TRACK & FIELD IMPROVEMENTS
HALLSVILLE R-IV SCHOOL DISTRICT
421 EAST HIGHWAY 124, HALLSVILLE , MO

OCTOBER 14, 2022

SCHOOL BOARD

JON BEQUETTE	PRESIDENT
BRYAN WILDENHAIN	VICE PRESIDENT
CRAIG STEVENSON	TREASURER
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SHAUNNA TURNER	
SHANDA NICHOLS	
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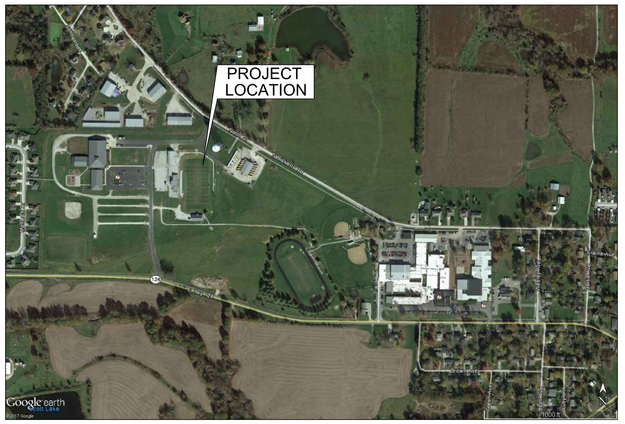
ADA THARP	SECRETARY TO THE BOARD
JOHN DOWNS	SUPERINTENDENT



LOCATION MAP

INDEX OF SHEETS

811 Know what's below. Call before you dig.

— NOTE —
UTILITY INFORMATION IS FOR THE CONVENIENCE OF THE CONTRACTOR. BEFORE CONSTRUCTION BEGINS THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL SYSTEM, INC. AT 811 OR 1-800-344-7483 AND THE INDIVIDUAL UTILITIES NOT INCLUDED IN THIS SYSTEM FOR THE LOCATION OF ALL EXISTING UTILITIES.

SET NO.

FULL SIZED PLANS HAVE BEEN PREPARED USING STANDARD SCALES. REDUCED SIZED PLANS MAY NOT CONFORM TO STANDARD SCALES. USE GRAPHIC SCALES WHEN MAKING MEASUREMENTS ON REDUCED PLANS.

Klingner & Associates, P.C.- Engineer Missouri
State Certificate of Authority # E-000866

PROJECT NO. 21-5052

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
Columbia, Missouri
907 East Ash Street
573.355.5988
Quincy, IL Hannibal, MO
Burlington, IA Galesburg, IL Pella, IA
Davenport, IA Carbondale, IL

GENERAL NOTES

1. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
2. ANY DISCREPANCIES BETWEEN SPECIFICATIONS, DRAWINGS, AND/OR SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. ALL AREAS DESIGNATED TO REMAIN UNDISTURBED SHALL BE PROTECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE LOCATION OF ALL PROPOSED IMPROVEMENTS, INCLUDING ROUGH AND FINISHED ELEVATIONS AND ALL OTHER PROPOSED IMPROVEMENTS INDICATED ON THE DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY THAT ALL APPLICABLE LOCAL, STATE, & FEDERAL CODES ARE FOLLOWED. ALL APPLICABLE LOCAL AND STATE NOTIFICATIONS AND PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION, INCLUDING ALL NECESSARY UTILITY CONNECTION PERMITS FROM THE RESPECTIVE UTILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND SERVICES REQUIRED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL REFERENCE POINTS, BENCHMARKS, MONUMENTS, STAKES, AND PROPERTY CORNERS DURING CONSTRUCTION. REPLACEMENT OF LOST REFERENCE POINTS SHALL BE AT THE CONTRACTORS EXPENSE.
8. REMOVE ALL STRUCTURES, FOUNDATIONS, WALLS, PAVEMENTS, AND ALL OTHER ITEMS IN CONFLICT WITH PROPOSED IMPROVEMENTS IN ACCORDANCE WITH THE SPECIFICATIONS.
9. REFERENCES TO "STANDARD SPECIFICATIONS" SHALL MEAN THE MISSOURI DEPARTMENT OF TRANSPORTATION, "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", LATEST EDITION.
10. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. NO WORK SHALL BE PERFORMED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT OWNER APPROVAL.
12. SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, AND THE PROJECT SITE SHALL BE KEPT CLEAN AT ALL TIMES. CONTROL DUST IN AND AROUND ALL WORK AND STAGING AREAS.
13. ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
14. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
15. THE PROJECT SITE SHALL BE FENCED WITH A MINIMUM 6-FOOT HEIGHT TEMPORARY CHAIN LINK FENCE WITH TOP RAIL.
16. IF A DISCREPANCY IN THE SPOT ELEVATIONS IS NOTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTING. IF THERE IS A DISCREPANCY BETWEEN THE SPOT ELEVATIONS AND CONTOURS, THE CONTOURS SHALL GOVERN.

PAVEMENT NOTES

1. PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
2. PROOF-ROLL SUBGRADE WITH A MINIMUM 25 TON G.V.W. TRUCK TO IDENTIFY AREAS OF SOFT OR UNSTABLE SUBGRADE. REMOVE AND REPLACE UNSTABLE AREAS WITH SUITABLE COMPACTED MATERIALS.
3. 1/2 INCH PREFORMED EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN NEW PAVEMENT CONSTRUCTION AND THE FACES OF BUILDINGS AND STOOPS.
4. PAVEMENT MARKING SHALL NOT BEGIN UNTIL PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEPT AS NECESSARY TO REMOVE LOOSE MATERIALS AND DIRT; AND NOT BEFORE ADEQUATE CURING TIME HAS BEEN OBTAINED ON THE PAVEMENT.
5. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF BUILDING, OR PROPERTY LINES UNLESS OTHERWISE NOTED. ALL RADII ARE TO BACK OF CURB.

EROSION CONTROL NOTES

1. EROSION CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE DETAILS IN THESE PLANS, AND THE MISSOURI DNR STANDARDS.
2. THE EROSION CONTROL SHOWN ON THIS SET OF PLANS SHALL BE CONSIDERED THE MINIMUM ACCEPTABLE FOR THIS PROJECT. THERE MAY BE ADDITIONAL EROSION CONTROL REQUIRED DUE TO THE VARIOUS CONSTRUCTION TECHNIQUES, WHICH MAY BE USED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AND MAINTAINING ALL THE RUNOFF FROM THE SITE, IN A MANNER WHICH KEEPS ALL SILT ON SITE.
3. A LAND DISTURBANCE CONSTRUCTION PERMIT IS REQUIRED SINCE MORE THAN 1 ACRE OF LAND WILL BE DISTURBED BY GRADING OPERATIONS.
4. ALL INLET PROTECTION AND TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF PAVING OPERATIONS AND FINAL STABILIZATION OF LANDSCAPED AND SEED AREAS.

