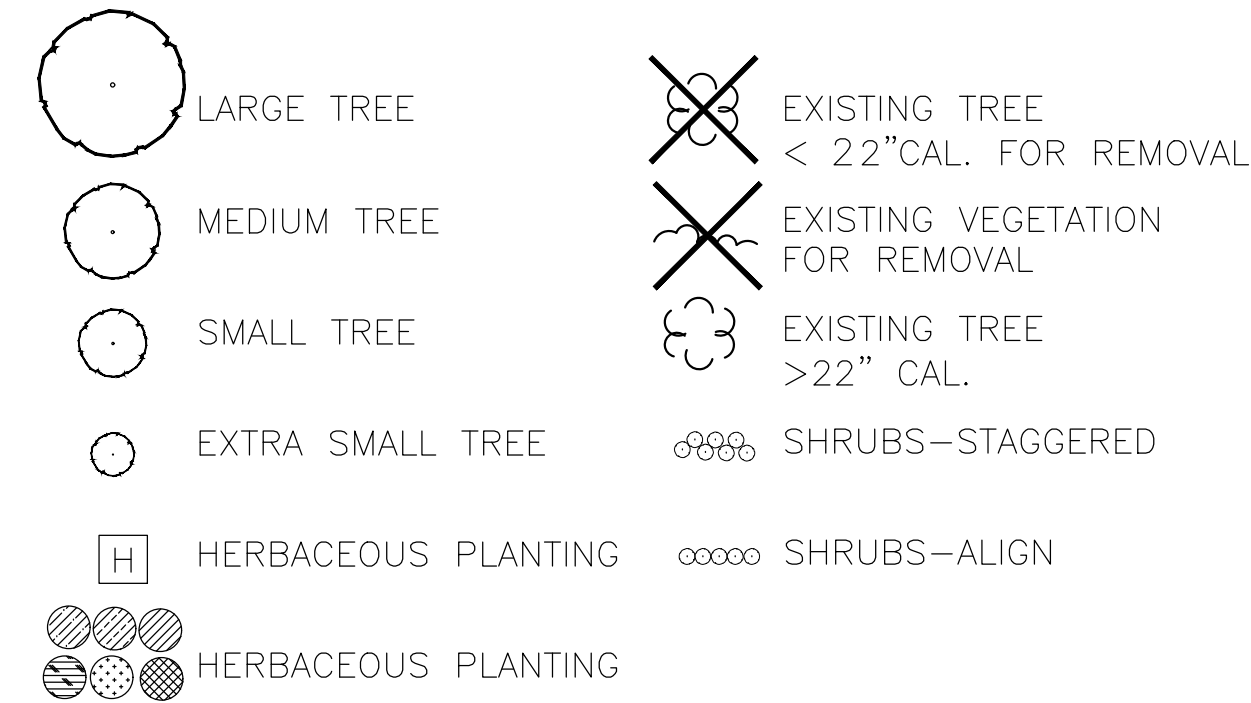
GENERAL NOTES

- QUANTITIES SHOWN ON THE PLANT LIST ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. SYMBOLS ON THE PLAN SHALL TAKE PRECEDENCE.
- PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT.
- PLANT MATERIAL SHALL BE TAGGED AT THE SOURCE BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE UNLESS THE REQUIREMENT IS SPECIFICALLY WAIVED.
- LOCATIONS OF ALL PLANT MATERIAL SHALL BE STAKED BY CONTRACTOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- SHRUB AND GROUND COVER AREAS SHALL BE PLANTED IN CONTINUOUS PREPARED BEDS MULCHED WITH COMPOSTED HARDWOOD AS DETAILED AND SPECIFIED.
- PLANTING BEDS SHALL HAVE POSITIVE DRAINAGE WITH A MINIMUM 2% SLOPE.
- CONTRACTOR SHALL VERIFY ACCURACY OF BASE INFORMATION, EXISTING CONDITIONS, AND UTILITIES IN THE FIELD TO PRIOR TO INSTALLATION OF LANDSCAPE MATERIALS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING PLANTING AND CONSTRUCTION.
- DAMAGE BY THE CONTRACTOR TO EXISTING CONDITIONS AND UTILITIES, SHALL BE REPAIRED AND RESTORED AT THE EXPENSE OF THE CONTRACTOR.
- PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN NURSERY & LANDSCAPE ASSOCIATION'S AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1.

MINIMUM LANDSCAPE MAINTENANCE REQUIREMENTS

- LAWN AREAS SHALL BE MOWED TO A HEIGHT OF 2 TO 3 INCHES AND NOT ALLOWED TO REACH A HEIGHT OF 4 INCHES BEFORE MOWING.
- TURF ADJACENT TO CURBS AND WALKS SHALL BE EDGED AS NEEDED.
- TURF AREAS ADJACENT TO BUILDING FACES OR STRUCTURES SHALL BE TRIMMED.
- A SLOW RELEASE NITROGEN BALANCED FERTILIZER WITH A 2-1-1 RATIO SHALL BE APPLIED AT A RATE OF 2 POUNDS OF NITROGEN PER 1000 SQUARE FEET IN SEPTEMBER, OCTOBER, AND FEBRUARY.
- LIME SHALL BE APPLIED AT THE RATE DETERMINED BY A SOILS REPORT.
- LAWN AREAS SHALL BE TREATED IN MID-MARCH TO EARLY APRIL WITH PRE-EMERGENT HERBICIDE (BETASAN) OR EQUAL APPLIED AT THE MANUFACTURER'S RATES AND RECOMMENDATIONS.
- APPLICATION OF A POST-EMERGENT (TRIMEC) OR EQUAL SHALL BE SPRAYED ON LAWN AREAS IN THE LATE SPRING OR THE EARLY FALL. COMPLY WITH MANUFACTURE'S RATES AND RECOMMENDATIONS.
- INSECTICIDES AND FUNGICIDES SHALL BE APPLIED FOR INSECT AND DISEASE CONTROL.
- RESEED BARE AREAS OF LAWN IN EARLY SEPTEMBER. YEARLY AERATION IS RECOMMENDED.
- ALL TRASH, LITTER, AND DEBRIS SHALL BE REMOVED FROM LAWN AREAS, PARKING LOTS, AND SHRUB BEDS.
- EACH YEAR IN MARCH, MULCH ALL SHRUBS AND GROUND COVER BEDS WITH 3 INCHES OF SHREDDED HARDWOOD BARK.
- PERMIT SHRUBS TREES TO GROW AND ENLARGE TO THEIR NATURAL SIZE. CONSULT PROJECT LANDSCAPE ARCHITECT FOR GUIDANCE AND INFORMATION.
- PRUNE TREES IN ACCORDANCE WITH LANDSCAPE CONTRACTOR ASSOCIATION GUIDELINES.

PLANTING LEGEND



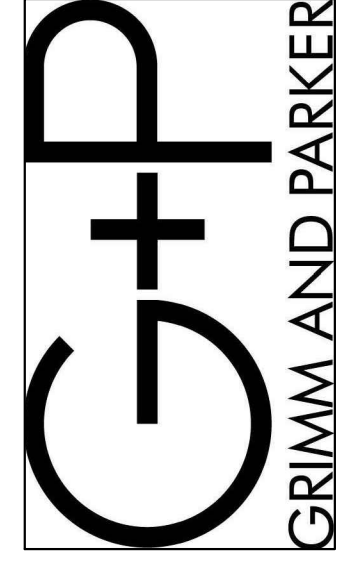
PLANT SCHEDULE

Key	Common	Scientific	Size	Height	Root (Root ball diameter or ANSI Z60.1-2014 container sizes)	Quantity	Notes
Shade, Coniferous and Flowering Trees							
T-01	Crape-myrtle	<i>Lagerstroemia indica</i>	1 1/2" cal.	8' min.	#15 or #20 cont., multi stem	11	Stake, water device
T-02	Kousa dogwood	<i>Cornus kousa</i>	1 1/2" cal.	8' min.	#15 or #20 cont., multi stem	19	Stake, water device
T-03	Trident Maple	<i>Acer buergerianum</i>	3" cal.	12' min.	32" B&B or #65 or #95/100 cont.	15	Stake, water device
T-04	Star Magnolia	<i>Magnolia stellata</i>	1 1/2" cal.	8' min.	20" B&B or #15 or #20 cont.	9	Stake, water device
T-05	American Linden	<i>Tilia americana</i>	2 1/2" cal.	12' min.	28" B&B or #45 or #65 cont.	2	Stake, water device
T-06	Dawn Redwood	<i>Metasequoia glyptostroboides</i>	3" cal.	13' min.	32" B&B or #65 or #95/100 cont.	2	Stake, water device
T-07	Saucer's Magnolia	<i>Magnolia x soulangeana</i>	2 1/2" cal.	12' min.	28" B&B or #45 or #65 cont.	1	Stake, water device
T-08	White Oak	<i>Quercus alba</i>	3 1/2" cal.	14' min.	38" B&B or #65 or #95/100 cont.	12	Stake, water device
T-09	Maidenhair	<i>Ginkgo biloba</i>	3 1/2" cal.	14' min.	38" B&B or #65 or #95/100 cont.	2	Stake, water device
Shrubs							
S-01	Manhattan Euonymus	<i>Euonymus kiautschovicus 'Manhattan'</i>		3'	#3 or #5 cont.		space 4' - 0" o.c. staggered
S-02	Winter jasmine	<i>Jasminum nudiflorum</i>		2'	#2 or #3 cont.		space 3' - 0" o.c. staggered
S-03	Edward Goucher Abelia	<i>Abelia 'grandiflora Edward Goucher'</i>		2'	#2 or #3 cont.		space 3' - 0" o.c. staggered
S-04	Common fig	<i>Ficus carica</i>		5'	61" B&B or #5 or #7 cont.	4	space 3' - 0" o.c. staggered
S-05	Button Bush	<i>Cephalanthus occidentalis</i>		5'	61" B&B or #5 or #7 cont.		space 3' - 0" o.c. staggered
S-06	Black Haw	<i>Viburnum prunifolium</i>		5'	61" B&B or #5 or #7 cont.		space 3' - 0" o.c. staggered
S-07	Highbush blueberry 'O'Neal'	<i>Vaccinium darrowii</i>		3'	#3 or #5 cont.		space 3' - 0" o.c. staggered
S-08	Nick's Compact Pfitzer Juniper	<i>Juniperus chinensis 'Pfitzeriana Nick's Compacta'</i>		2'	#2 or #3 cont.		space 4' - 0" o.c. staggered
Herbaceous Perennials, Ornamental Grasses and Groundcovers							
H-01	Broomsedge/Bluestem	<i>Andropogon japonicus</i>		2'	#SP4		space 12" o.c. staggered
H-02	Reed canary grass	<i>Phalaris arundinacea</i>		2'	#SP4		space 12" o.c. staggered
H-03	Little Blue Stem	<i>Schizachyrium scoparium</i>		2'	#1 cont.		space 12" o.c. staggered
H-04	Yellow Indiangrass	<i>Sorghastrum nutans</i>		3'	#1 cont.		space 12" o.c. staggered
H-05	Black-eyed-susan	<i>Rudbeckia hirta</i>		2'	#1 cont.		space 18" o.c. staggered with H0.06
H-06	Fireworks Goldenrod	<i>Solidago rugosa 'Fireworks'</i>		2'	#1 cont.		space 18" o.c. staggered with H0.05
H-07	Tussock Sedge	<i>Carex stricta</i>		2'	#1 cont.		space 12" o.c. staggered
H-08	Pennsylvania sedge	<i>Carex pensylvanica</i>		3.5" or 8"	or 8" or 12" plugs		space 8" o.c. staggered
H-09	Joe-Pye weed	<i>Eutrochium purpureum</i>		4'	#2 cont.		space 2' - 6" o.c. staggered
H-10	Switchgrass	<i>Panicum virgatum</i>		4'	#2 cont.		space 18" o.c. staggered with H0.06
H-11	Dwarf Fountain Grass	<i>Pennisetum alopecuroides 'Hameln'</i>		2'	plugs		space 12" o.c. staggered
H-12	Daylily	<i>Hemerocallis sp.</i>			#SP4		space 8" o.c. staggered
H-13	Okra	<i>Abelmoschus esculentus</i>		6"	#SP4		space 12" o.c. staggered- after frost
Grass & Turf							
G0.01		Refer to specifications					
* Comply with 'American Standard for Nursery Stock' most current edition for sizes, planting and care of material.							

2 FOREST CONSERVATION PLAN
SCALE: 1" = 30.00'

Sherrill + Partners + Architects, Inc.
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(443) 955-0432

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Calverton, MD 20705
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www.grimmandparker.com



GP# 21553

FOREST CONSERVATION PLAN
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

F-1.00H
03/13/2017
BID SET

LEGEND

- (S1) ASPHALT PAVEMENT
- (S2) CONCRETE PAVEMENT
- (S2A) CONCRETE PAVEMENT (ADD ALTERNATE)
- (S3) BASE PREPARATION AND SYNTHETIC SURFACE
- E# ENCLOSURE TYPE
- G# GATE TYPE
- (B#) BIoretention AREA
- LOD1-LOD1- PHASE 1 LIMIT OF DISTURBANCE
- LOD2-LOD2- PHASE 2 LIMIT OF DISTURBANCE
- NEW FENCE
- PLAY EQUIPMENT LOCATION
- EXISTING FENCE
- PROP. D PROP. STORM DRAIN
- PROP. W PROP. WATER
- PROP. S PROP. SANITARY SEWER
- EXISTING WALL
- PROP. MANHOLE
- PROP. INLET
- PROP. WATER VALVE
- PROP. FIRE HYDRANT
- LIGHT FIXTURE
- BENCH
- (TR) TRASH AND RECYCLE RECEPTACLE
- BOLLARD
- BIKE RACK
- DUMPSTER
- FLAGPOLE
- GEOTHERMAL WELLS
- ⊠ PIER

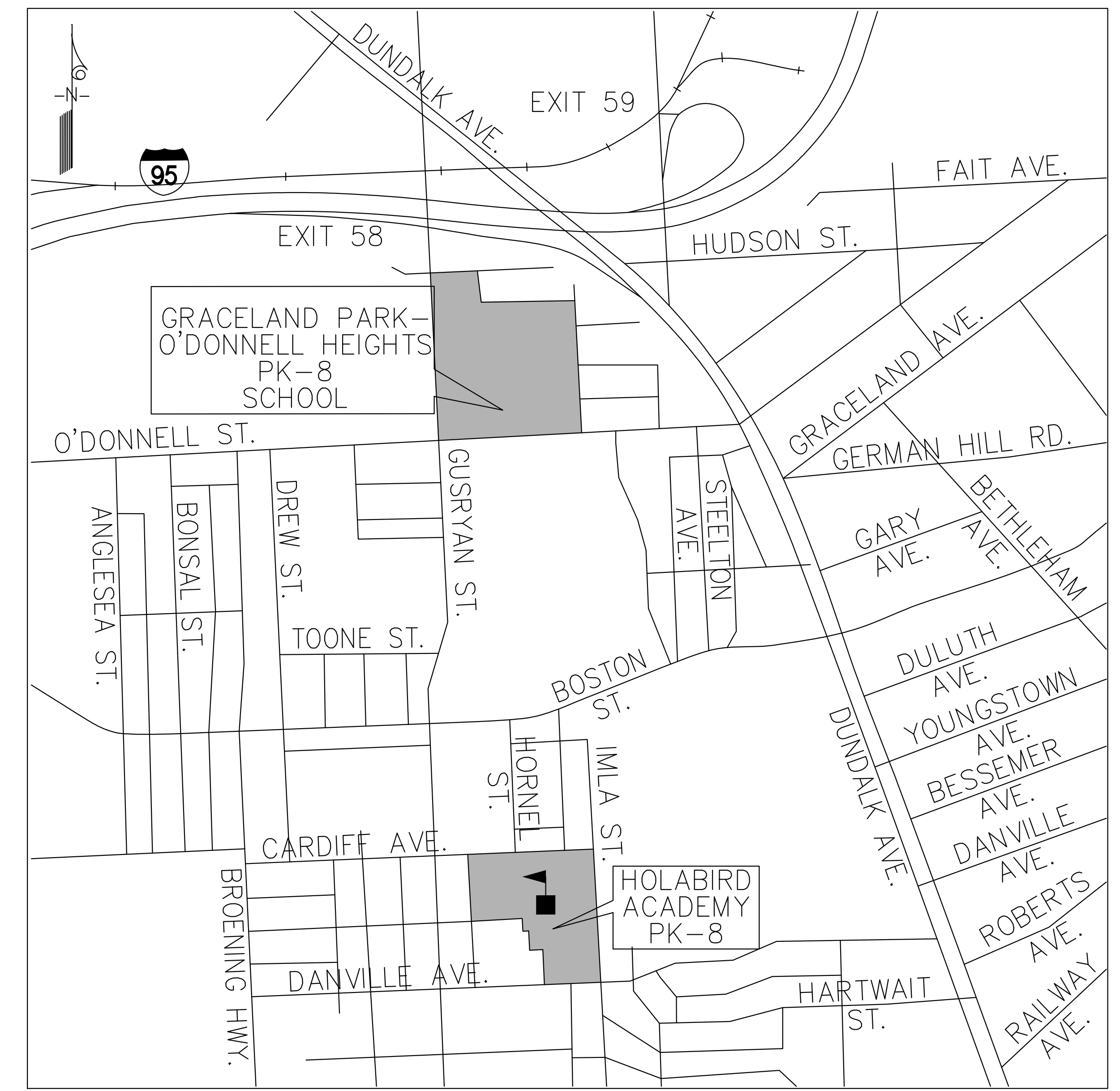
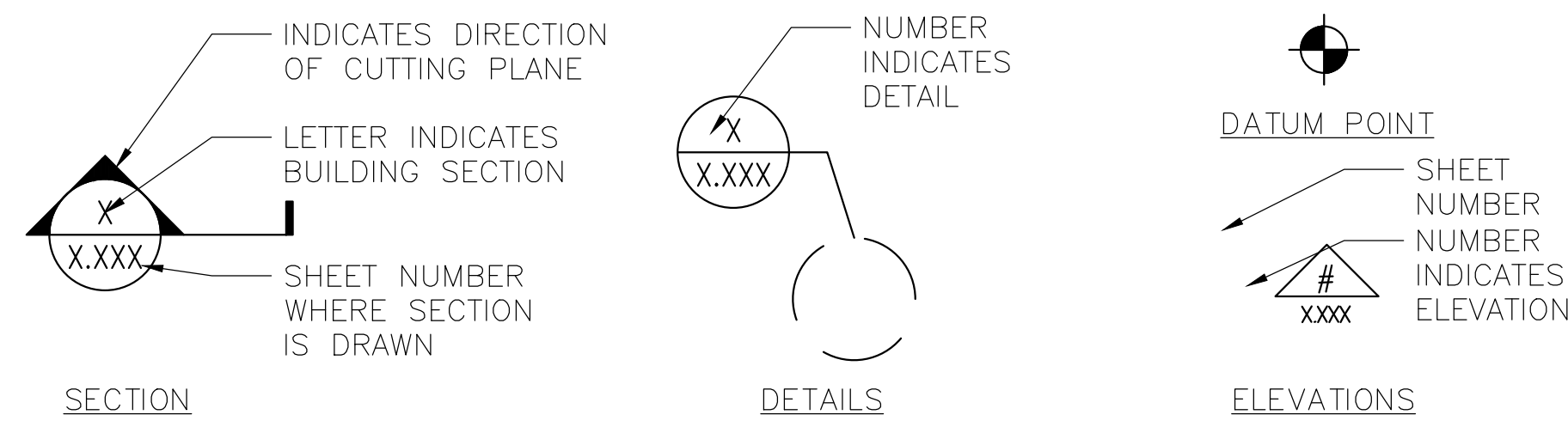
ABBREVIATIONS

- A.A. ADD ALTERNATE
- APG ABOVE FINISH GRADE
- BC BOTTOM OF CURB
- BS BOTTOM OF STEP
- BR BOTTOM OF RAMP
- BW BOTTOM OF WALL
- CABC CRUSHED AGGREGATE BASE COURSE
- CEN. CENTERED
- CL CENTERLINE
- C.J. CONTROL JOINT
- CONC. CONCRETE
- CMU CONCRETE MASONRY UNIT
- DIM. DIMENSION
- EQ. EQUAL
- EXIST. EXISTING
- E.J. EXPANSION JOINT
- FOB FACE OF BUILDING
- FG FINISH GRADE
- MIN. MINIMUM
- N.I.C. NOT IN CONTRACT
- O.C. ON CENTER
- OPNG OPENING
- POB POINT OF BEGINNING
- RET. WALL RETENTION WALL
- R RADIUS
- RP RADIUS POINT
- STRUCT. STRUCTURAL
- T TREAD
- TYP. TYPICAL
- TC TOP OF CURB
- TS TOP OF STEP
- TR TOP OF RAMP
- TW TOP OF WALL
- U.O.N. UNLESS OTHERWISE NOTED
- W/ WITH

MATERIALS

- [Pattern] COMPACTED SOIL
- [Pattern] GRAVEL OR CRUSHED STONE
- [Pattern] CONCRETE
- [Pattern] TURF
- [Pattern] STONE
- [Pattern] METAL
- [Pattern] WOOD
- [Pattern] BRICK
- [Pattern] C.M.U.

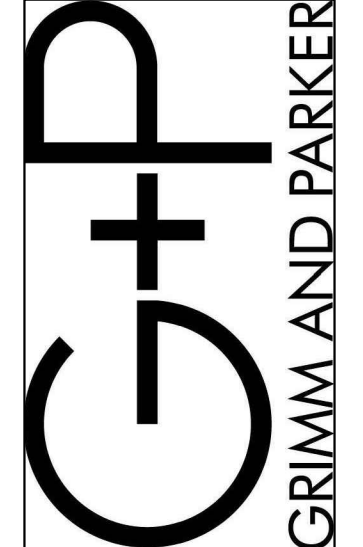
SYMBOLS



VICINITY PLAN
SCALE: 1" = 1000'

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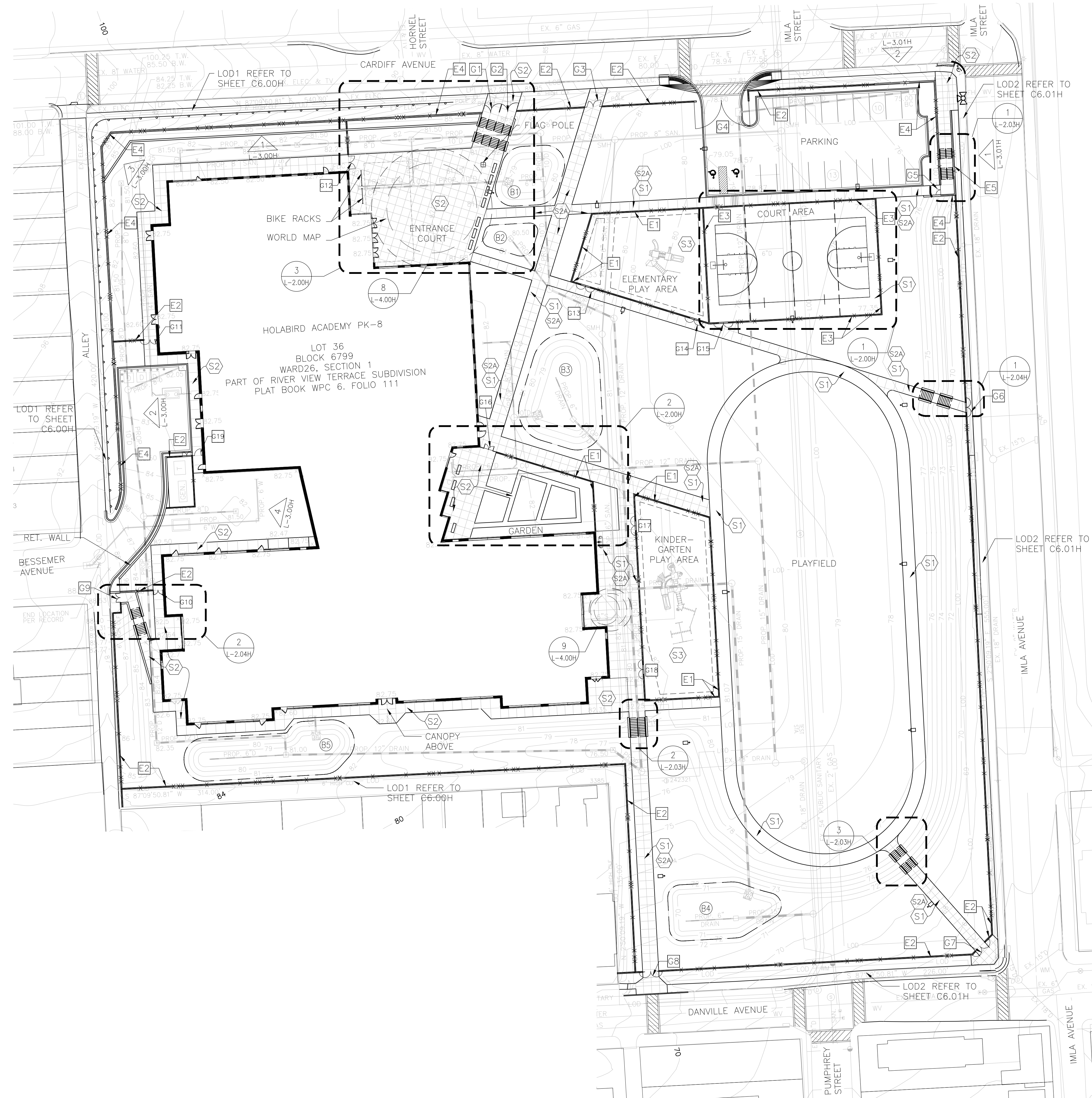
ABBREVIATIONS, SYMBOLS, MATERIALS,
LEGEND, AND VICINITY PLAN
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

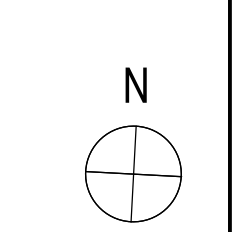
L-0.01H
03/13/2017
BID SET

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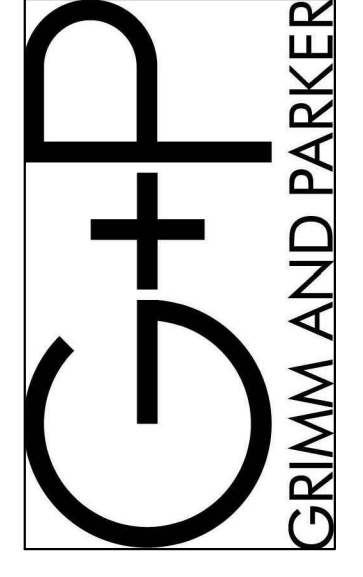


1 LANDSCAPE PLAN
L-1.01H SCALE: 1" = 30'



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GP# 21553

LANDSCAPE PLAN
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

L-1.01H
03/13/2017
BID SET

18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

GENERAL NOTES

- QUANTITIES SHOWN ON THE PLANT LIST ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. SYMBOLS ON THE PLAN SHALL TAKE PRECEDENCE. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES.
- PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT.
- PLANT MATERIAL SHALL BE TAGGED AT THE SOURCE BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE UNLESS THE REQUIREMENT IS SPECIFICALLY WAIVED.
- LOCATIONS OF ALL PLANT MATERIAL SHALL BE STAKED BY CONTRACTOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- SHRUB AND GROUND COVER AREAS SHALL BE PLANTED IN CONTINUOUS PREPARED BEDS MULCHED WITH COMPOSTED HARDWOOD AS DETAILED AND SPECIFIED.
- PLANTING BEDS SHALL HAVE POSITIVE DRAINAGE WITH A MINIMUM 2% SLOPE.
- CONTRACTOR SHALL VERIFY ACCURACY OF BASE INFORMATION, EXISTING CONDITIONS, AND UTILITIES IN THE FIELD PRIOR TO INSTALLATION OF LANDSCAPE MATERIALS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING PLANTING AND CONSTRUCTION.
- DAMAGE BY THE CONTRACTOR TO EXISTING CONDITIONS AND UTILITIES, SHALL BE REPAIRED AND RESTORED AT THE EXPENSE OF THE CONTRACTOR.
- PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN NURSERY & LANDSCAPE ASSOCIATION'S AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1.
- AREAS NOT OTHERWISE INDICATED TO BE MULCHED, PLANTED, PAVED OR COVERED WITH SYNTHETIC SURFACE SHALL BE PLANTED IN TURF.

MINIMUM LANDSCAPE MAINTENANCE REQUIREMENTS

- LAWN AREAS SHALL BE MOWED TO A HEIGHT OF 2 TO 3 INCHES AND NOT ALLOWED TO REACH A HEIGHT OF 4 INCHES BEFORE MOWING.
- TURF ADJACENT TO CURBS AND WALKS SHALL BE EDGED AS NEEDED.
- TURF AREAS ADJACENT TO BUILDING FACES OR STRUCTURES SHALL BE TRIMMED.
- A SLOW RELEASE NITROGEN BALANCED FERTILIZER WITH A 2-1-1 RATIO SHALL BE APPLIED AT A RATE OF 2 POUNDS OF NITROGEN PER 1000 SQUARE FEET IN SEPTEMBER, OCTOBER, AND FEBRUARY.
- LIME SHALL BE APPLIED AT THE RATE DETERMINED BY A SOILS REPORT.
- LAWN AREAS SHALL BE TREATED IN MID-MARCH TO EARLY APRIL WITH PRE-EMERGENT HERBICIDE (BETASAN) OR EQUAL APPLIED AT THE MANUFACTURER'S RATES AND RECOMMENDATIONS.
- APPLICATION OF A POST-EMERGENT (TRIMEC) OR EQUAL SHALL BE SPRAYED ON LAWN AREAS IN THE LATE SPRING OR THE EARLY FALL. COMPLY WITH MANUFACTURER'S RATES AND RECOMMENDATIONS.
- INSECTICIDES AND FUNGICIDES SHALL BE APPLIED FOR INSECT AND DISEASE CONTROL.
- RESEED BARE AREAS OF LAWN IN EARLY SEPTEMBER. YEARLY AERATION IS RECOMMENDED.
- ALL TRASH, LITTER, AND DEBRIS SHALL BE REMOVED FROM LAWN AREAS, PARKING LOTS, AND SHRUB BEDS.
- EACH YEAR IN MARCH, MULCH ALL SHRUBS AND GROUNDCOVER BEDS WITH 3 INCHES OF SHREDDED HARDWOOD BARK.
- PERMIT SHRUBS TREES TO GROW AND ENLARGE TO THEIR NATURAL SIZE. CONSULT PROJECT LANDSCAPE ARCHITECT FOR GUIDANCE AND INFORMATION.
- PRUNE TREES IN ACCORDANCE WITH LANDSCAPE CONTRACTOR ASSOCIATION GUIDELINES.

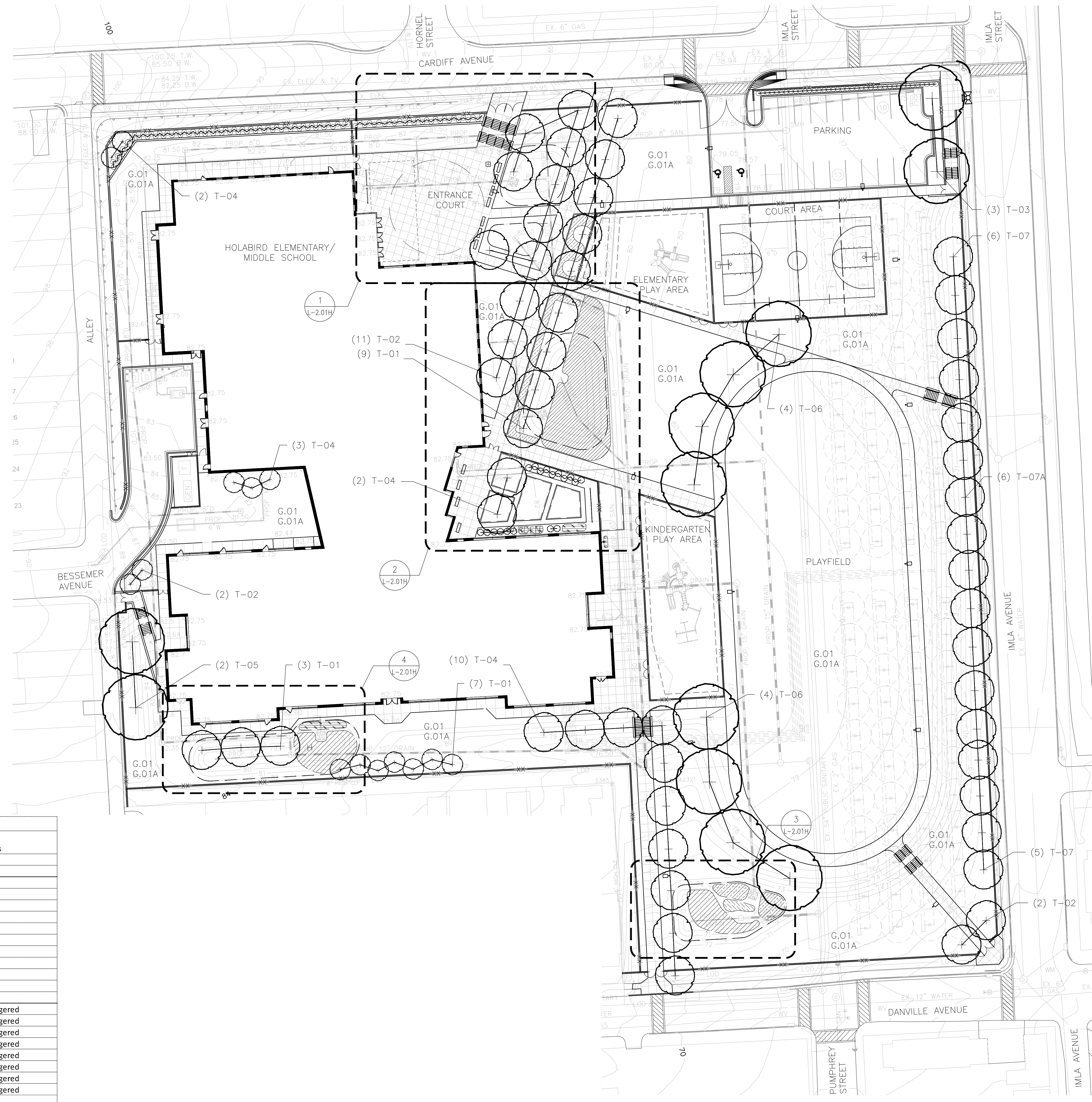
PLANTING LEGEND

	LARGE TREE		EXISTING TREE < 22" CAL. FOR REMOVAL
	MEDIUM TREE		EXISTING VEGETATION FOR REMOVAL
	SMALL TREE		EXISTING TREE > 22" CAL.
	EXTRA SMALL TREE		SHRUBS-STAGGERED
	HERBACEOUS PLANTING		SHRUBS-ALIGN
	HERBACEOUS PLANTING		

PLANT SCHEDULE

Key	Common	Scientific	Size	Height	Root (Root ball diameter or ANSI Z60.1-2014 container sizes)	Quantity	Notes
Shade, Coniferous and Flowering Trees							
T-01	Crepe-myrtle	<i>Lagerstroemia indica</i>	1 1/2" cal.	8' min.	#15 or #20 cont., multi stem	19	Stake, water device
T-02	Kousa dogwood	<i>Cornus kousa</i>	1 1/2" cal.	8' min.	#15 or #20 cont., multi stem	15	Stake, water device
T-03	Trident Maple	<i>Acer buergerianum</i>	3" cal.	12' min.	32" B&B or #65 or #95/100 cont.	2	Stake, water device
T-04	Star Magnolia	<i>Magnolia stellata</i>	1 1/2" cal.	8' min.	20" B&B or #15 or #20 cont.	17	Stake, water device
T-05	American Linden	<i>Tilia americana</i>	2 1/2" cal.	12' min.	28" B&B or #45 or #65 cont.	2	Stake, water device
T-06	Dawn Redwood	<i>Metasequoia glyptostroboides</i>	3" cal.	13' min.	32" B&B or #65 or #95/100 cont.	8	Stake, water device
T-07	Saucer's Magnolia	<i>Magnolia x soulangeana</i>	2 1/2" cal.	12' min.	28" B&B or #45 or #65 cont.	17	Stake, water device
T-08	White Oak	<i>Quercus alba</i>	3 1/2" cal.	14' min.	38" B&B or #65 or #95/100 cont.		Stake, water device
T-09	Maidenhair	<i>Ginkgo biloba</i>	3 1/2" cal.	14' min.	38" B&B or #65 or #95/100 cont.		Stake, water device
Shrubs							
S-01	Manhattan Euonymus	<i>Euonymus kiautschowicus 'Manhattan'</i>		3'	#3 or #5 cont.		space 4' - 0" o.c. staggered
S-02	Winter jasmine	<i>Jasminum nudiflorum</i>		2'	#2 or #3 cont.		space 3' - 0" o.c. staggered
S-03	Edward Goucher Abelia	<i>Abelia 'grandiflora Edward Goucher'</i>		2'	#2 or #3 cont.		space 3' - 0" o.c. staggered
S-04	Common fig	<i>Ficus carica</i>		5'	61" B&B or #5 or #7 cont.	4	space 3' - 0" o.c. staggered
S-05	Button Bush	<i>Cephalanthus occidentalis</i>		5'	61" B&B or #5 or #7 cont.		space 3' - 0" o.c. staggered
S-06	Black Haw	<i>Virburnum prunifolium</i>		5'	61" B&B or #5 or #7 cont.		space 3' - 0" o.c. staggered
S-07	Highbush blueberry 'O'Neal'	<i>Vaccinium darrowii</i>		3'	#3 or #5 cont.		space 3' - 0" o.c. staggered
S-08	Nick's Compact Pfitzer Juniper	<i>Juniperus chinensis 'Pfitzeriana Nick's Compacta'</i>		2'	#2 or #3 cont.		space 4' - 0" o.c. staggered
Herbaceous Perennials, Ornamental Grasses and Groundcovers							
H-01	Broomedge/Bluestem	<i>Andropogon japonicus</i>		2'	#SP4		space 12" o.c. staggered
H-02	Reed canary grass	<i>Phalaris arundinacea</i>		2'	#SP4		space 12" o.c. staggered
H-03	Little Blue Stem	<i>Schizachyrium scoparium</i>		2'	#1 cont.		space 12" o.c. staggered
H-04	Yellow Indiangrass	<i>Sorghastrum nutans</i>		3'	#1 cont.		space 12" o.c. staggered
H-05	Black-eyed-susan	<i>Rudbeckia hirta</i>		2'	#1 cont.		space 18" o.c. staggered with H0.06
H-06	Fireworks Goldenrod	<i>Solidago rugosa 'Fireworks'</i>		2'	#1 cont.		space 18" o.c. staggered with H0.05
H-07	Tussock Sedge	<i>Carex stricta</i>		2'	#1 cont.		space 12" o.c. staggered
H-08	Pennsylvania sedge	<i>Carex pensylvanica</i>		3.5" or bib			space 8" o.c. staggered
H-09	Joe-Pye weed	<i>Eutrochium purpureum</i>		4'	#2 cont.		space 2' - 6" o.c. staggered
H-10	Switchgrass	<i>Panicum virgatum</i>		4'	z		space 18" o.c. staggered with H0.06
H-11	Dwarf Fountain Grass	<i>Pennisetum alopecuroides 'Hameln'</i>		2'	plugs		space 12" o.c. staggered
H-12	Daylily	<i>Heemerocallis sp.</i>			#SP4		space 8" o.c. staggered
H-13	Okra	<i>Abelmoschus esculentus</i>		6"	#SP4		space 12" o.c. staggered - after frost
Grass & Turf							
G0-01	Turf Seed	Refer to specifications					
G0-01 A	Turf Sod	Refer to specifications					

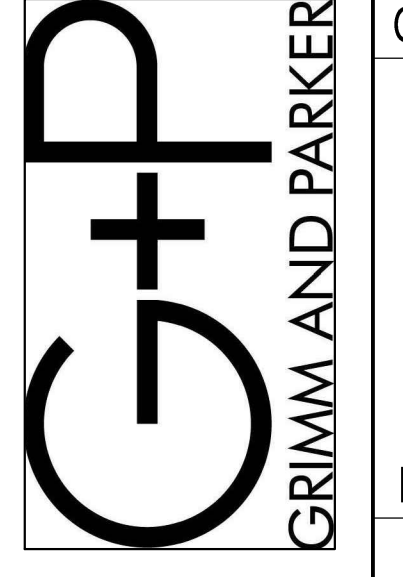
NOTES
 A' keynote designation indicates materials as bid add alternates
 * Comply with 'American Standard for Nursery Stock' most current edition for sizes, planting and care of material.