GRADING NOTES

1. TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 6 INCHES WITHIN ALL PROPOSED BUILDING AND PAVEMENT AREAS AND STOCKPILED ON SITE FOR USE IN LANDSCAPE AREAS (COORDINATE WITH OWNER). IF ACCEPTABLE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE IT TO A DEPTH OF 6 INCHES.
2. TOPSOIL SHALL BE LOAMY IN NATURE, FREE FROM HARD CLODS, STIFF CLAY, SOD, STONES, ROOTS, STICKS, AND OTHER DEBRIS OVER 1 INCH IN SIZE. TOPSOIL SHALL BE FREE OF TOXIC MATERIALS AND SHALL HAVE A pH RANGE BETWEEN 5.5 AND 7.0.
3. ALL EXCESS MATERIALS NOT USED FOR CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
4. PROPOSED CONTOURS ARE INTENDED TO PROVIDE A MIN. 1% SLOPE IN PAVEMENT AREAS AND 2% IN TURFED AREAS. CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING A SMOOTH UNIFORM DRAINING SURFACE THAT DOES NOT CREATE PONDING WATER OR SHARP BREAKS. CONTOURS OR ELEVATIONS THAT WILL NOT PROVIDE SUCH SURFACE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT IMMEDIATELY.
5. FINAL ELEVATIONS INDICATED ARE THE FINISHED SURFACE ELEVATIONS, WHETHER GRASS, CONCRETE, PAVEMENT, OR MULCH. THE CONTRACTOR SHALL COORDINATE SUBGRADE ELEVATIONS TO ALLOW FOR PAVEMENT, CONCRETE OR MULCH DEPTHS.
6. ALL DISTURBED AREAS NOT WITHIN PAVEMENT & LANDSCAPE AREAS SHALL BE SEEDED PER THE SPECIFICATIONS. THE AREAS INDICATED TO BE SEEDED ON THIS PLAN ARE ESTIMATED DISTURBED AREAS. DISTURBED AREAS OUTSIDE OF THOSE INDICATED SHALL BE SEEDED REGARDLESS OF THE LIMITS INDICATED.
7. SLOPES 4:1 AND STEEPER SHALL RECEIVE A TEMPORARY EROSION CONTROL MAT PROVIDING PROTECTION FOR UP TO 12 MONTHS.

UTILITY NOTES

1. THE LOCATION OF EXISTING UTILITIES IN CONSTRUCTION AREAS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY CONTACTING THE MISSOURI ONE CALL SYSTEM, INC. OR THE INDIVIDUAL UTILITIES NOT PARTICIPATING IN THIS SYSTEM. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. ANY REPAIR OR RELOCATION REQUIRED, AS A RESULT OF DAMAGE BY CONSTRUCTION ACTIVITIES SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PAY UTILITY PERMIT AND/OR INSPECTION FEES.
2. UTILITY TRENCHES WITHIN PAVEMENT AREAS SHALL BE BACKFILLED WITH APPROVED COMPACTED GRANULAR BACKFILL.
3. ALL ELECTRIC SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, CURRENT VERSION.
4. ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
5. THE DRAWINGS INDICATE THE BEST KNOWLEDGE OF THE OWNER AND ENGINEER/ARCHITECT ON THE GENERAL LOCATION AND NATURE OF THE EXISTING AND OR PROPOSED UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION. EXPLORATORY EXCAVATIONS AT THE SITE TO DETERMINE INSITU LOCATIONS WERE NOT CONDUCTED. QUALITY LEVEL "C" IN ACCORDANCE WITH CI/ASCE 38-02, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA, WAS UTILIZED. REGARDLESS OF THE LEVEL OF INVESTIGATION, THE UTILITIES SHOWN SHOULD NOT BE CONSIDERED A WARRANTY OR GUARANTEE OF ACTUAL PRESENCE OR LOCATION AND THE CONTRACTOR REMAINS RESPONSIBLE FOR THE LOCATION, VERIFICATION, AND PROPER NOTIFICATION OF POTENTIAL UTILITIES.

QUALITY LEVELS:

QUALITY LEVEL A - PROVIDES THE HIGHEST LEVEL OF ACCURACY. BY LOCATING OR POTHOLING UTILITIES IN ADDITION TO QUALITY LEVELS B, C, AND D TASKS. THE LOCATED UTILITY INFRASTRUCTURE IS SURVEYED AND MAPPED TO DEVELOP PLAN AND PROFILE INFORMATION.

QUALITY LEVEL B - INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND RECORDING THE INFORMATION THROUGH A SURVEY METHOD. IN ADDITION TO QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL C - INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. IN ADDITION TO QUALITY LEVEL D TASKS

QUALITY LEVEL D - INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS, THAT MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICE MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASE, CONSTRUCTION PLANS, ETC. DATABASES, CONSTRUCTION PLANS, ETC.

CITY OF HALLSVILLE
202 HWY 124 EAST - HALLSVILLE, MO
SITE PLAN REVIEW INFORMATION

PROPERTY OWNERSHIP & ZONING REQUIREMENTS

OWNER NAME:	HALLSVILLE R-IV SCHOOL DISTRICT
PROJECT LOCATION:	421 MO-124 E, HALLSVILLE, MO.
TELEPHONE:	(573) 696-5512
OWNER CONTACT:	JOHN DOWNS, SUPERINTENDENT
OWNER ADDRESS:	421 MO-124 E, HALLSVILLE, MO.

PROPERTY ZONING CLASSIFICATION: A-1- GENERAL AGRICULTURAL DISTRICT- PUBLIC BUILDINGS AND FACILITIES ARE PERMITTED IN THIS DISTRICT.

MIN. LOT AREA:	NA
FRONT YARD:	NA
SIDE YARDS REQUIRED:	NA
REAR YARD REQUIRED:	NA

ABBREVIATIONS

FL	FLOWLINE ELEVATION
TC	TOP OF CURB ELEVATION
GL	GUTTER LINE ELEVATION
TG	TOP OF GRATE ELEVATION
STA	STATION
FES	FLARED END SECTION
SWI	STORM WATER INLET
FFE	FINISH FLOOR ELEVATION
HP	HIGH POINT
LP	LOW POINT
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
DS	DOWNSPOUT
EP	EDGE OF PAVEMENT ELEVATION
N.I.C.	NOT IN CONTRACT

LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
		LOT LINE
		RIGHT OF WAY LINE
		CENTERLINE
		EASEMENT
		BUILDING SETBACK
		CONSTRUCTION LIMITS
X	X	FENCE LINE
O	O	CHAIN LINK FENCE
		FENCE W/ SQUARE POSTS
		STREAM
		STRUCTURE
		PAVEMENT MARKINGS
		EDGE OF PAVEMENT
		CURB AND GUTTER
		RAILROAD TRACKS
W	W	WATER LINE
FP	FP	FIRE PROTECTION
G	G	GAS LINE
OE	OE	OVERHEAD ELECTRIC
UE	UE	UNDERGROUND ELECTRIC
OT	OT	OVERHEAD TELEPHONE
UT	UT	UNDERGROUND TELEPHONE
CATV	CATV	CABLE TELEVISION
FO	FO	FIBER OPTIC
COM	COM	COMMUNICATION LINE
) ST)	) ST)	STORM SEWER
>SAN>	>SAN>	SANITARY SEWER
FM	FM	FORCE MAIN
	ST-SAN	COMBINED SEWER
IR	IR	IRRIGATION SYSTEM
		MAST ARM SIGNAL (3 SIGNALS)
		MAST ARM SIGNALS (2 SIGNALS)
		UTILITY TRAFFIC SIGN
		SIGN
		MANHOLE
		STORM WATER INLET
		CATCH BASIN
		CLEANOUT
		CULVERT
		BOX CULVERT
		WATER VALVE
		FIRE HYDRANT
PIV	PIV	POST INDICATOR VALVE
W	W	WATER METER
		GAS VALVE
G	G	GAS METER
T	T	TELEPHONE PEDESTAL
TV	TV	CABLE TV PEDESTAL
E	E	ELECTRIC METER
		UTILITY POLE
		LIGHT STANDARD
		LIGHT POLE
		GUY WIRE
		SUMMIT / HIGH POINT
601		CONTOURS
600		INDEX CONTOURS
		DIRECTION OF DRAINAGE
+600.00	600.00	SPOT ELEVATION
		DECIDUOUS SHRUB
		DECIDUOUS TREE
		CONIFEROUS SHRUB
		CONIFEROUS TREE

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217 223 3670

REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR
1			

DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS

HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

Non-Reduced Sheet Size: 30" x 42"
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED DCD	DRAWN DCD/GSG
FIELD RAW/MWJ	FIELD BOOK H14/53
CHECKED	CHECK DATE

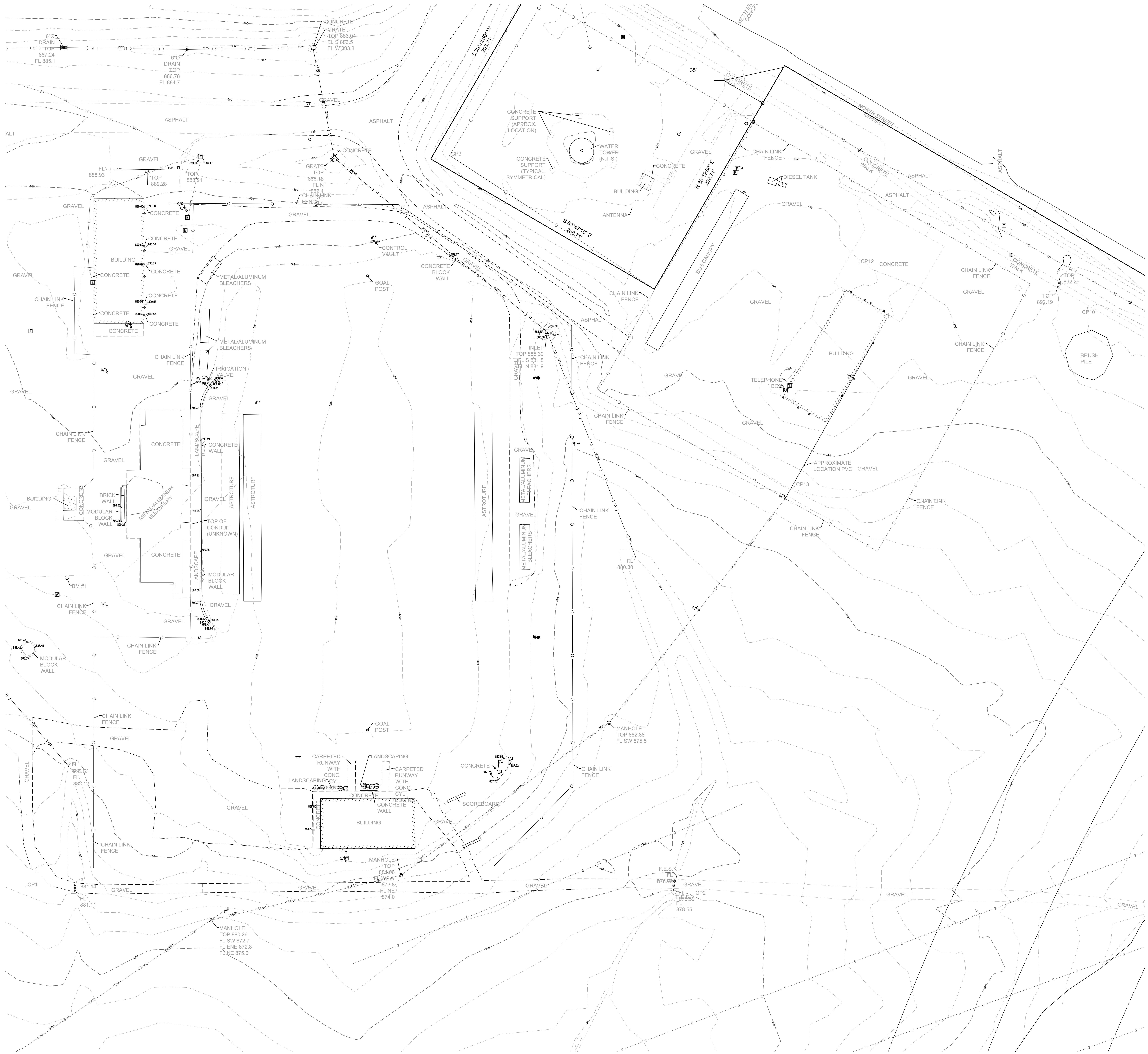
SHEET TITLE

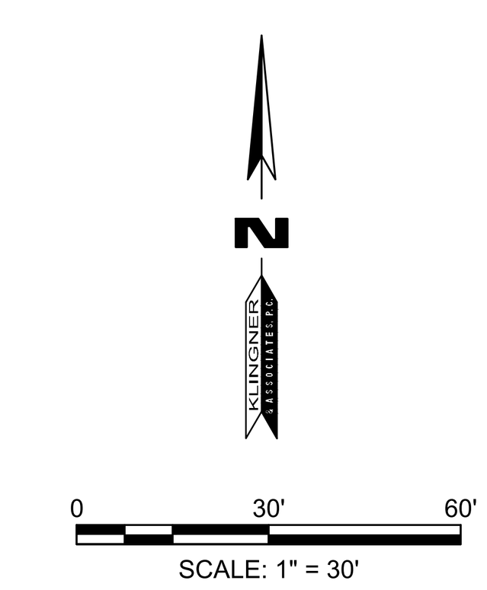
GENERAL NOTES & LEGEND

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
C001





BENCHMARKS:

1. CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16

2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)