1 PLANTING PLAN
 L-1.02H SCALE: 1" = 30.00'

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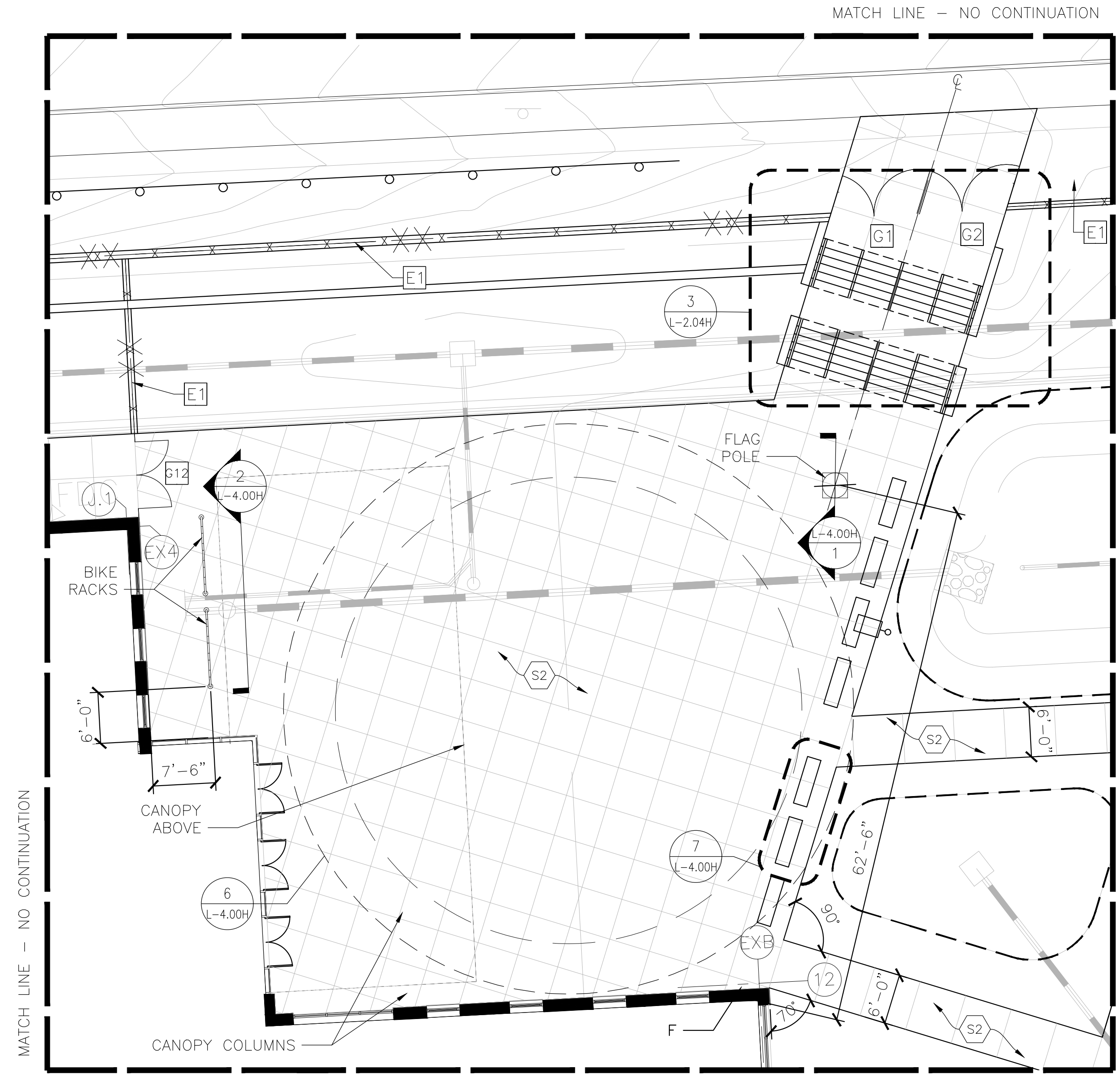


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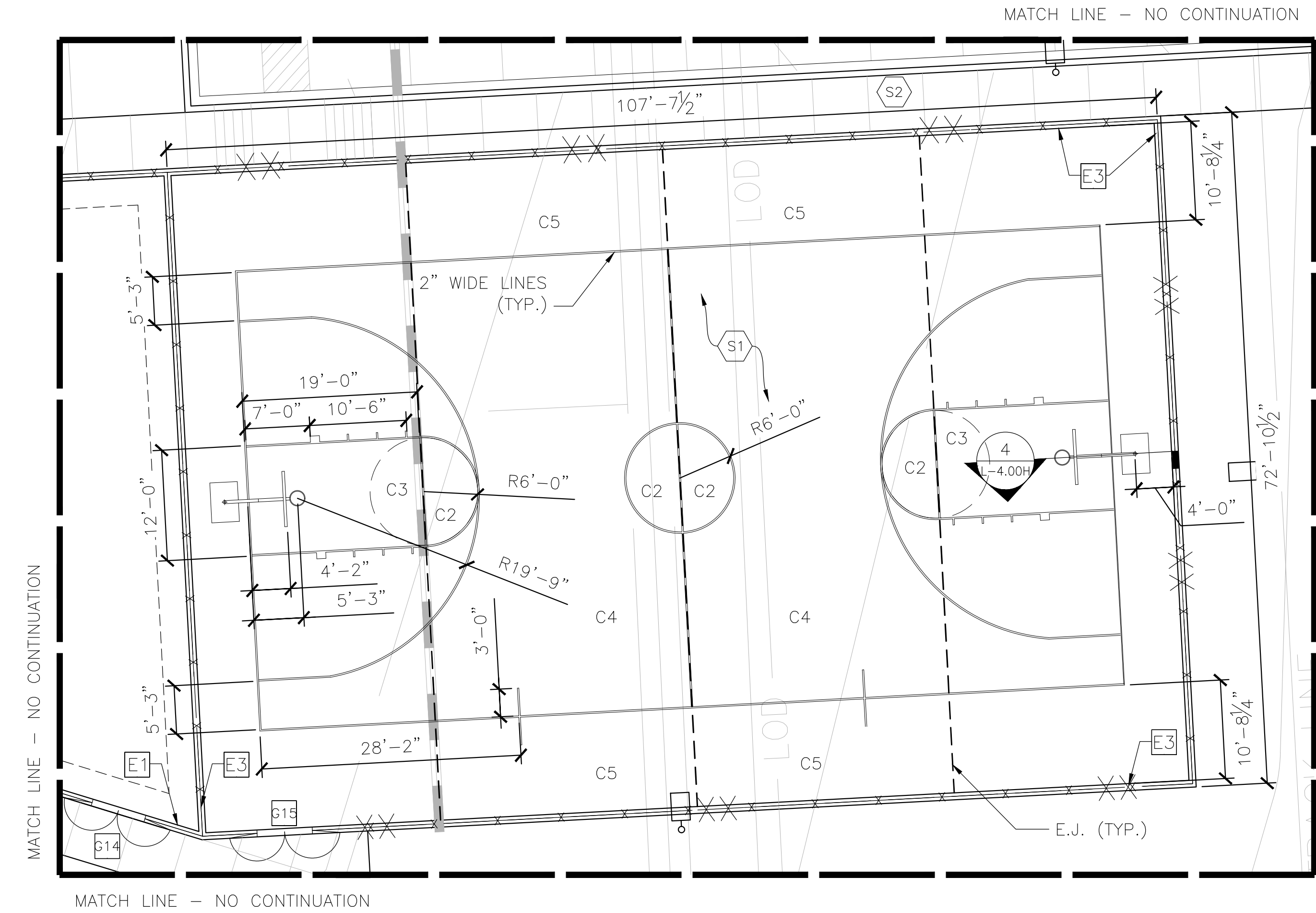
PLANTING PLAN
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

L-1.02H
 03/13/2017
 BID SET

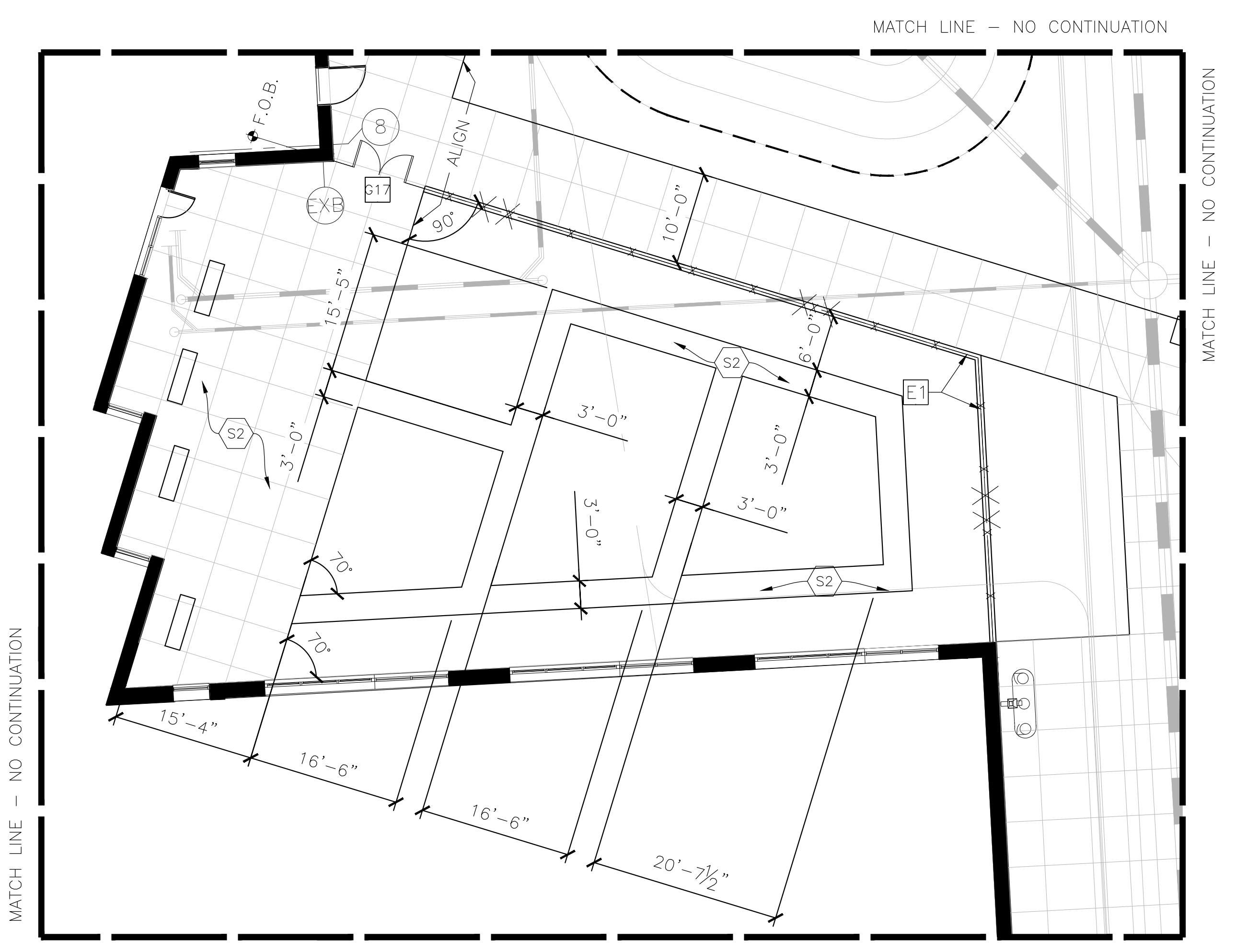


3 OUTDOOR LEARNING AREA
 L-1.01H L-2.00H SCALE: 1" = 10'



1 COURT AREA
 L-1.01H L-2.00H SCALE: 1" = 30'

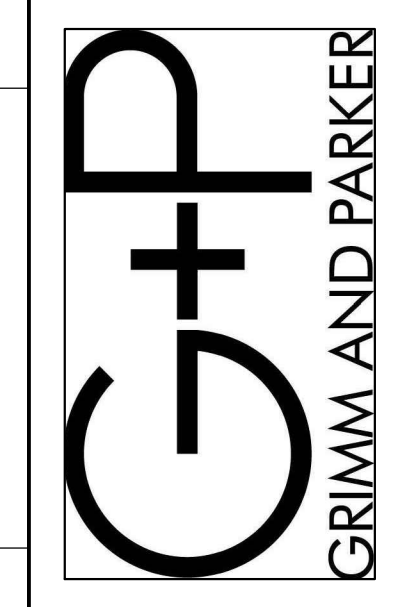
COLOR	BID ALTERNATE: COATINGS OTHER THAN COURT STRIPPING
C1	COURT MARKING LINES 2" WIDE
C2	COLOR TO BE SELECTED BY ARCHITECT
C3	COLOR TO BE SELECTED BY ARCHITECT
C4	COLOR TO BE SELECTED BY ARCHITECT
C5	COLOR TO BE SELECTED BY ARCHITECT



2 GARDEN
 L-1.01H L-2.00H SCALE: 1" = 10'

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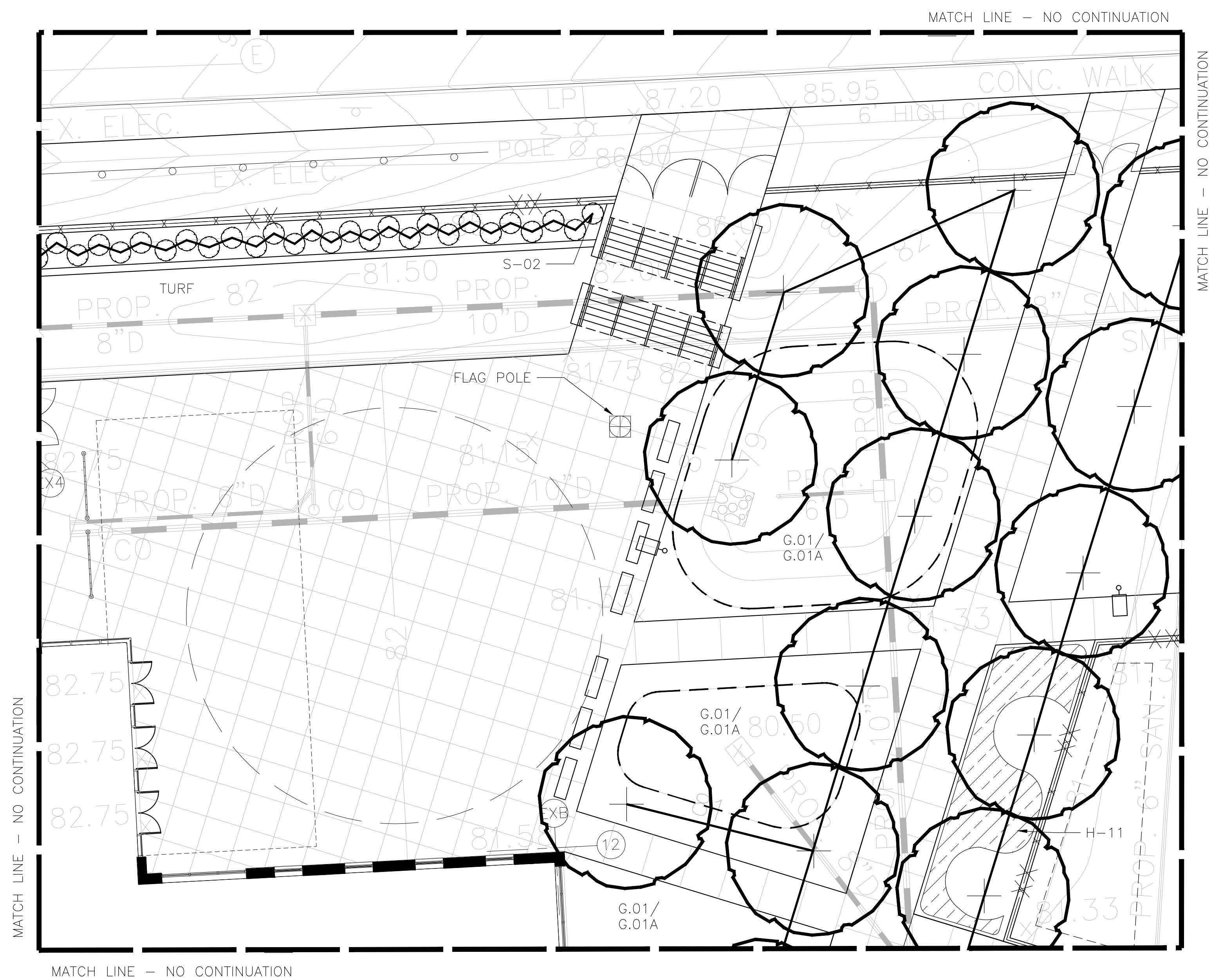


GP# 21553

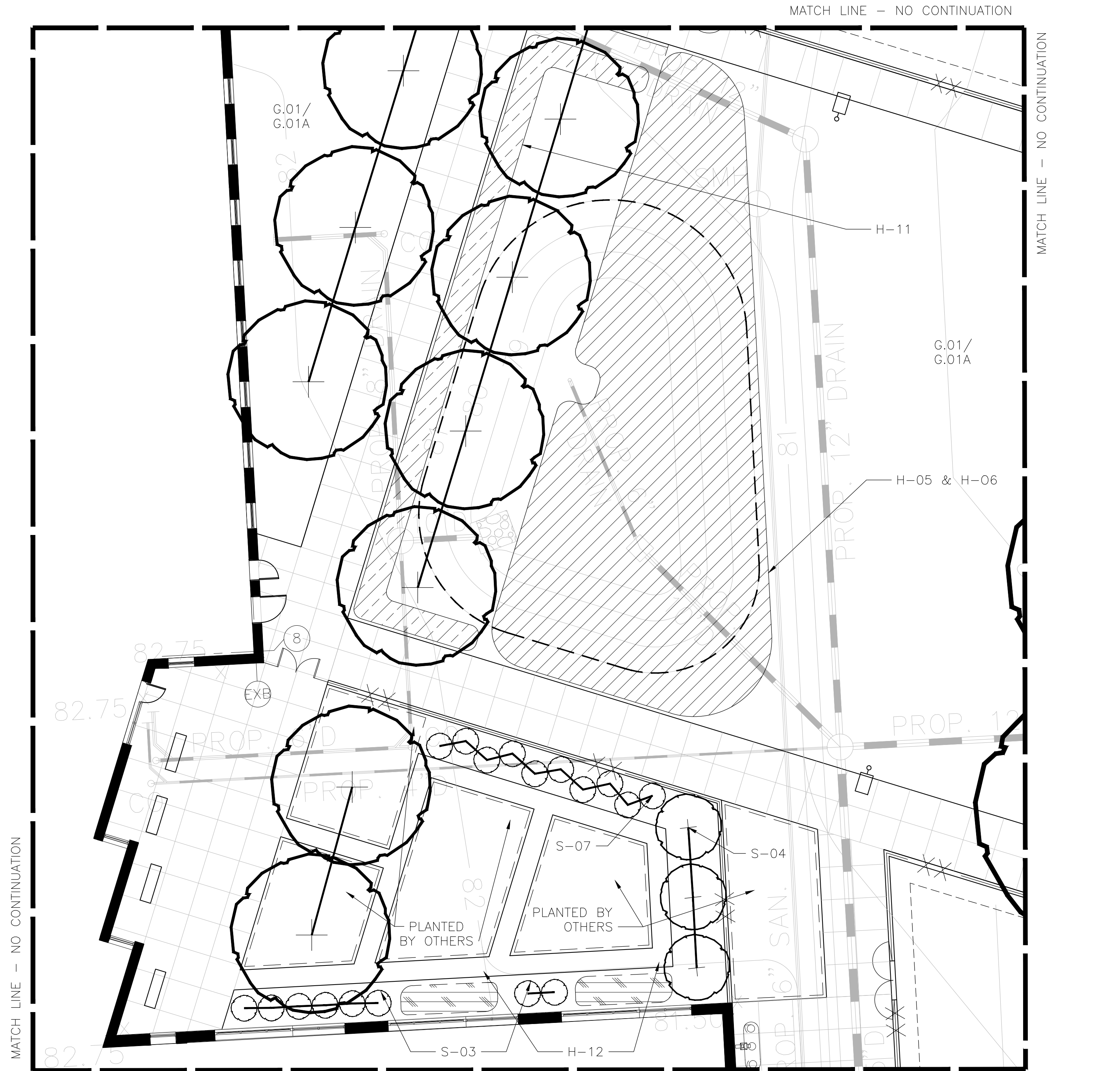
ENLARGED LANDSCAPE PLANS
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

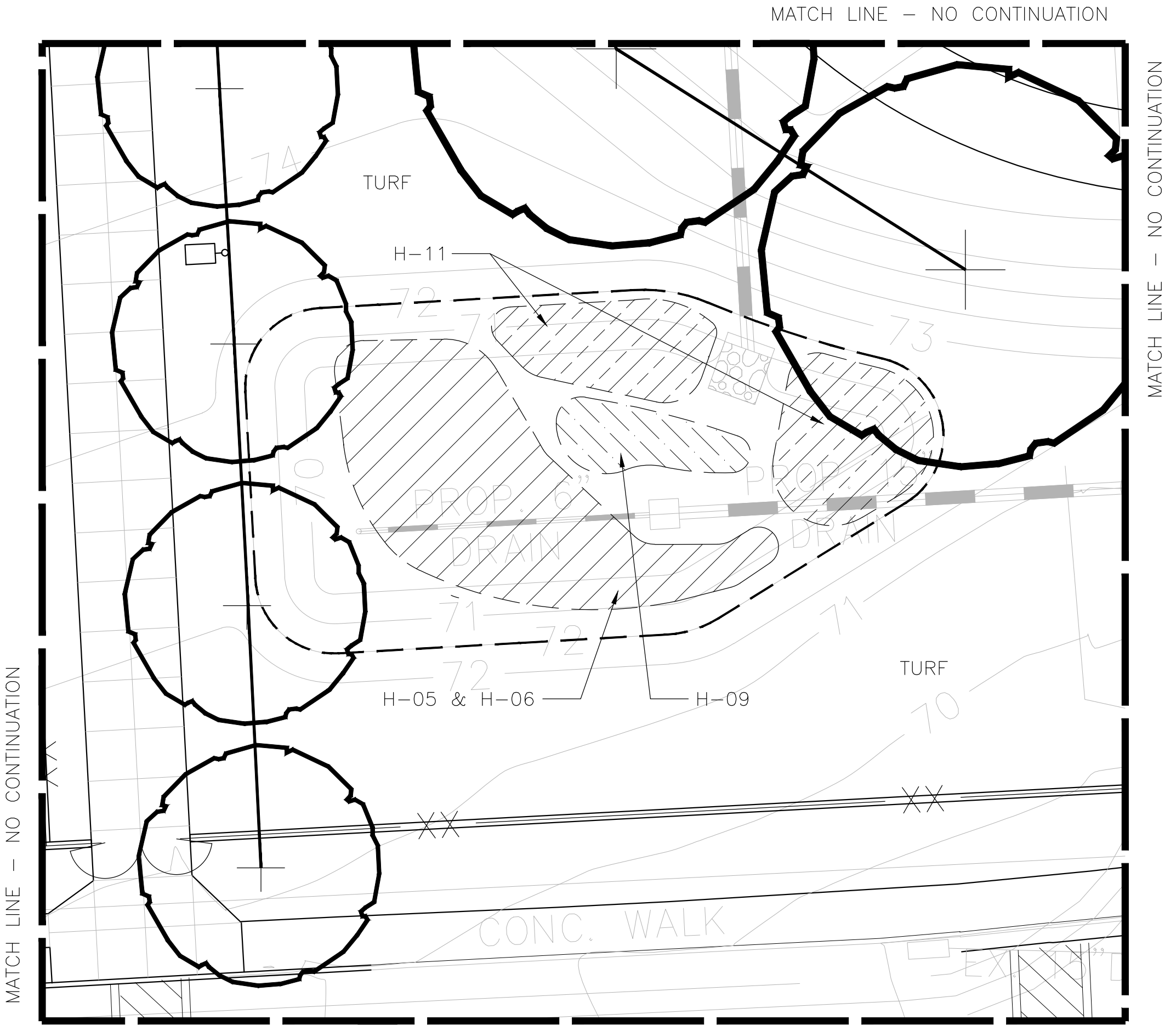
L-2.00H
 03/13/2017
 BID SET



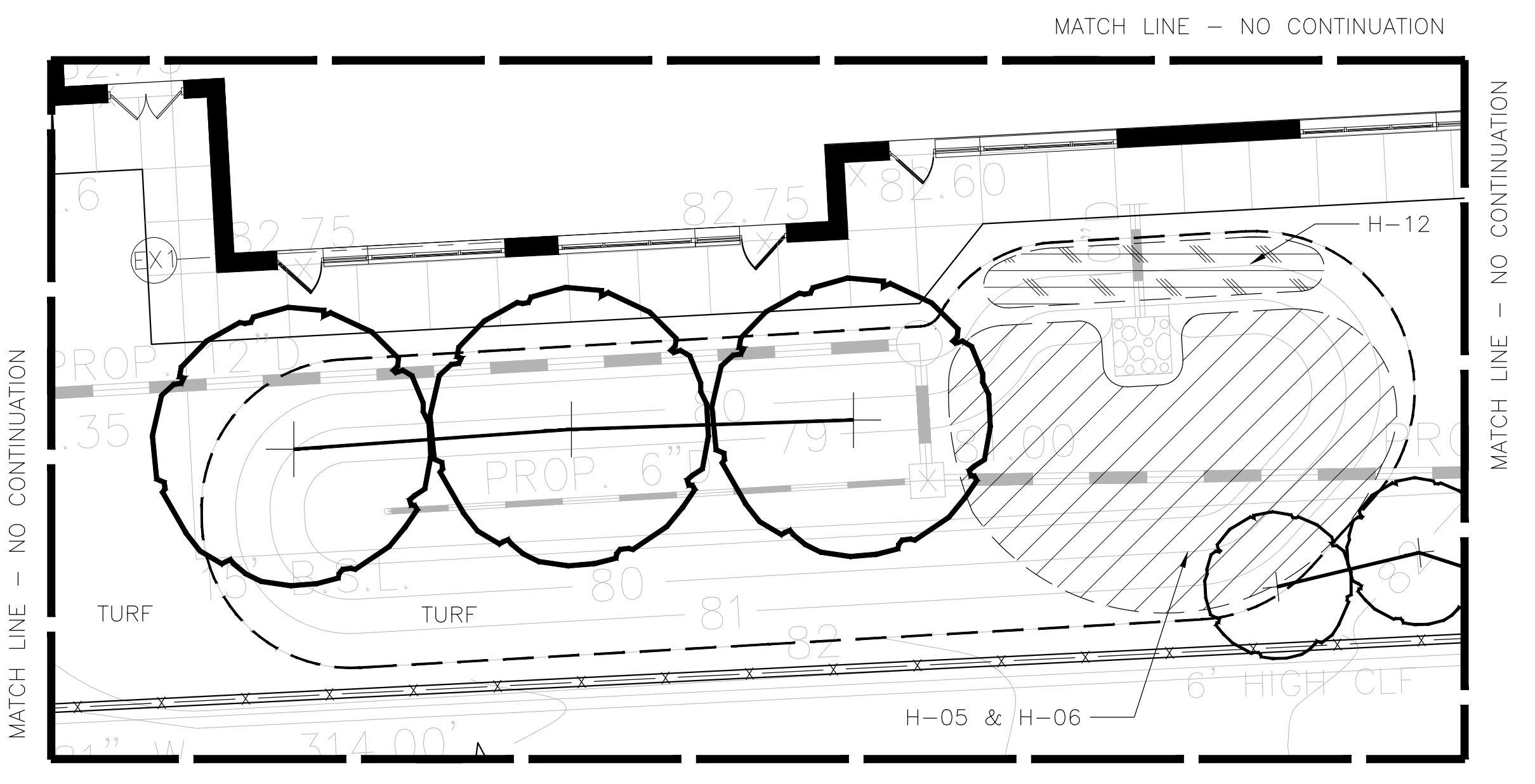
1 BIORETENTION 1 AND 2
 L-1.02H/L-2.01H SCALE: 3/32" = 1'-0"



2 BIORETENTION 3 AND GARDEN
 L-1.02H/L-2.01H SCALE: 3/32" = 1'-0"



3 BIORETENTION 4
 L-1.02H/L-2.01H SCALE: 3/32" = 1'-0"



4 BIORETENTION 5
 L-1.02H/L-2.01H SCALE: 3/32" = 1'-0"

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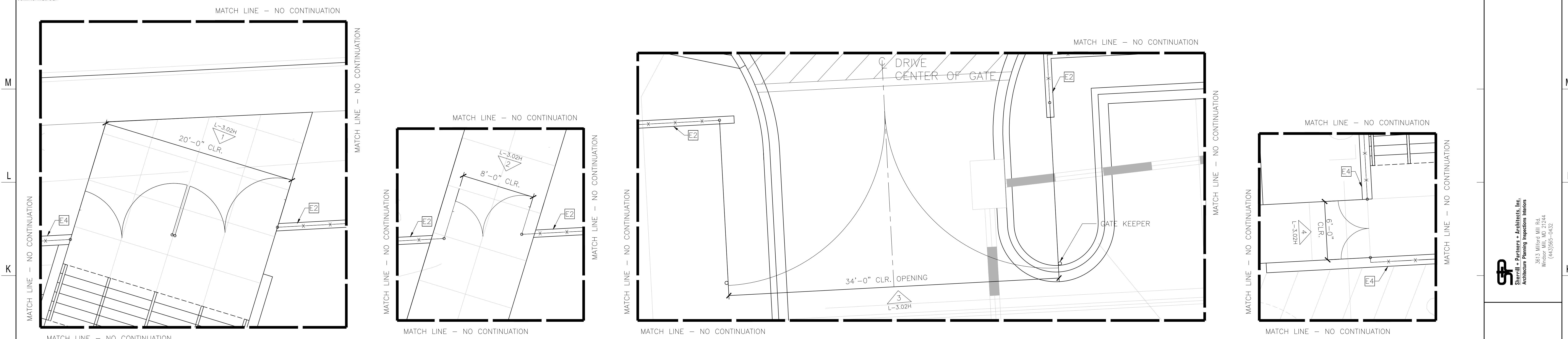
GP
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GP# 21553

ENLARGED PLANTING PLANS
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

L-2.01H
 03/13/2017
 BID SET

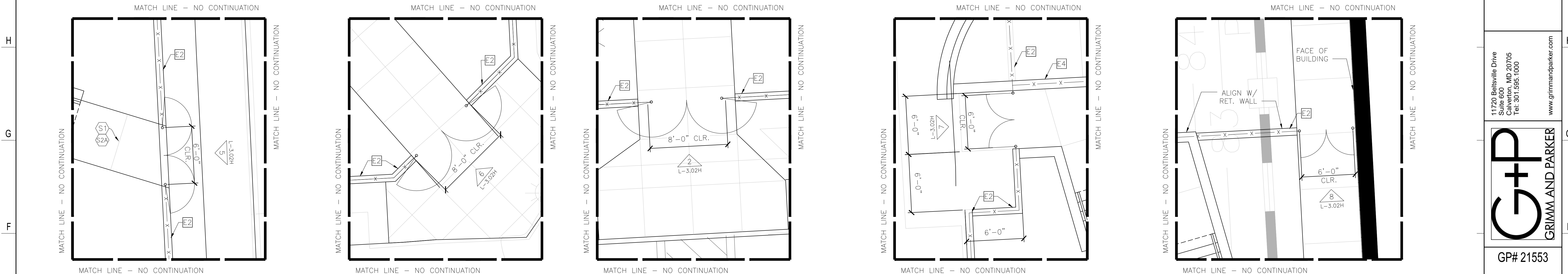


1 GATE 1/2 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

2 GATE 3 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

3 GATE 4 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

4 GATE 5 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"



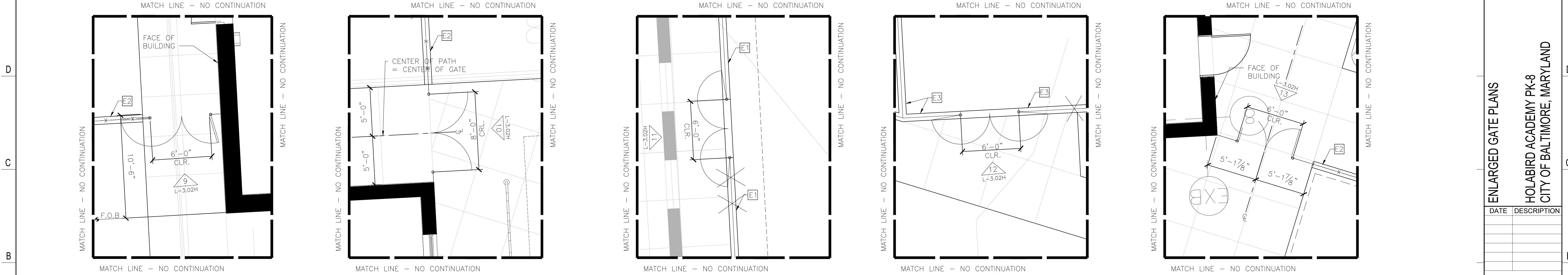
5 GATE 6 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

6 GATE 7 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

7 GATE 8 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

8 GATE 9 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

9 GATE 10 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"



10 GATE 11 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

11 GATE 12 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

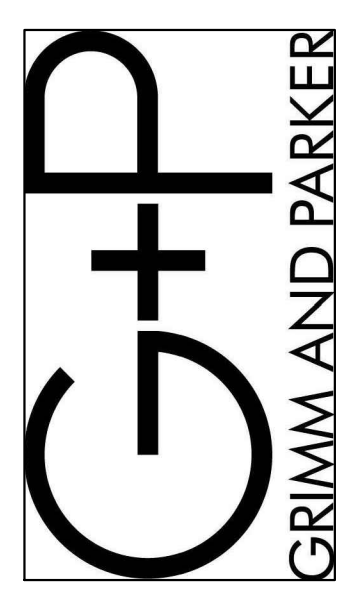
12 GATE 13, 14, 17 and 18 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

13 GATE 15 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

14 GATE 16 PLAN
L-1.01H/L-2.02H SCALE: 1/4" = 1'-0"

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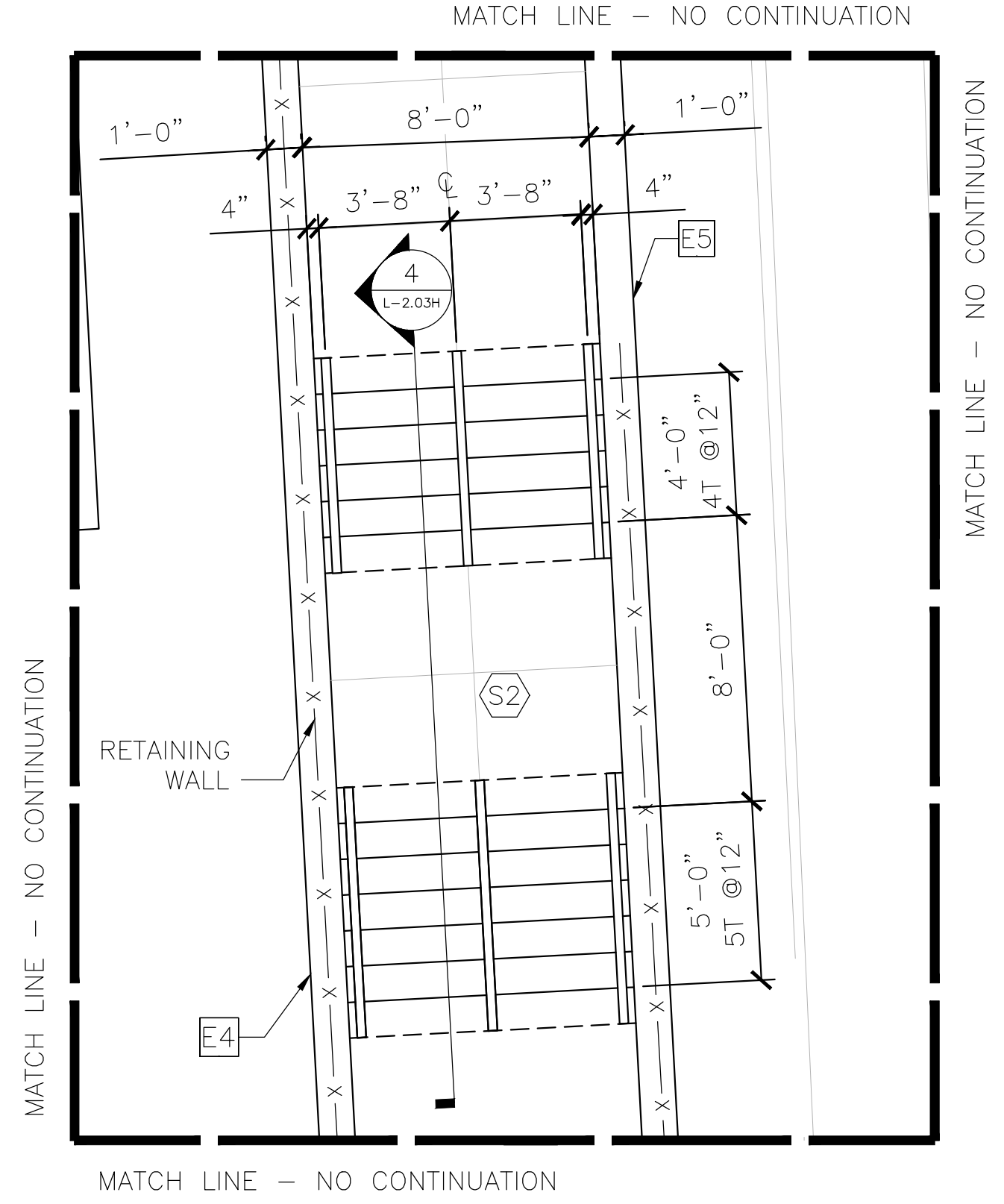


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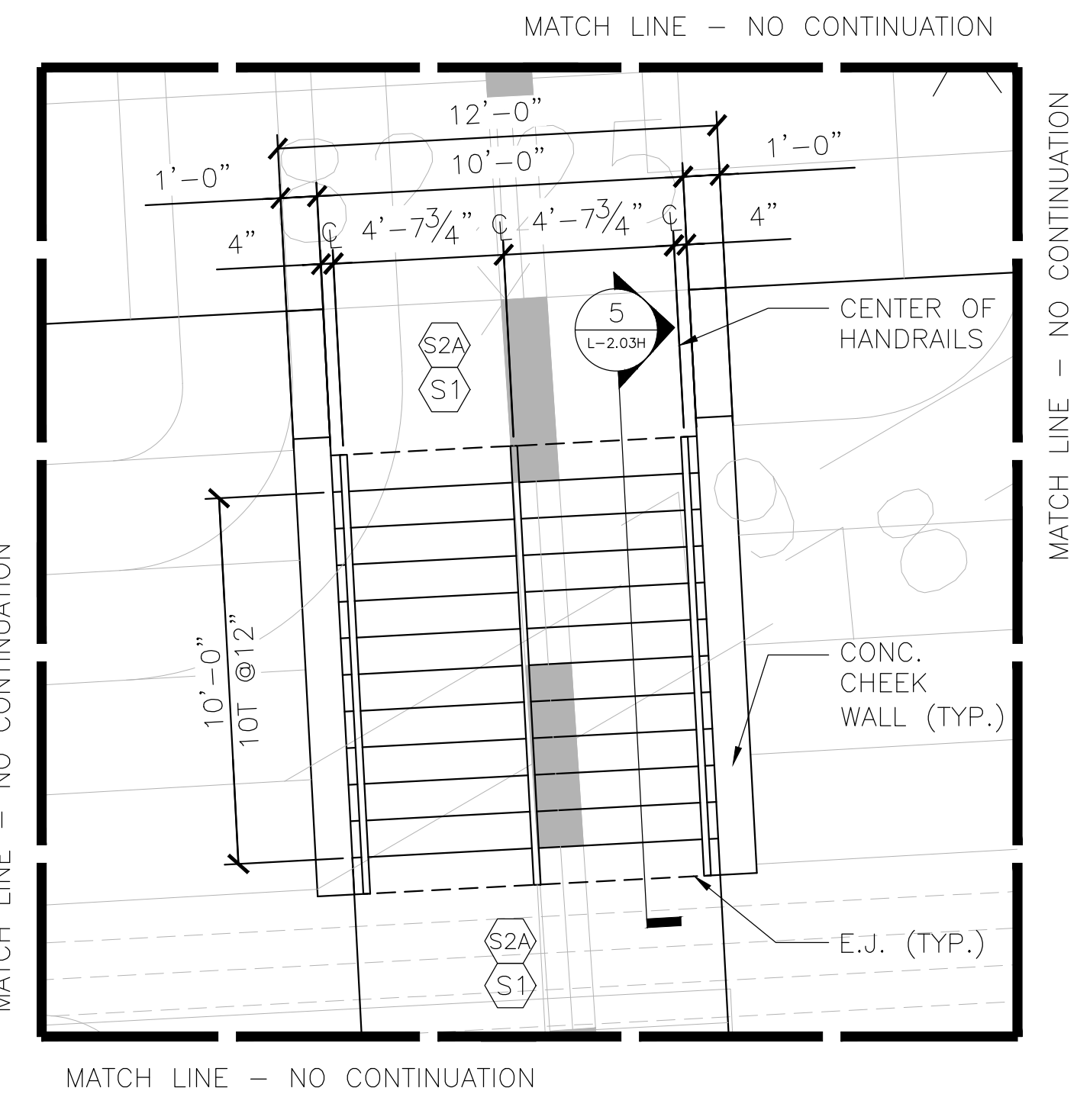
ENLARGED GATE PLANS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

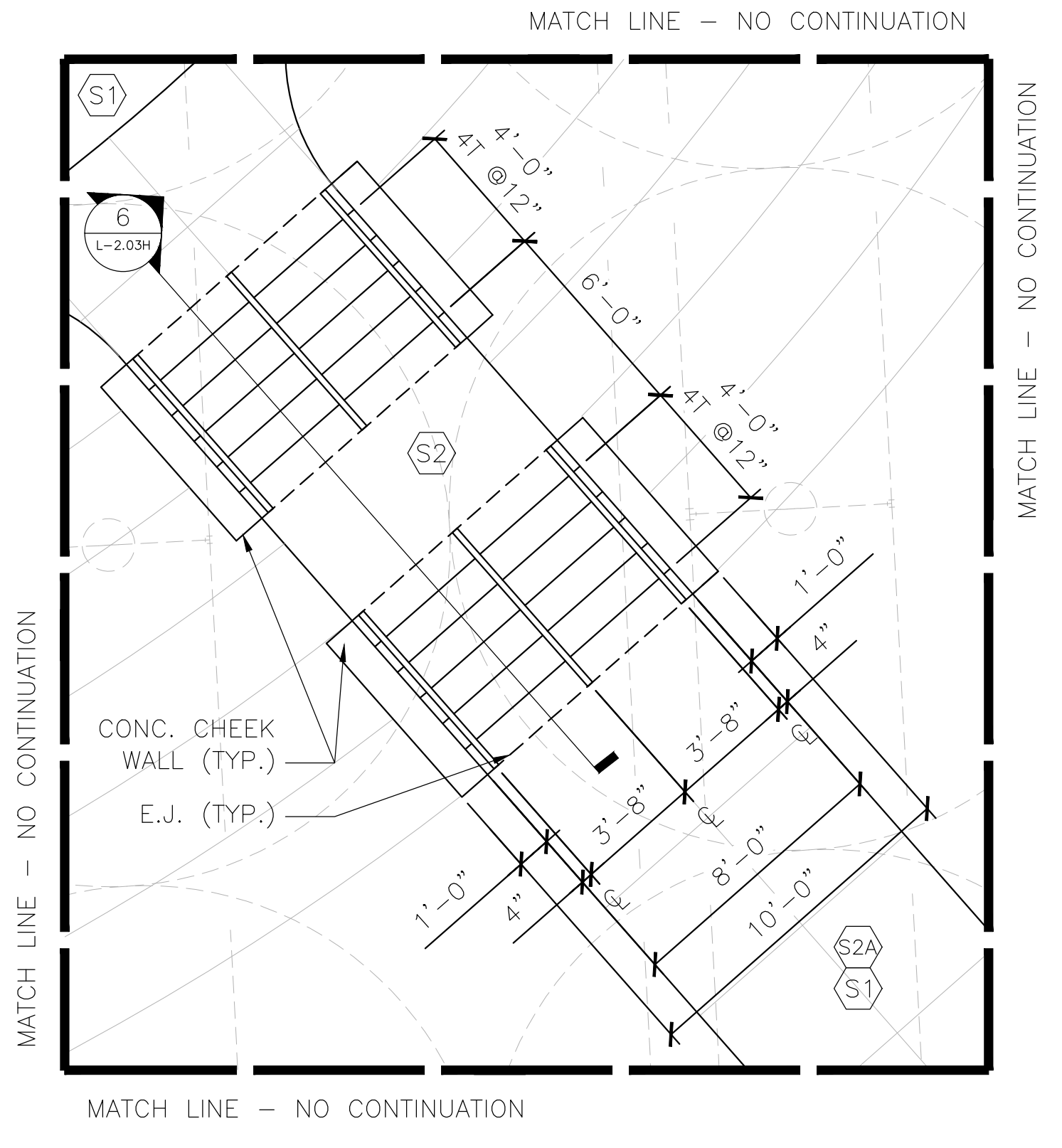
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03/13/2017
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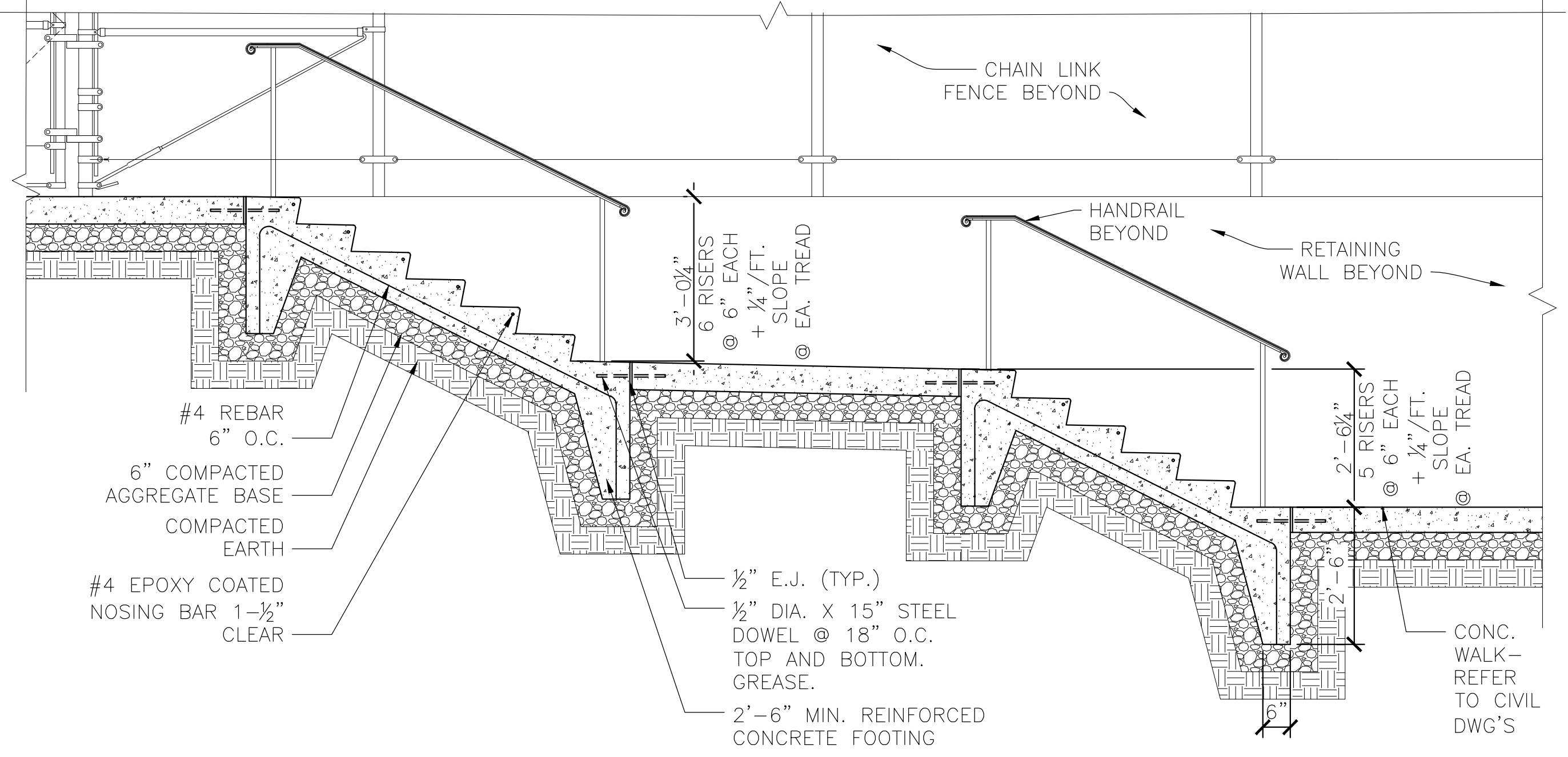
1 STAIR 1 PLAN
L-1.01HL-2.03H SCALE: 1/4" = 1'-0"



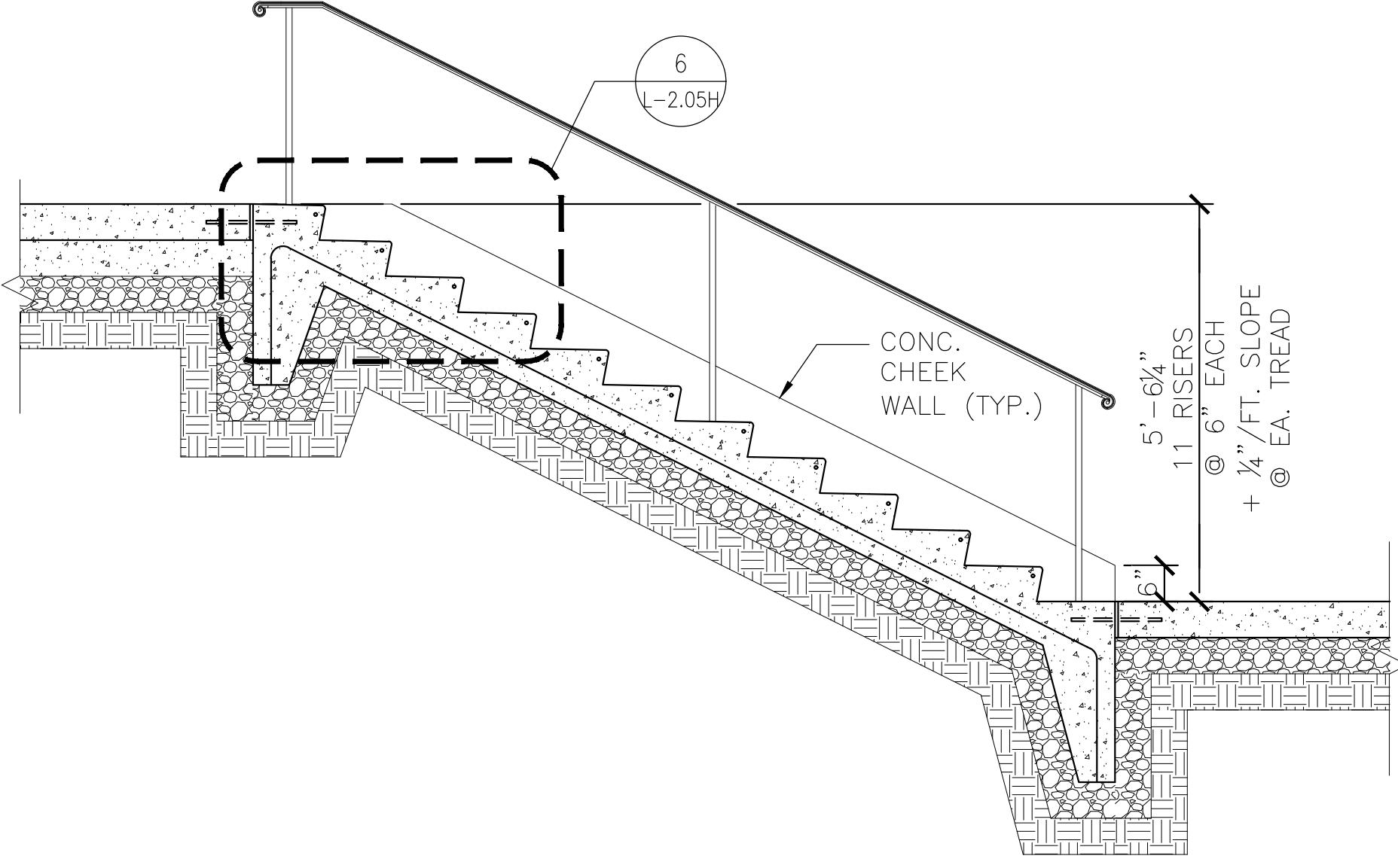
2 STAIR 2 PLAN
L-1.01HL-2.03H SCALE: 1/4" = 1'-0"



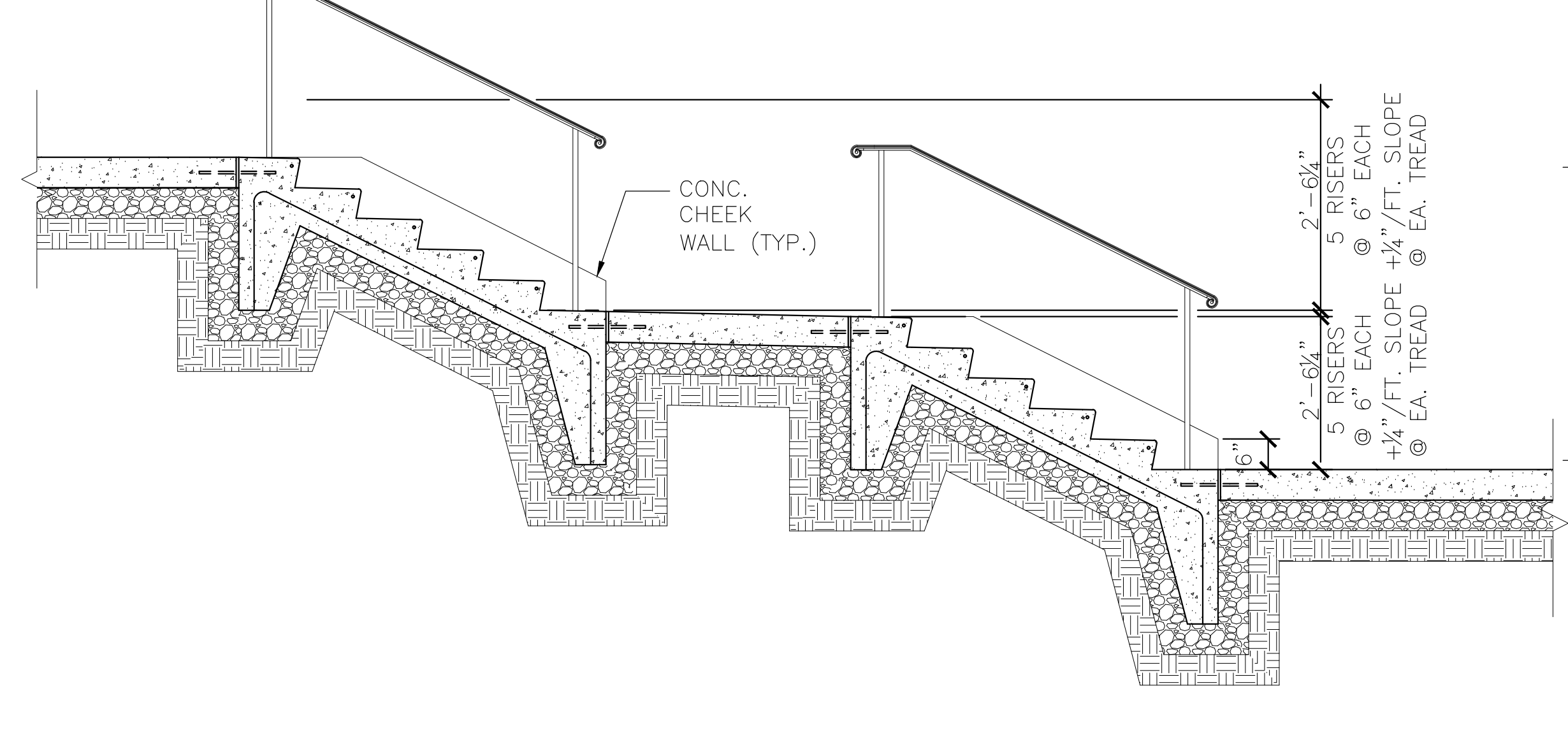
3 STAIR 3 PLAN
L-1.01HL-2.03H SCALE: 1/4" = 1'-0"



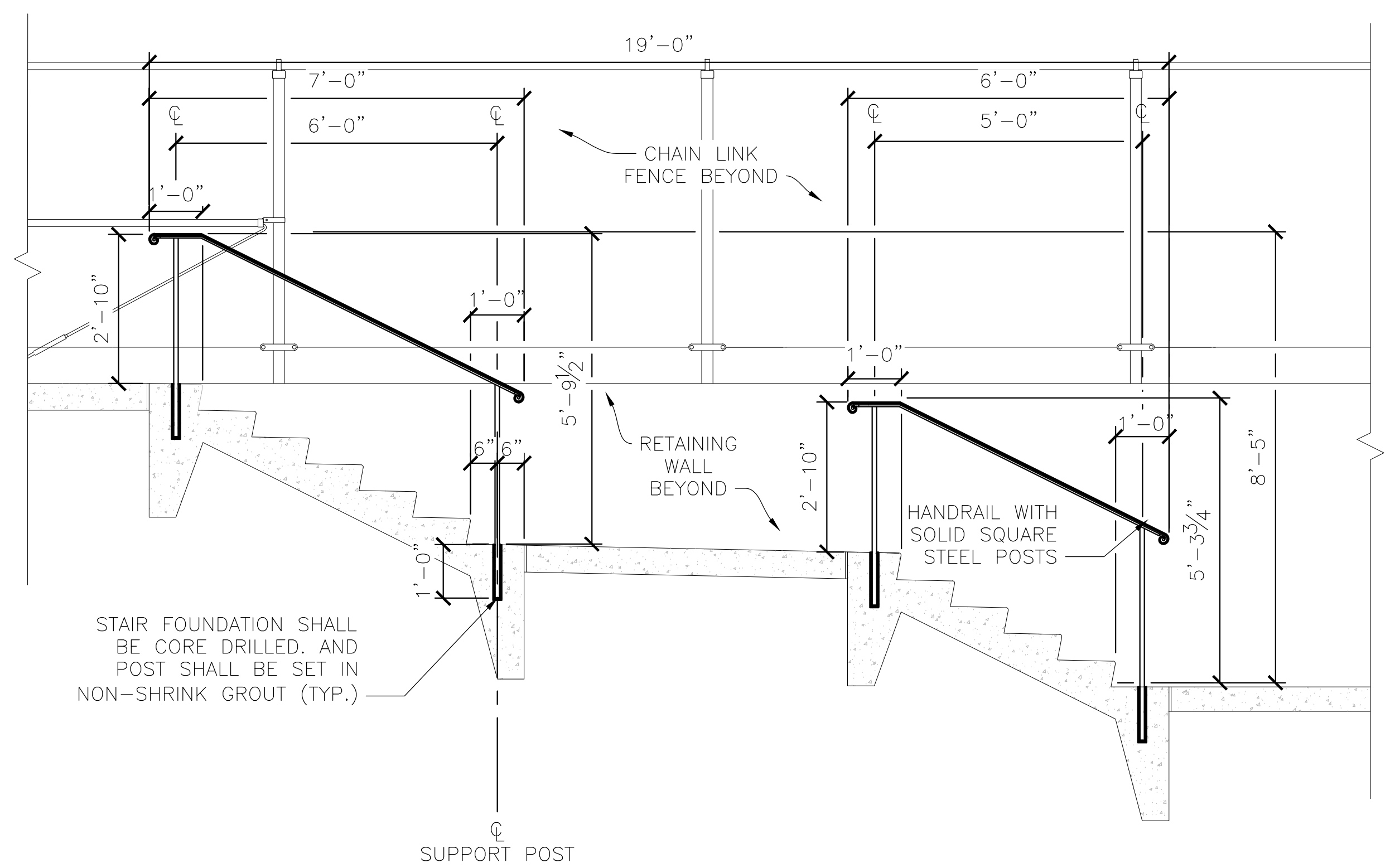
4 STAIR 1 SECTION DETAIL
L-2.03HL-2.03H SCALE: 1/2" = 1'-0"



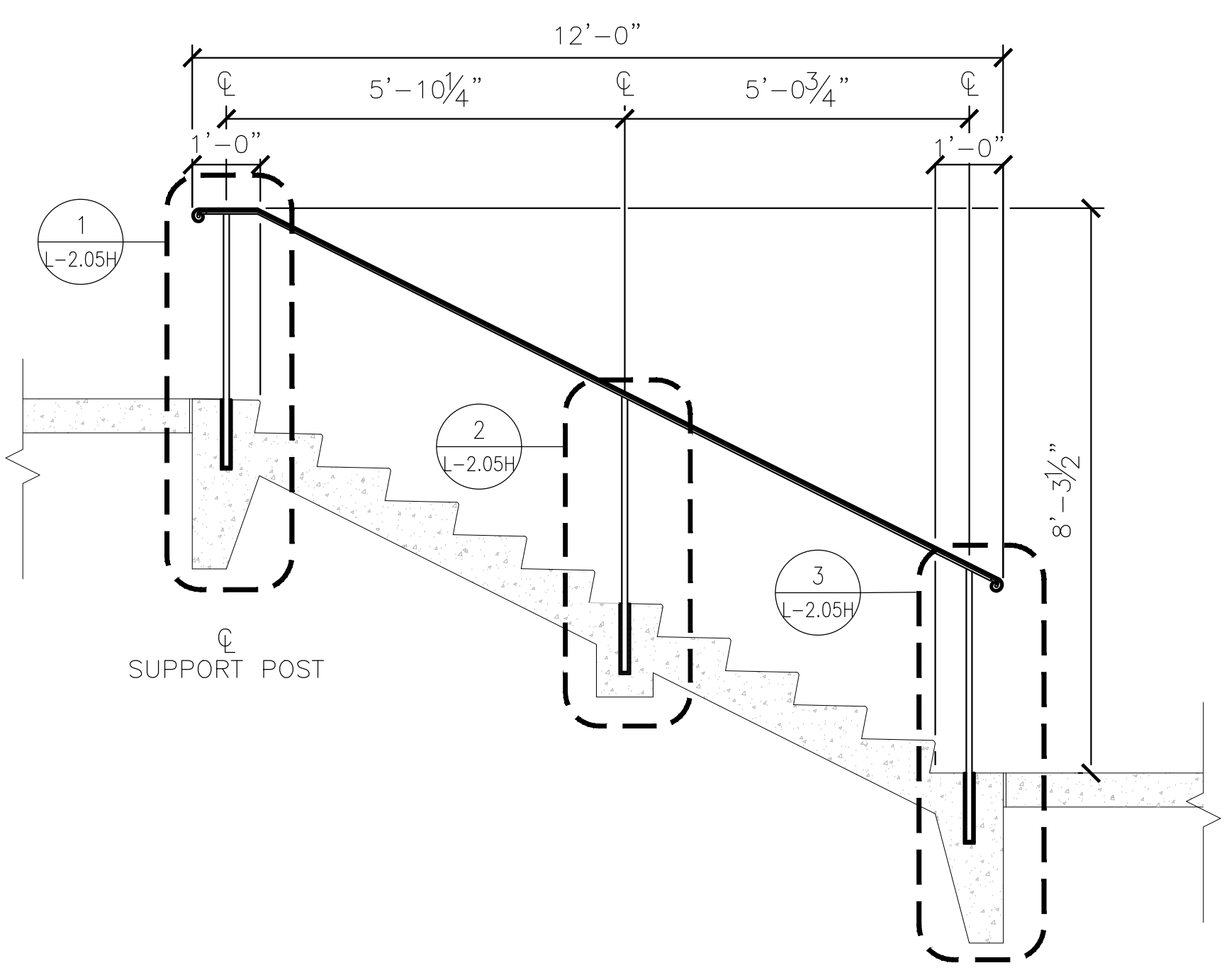
5 STAIR 2 SECTION DETAIL
L-2.03HL-2.03H SCALE: 1/2" = 1'-0"



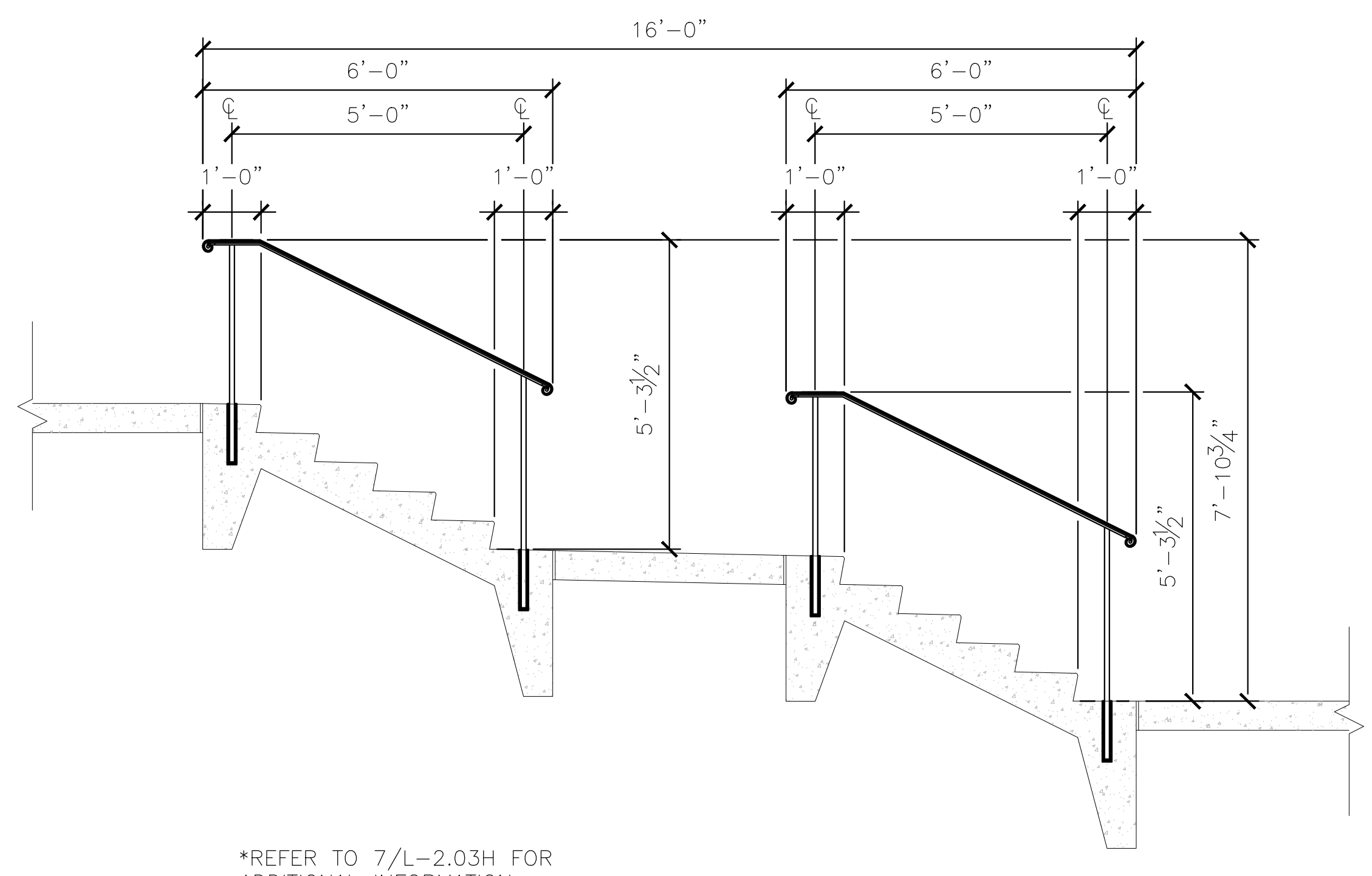
6 STAIR 3 SECTION DETAIL
L-2.03HL-2.03H SCALE: 1/2" = 1'-0"



7 STAIR 1 HANDRAIL DETAIL
L-2.03HL-2.03H SCALE: 1/2" = 1'-0"



8 STAIR 2 HANDRAIL DETAIL
L-2.03HL-2.03H SCALE: 1/2" = 1'-0"



9 STAIR 3 HANDRAIL DETAIL
L-2.03HL-2.03H SCALE: 1/2" = 1'-0"

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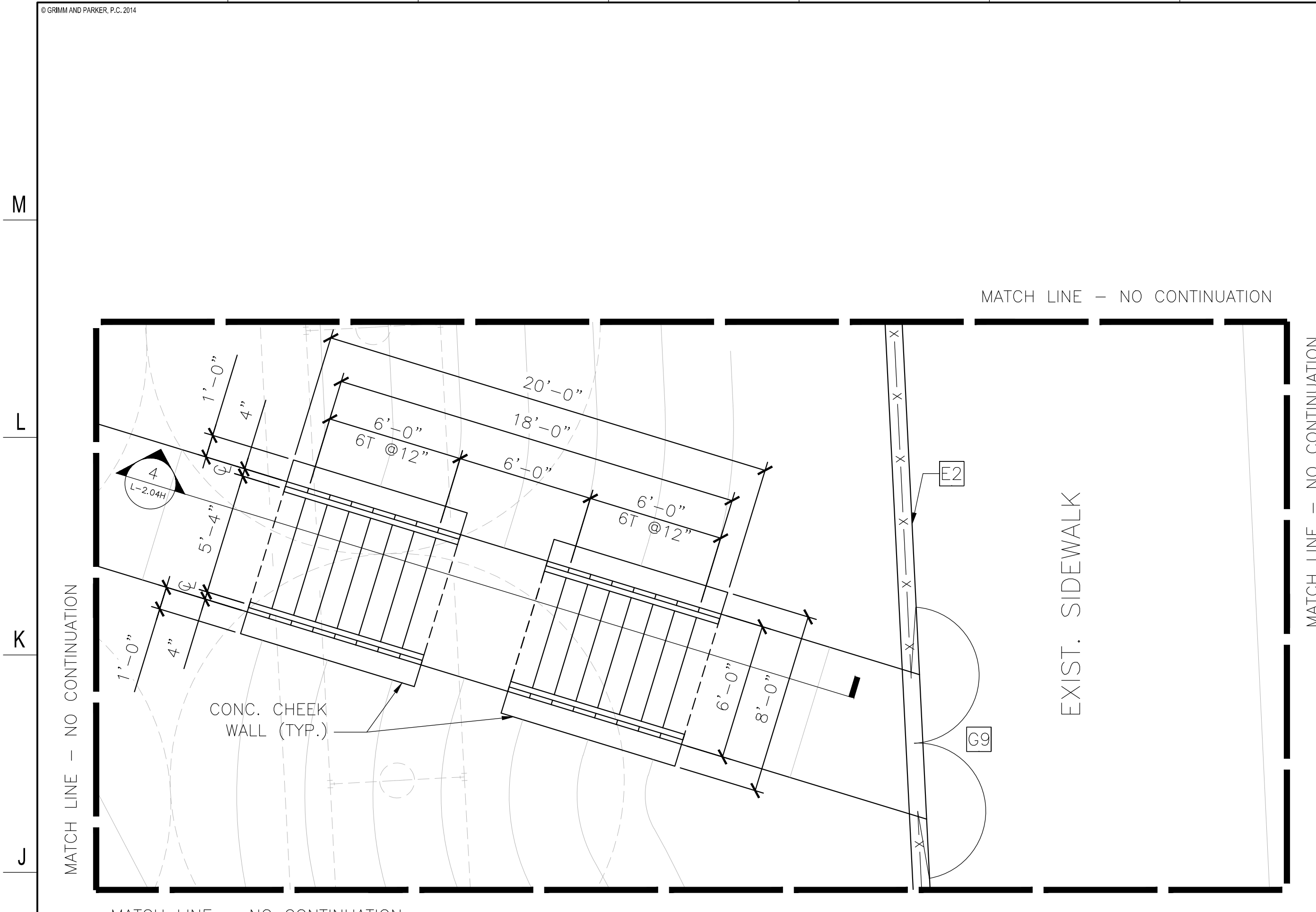