3. CHISELED "+" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16

4. CHISELED "+" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

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SHEET TITLE

EXISTING CONDITIONS SITE PLAN

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
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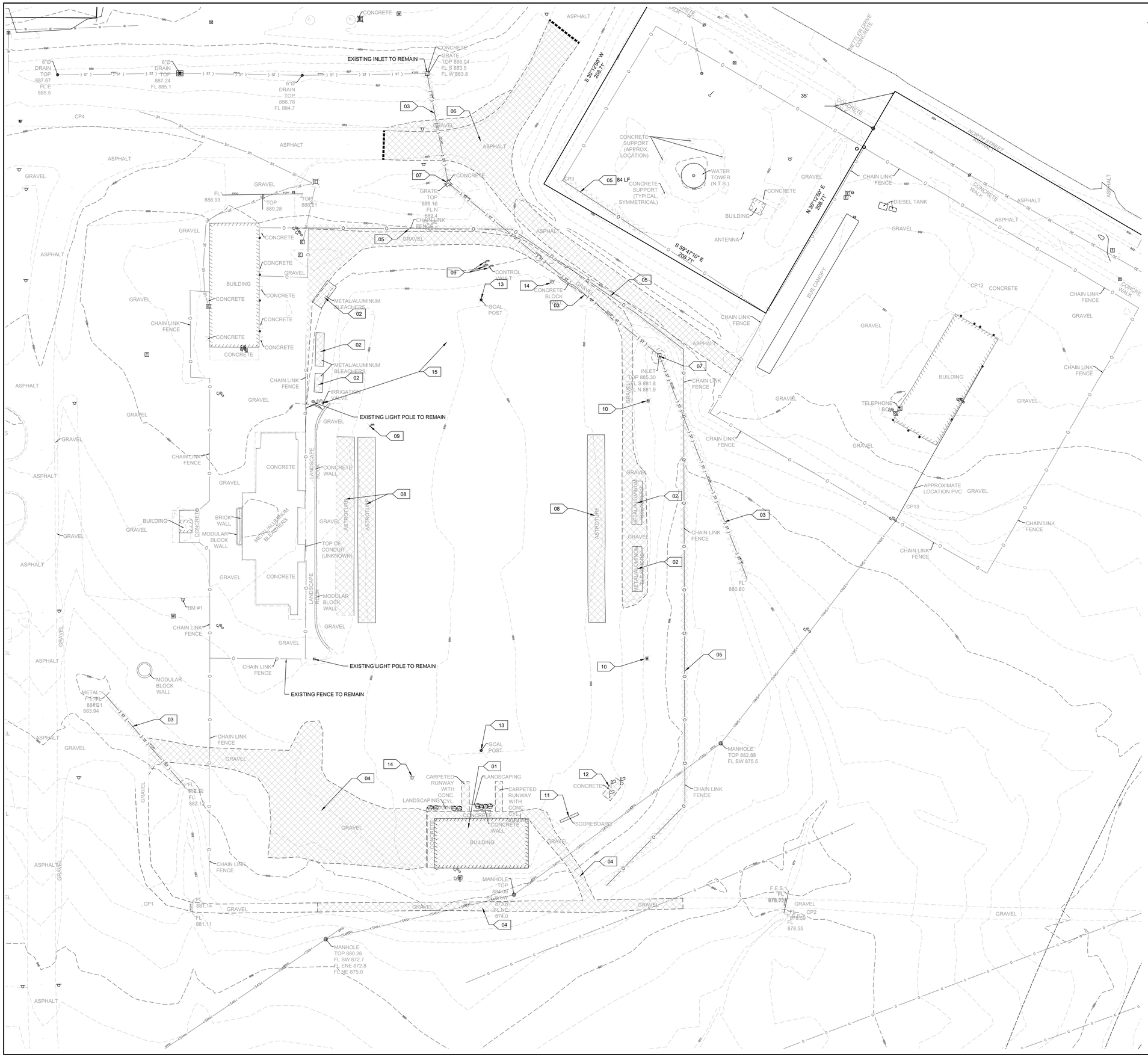
SHEET
C100



DEMOLITION LEGEND

REMOVALS BY CONTRACTOR

PAVEMENT SAWCUT

DEMOLITION NOTES

1. REMOVE ALL EXISTING PAVEMENTS, CURBS, WALLS, LANDSCAPING, AND ALL OTHER EXISTING SITE FEATURES IN CONFLICT WITH PROPOSED IMPROVEMENTS.
2. COORDINATE UTILITY REMOVALS AND/OR RELOCATIONS WITH THE RESPECTIVE UTILITY COMPANIES AND /OR THE CITY OF HALLSVILLE.
3. DEMOLITION SHALL INCLUDE REMOVAL & PROPER DISPOSAL OF MATERIALS.
4. CONTRACTOR TO PAY ALL PERMIT & DISPOSAL FEES.

SITE DEMOLITION KEY NOTES:

01 REMOVE BUILDING. PROPERLY CAP/ABANDON EXISTING UTILITY SERVICES.
02 REMOVE BLEACHERS, SALVAGE TO OWNER.
03 REMOVE STORM SEWER PIPE.
04 REMOVE AGGREGATE PAVEMENT.
05 REMOVE CHAIN LINK FENCE.
06 REMOVE PAVEMENT. SAWCUT AT REMOVAL LIMITS TO PROVIDE UNIFORM EDGE.
07 REMOVE STORM WATER INLET/MANHOLE.
08 REMOVE ASTROTURF SURFACING.
09 REMOVE IRRIGATION EQUIPMENT. SALVAGE TO OWNER.
10 FIELD LIGHTING AND POLES. SALVAGE TO OWNER.
11 REMOVE SCOREBOARD. SALVAGE TO OWNER.
12 REMOVE SLAB. SALVAGE FLAGS AND POLES TO OWNER.
13 REMOVE GOAL POST. SALVAGE TO OWNER.
14 REMOVE SIGN. SALVAGE TO OWNER.
15 REMOVE/ABANDON EXISTING IRRIGATION SYSTEM. SALVAGE COMPONENTS TO OWNER AND MAINTAIN SERVICE FOR NEW SYSTEM.

BENCHMARKS:

1. CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16

2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)

3. CHISELED "+" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16

4. CHISELED "+" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

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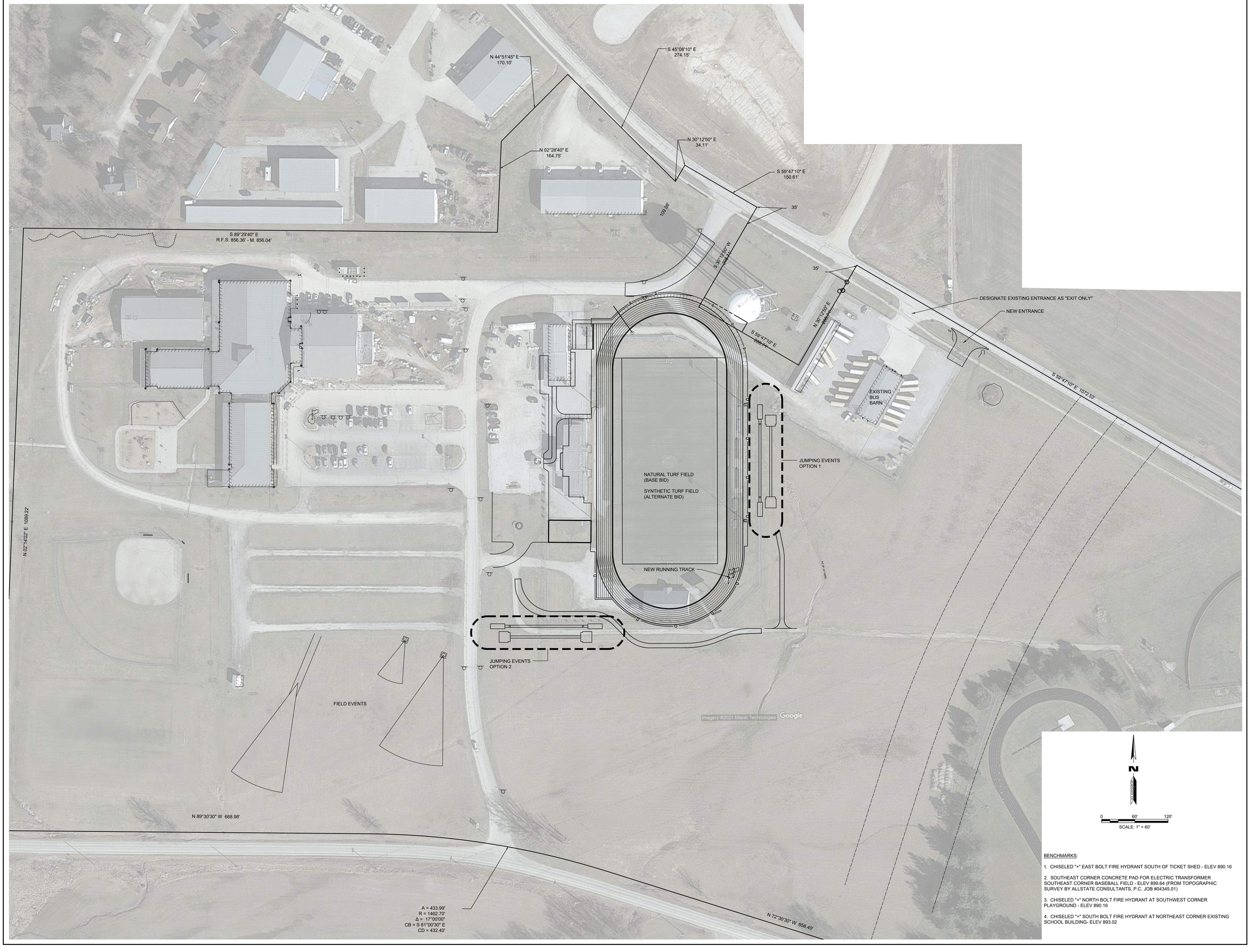
SHEET TITLE

SITE DEMOLITION PLAN

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
CD101



N
GRID NORTH

0 60' 120'
SCALE: 1" = 60'

BENCHMARKS:

1. CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16

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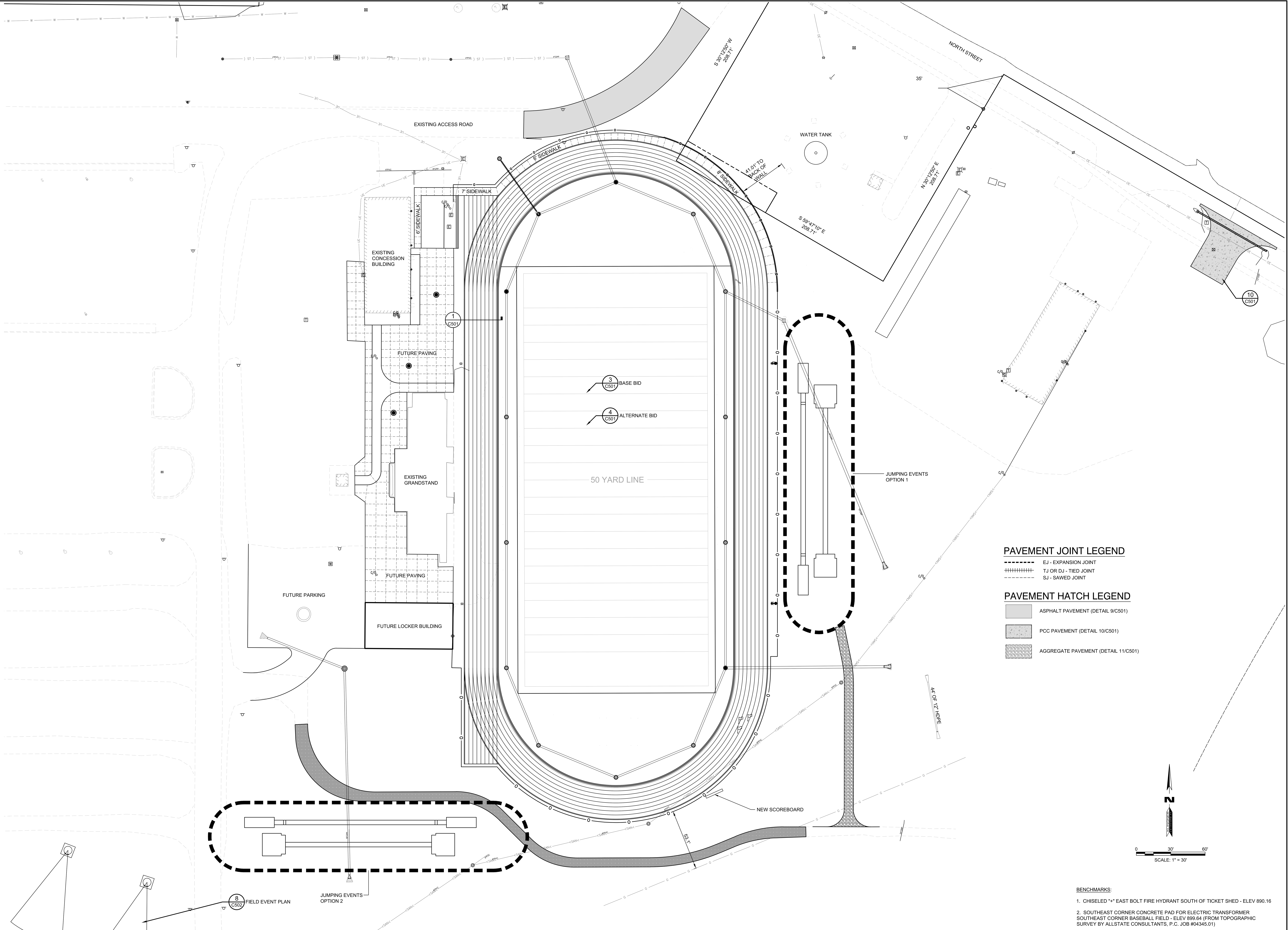
SHEET TITLE

SITE OVERALL PLAN

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
C101



PAVEMENT JOINT LEGEND

- EJ - EXPANSION JOINT
- TJ OR DJ - TIED JOINT
- SJ - SAWED JOINT

PAVEMENT HATCH LEGEND

- ASPHALT PAVEMENT (DETAIL 9/C501)
- PCC PAVEMENT (DETAIL 10/C501)
- AGGREGATE PAVEMENT (DETAIL 11/C501)

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FIELD: RAW/MWJ	FIELD BOOK: H14/53
CHECKED: .	CHECK DATE: .