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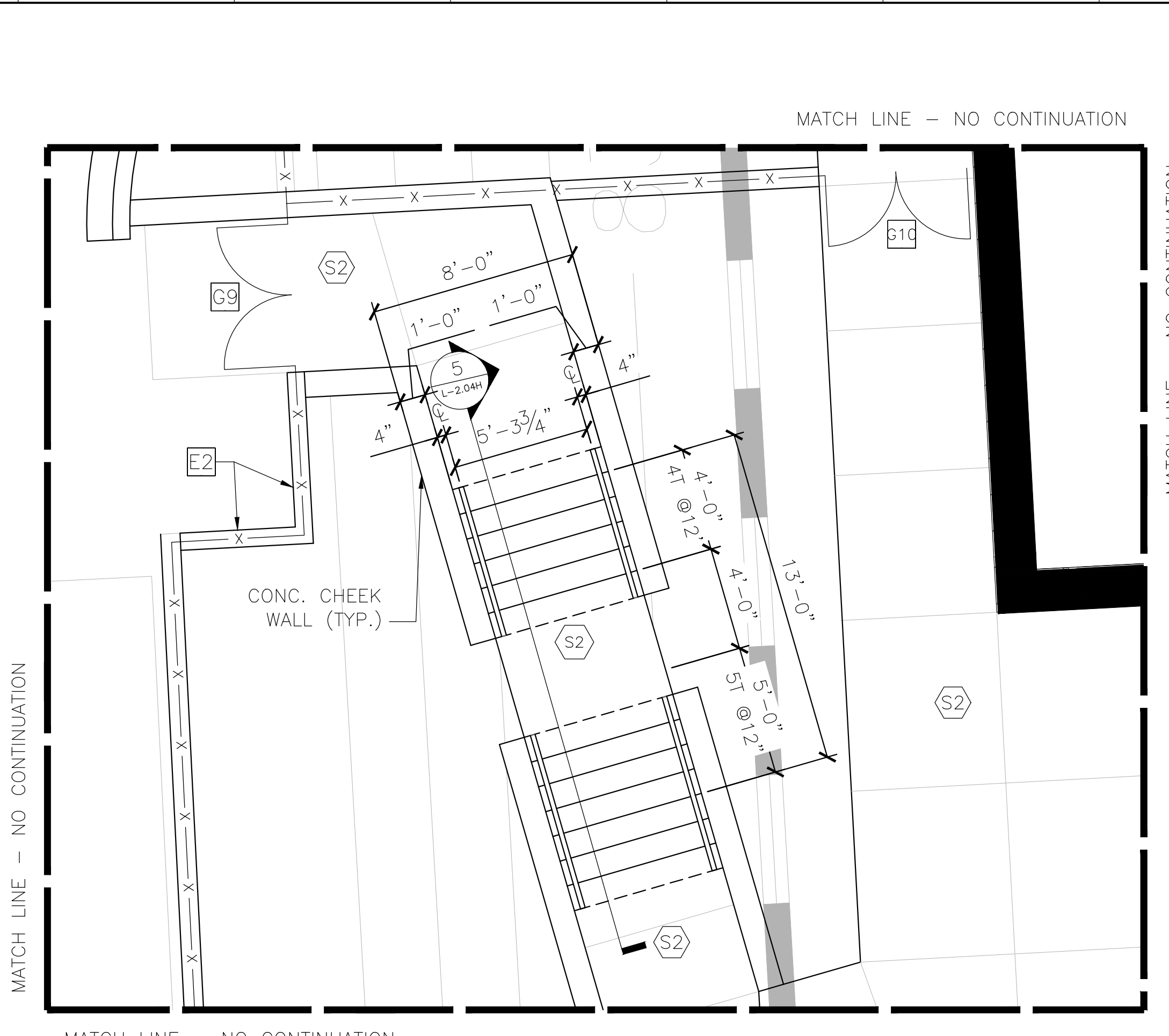
ENLARGED STAIR PLANS AND STAIR DETAILS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

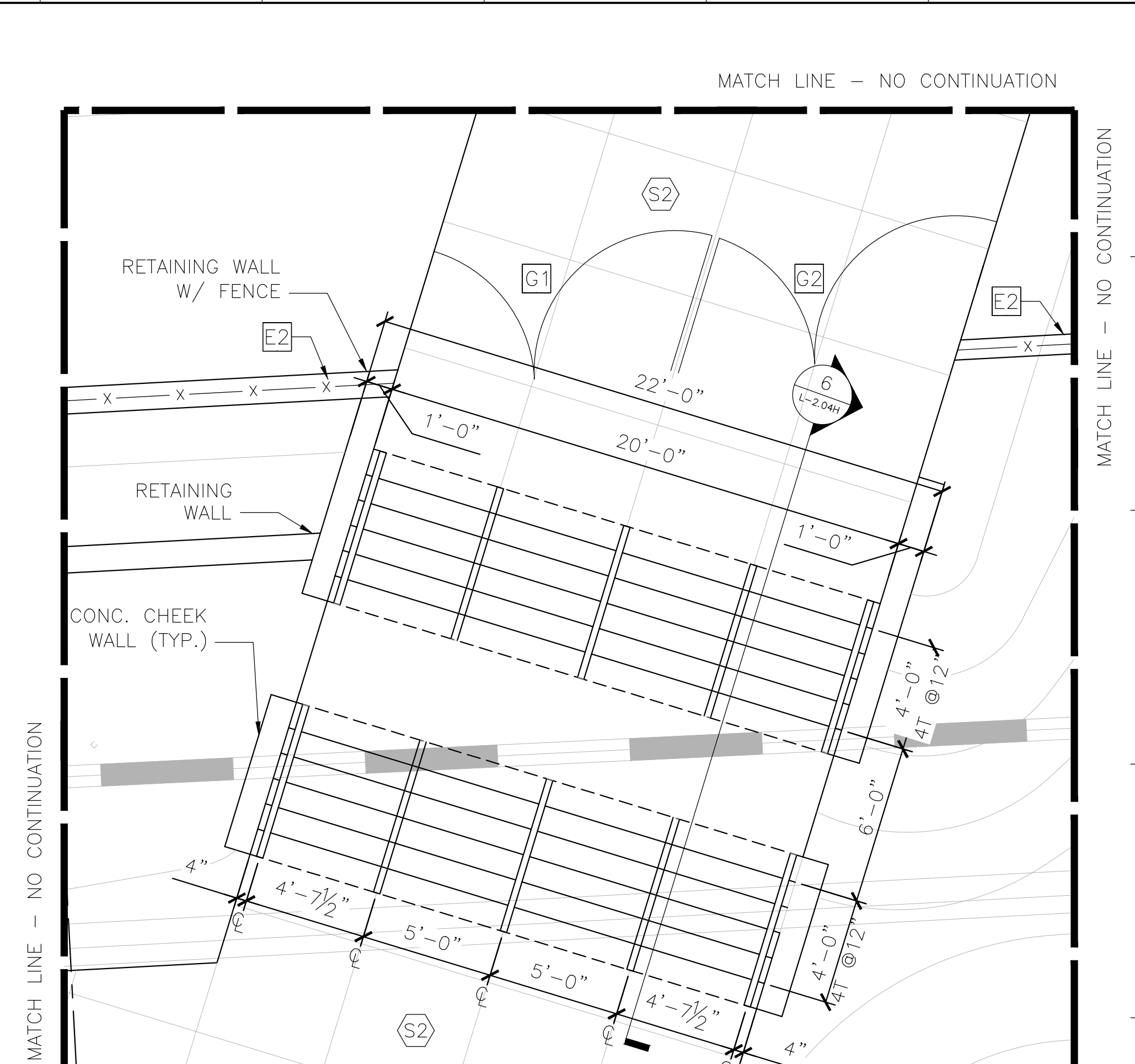
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03/13/2017
BID SET



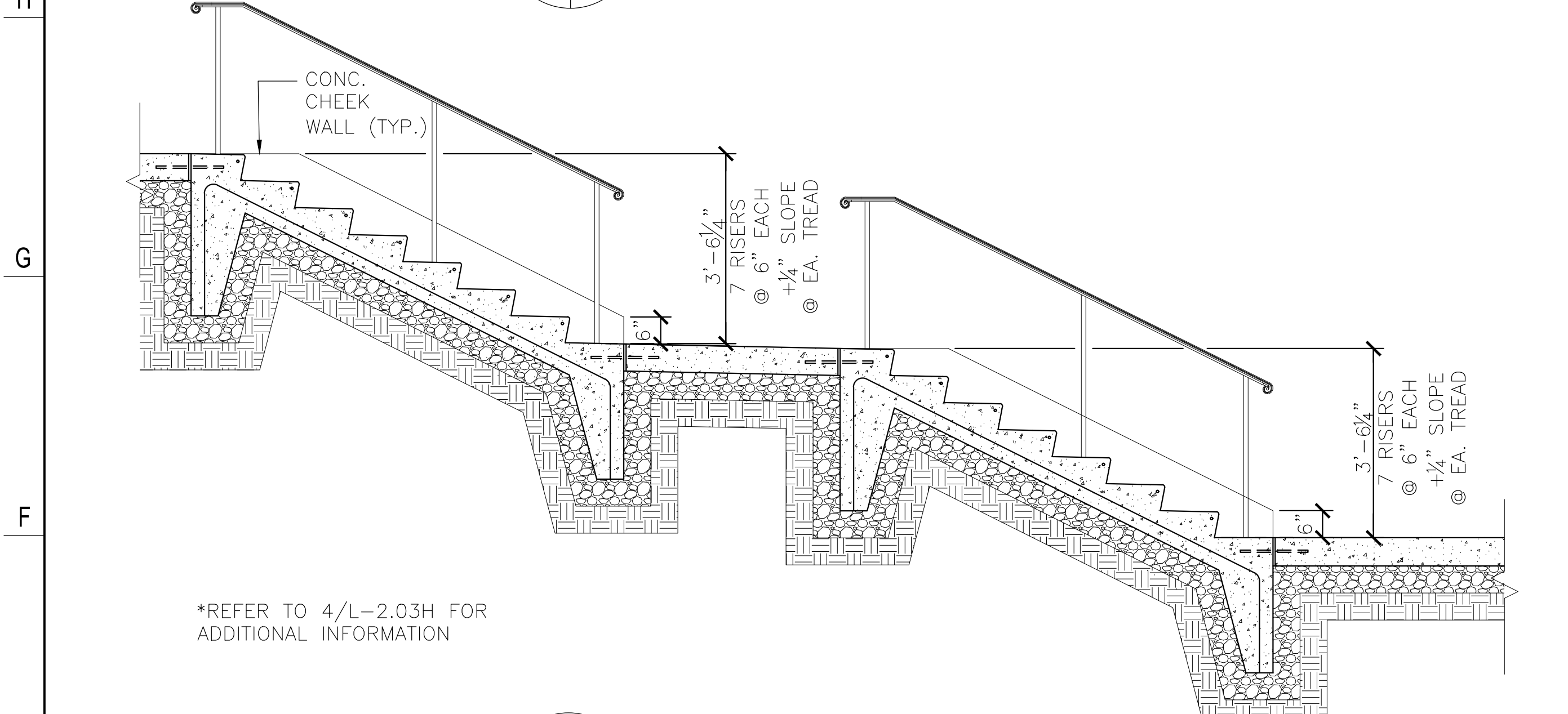
1 STAIR 4 PLAN
L-1.01H L-2.04H SCALE: 1/4" = 1'-0"



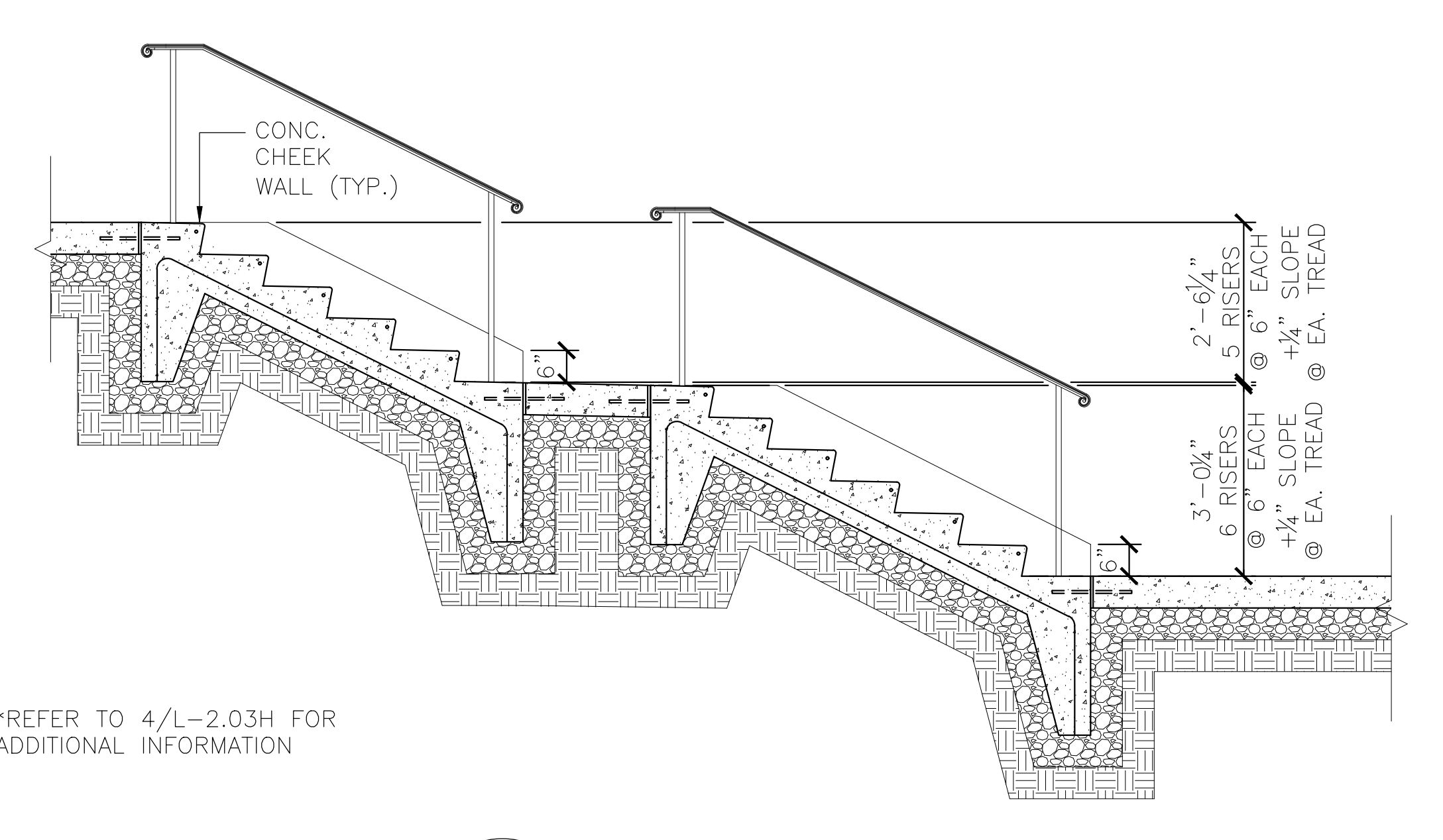
2 STAIR 5 PLAN
L-1.01H L-2.04H SCALE: 1/4" = 1'-0"



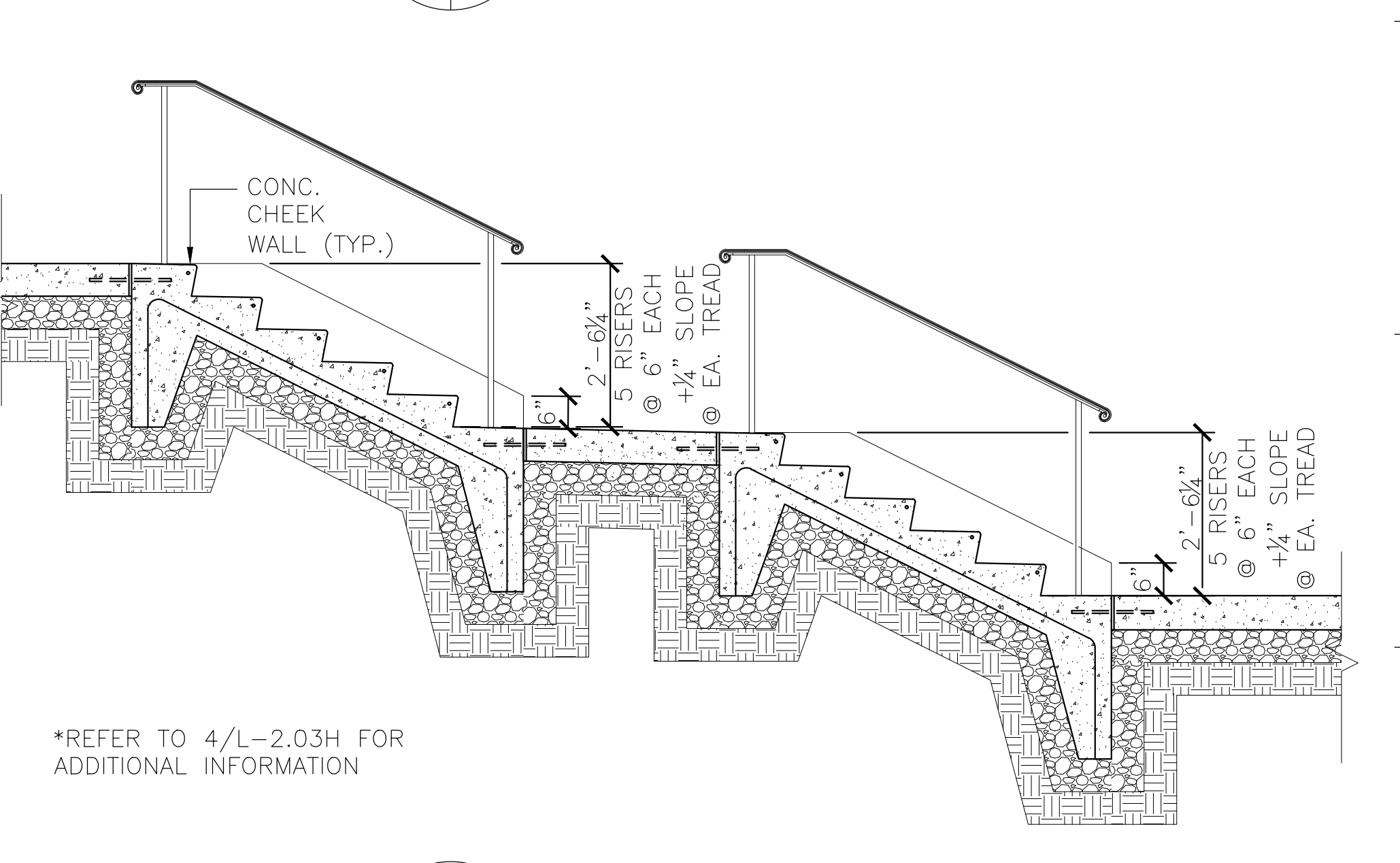
3 STAIR 6 PLAN
L-1.01H L-2.04H SCALE: 1/4" = 1'-0"



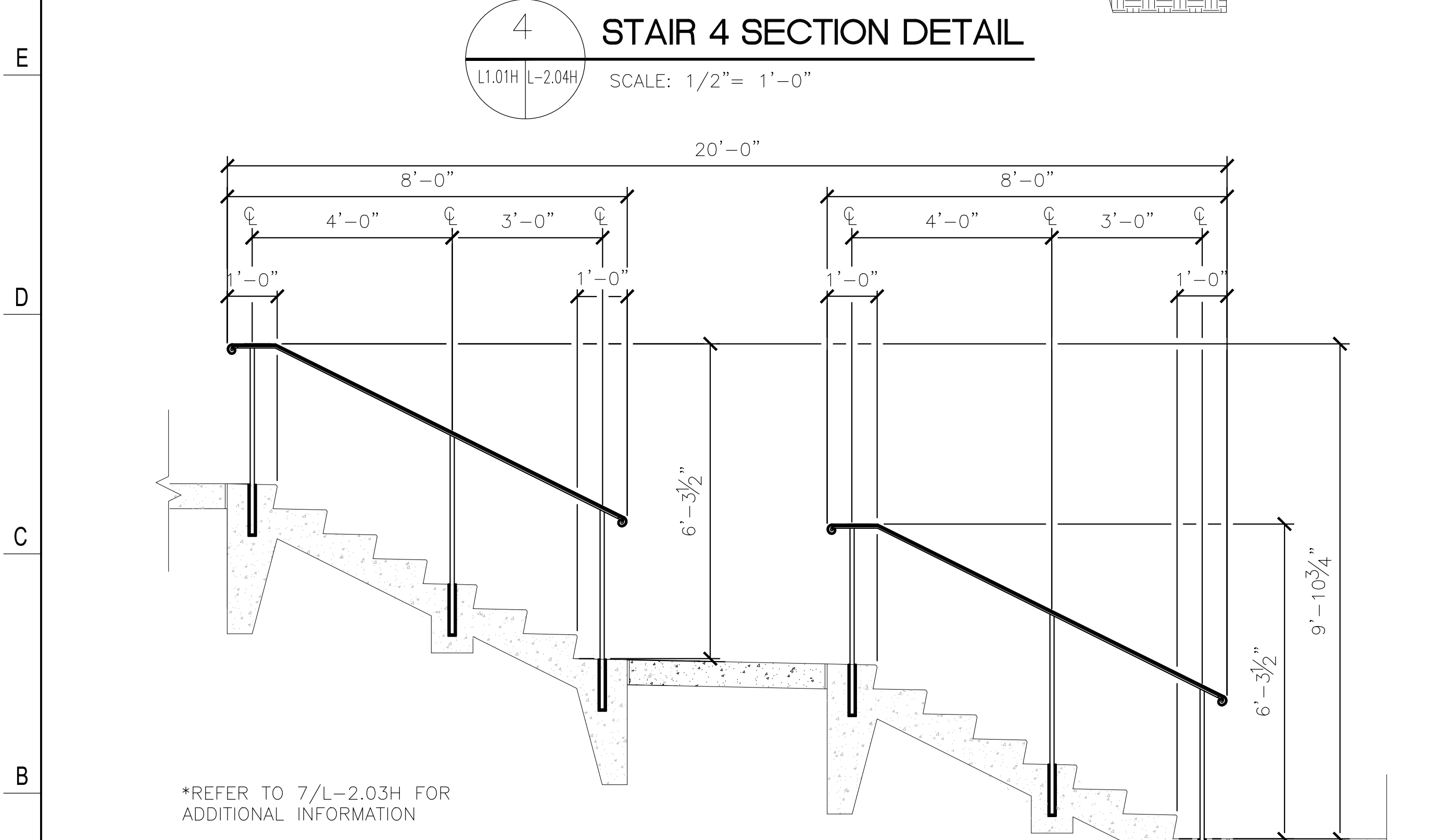
4 STAIR 4 SECTION DETAIL
L1.01H L-2.04H SCALE: 1/2" = 1'-0"



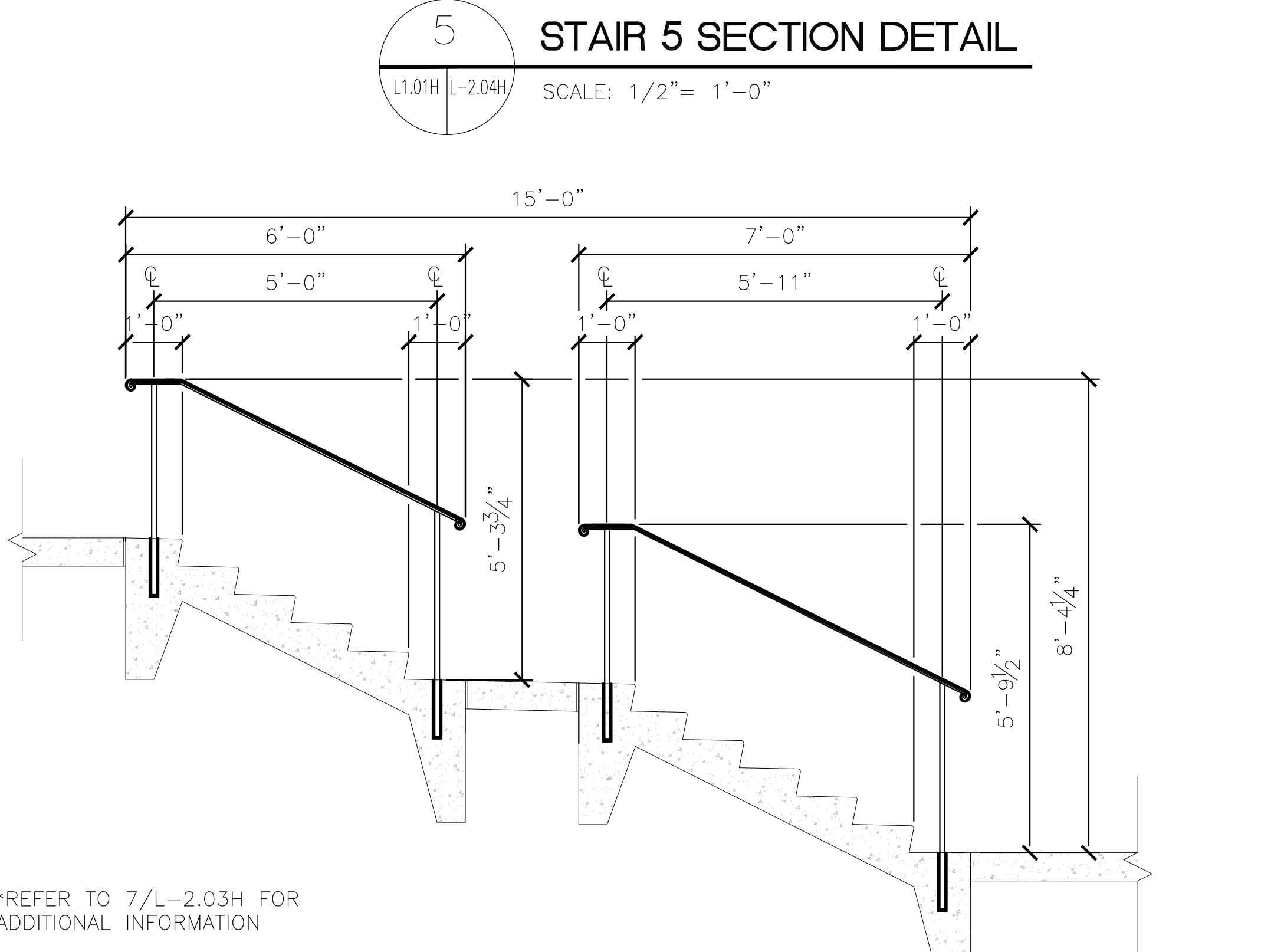
5 STAIR 5 SECTION DETAIL
L1.01H L-2.04H SCALE: 1/2" = 1'-0"



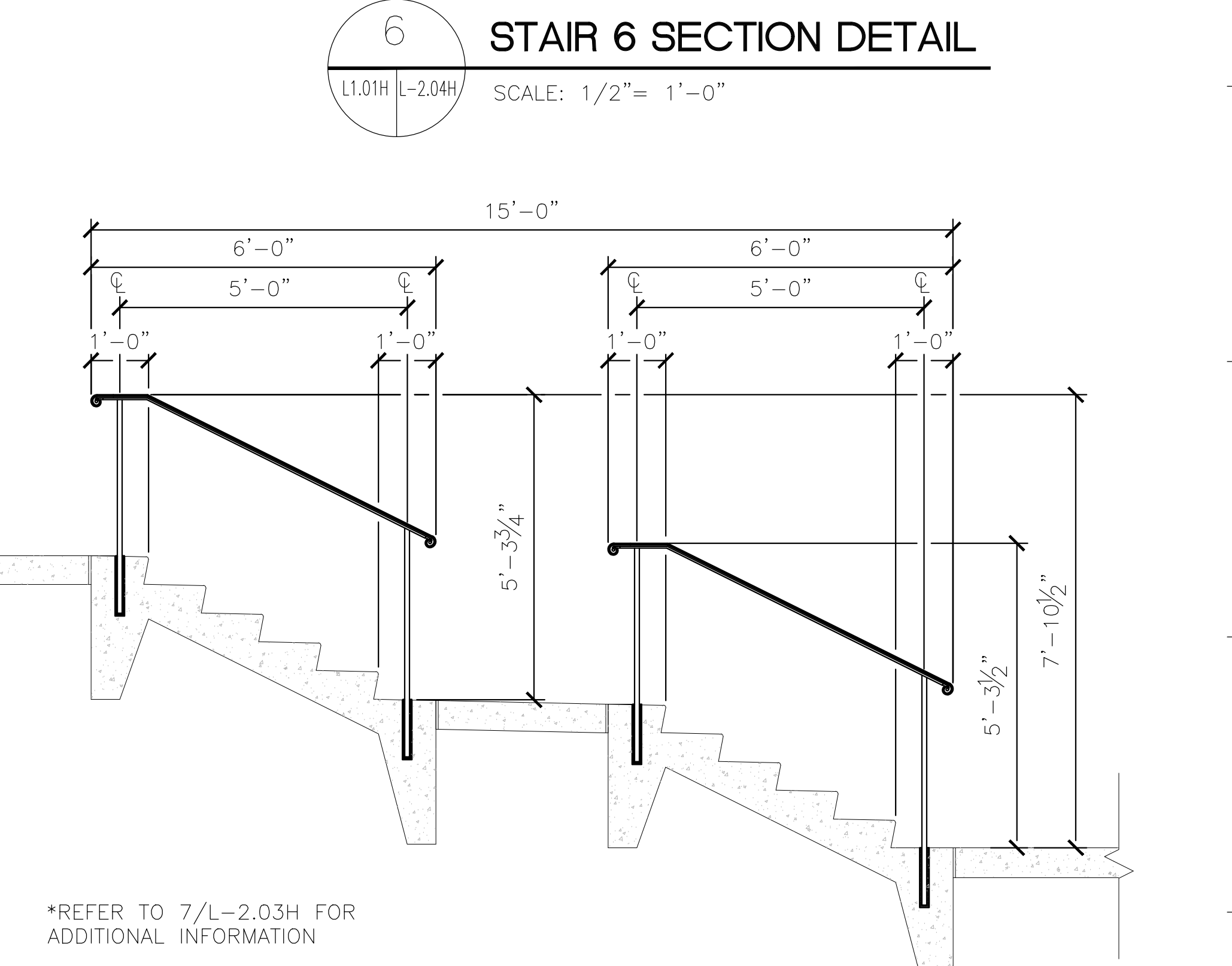
6 STAIR 6 SECTION DETAIL
L1.01H L-2.04H SCALE: 1/2" = 1'-0"



7 STAIR 4 HANDRAIL DETAIL
L1.01H L-2.04H SCALE: 1/2" = 1'-0"



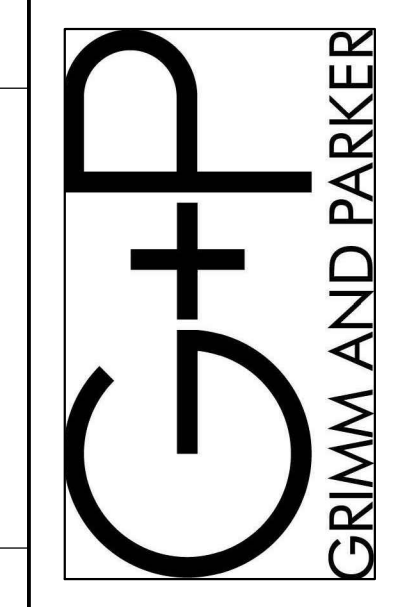
8 STAIR 5 HANDRAIL DETAIL
L1.01H L-2.04H SCALE: 1/2" = 1'-0"



9 STAIR 6 HANDRAIL DETAIL
L1.01H L-2.04H SCALE: 1/2" = 1'-0"

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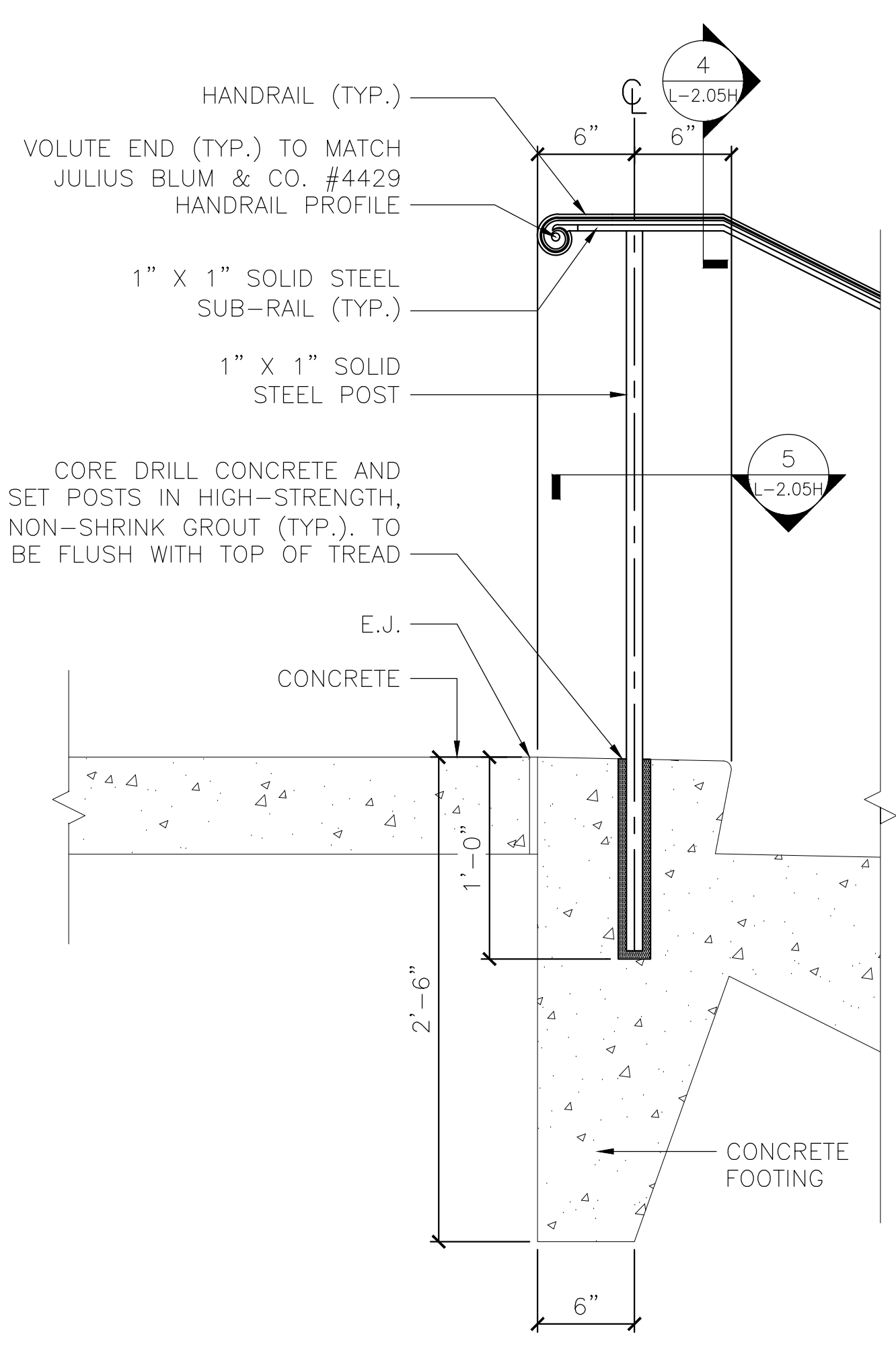


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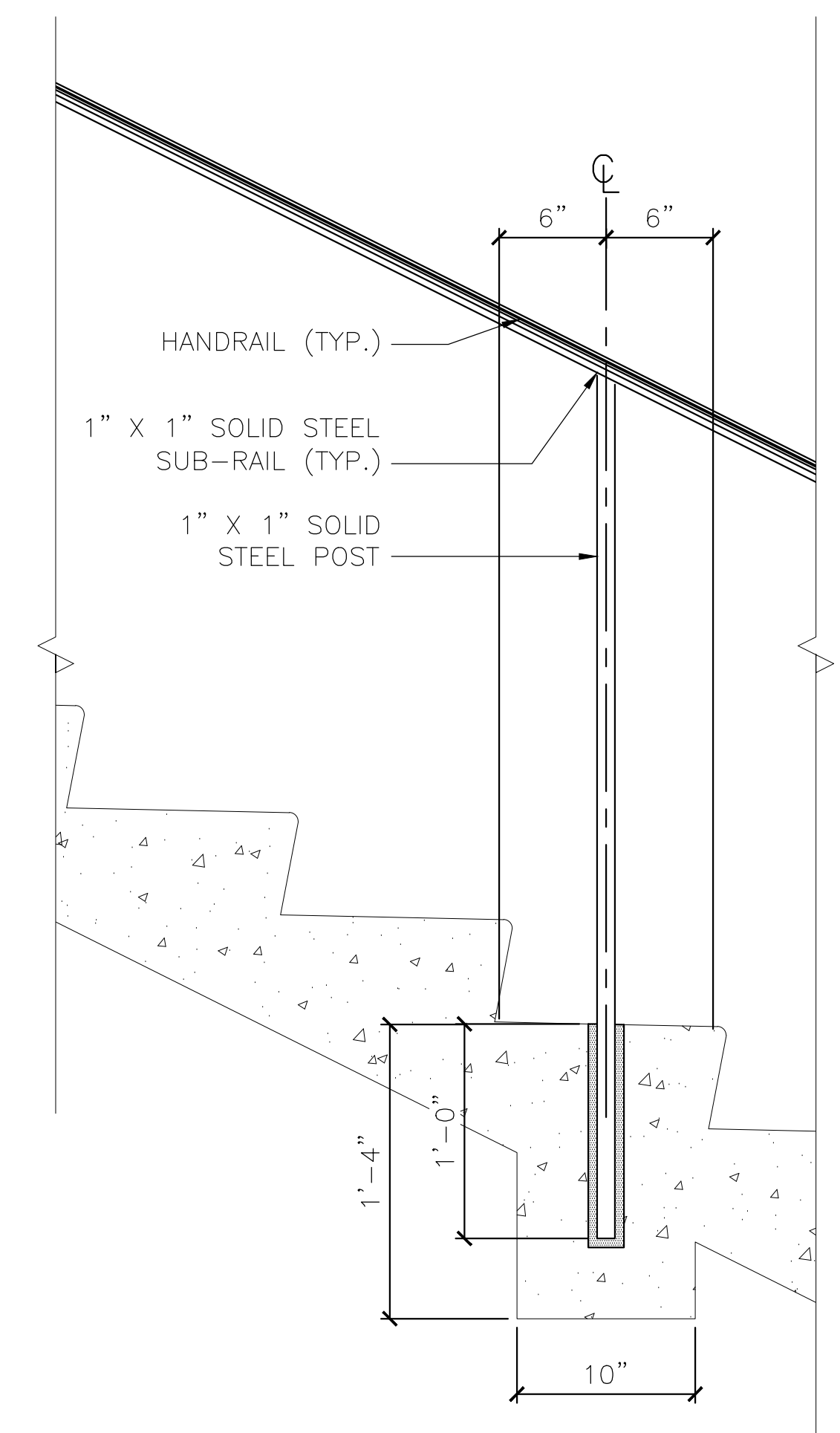
ENLARGED STAIR PLANS AND STAIR DETAILS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