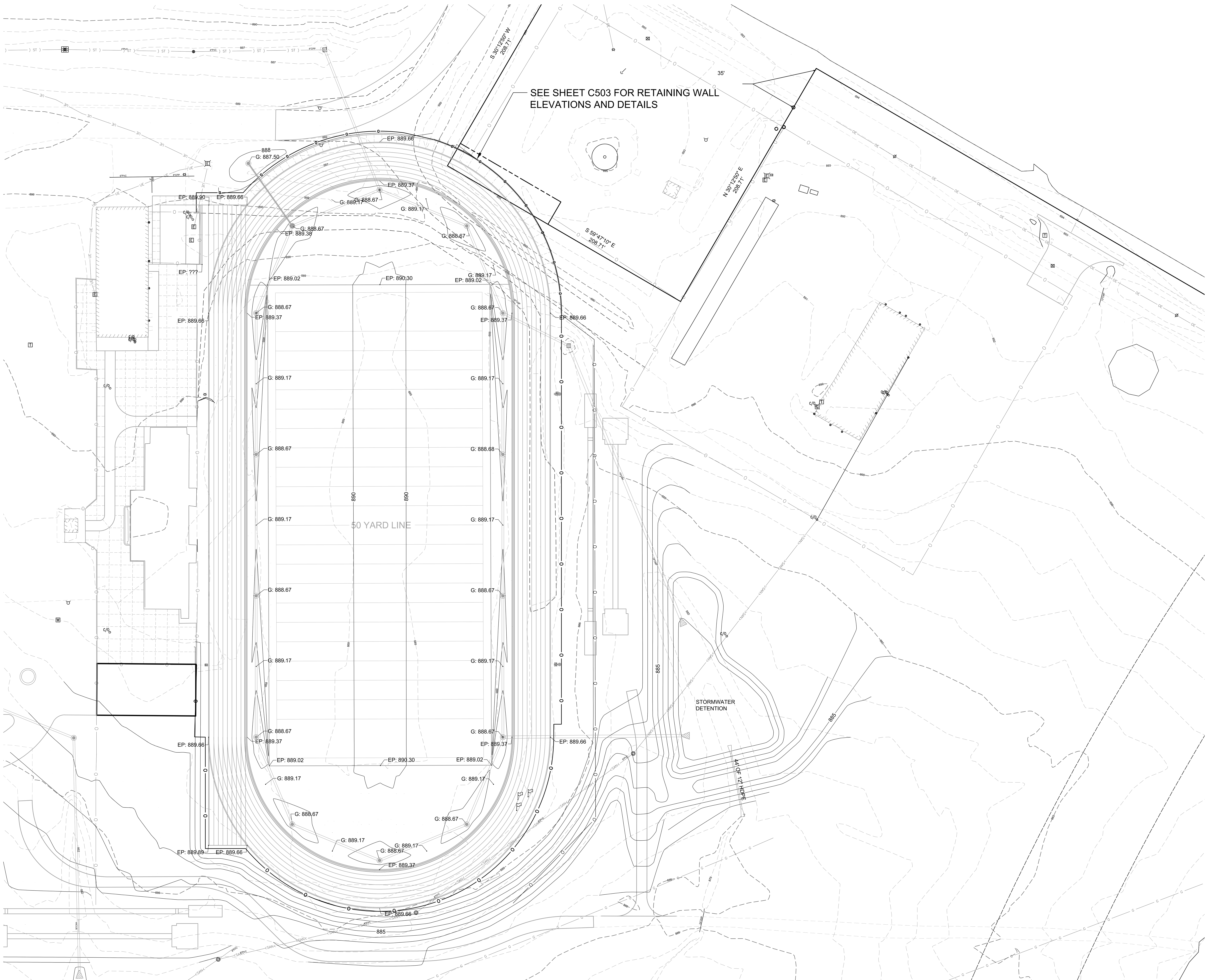
SHEET TITLE

SITE DIMENSIONAL PLAN

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
C102



LEGEND

EXISTING	PROPOSED	
		SUMMIT / HIGH POINT
601	601	CONTOURS
600	600	INDEX CONTOURS
		DIRECTION OF DRAINAGE
+ 600.00	EP XXX.XX	SPOT ELEVATION

0 30' 60'
SCALE: 1" = 30'

BENCHMARKS:

1. CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16

2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)

3. CHISELED "+" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16

4. CHISELED "+" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

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REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR
.	.	.	.

DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS

HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

Non-Reduced Sheet Size: 30" x 42"
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

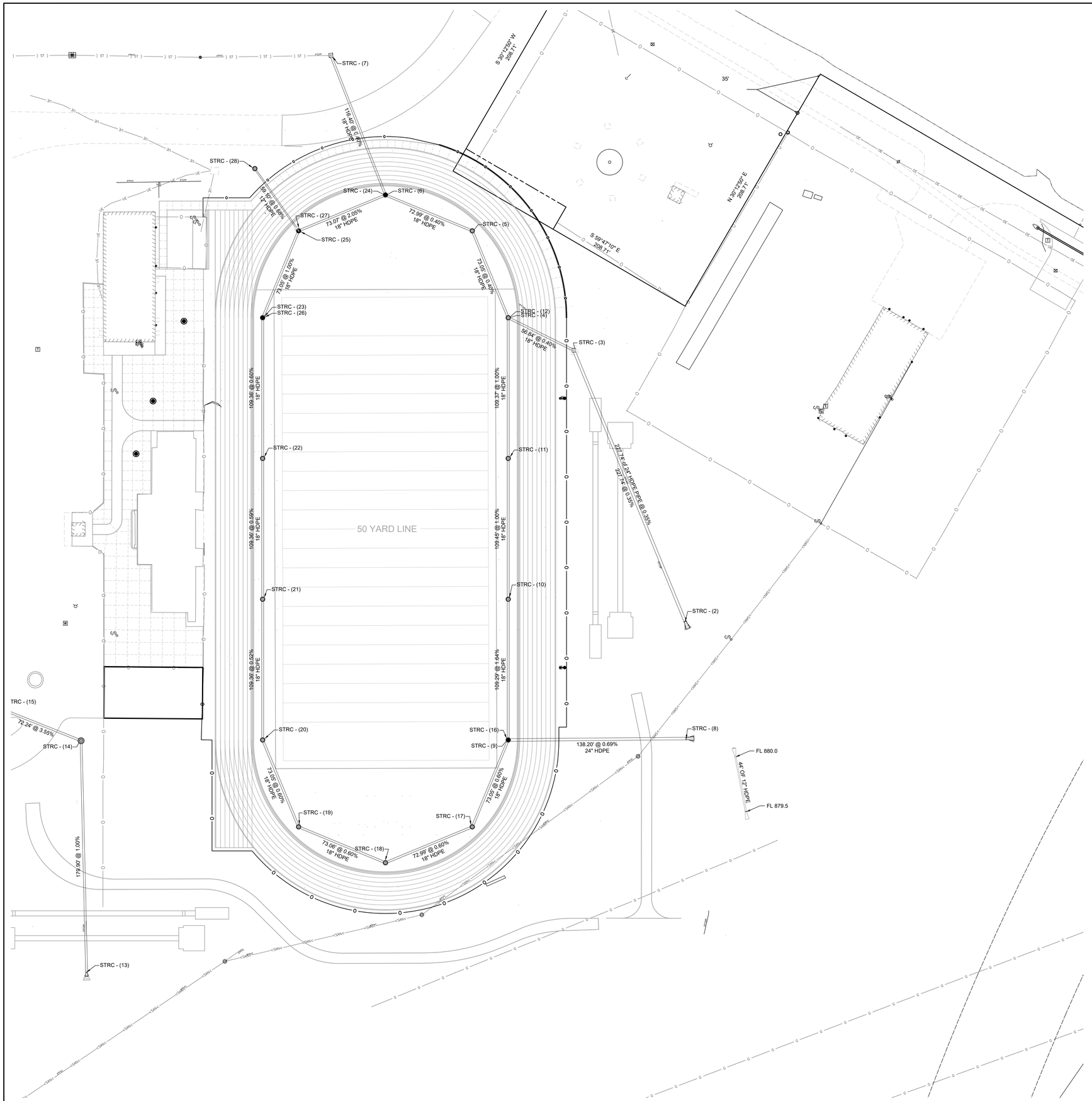
DESIGNED	DRAWN
DCD	DCD/GSG
FIELD	FIELD BOOK
RAW/MWJ	H14/53
CHECKED	CHECK DATE
.	.