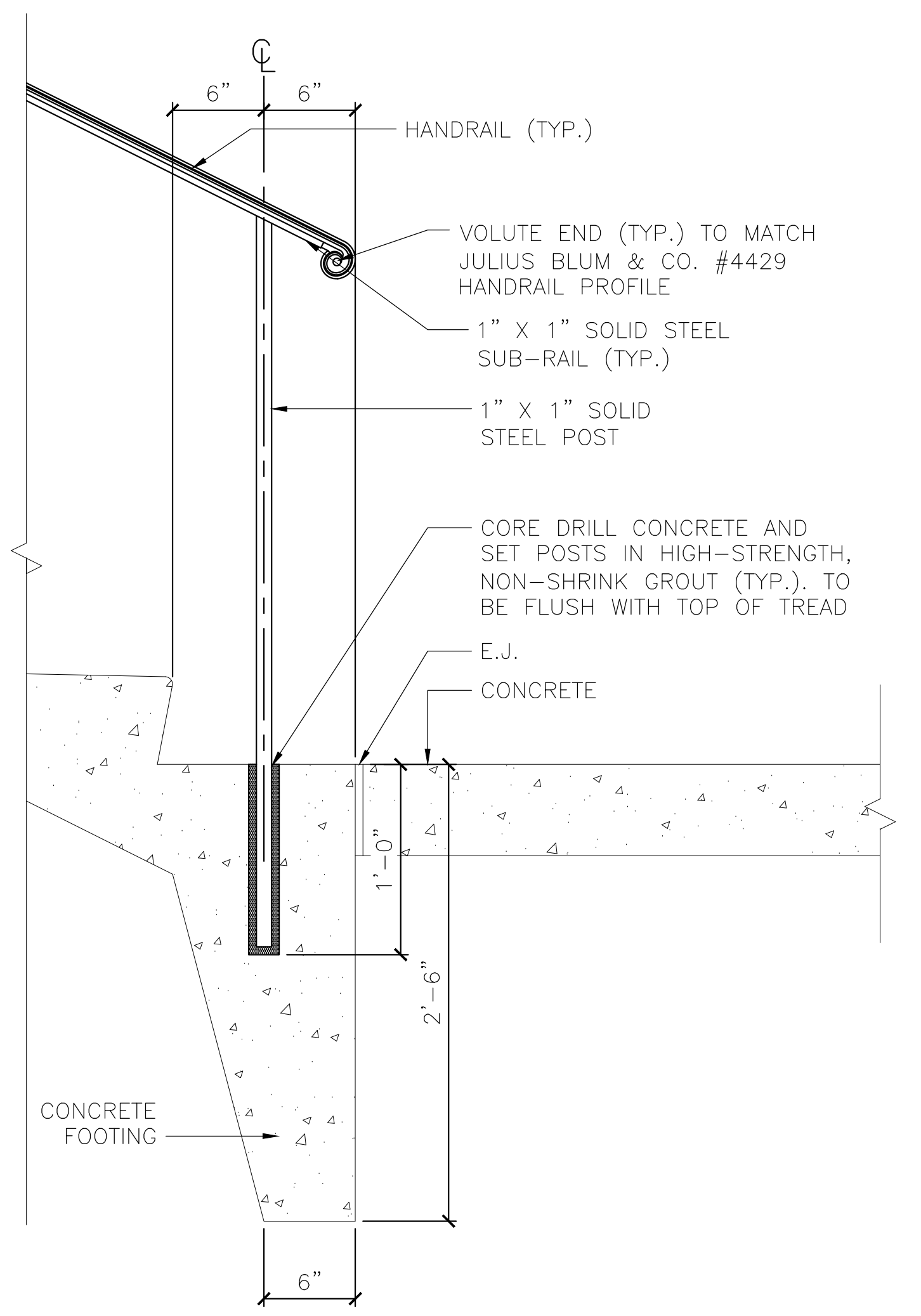
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03/13/2017
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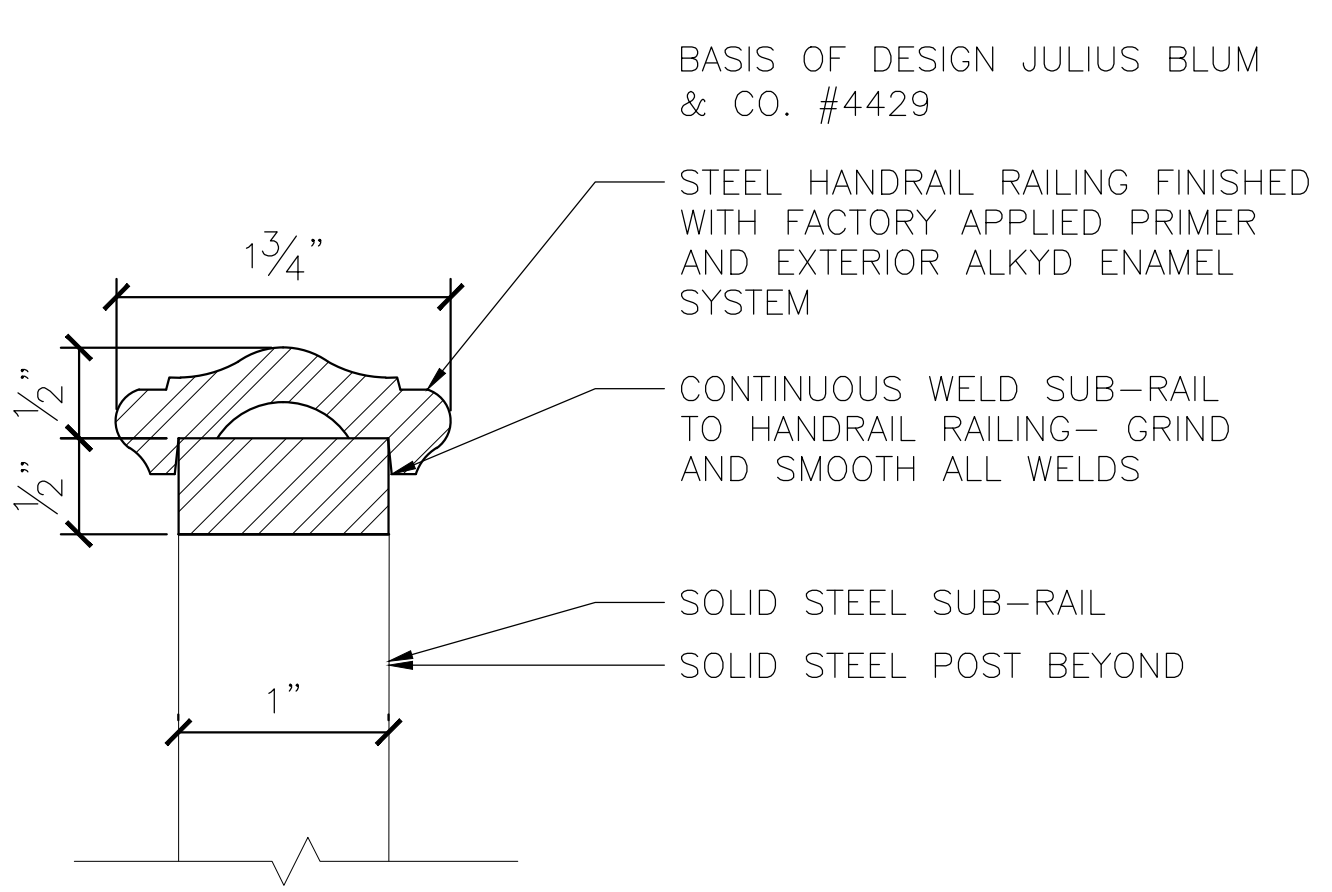
1 TYPICAL HANDRAIL/POST SECTION
 L-2.05H | L-2.05H SCALE: 1-1/2" = 1'-0"



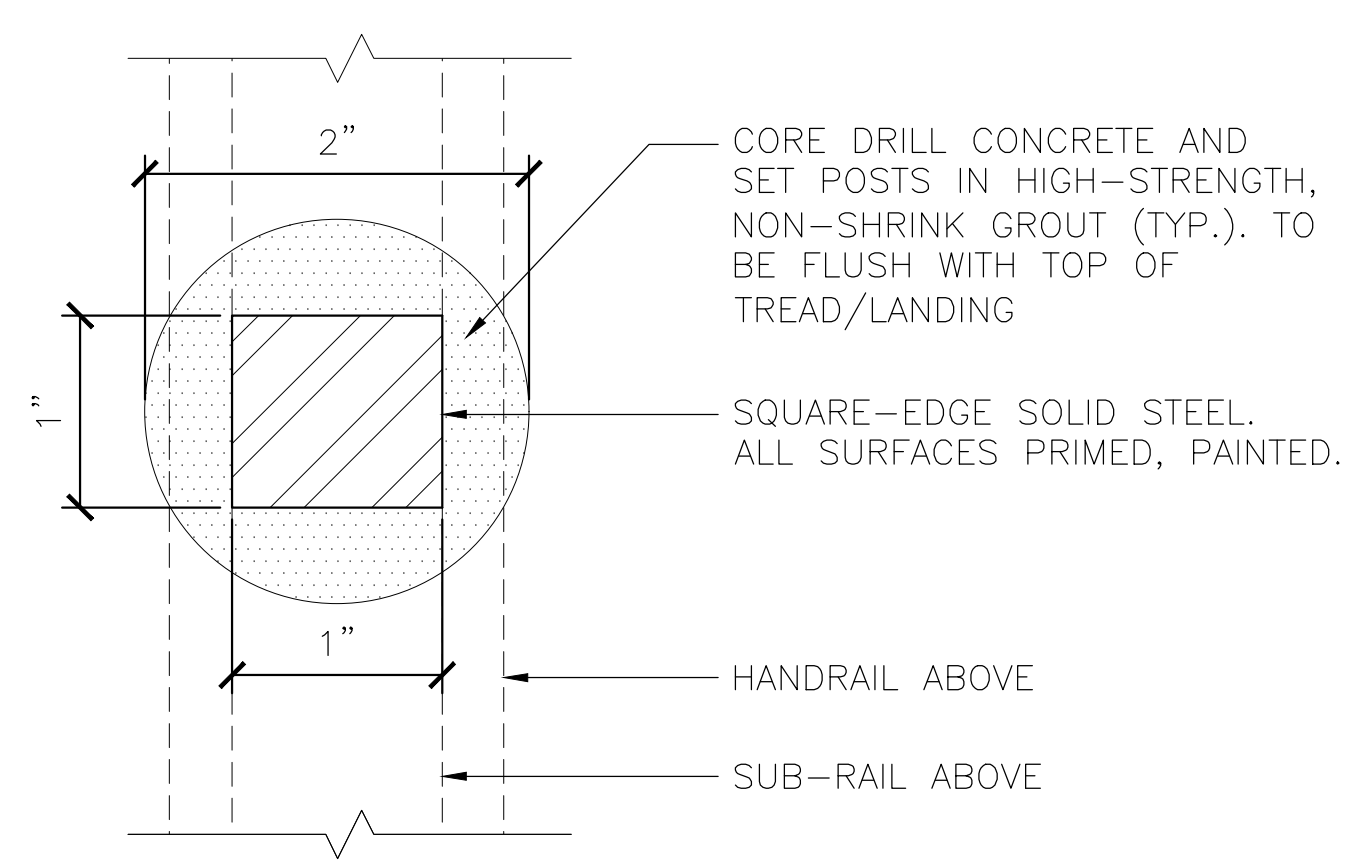
2 TYPICAL HANDRAIL/POST SECTION
 L-2.03H | L-2.05H SCALE: 1-1/2" = 1'-0"



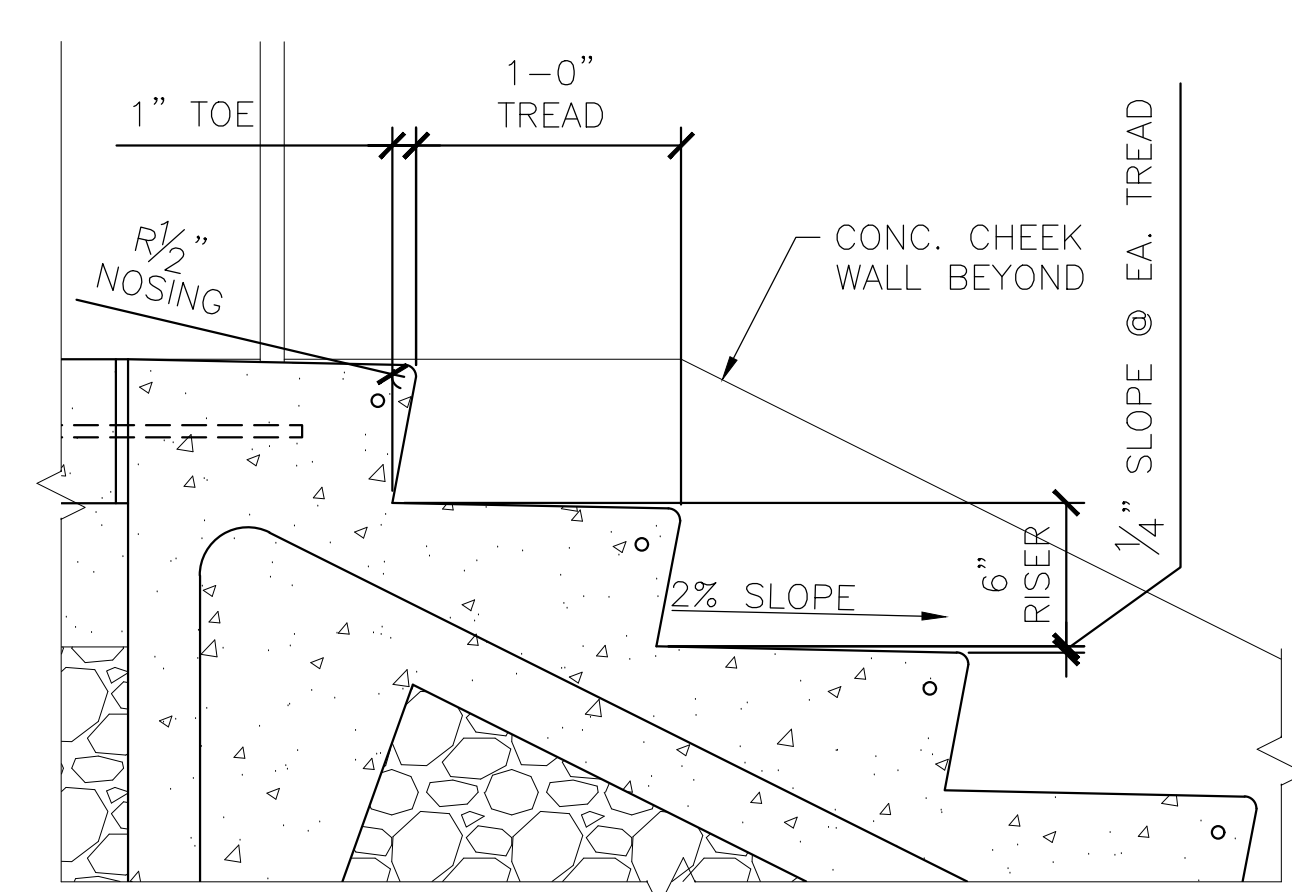
3 TYPICAL HANDRAIL/POST SECTION
 L-2.05H | L-2.05H SCALE: 1-1/2" = 1'-0"



4 TYPICAL HANDRAIL DETAIL
 L-2.05H | L-2.05H SCALE: 1'-0" = 1'-0"



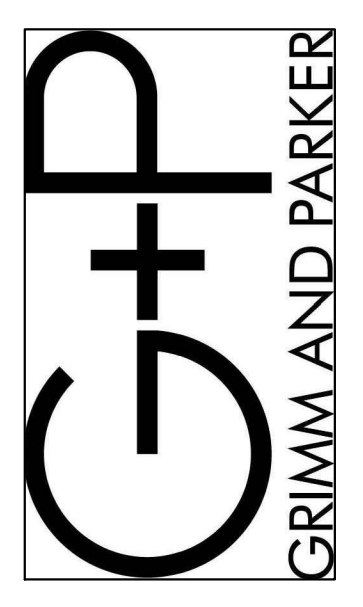
5 TYPICAL POST DETAIL
 L-2.05H | L-2.05H SCALE: 1'-0" = 1'-0"



6 TYPICAL STAIR TREAD/RISER DETAIL
 L-2.03H | L-2.05H SCALE: 1-1/2" = 1'-0"

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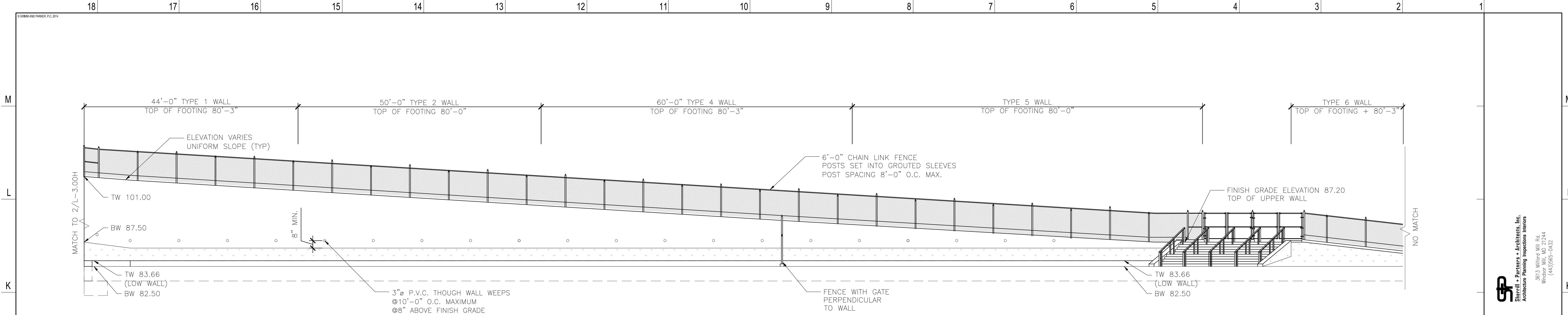


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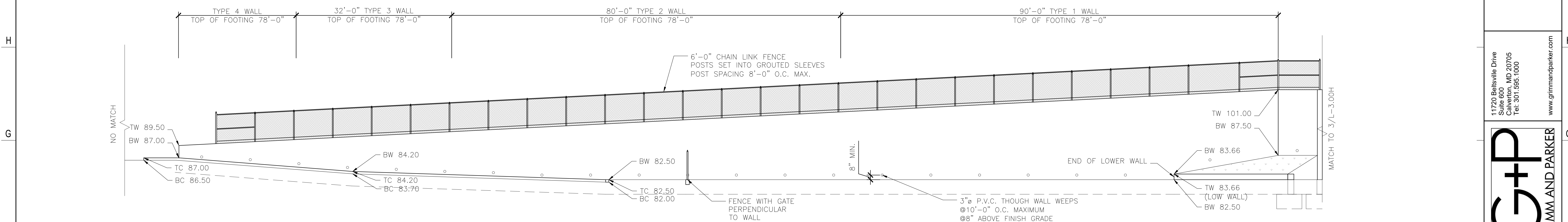
STAIR DETAILS
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

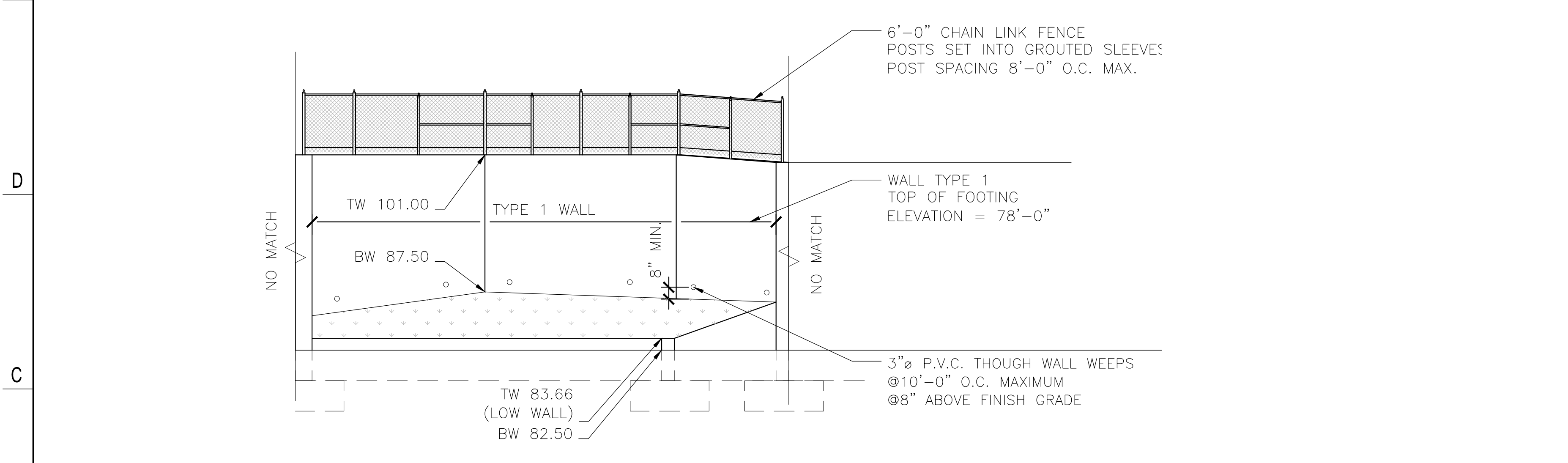
L-2.05H
 03/13/2017
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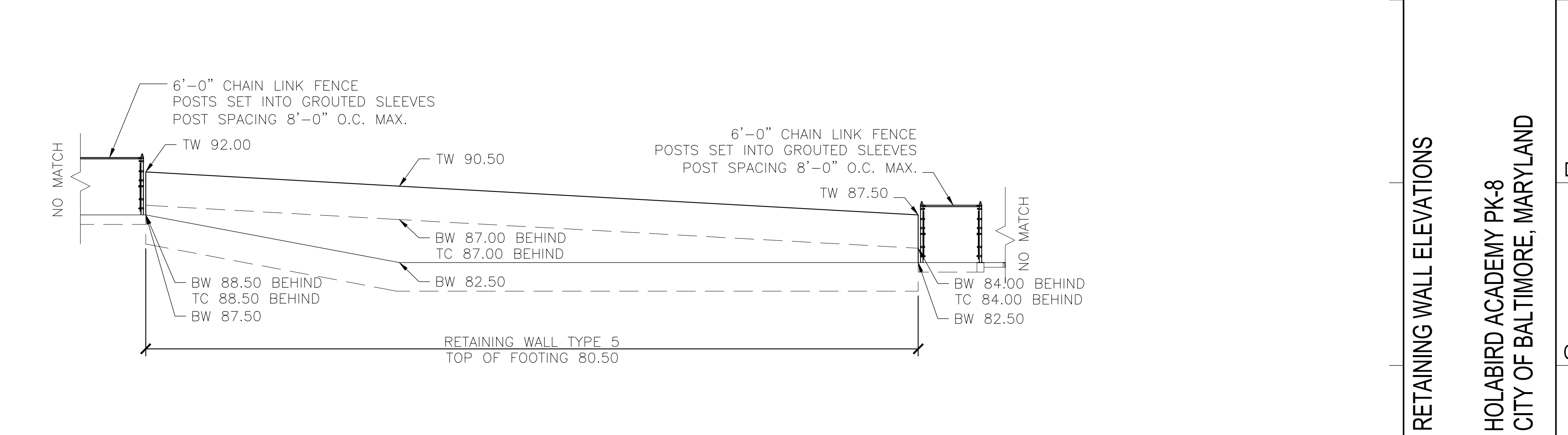
1 SOUTH FACE NORTH WALL
 SCALE: 1/8" = 1'-0"
 *FOR WALL TYPES SEE STRUCTURAL DRAWINGS



2 EAST FACE WEST WALL
 SCALE: 1/8" = 1'-0"
 *FOR WALL TYPES SEE STRUCTURAL DRAWINGS



3 SOUTH-EAST FACE NORTH-WEST WALL ELEVATION
 SCALE: 1/8" = 1'-0"
 *FOR WALL TYPES SEE STRUCTURAL DRAWINGS



4 SOUTH-EAST FACE OF SERVICE AREA WALL
 SCALE: 1/8" = 1'-0"
 *FOR WALL TYPES SEE STRUCTURAL DRAWINGS

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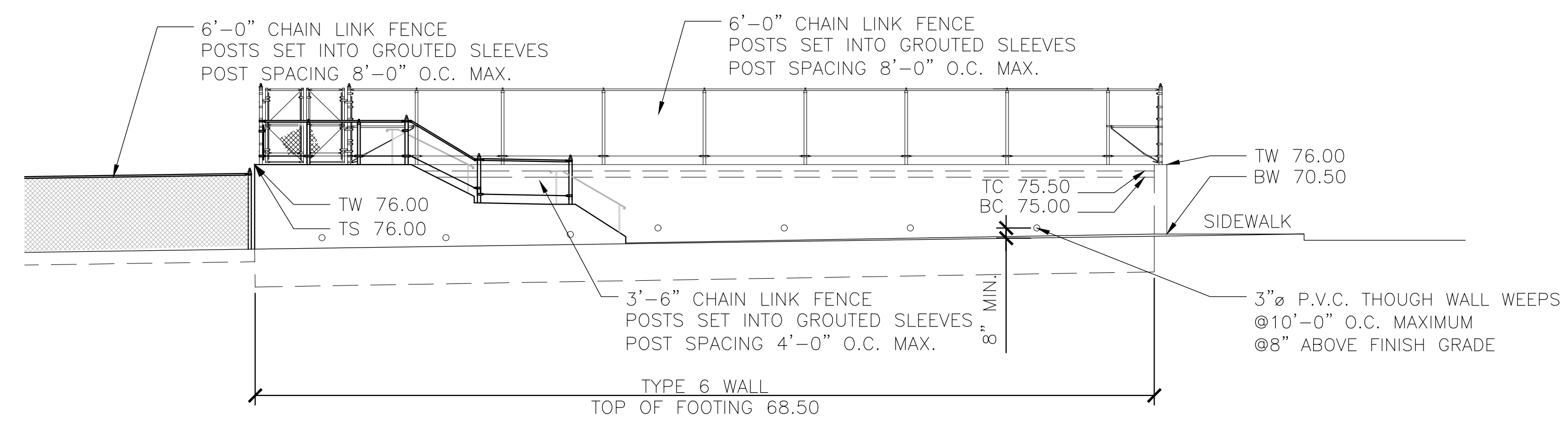
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GP# 21553

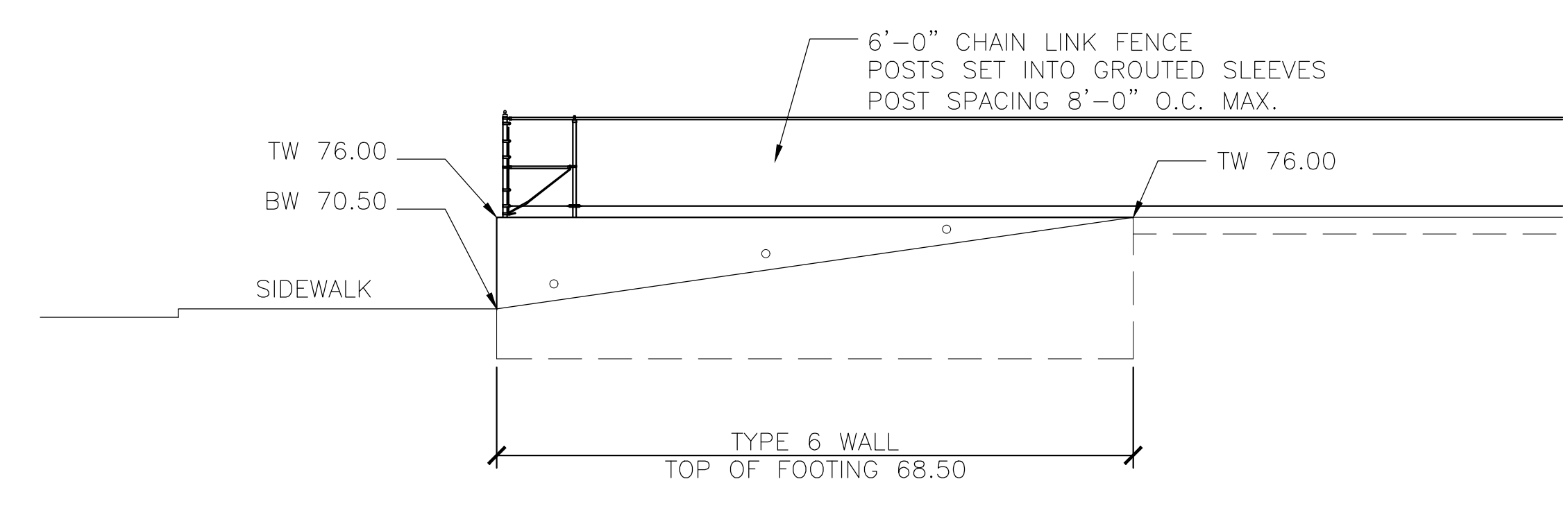
RETAINING WALL ELEVATIONS
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

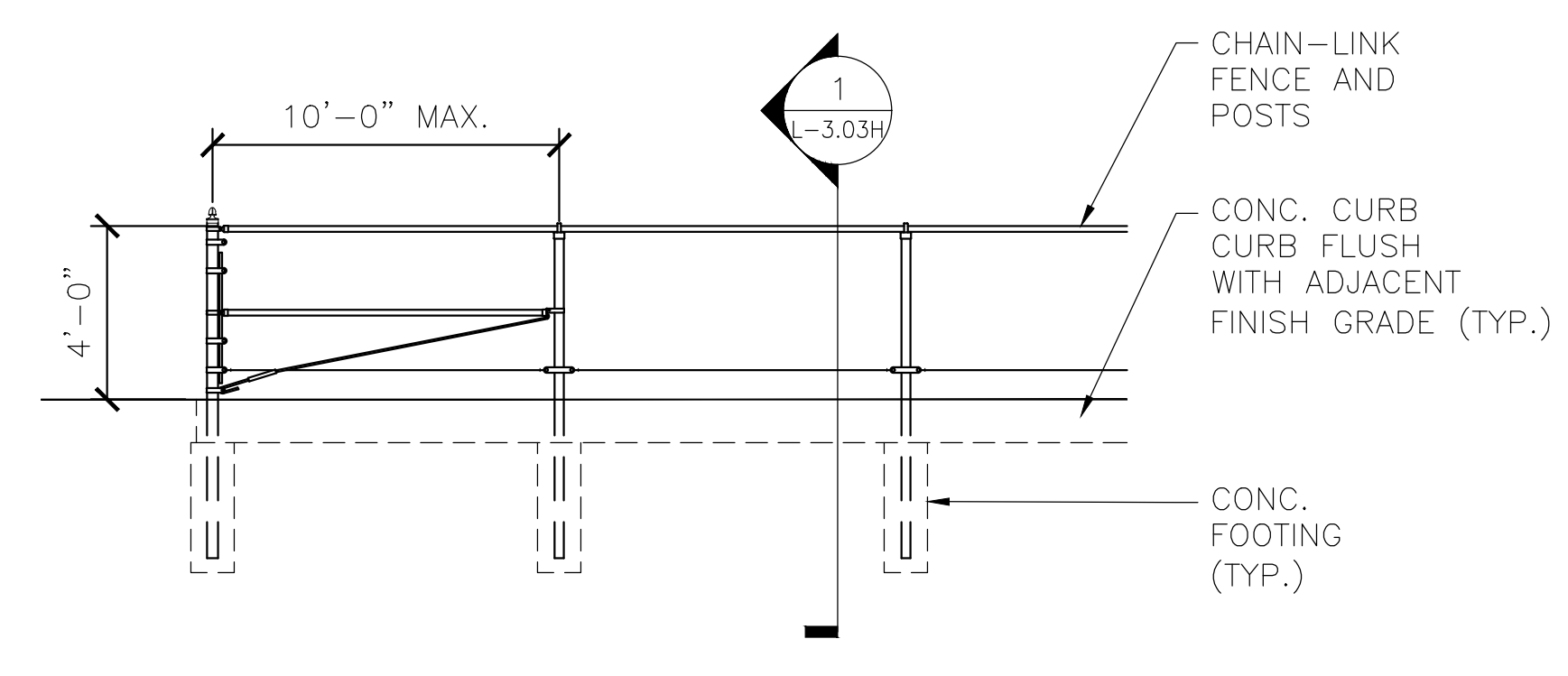
L-3.00H
 03/13/2017
 BID SET



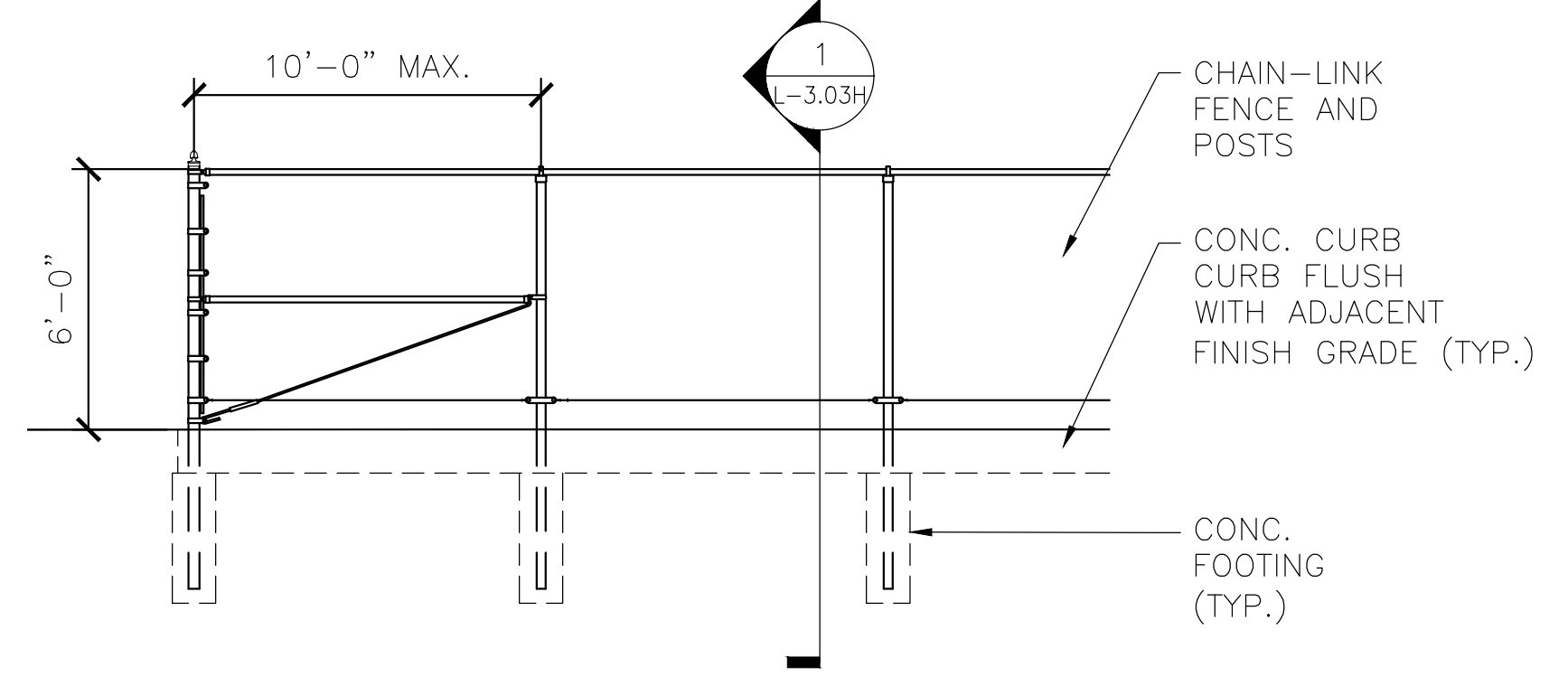
1 NORTH FACE OF NORTH WALL
 SCALE: 1/8" = 1'-0"
 *FOR WALL TYPES SEE STRUCTURAL DRAWINGS



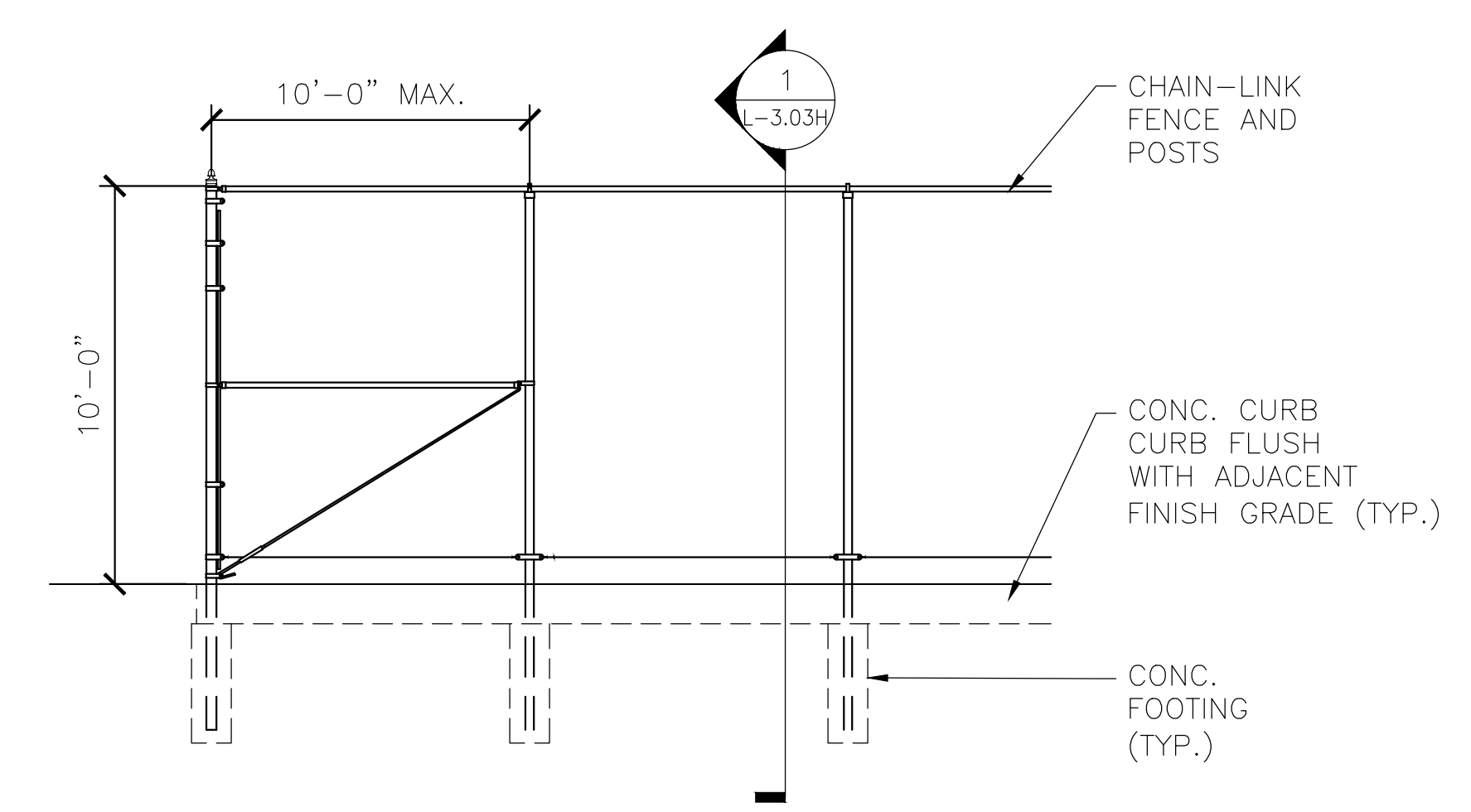
2 EAST FACE OF EAST WALL
 SCALE: 1/8" = 1'-0"
 *FOR WALL TYPES SEE STRUCTURAL DRAWINGS



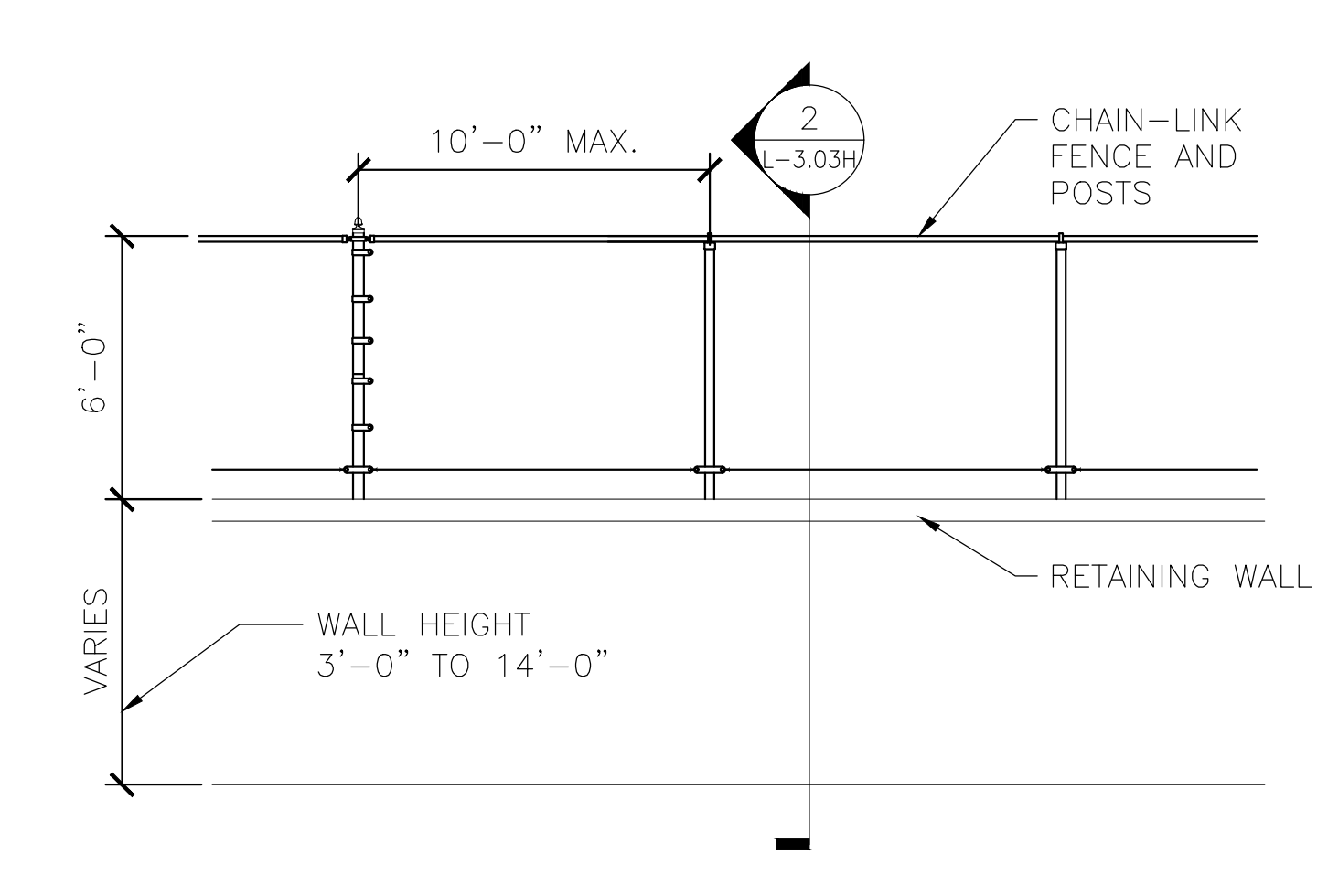
3 ENCLOSURE TYPE 1
 SCALE: 1/4" = 1'-0"



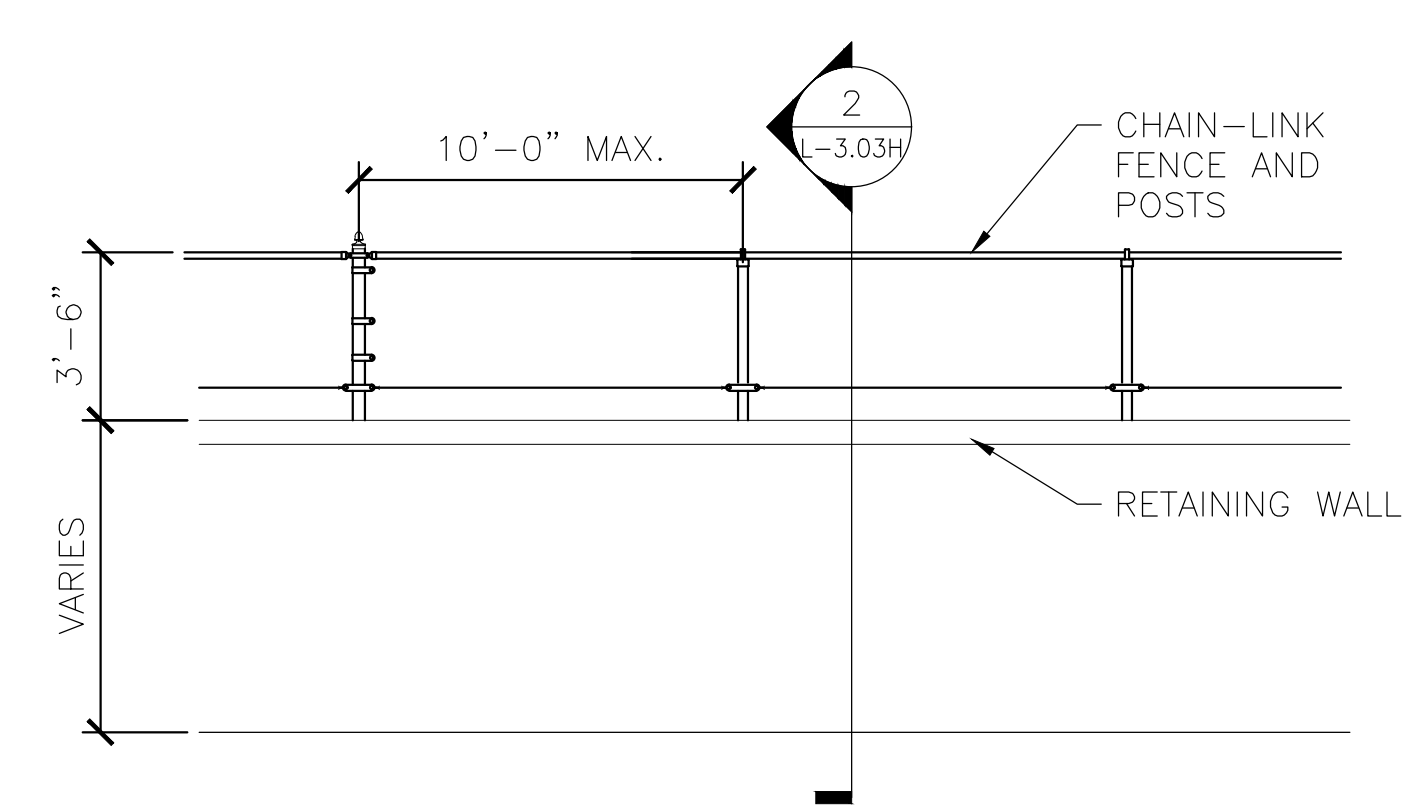
4 ENCLOSURE TYPE 2
 SCALE: 1/4" = 1'-0"



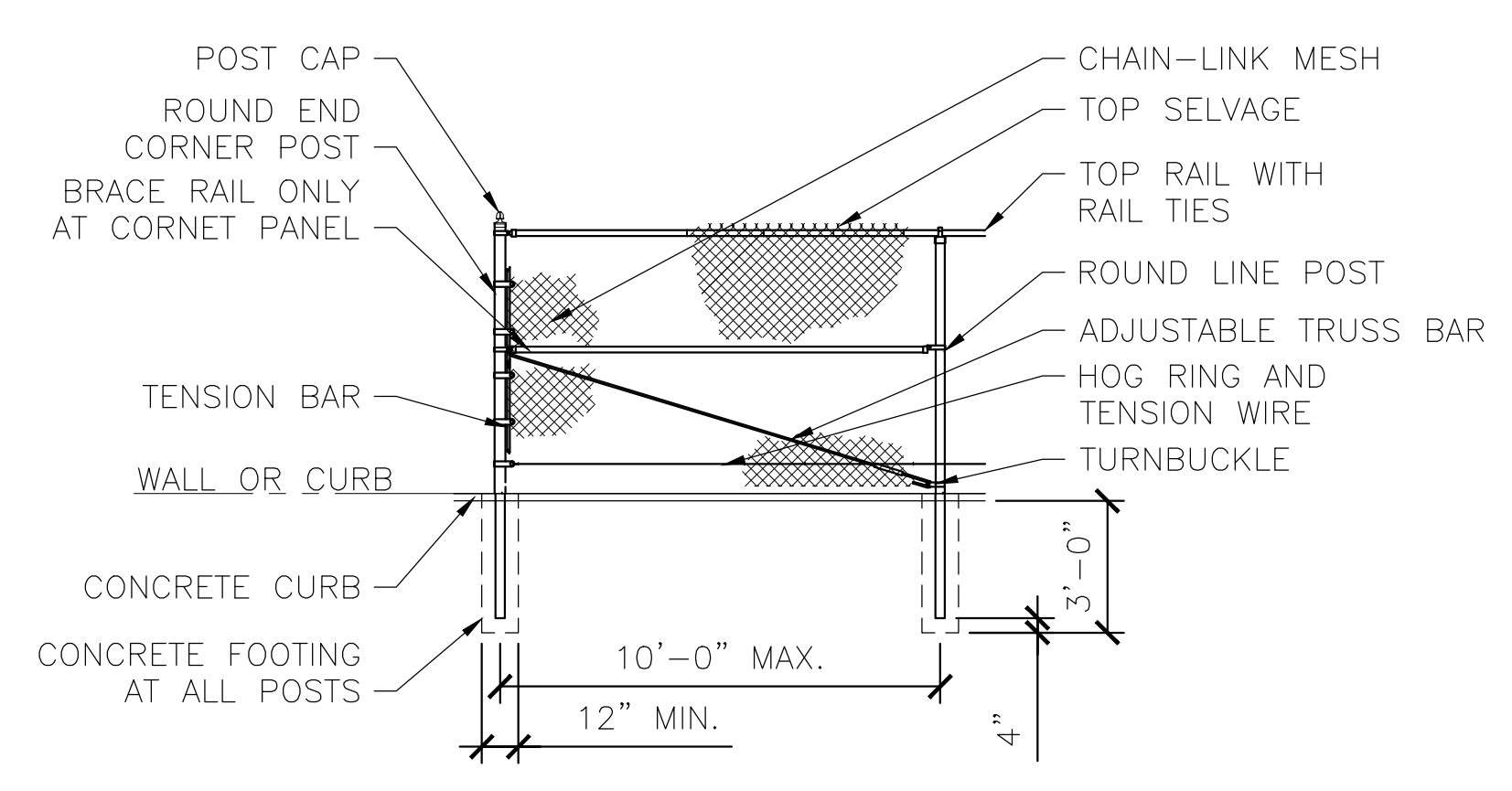
5 ENCLOSURE TYPE 3
 SCALE: 1/4" = 1'-0"



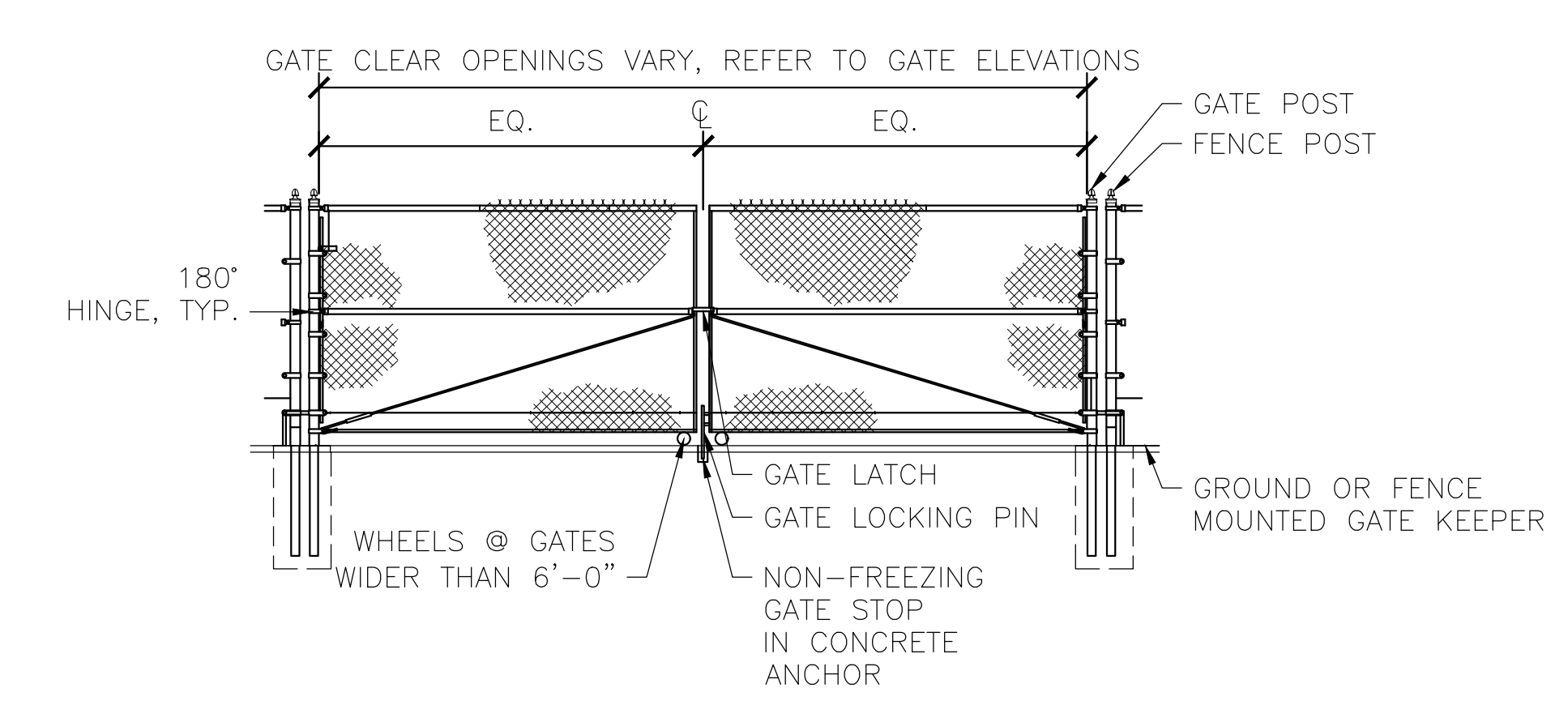
6 ENCLOSURE TYPE 4
 SCALE: 1/4" = 1'-0"



7 ENCLOSURE TYPE 5
 SCALE: 1/4" = 1'-0"



8 TYPICAL ENCLOSURE PANEL
 SCALE: 1/4" = 1'-0"



9 TYPICAL GATE ELEVATION
 SCALE: 1/4" = 1'-0"

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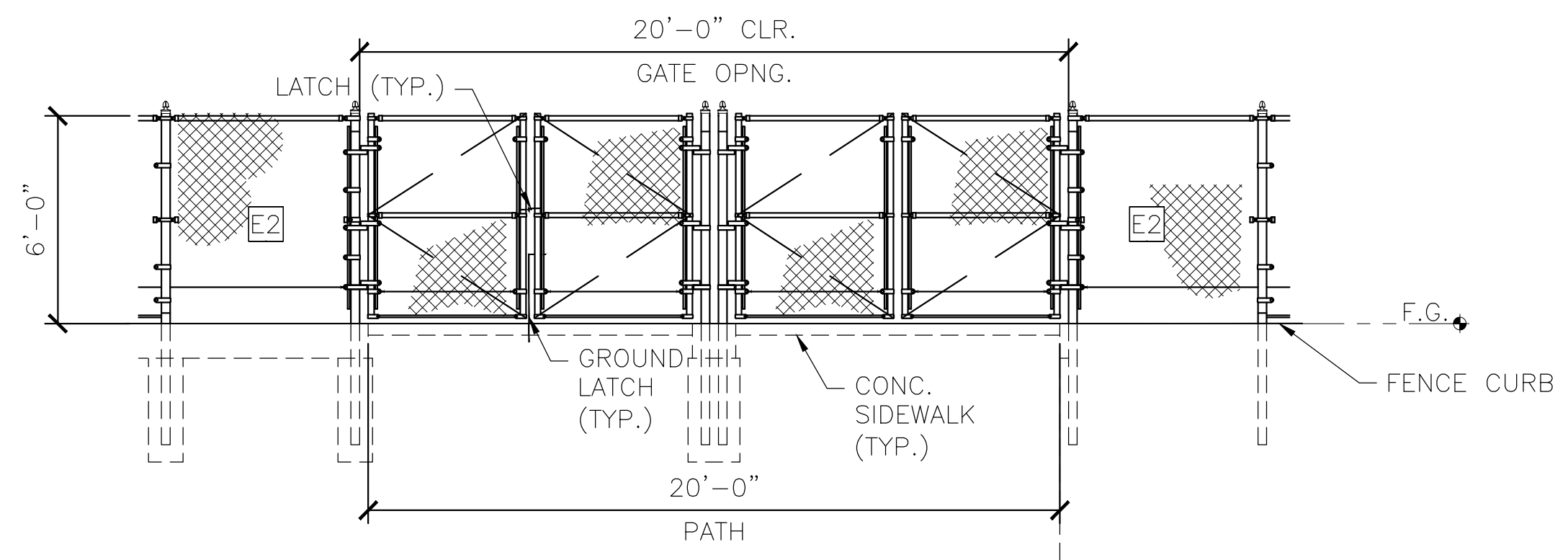
RETAINING WALL ELEVATIONS AND
 ENCLOSURE TYPES
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

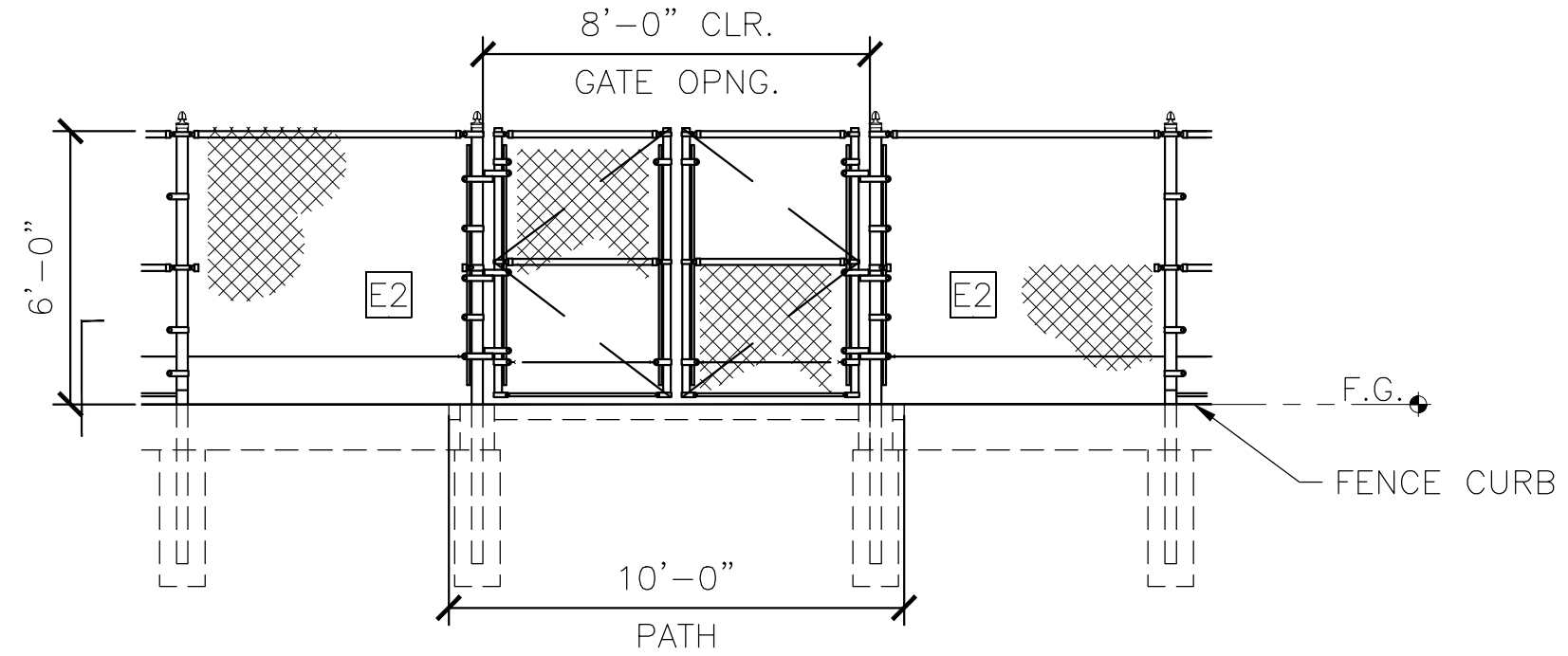
L-3.01H
 03/13/2017
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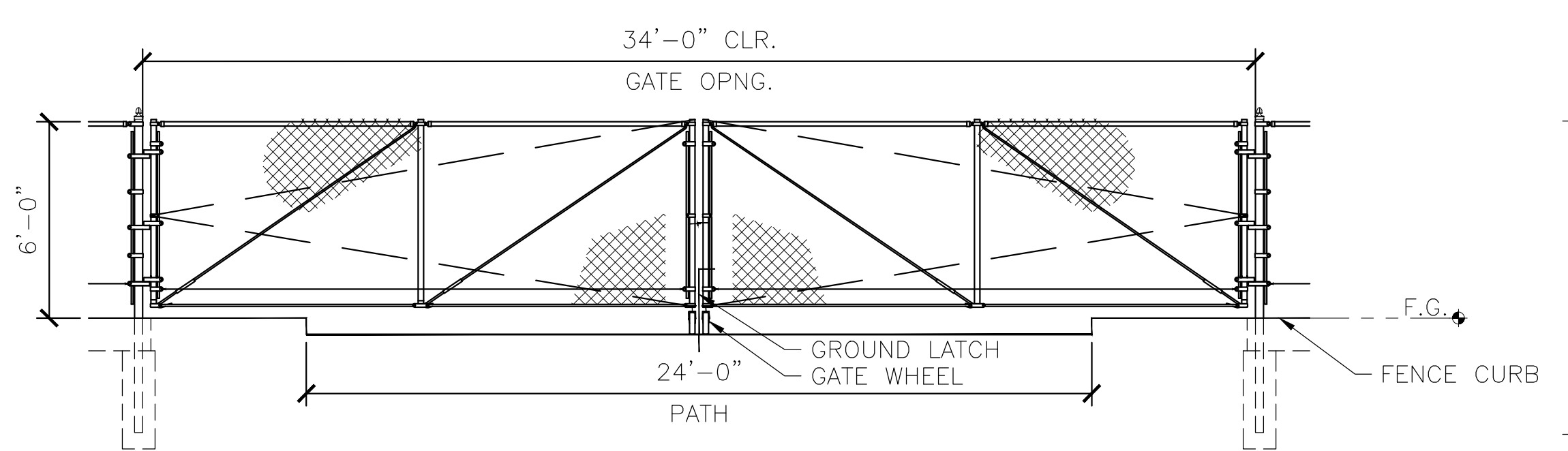
M
L
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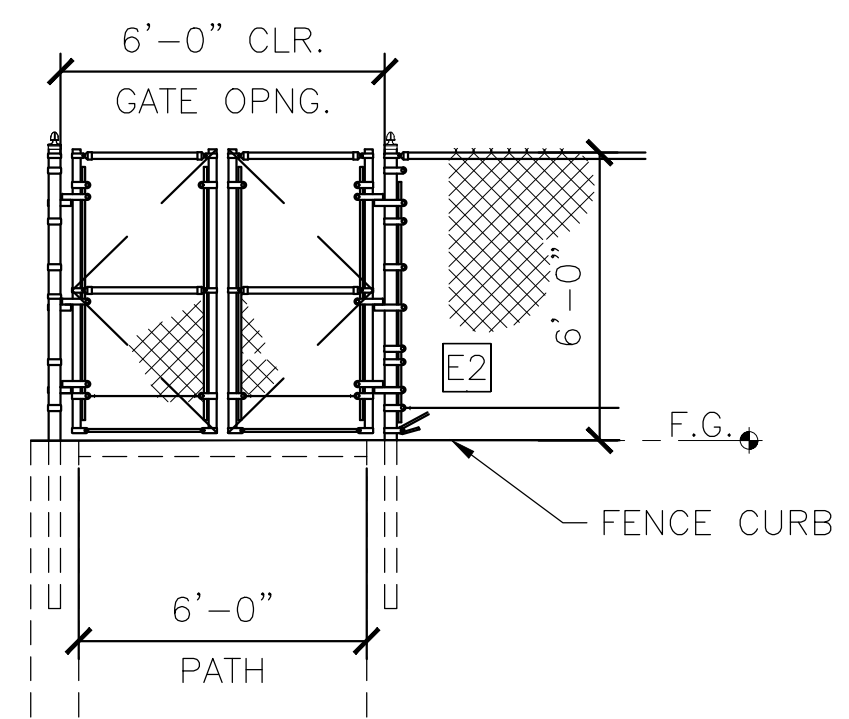
1 GATE 1 AND 2 ELEVATION
SCALE: 1/4" = 1'-0"



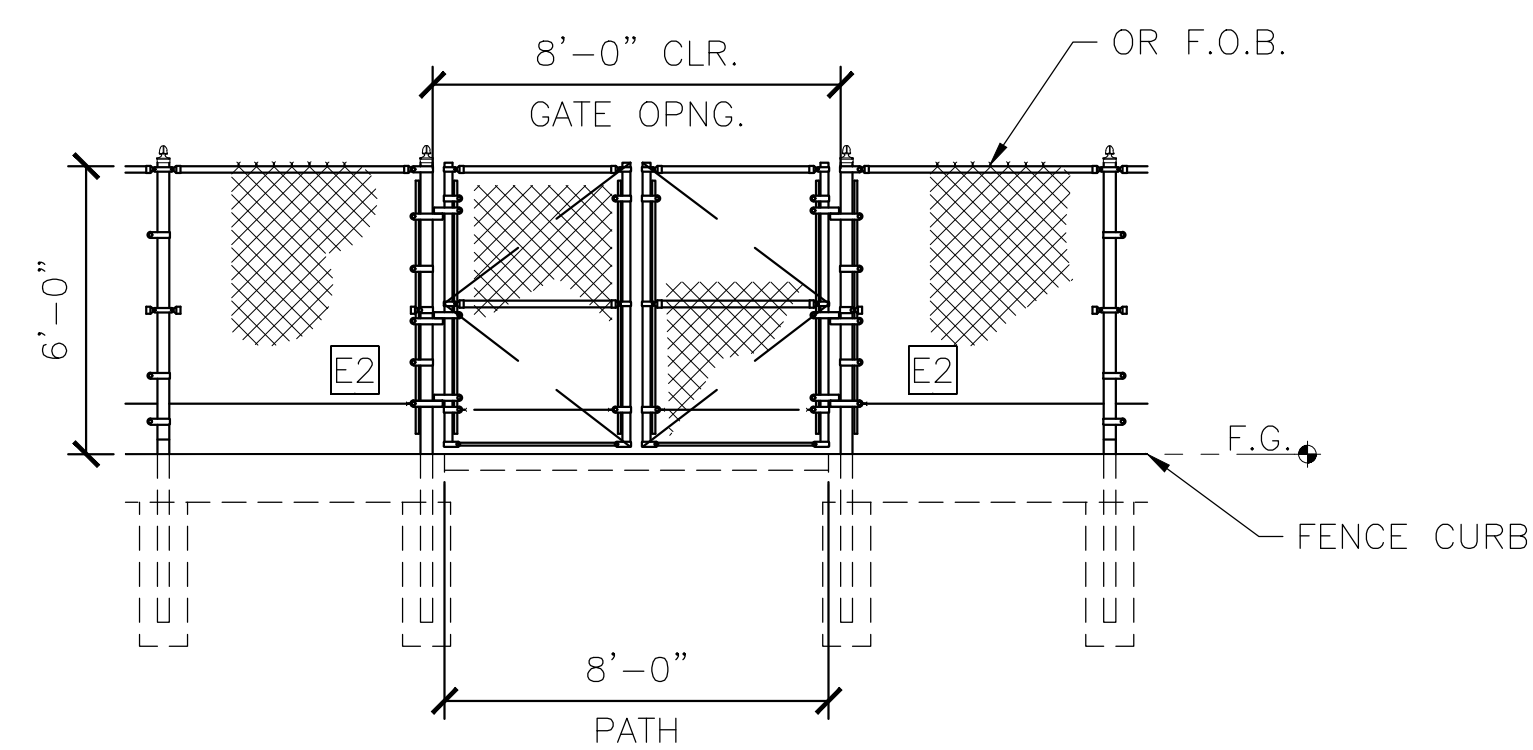
2 GATE 3 AND 8 ELEVATION
SCALE: 1/4" = 1'-0"



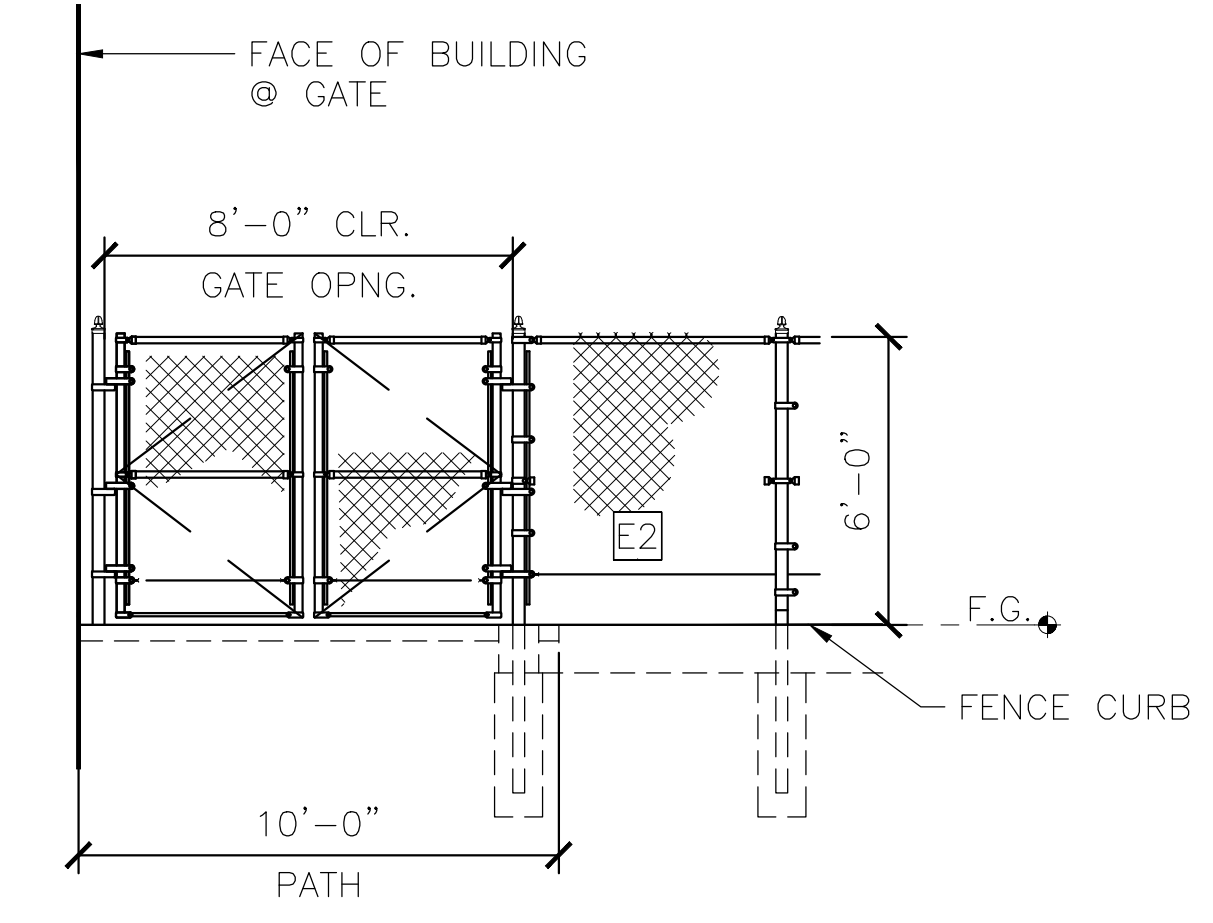
3 GATE 4 ELEVATION
SCALE: 1/4" = 1'-0"



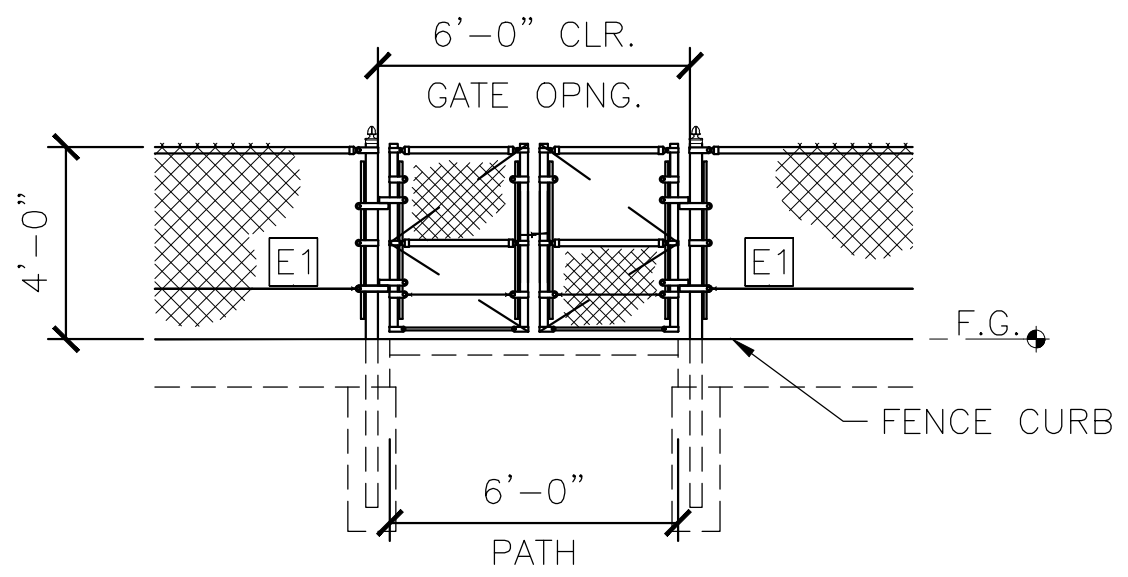
4 GATE 5, 6, 9, AND 10 ELEVATION
SCALE: 1/4" = 1'-0"