SHEET TITLE
GRADING PLAN

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
C201



DRAINAGE STRUCTURE SCHEDULE				
STRUCT. NO.	TOP ELEV.	FLOWLINE ELEV.	DESCRIPTION	CASTING
STRC - (2)	881.05	FL-N-881.00	CONCRETE FLARED END SECTION	???
STRC - (3)	889.38	FL-S-881.80 FL-NW-881.99	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (4)	888.67	FL-SE-882.22 FL-N-882.30	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (5)	888.67	FL-S-882.59 FL-W-882.67	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (6)	888.67	FL-E-882.96 FL-N-883.03	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (7)	???	FL-S-883.50	RECTANGULAR JUNCTION STRUCTURE NF	???

DRAINAGE STRUCTURE SCHEDULE				
STRUCT. NO.	TOP ELEV.	FLOWLINE ELEV.	DESCRIPTION	CASTING
STRC - (8)	881.00	FL-W-881.00	CONCRETE FLARED END SECTION	???
STRC - (9)	888.67	FL-E-881.96 FL-N-882.04	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (10)	888.67	FL-S-883.83 FL-N-883.91	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (11)	888.67	FL-S-885.00 FL-N-885.08	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (12)	888.67	FL-S-886.17	CYLINDRICAL JUNCTION STRUCTURE NF	???

DRAINAGE STRUCTURE SCHEDULE				
STRUCT. NO.	TOP ELEV.	FLOWLINE ELEV.	DESCRIPTION	CASTING
STRC - (13)	???	FL-N-879.50	CONCRETE FLARED END SECTION	???
STRC - (14)	886.26	FL-S-881.30 FL-W-881.38	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (15)	???	FL-E-883.94	CONCRETE FLARED END SECTION	???

DRAINAGE STRUCTURE SCHEDULE				
STRUCT. NO.	TOP ELEV.	FLOWLINE ELEV.	DESCRIPTION	CASTING
STRC - (16)	888.67	FL-S-882.04	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (17)	888.67	FL-N-882.48 FL-W-882.56	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (18)	888.67	FL-E-883.00 FL-W-883.09	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (19)	888.67	FL-E-883.53 FL-NW-883.61	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (20)	888.67	FL-SE-884.05 FL-N-884.13	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (21)	888.67	FL-S-884.70 FL-N-884.78	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (22)	888.67	FL-S-885.43 FL-N-885.51	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (23)	888.67	FL-S-886.17	CYLINDRICAL JUNCTION STRUCTURE NF	???

DRAINAGE STRUCTURE SCHEDULE				
STRUCT. NO.	TOP ELEV.	FLOWLINE ELEV.	DESCRIPTION	CASTING
STRC - (24)	888.67	FL-W-883.03	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (25)	888.67	FL-E-884.53 FL-SW-884.60	CYLINDRICAL JUNCTION STRUCTURE NF	???
STRC - (26)	888.67	FL-NE-885.33	CYLINDRICAL JUNCTION STRUCTURE NF	???

DRAINAGE STRUCTURE SCHEDULE				
STRUCT. NO.	TOP ELEV.	FLOWLINE ELEV.	DESCRIPTION	CASTING
STRC - (27)	888.67	FL-NW-884.60	NULL STRUCTURE	???
STRC - (28)	887.50	FL-SE-885.00	CYLINDRICAL JUNCTION STRUCTURE NF	???

N
GRAPHIC SCALE

0 30' 60'

SCALE: 1" = 30'

BENCHMARKS:

1. CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16

2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)

3. CHISELED "+" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16

4. CHISELED "+" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

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217.223.3670

REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR
1			

DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS

HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

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DESIGNED	DRAWN
DCD	DCD/GSG
FIELD	FIELD BOOK
RAW/MWJ	H14/53
CHECKED	CHECK DATE
-	