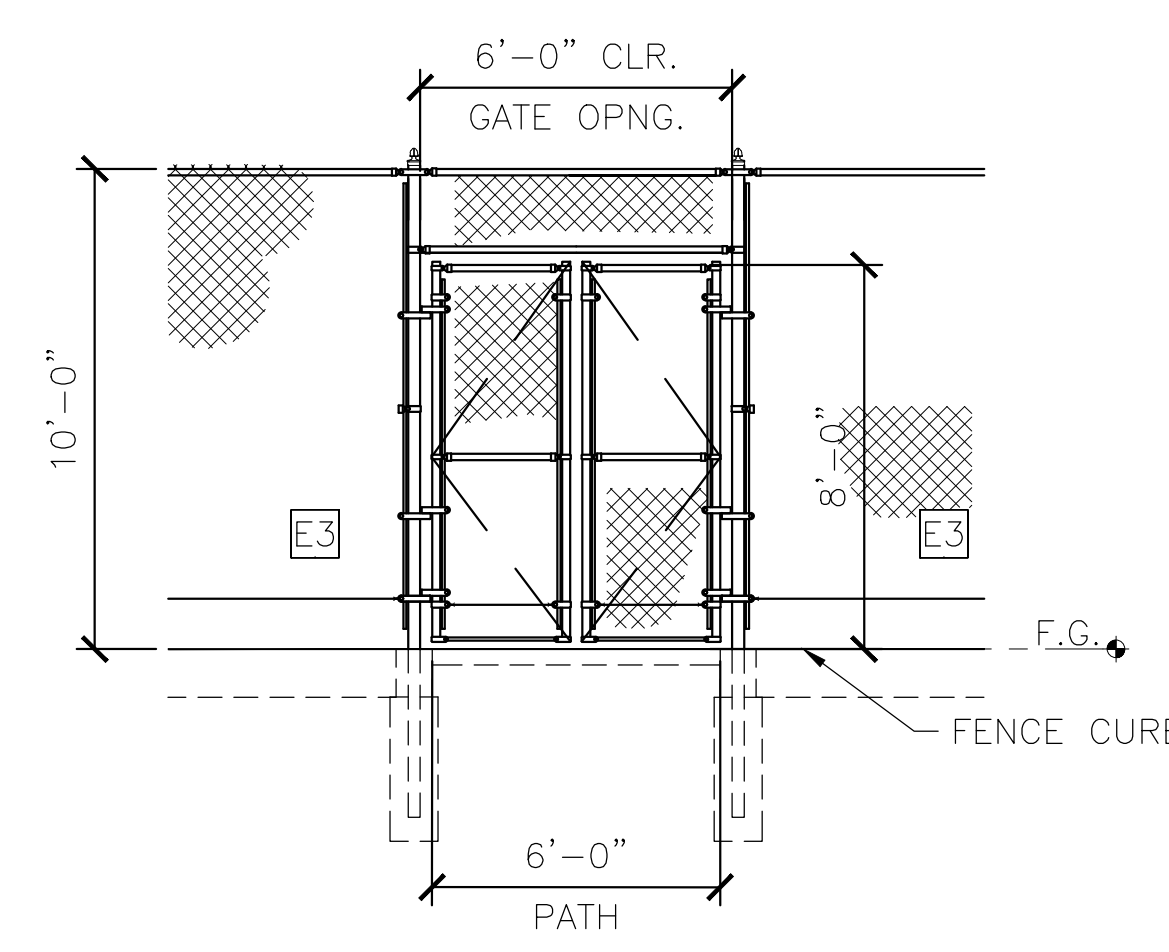
5 GATE 7 AND 11 ELEVATION
SCALE: 1/4" = 1'-0"



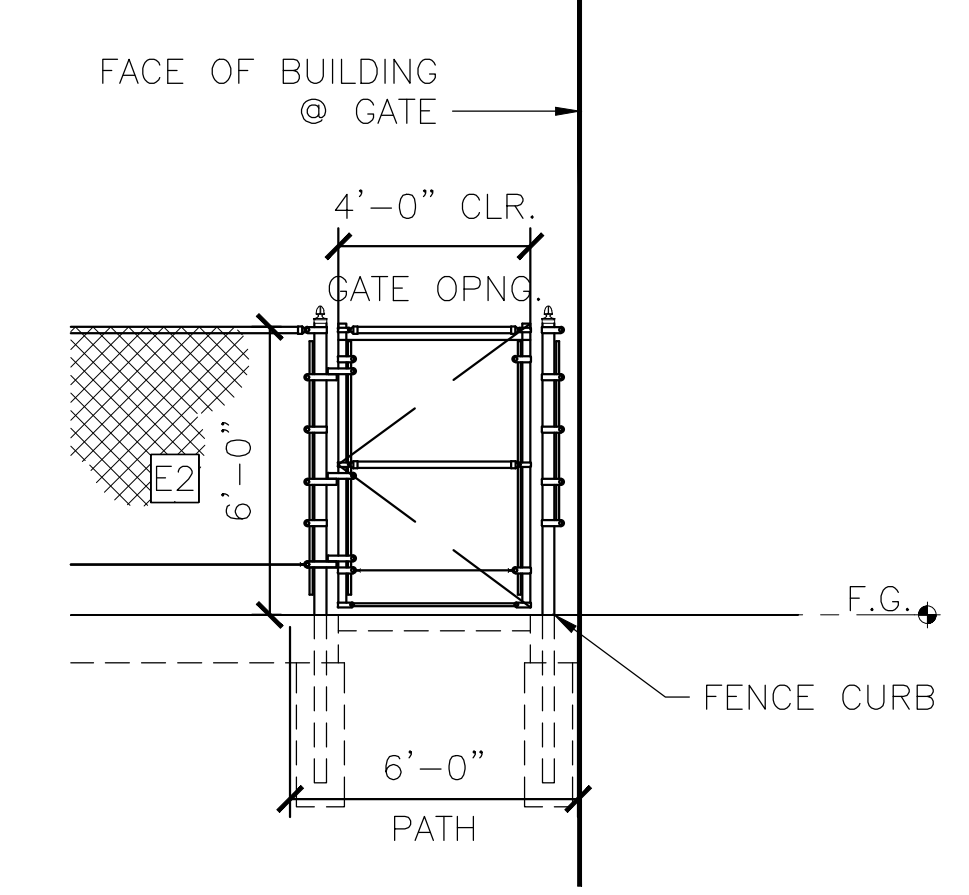
6 GATE 12 ELEVATION
SCALE: 1/4" = 1'-0"



7 GATE 13, 14, 16, 17, AND 18 ELEVATION
SCALE: 1/4" = 1'-0"



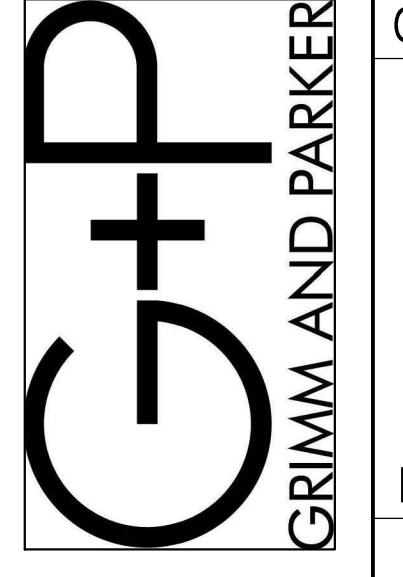
8 GATE 15 ELEVATION
SCALE: 1/4" = 1'-0"



9 GATE 19 ELEVATION
SCALE: 1/4" = 1'-0"

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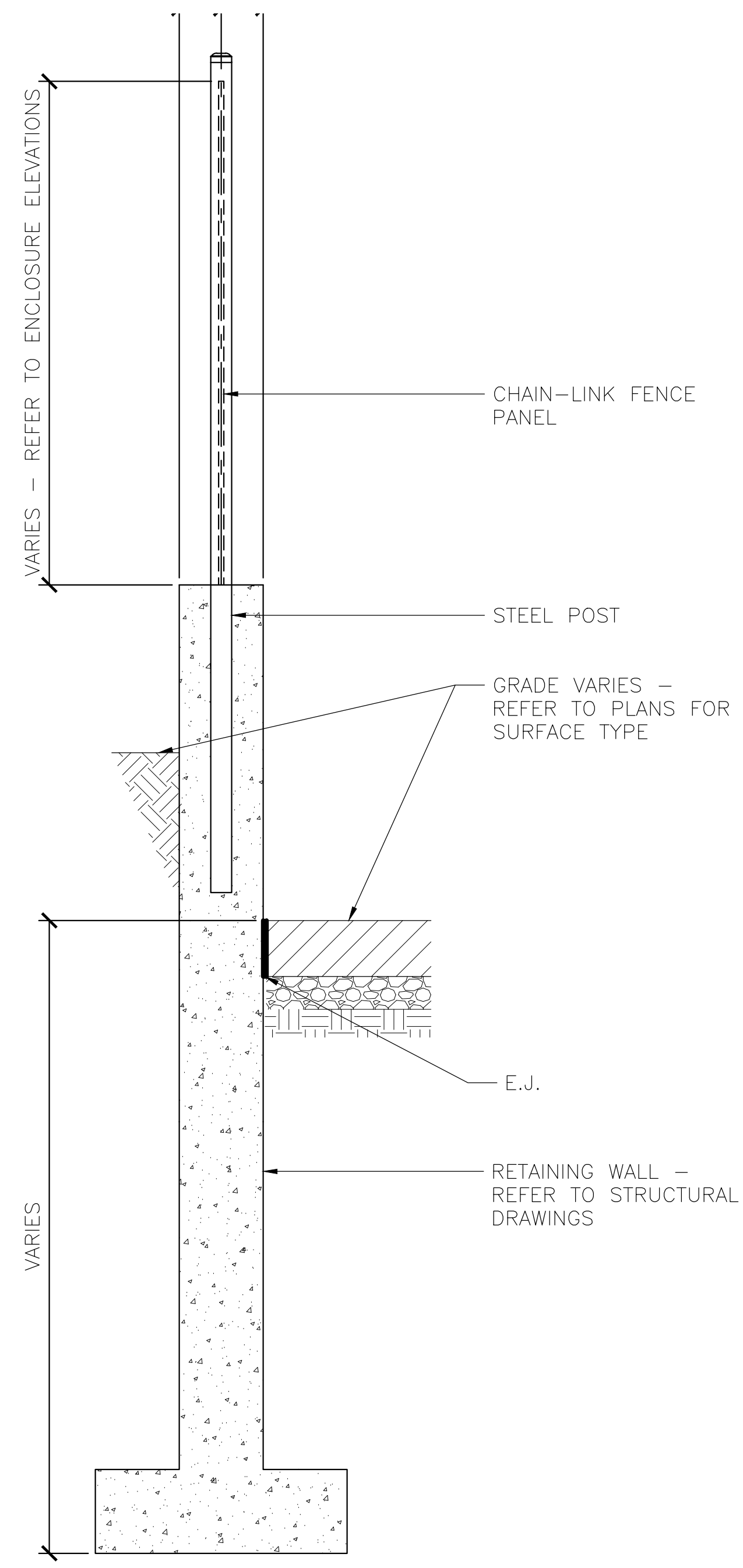
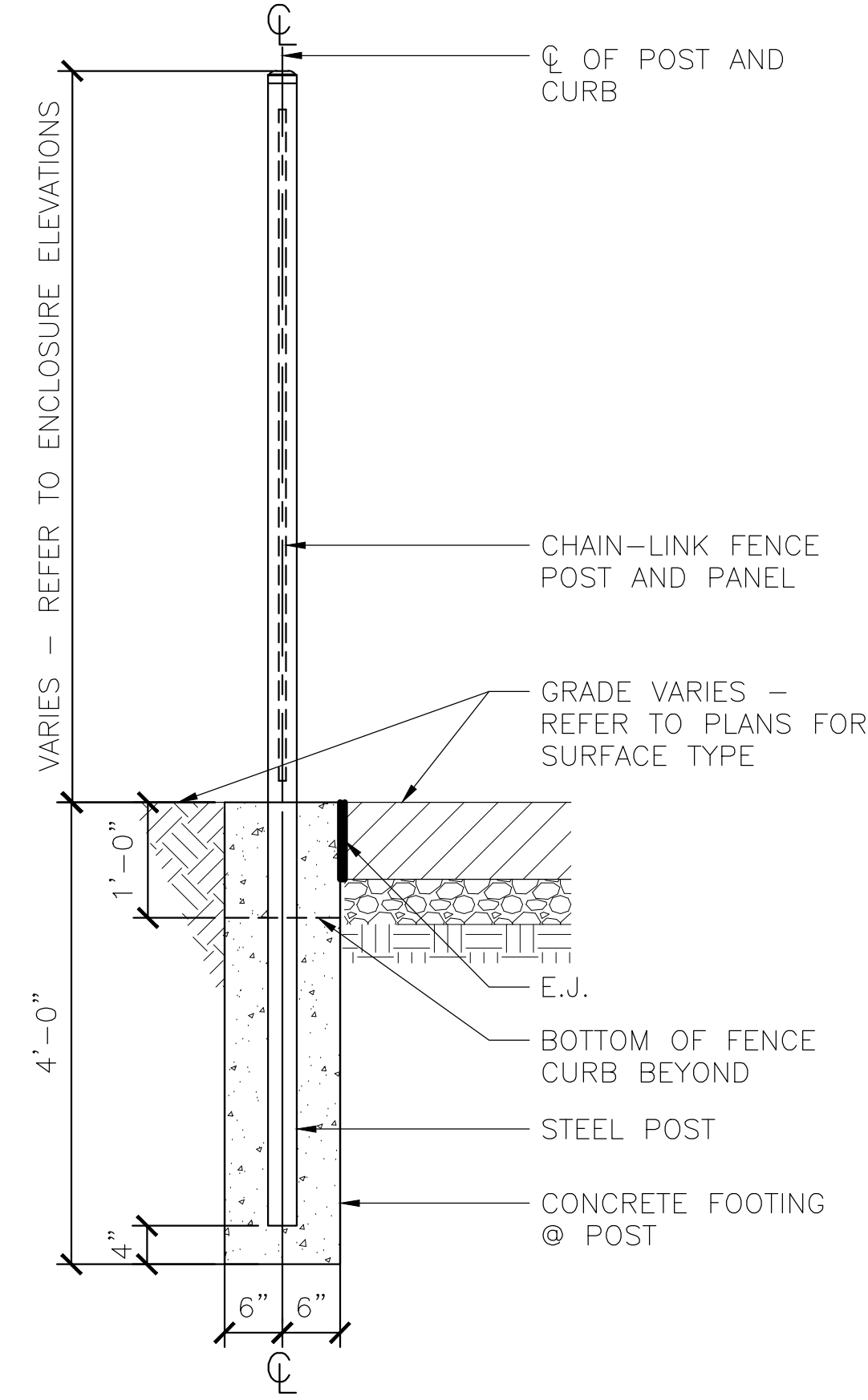
GP# 21553

GATE ELEVATIONS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

L-3.02H
03/13/2017
BID SET

18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

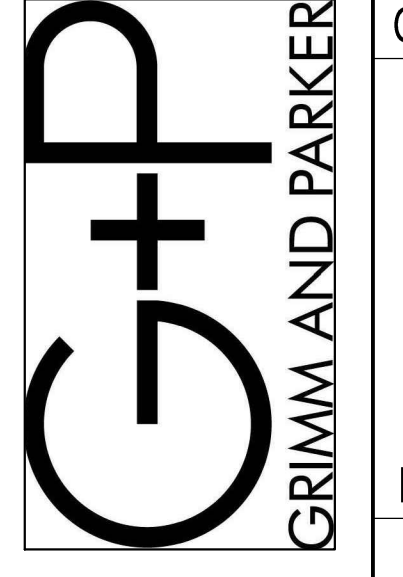


1 ENCLOSURE TYPE 1, 2, AND 3 SECTIONS (FOOTING AND CURB)
 L-3.01H | L-3.03H SCALE: 3/4" = 1'-0"

2 ENCLOSURE TYPE 4 AND 5 SECTION
 L-3.01H | L-3.03H SCALE: 3/4" = 1'-0"

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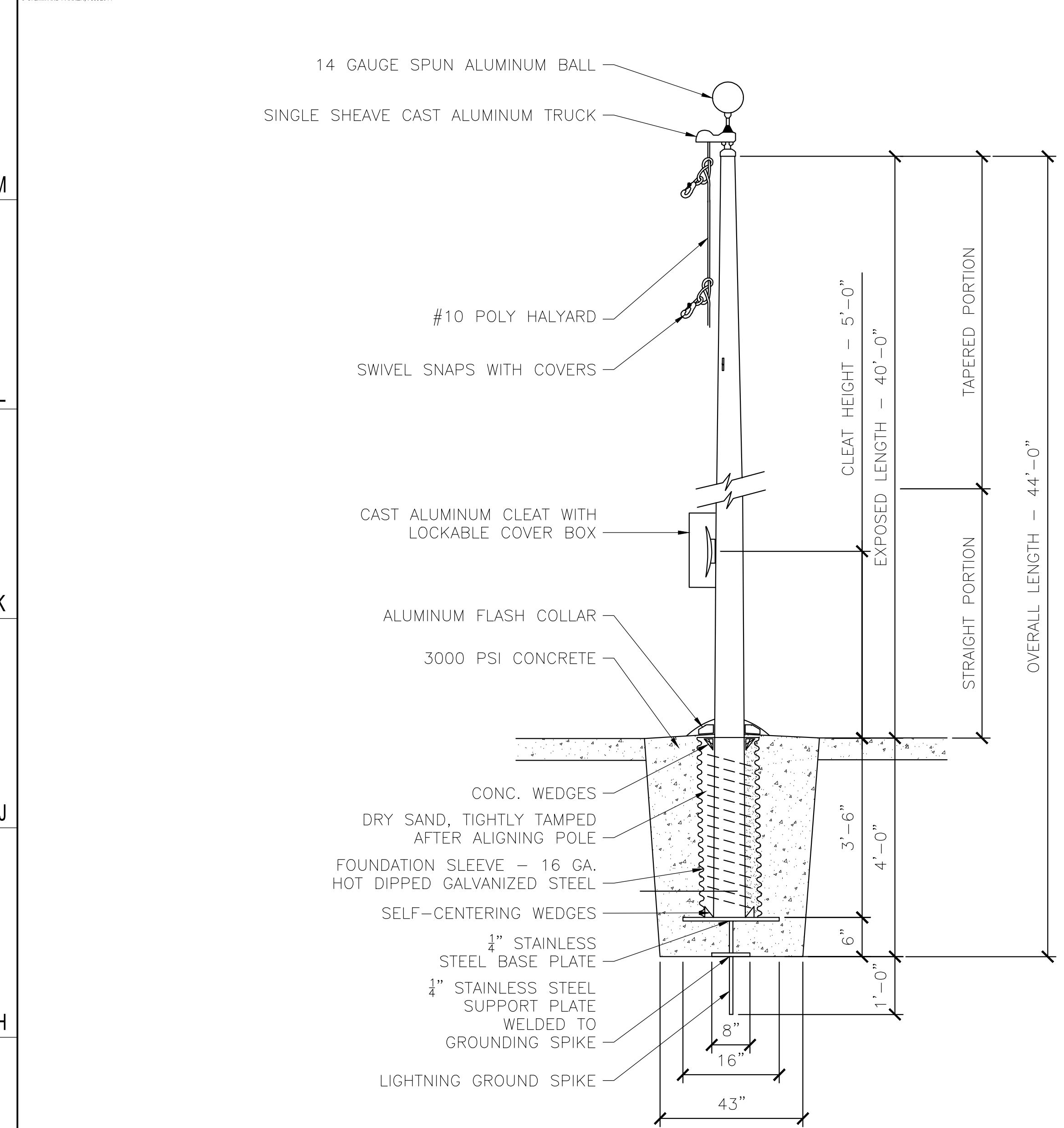


GP# 21553

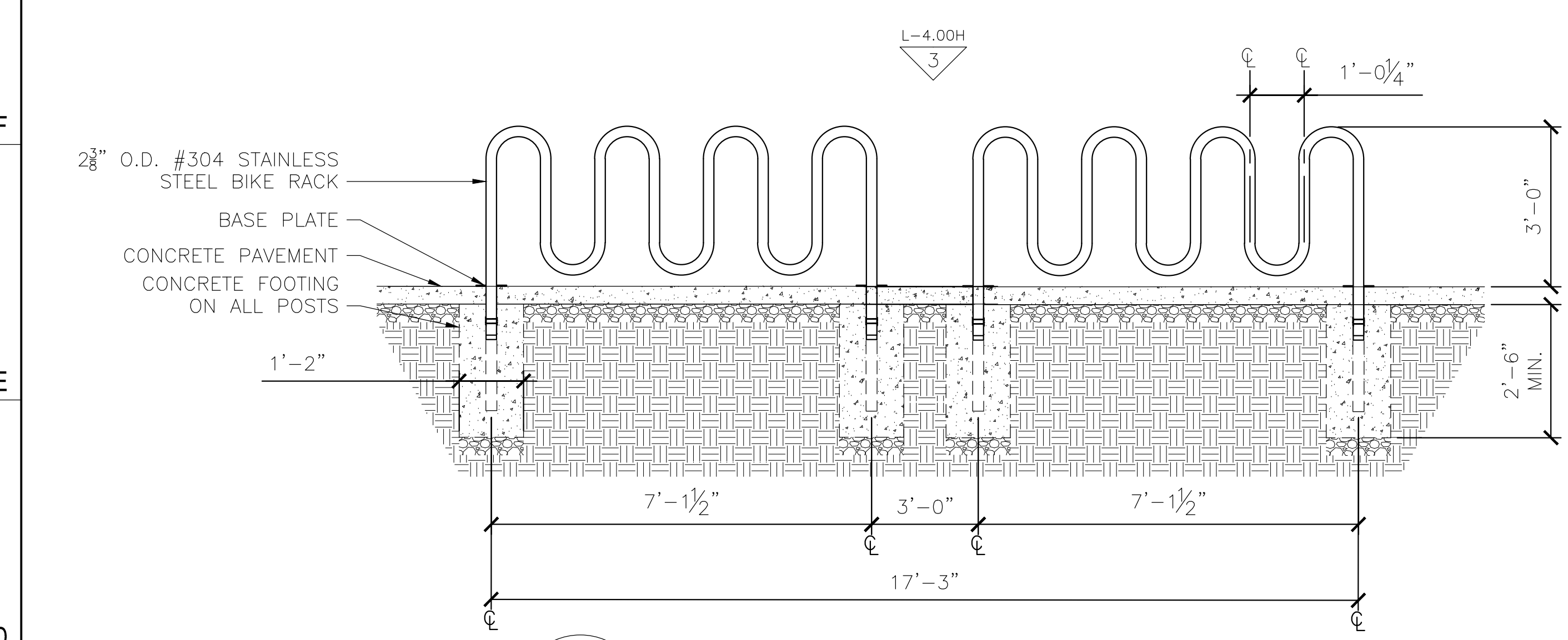
ENCLOSURE SECTIONS
 HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

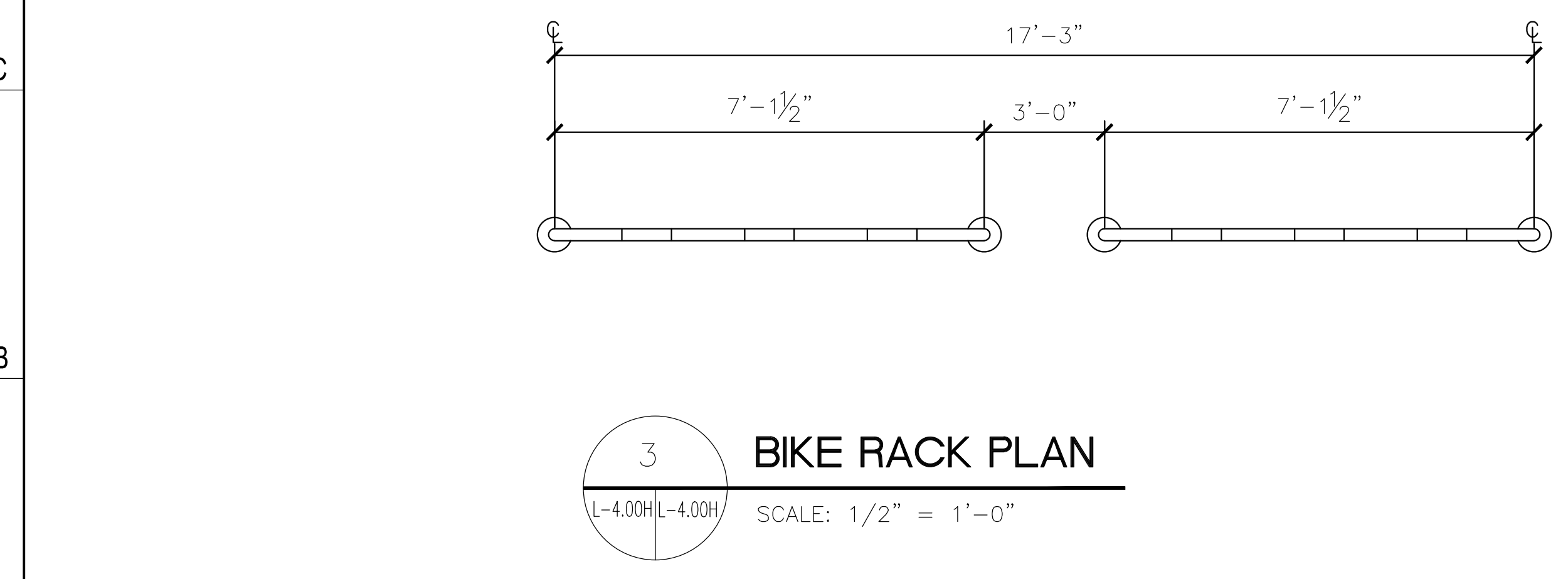
L-3.03H
 03/13/2017
 BID SET



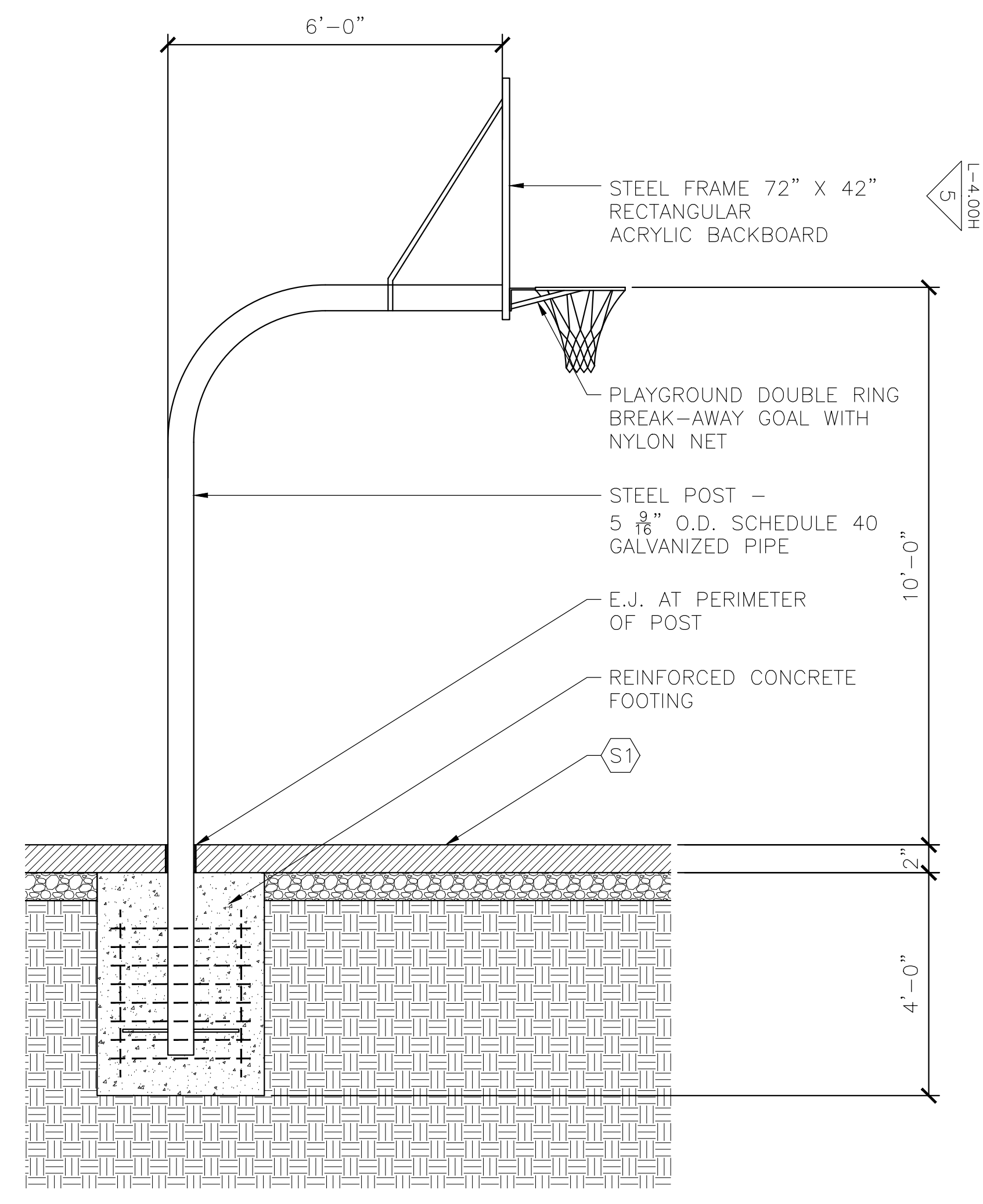
1 FLAG POLE SECTION
 L-2.00H L-4.00H SCALE: 1/2" = 1'-0"



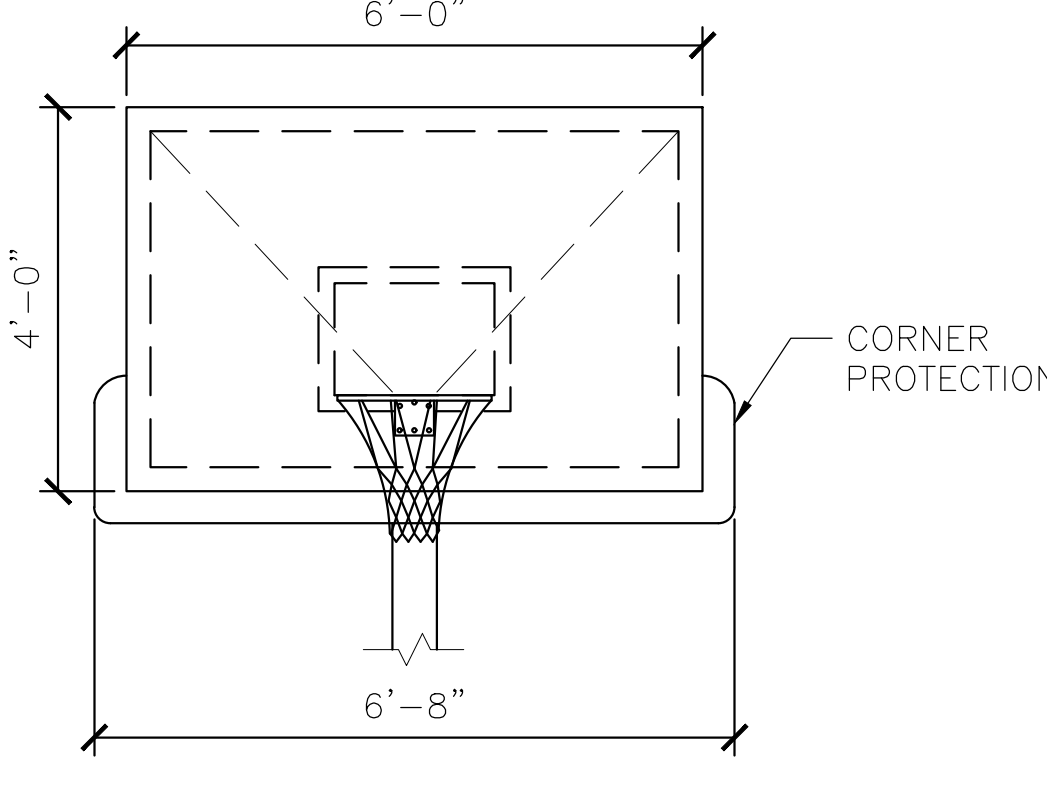
2 BIKE RACK SECTION
 L-2.00H L-4.00H SCALE: 1/2" = 1'-0"



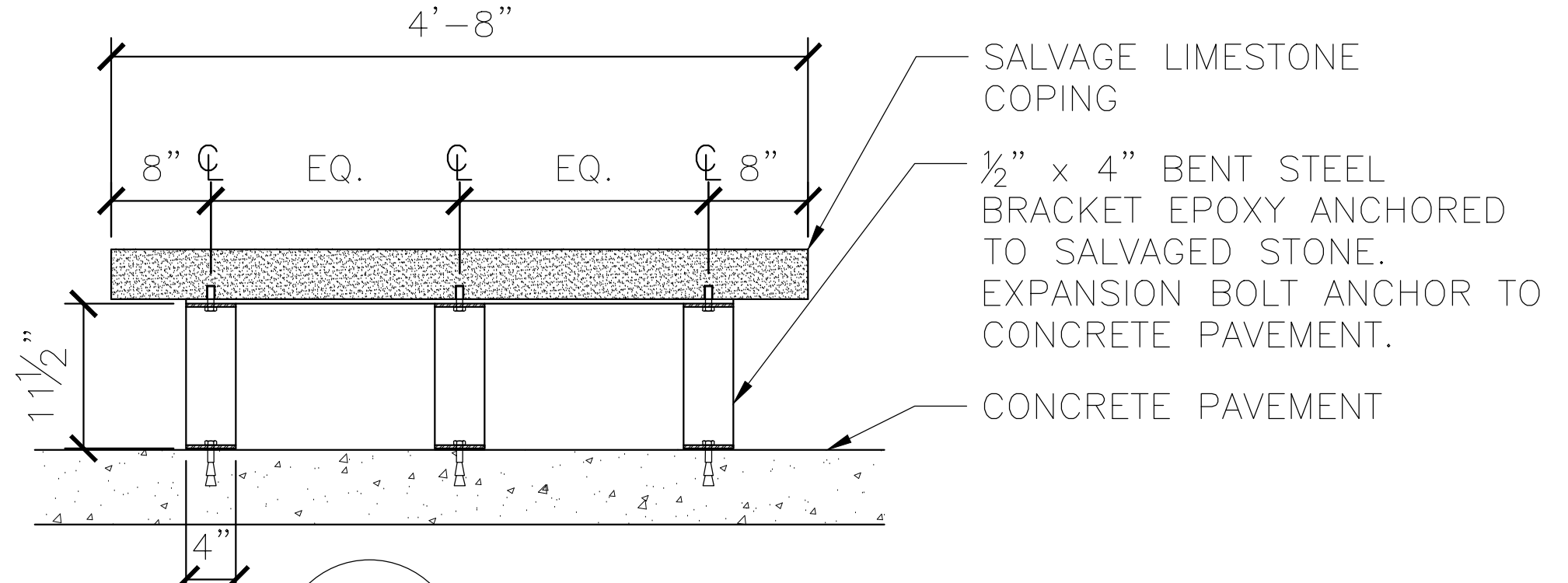
3 BIKE RACK PLAN
 L-4.00H L-4.00H SCALE: 1/2" = 1'-0"



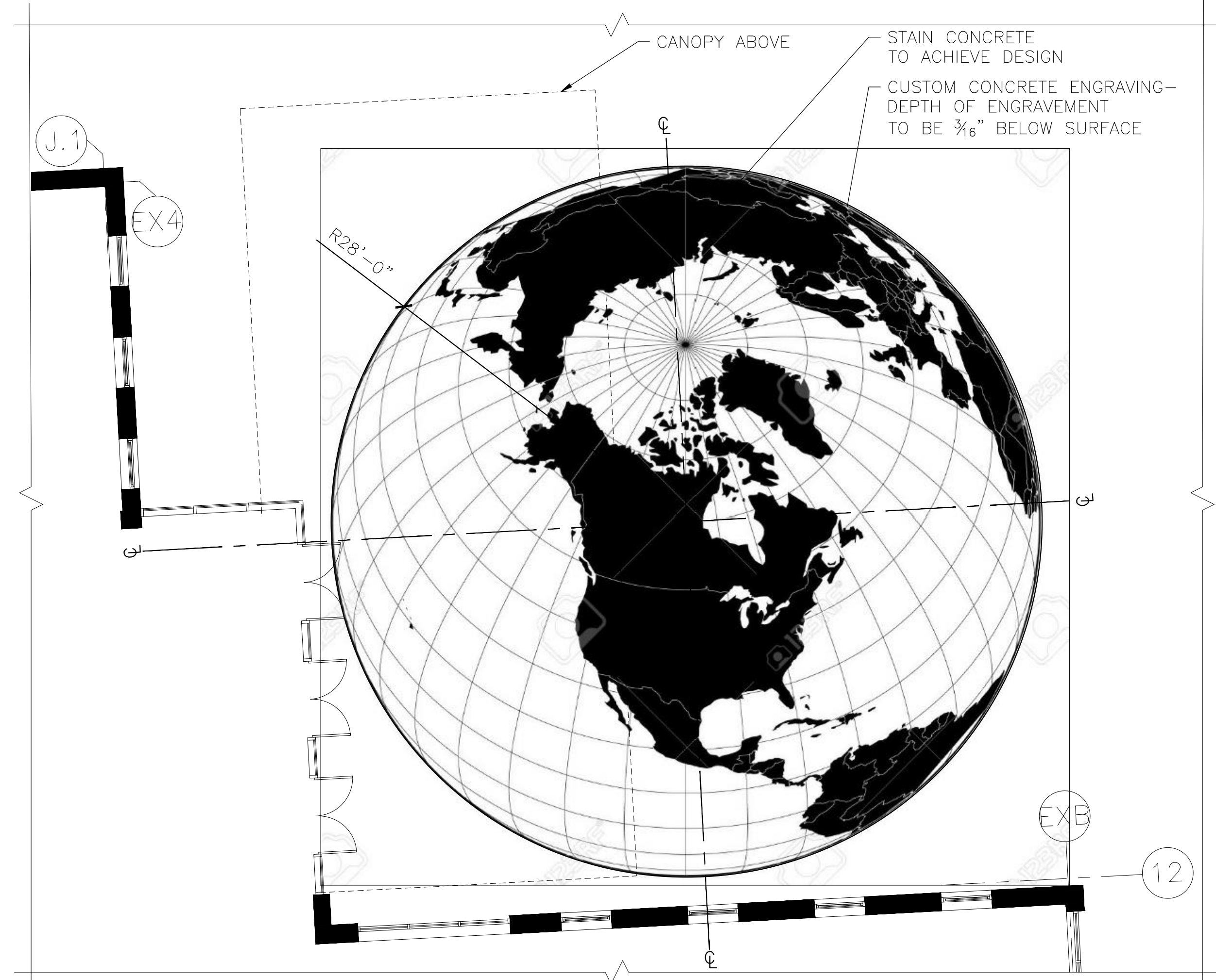
4 BASKETBALL BACKBOARD AND POST
 L-2.00H L-4.00H SCALE: 1/2" = 1'-0"



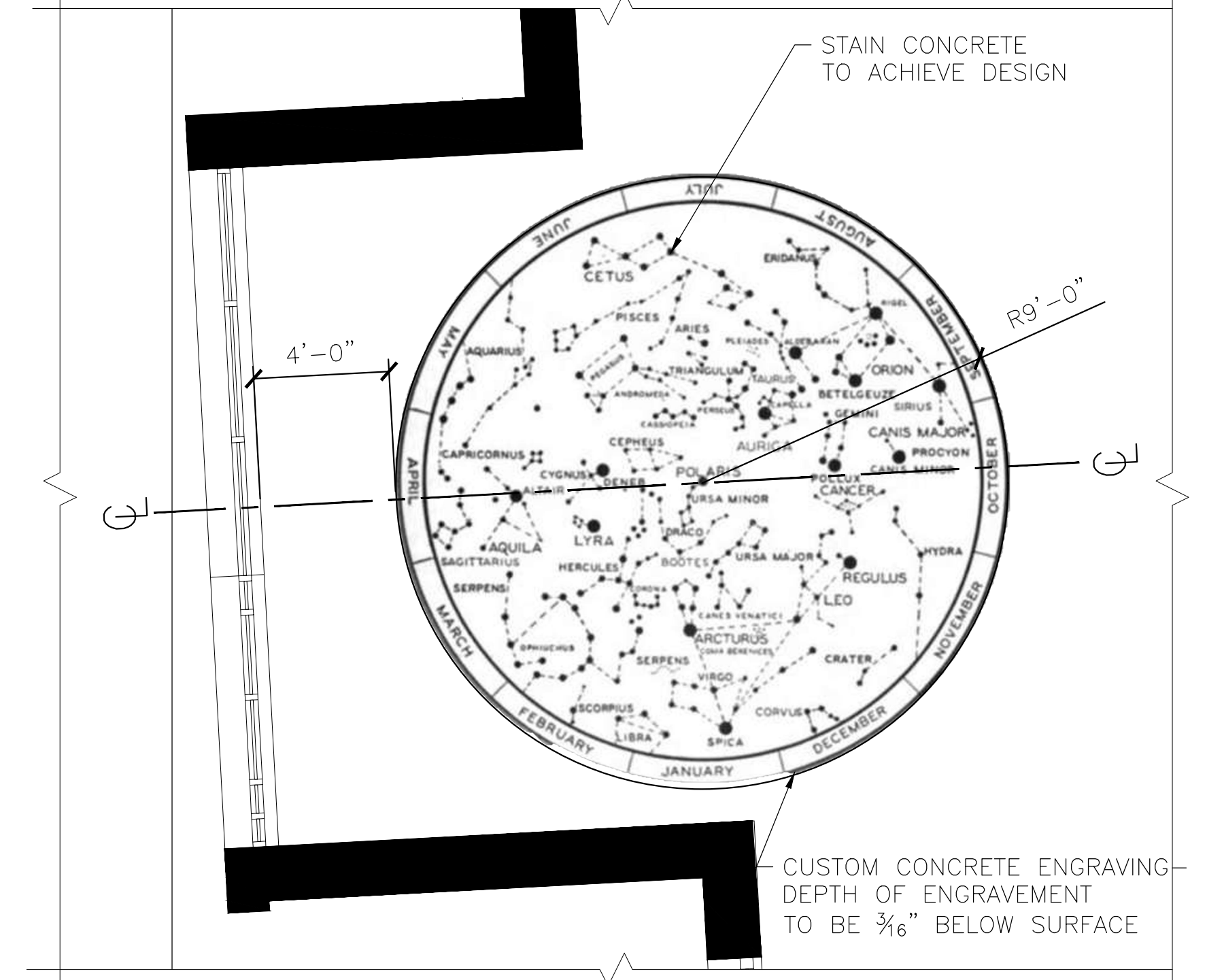
5 BACKBOARD ELEVATION
 L-4.00H L-4.00H SCALE: NTS



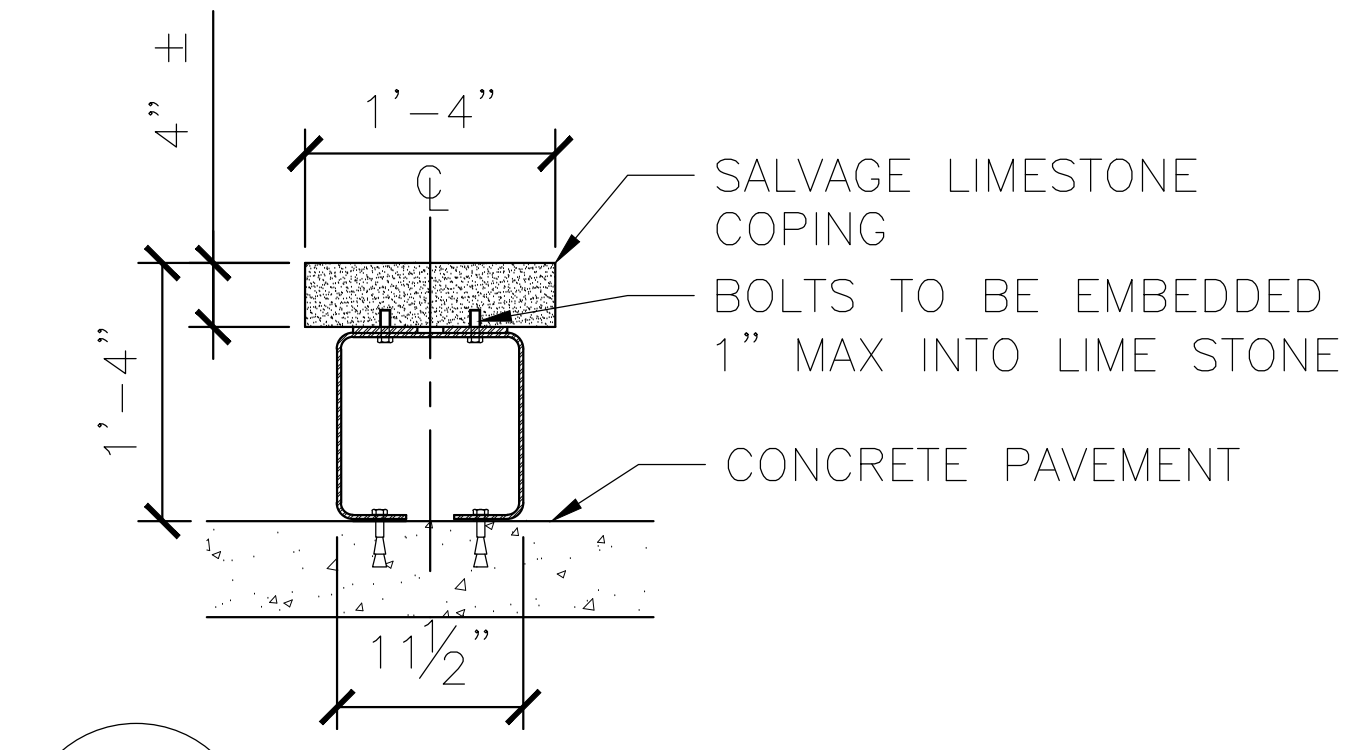
6 SALVAGED STONE BENCH SECTION
 L-4.00H SCALE: 1" = 1'-0"



8 ENTRANCE COURT (ADD ALTERNATE)
 L-4.00H SCALE: NTS * ETCHED CONCRETE PAVEMENT PATTERN



9 OUTDOOR LEARNING AREA (ADD ALTERNATE)
 L-4.00H SCALE: NTS * ETCHED CONCRETE PAVEMENT PATTERN



7 SALVAGED STONE BENCH SECTION
 L-4.00H SCALE: 1" = 1'-0"

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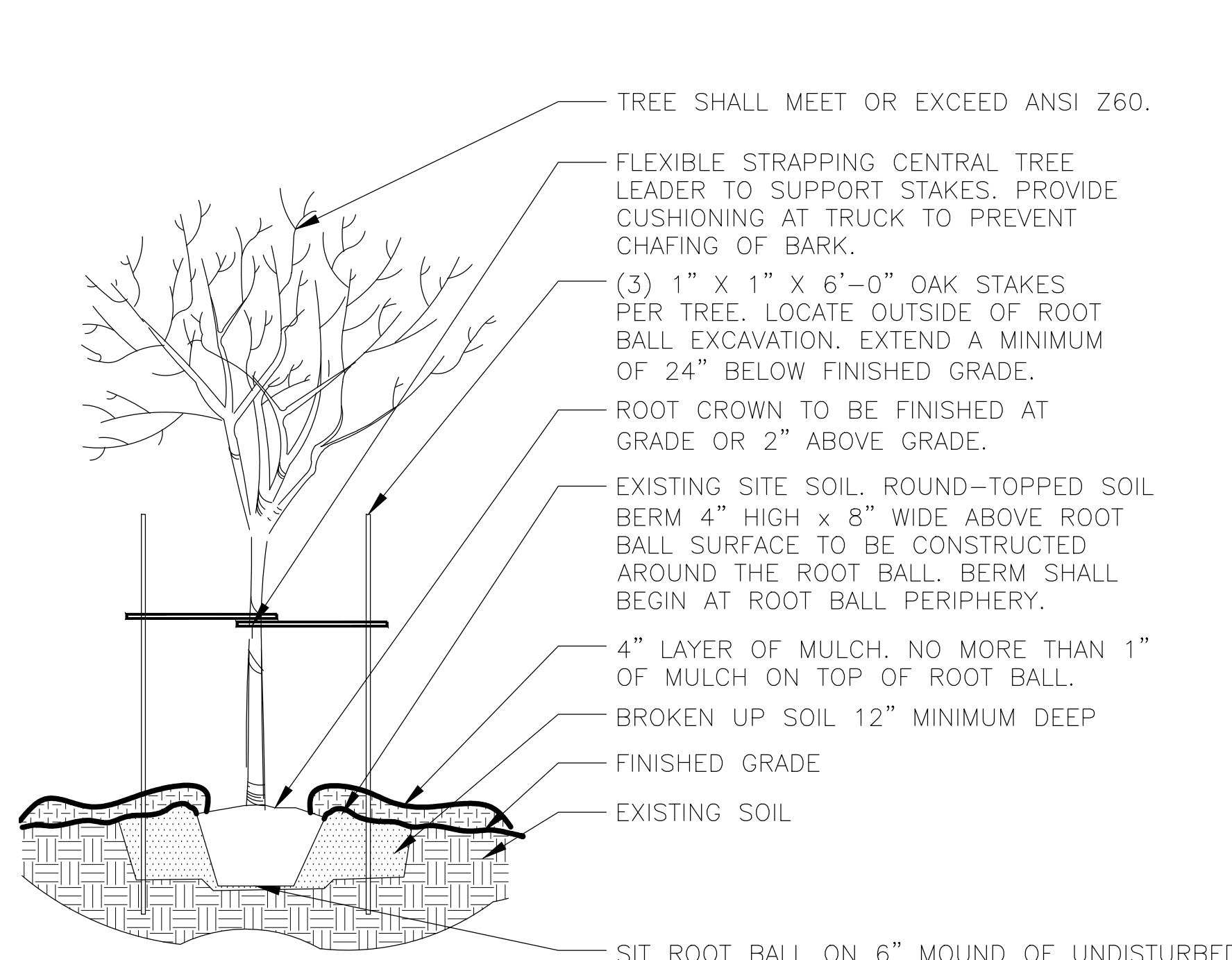
GP# 21553

HOLABIRD ACADEMY PK-8
 CITY OF BALTIMORE, MARYLAND

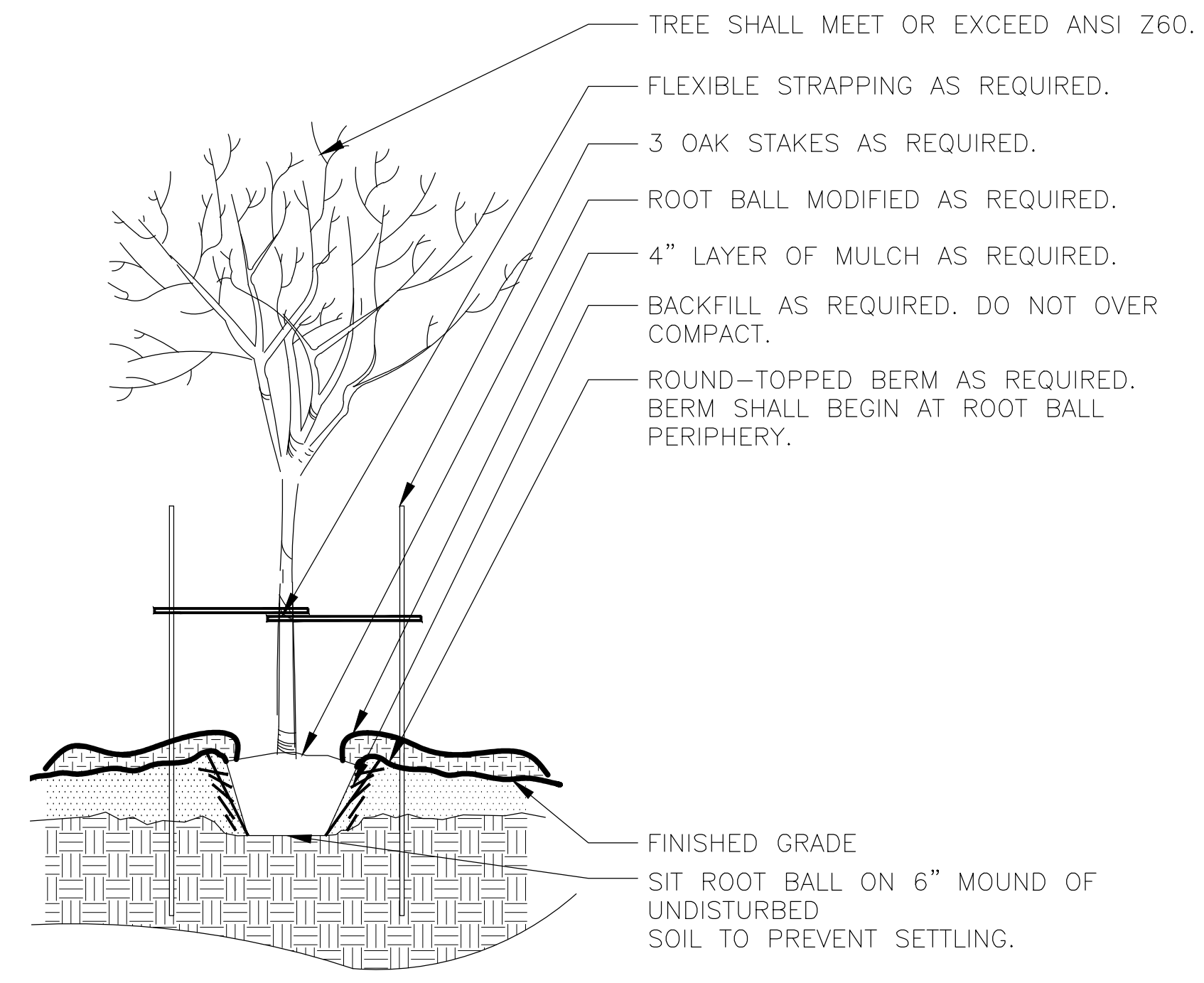
DATE	DESCRIPTION

L-4.00H

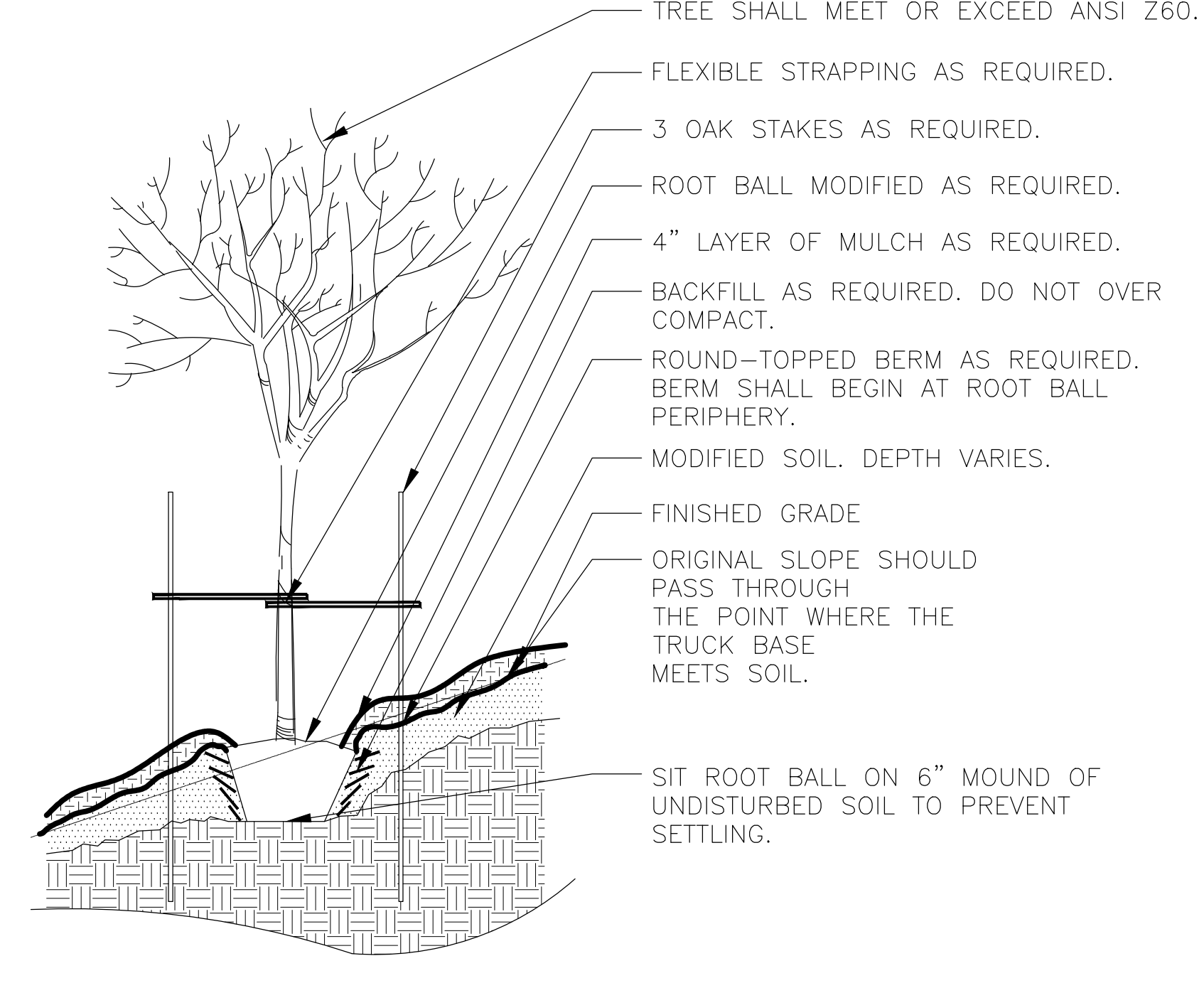
03/13/2017
 BID SET



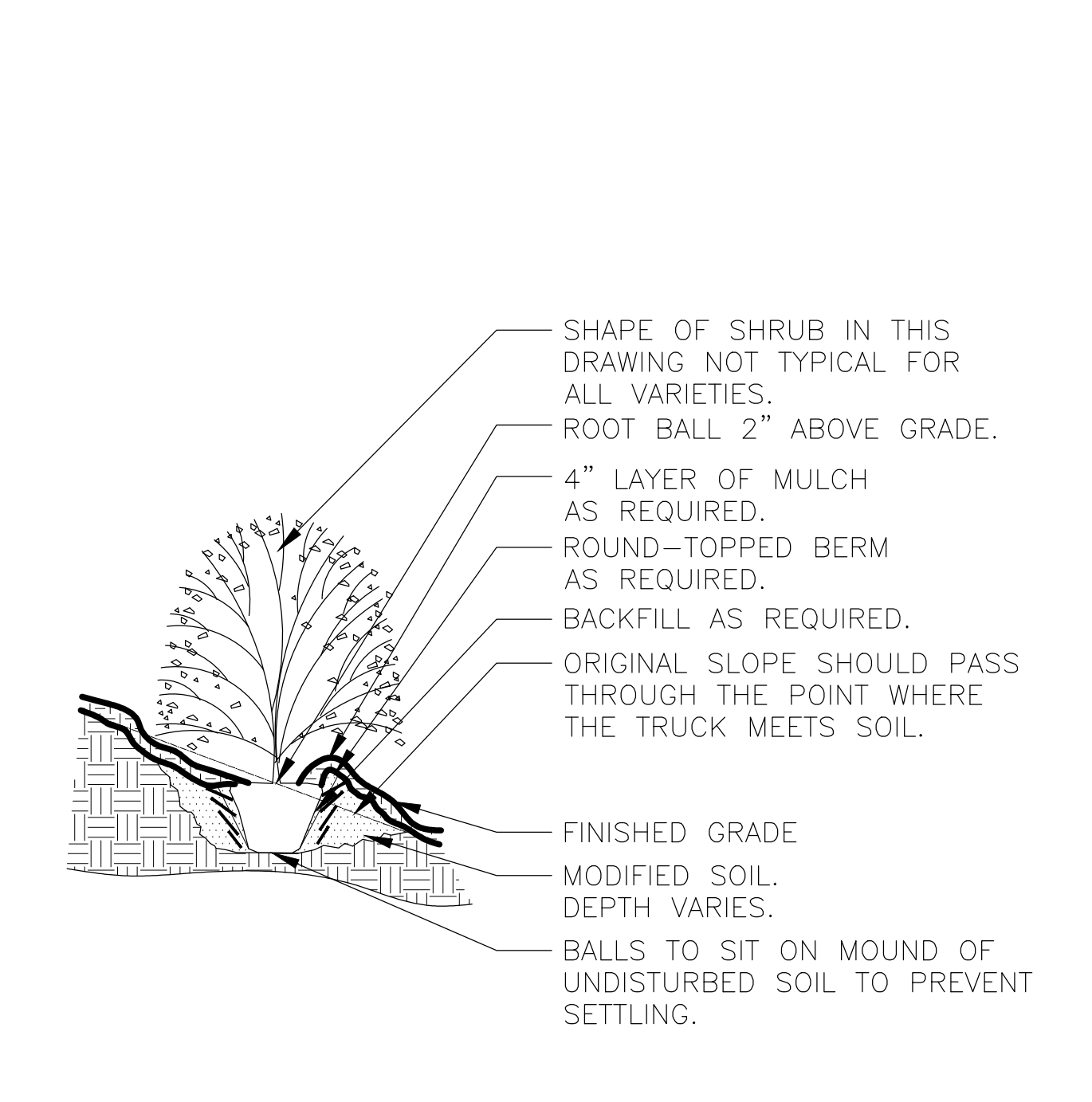
1 TREE STALKING SECTION
L-4.01H SCALE: 3/8" = 1'-0"



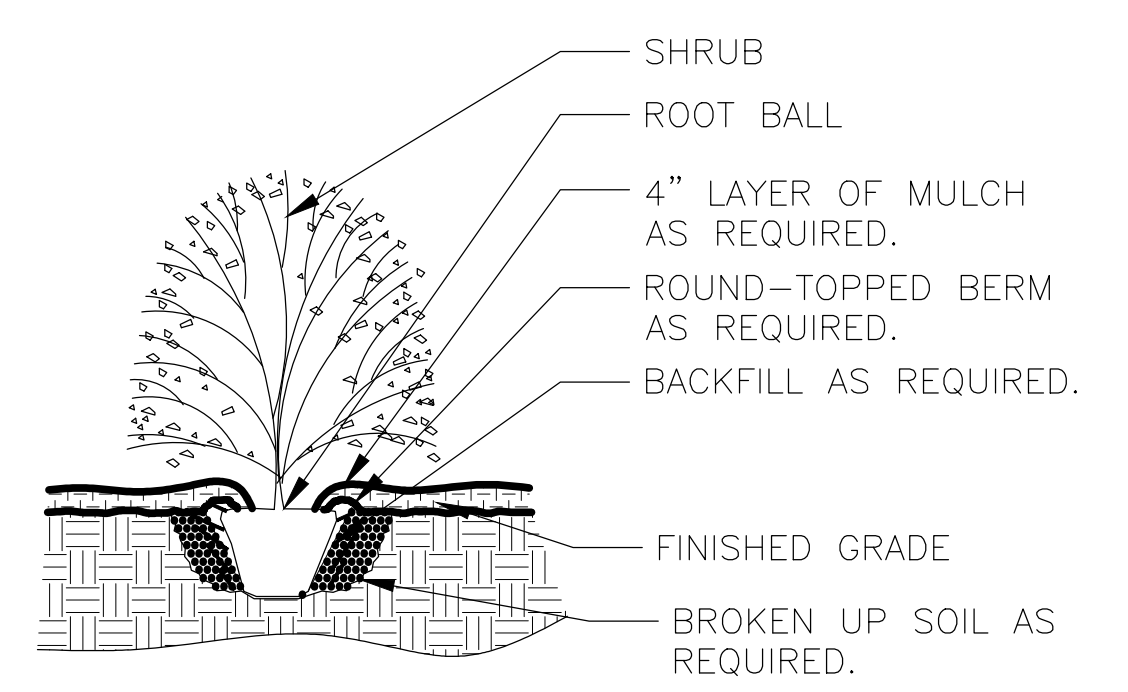
2 TREE AT FILLED CONDITION SECTION
L-4.01H SCALE: 3/8" = 1'-0"



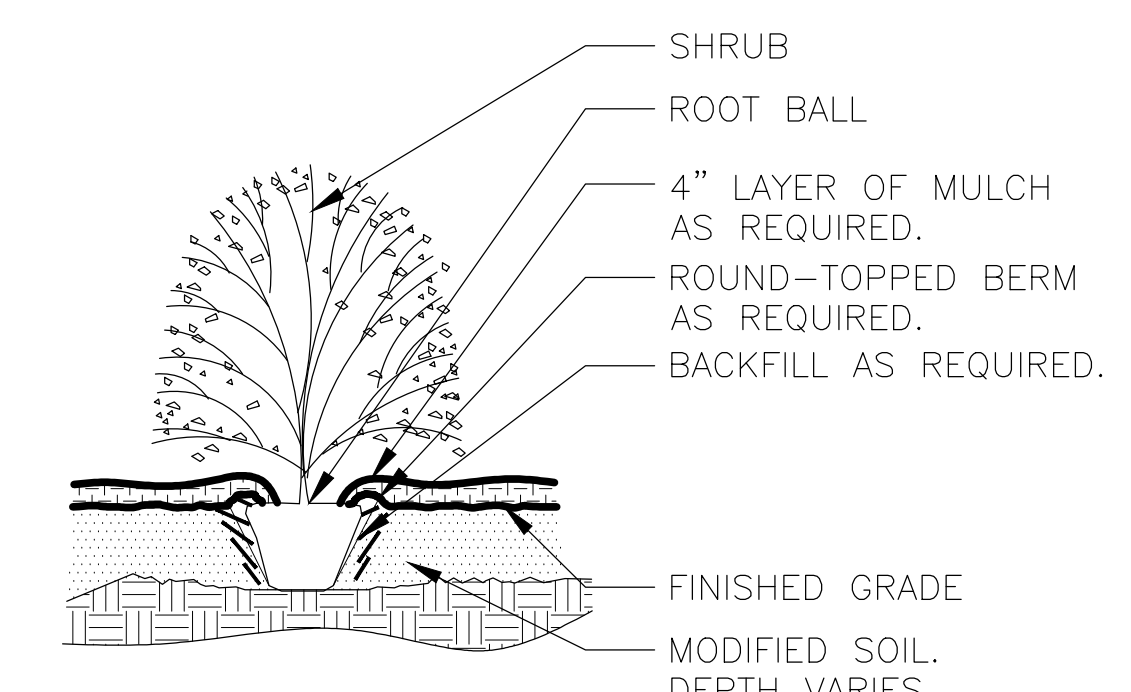
3 TREE ON SLOPE 5% TO 50% SECTION
L-4.01H SCALE: 3/8" = 1'-0"



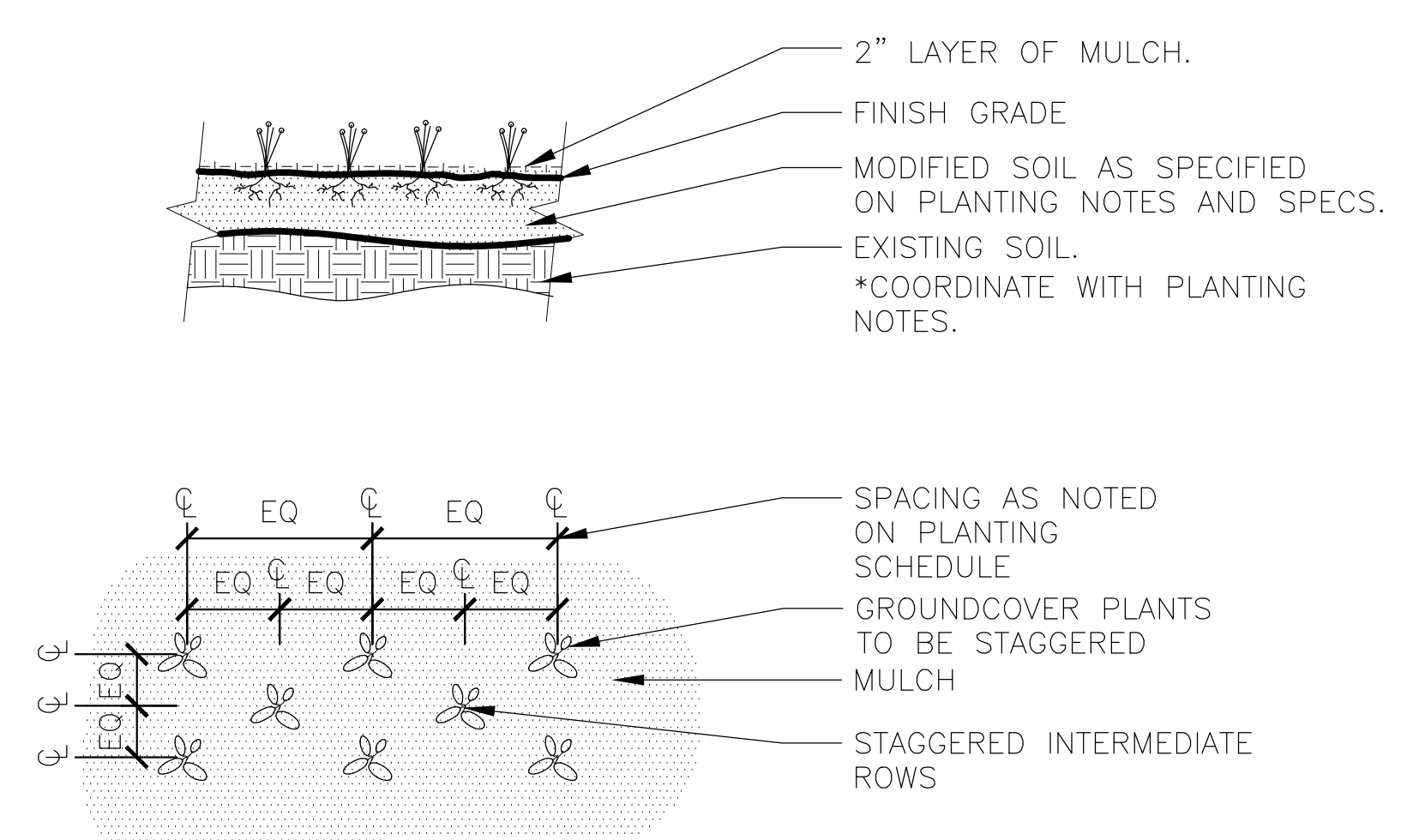
4 SHRUB- ON SLOPE 5% TO 50% SECTION
L-4.01H SCALE: 3/8" = 1'-0"



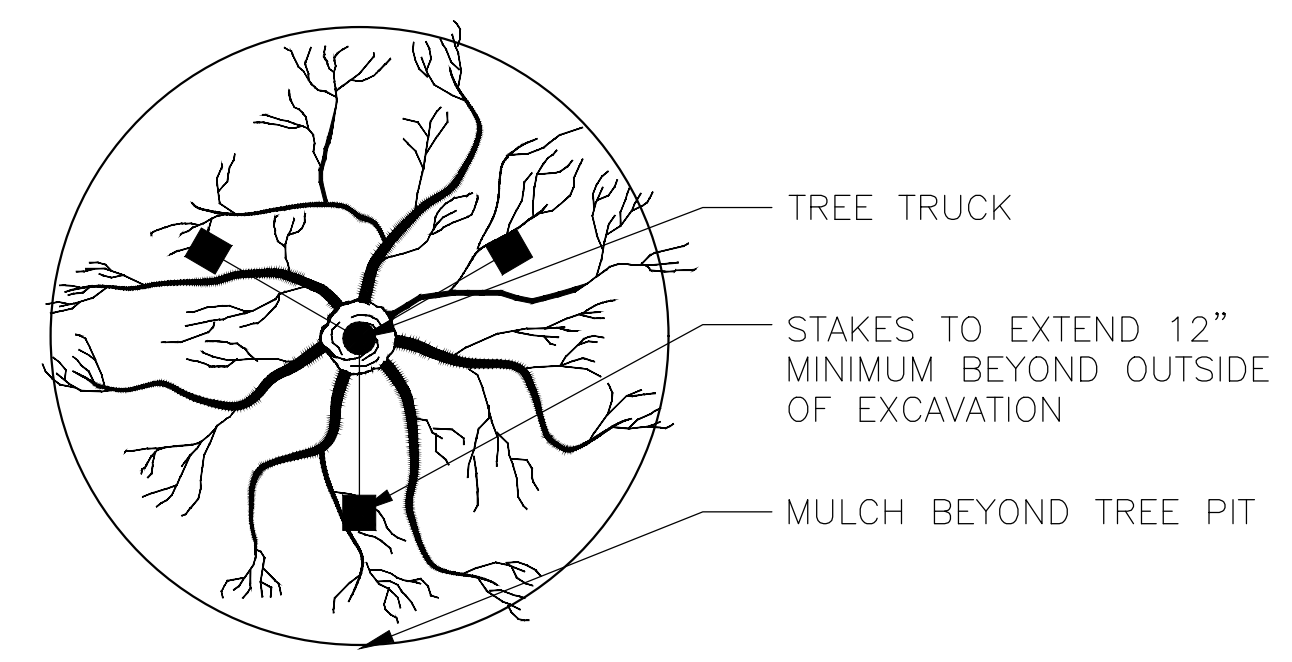
5 SHRUB-UNMODIFIED SOIL SECTION
L-4.01H SCALE: 3/8" = 1'-0"



6 SHRUB-MODIFIED SOIL SECTION
L-4.01H SCALE: 3/8" = 1'-0"



7 GROUND COVER
L-4.01H SCALE: 3/8" = 1'-0"



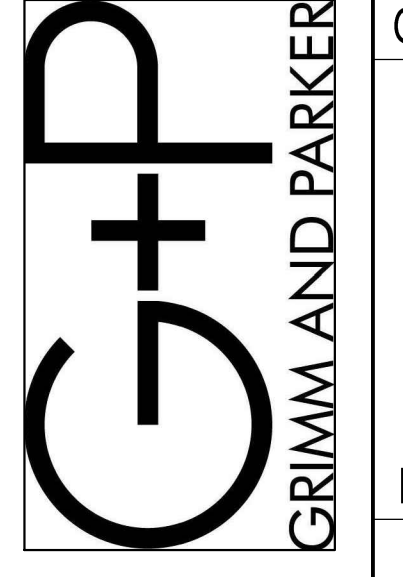
8 TREE PLAN VIEW
L-4.01H SCALE: 3/8" = 1'-0"

PLANTING NOTES:

- 1 TREE PROTECTION FENCE IS REQUIRED DURING CONSTRUCTION.
- 2 QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF ROOT BULBS MUST BE IN ACCORDANCE WITH ANLA STANDARDS.
- 3 TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO TREE AND SHRUB DETAILS.
- 4 REFER TO SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
- 5 REFER TO SPECIFICATIONS FOR WATERING REQUIREMENTS.
- 6 NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST OR MATERIALIST.
- 7 NO EQUIPMENT SHALL BE PLACED OR BE OPERATED WITHIN THE PROTECTIVE FENCING PERIMETER INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
- 8 SHRUBS SHALL BE OF QUALITY AS PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATIONS.
- 9 REFER TO PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSIONS.
- 10 SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. REFER TO ROOT BALL SHAVING CONTAINER DETAIL.
- 11 SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

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