SHEET TITLE

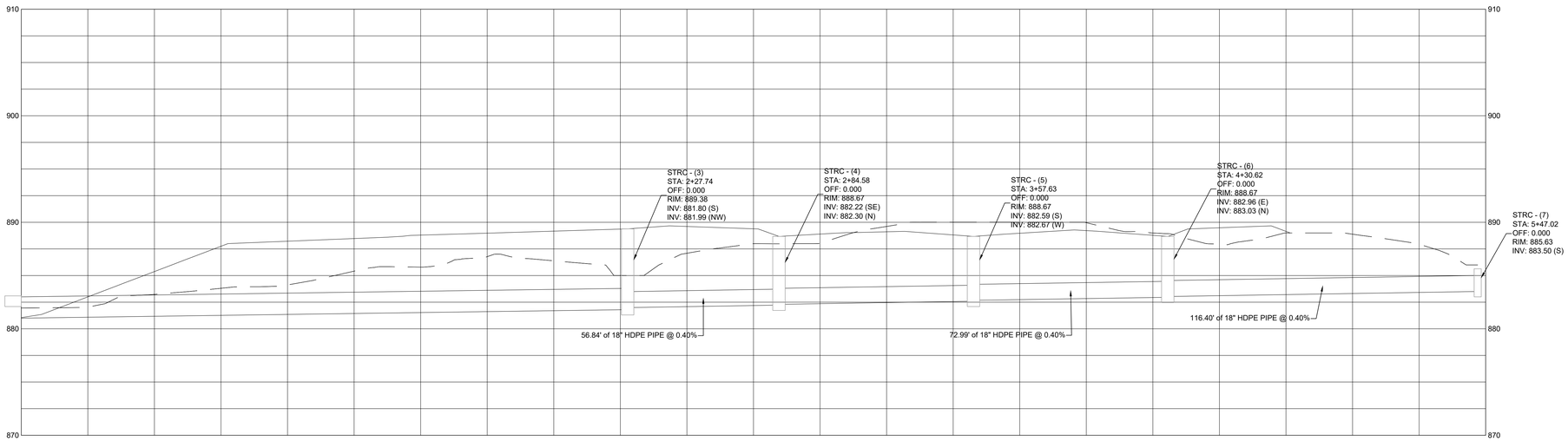
SITE UTILITY PLAN

PROJECT NO.
21-5052

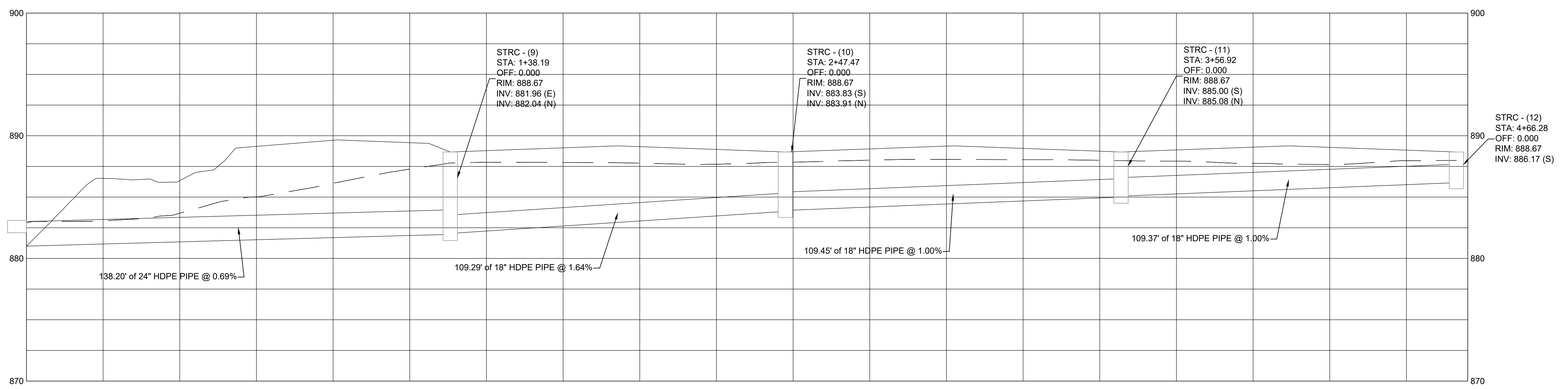
DRAWING ISSUED DATE:
10/10/2022

SHEET
C301

STORM SEWER- FOOTBALL NORTHEAST PROFILE



STORM SEWER-FOOTBALL EAST PROFILE



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REVISION HISTORY

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1			

DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS

HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

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DCD	DCD/GSG
FIELD	FIELD BOOK
RAW/MWJ	H14/53
CHECKED	CHECK DATE

SHEET TITLE

STORM SEWER PROFILES

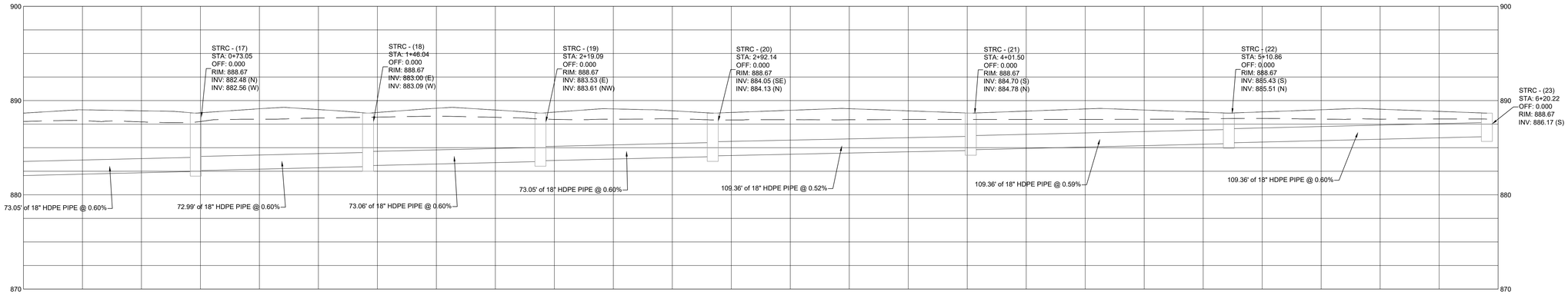
PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

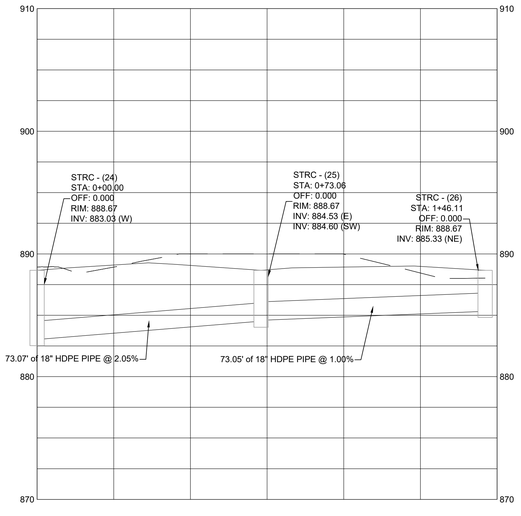
SHEET

C302

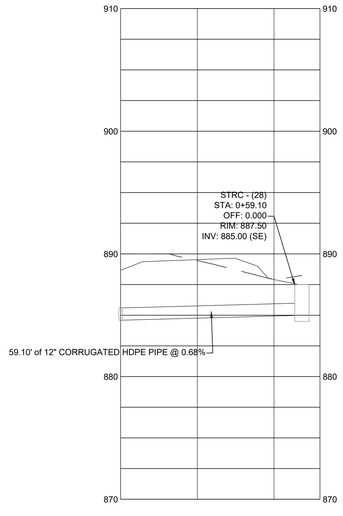
STORM SEWER- FOOTBALL SOUTH PROFILE



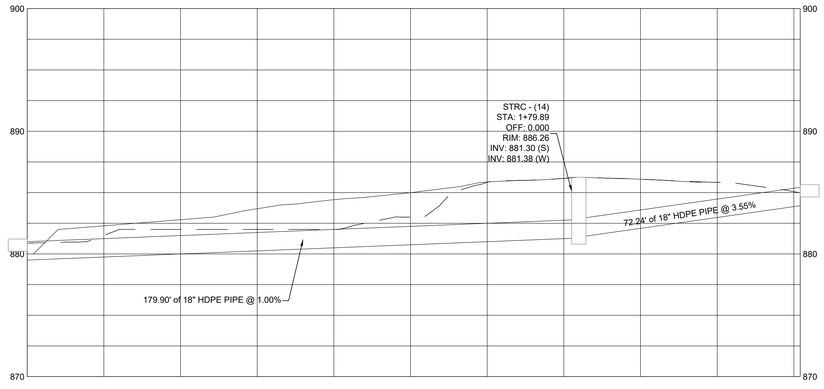
STORM SEWER - FOOTBALL NORTHWEST INTERIOR PROFILE



STORM SEWER-FOOTBALL NORTHWEST EXTERIOR PROFILE



STORM SEWER-FOOTBALL SOUTHWEST PROFILE



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REVISION HISTORY

#ARN	DESCRIPTION	DATE	APPR
1			

DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

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HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

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FIELD	FIELD BOOK
RAW/MWJ	H14/53
CHECKED	CHECK DATE
-	

SHEET TITLE

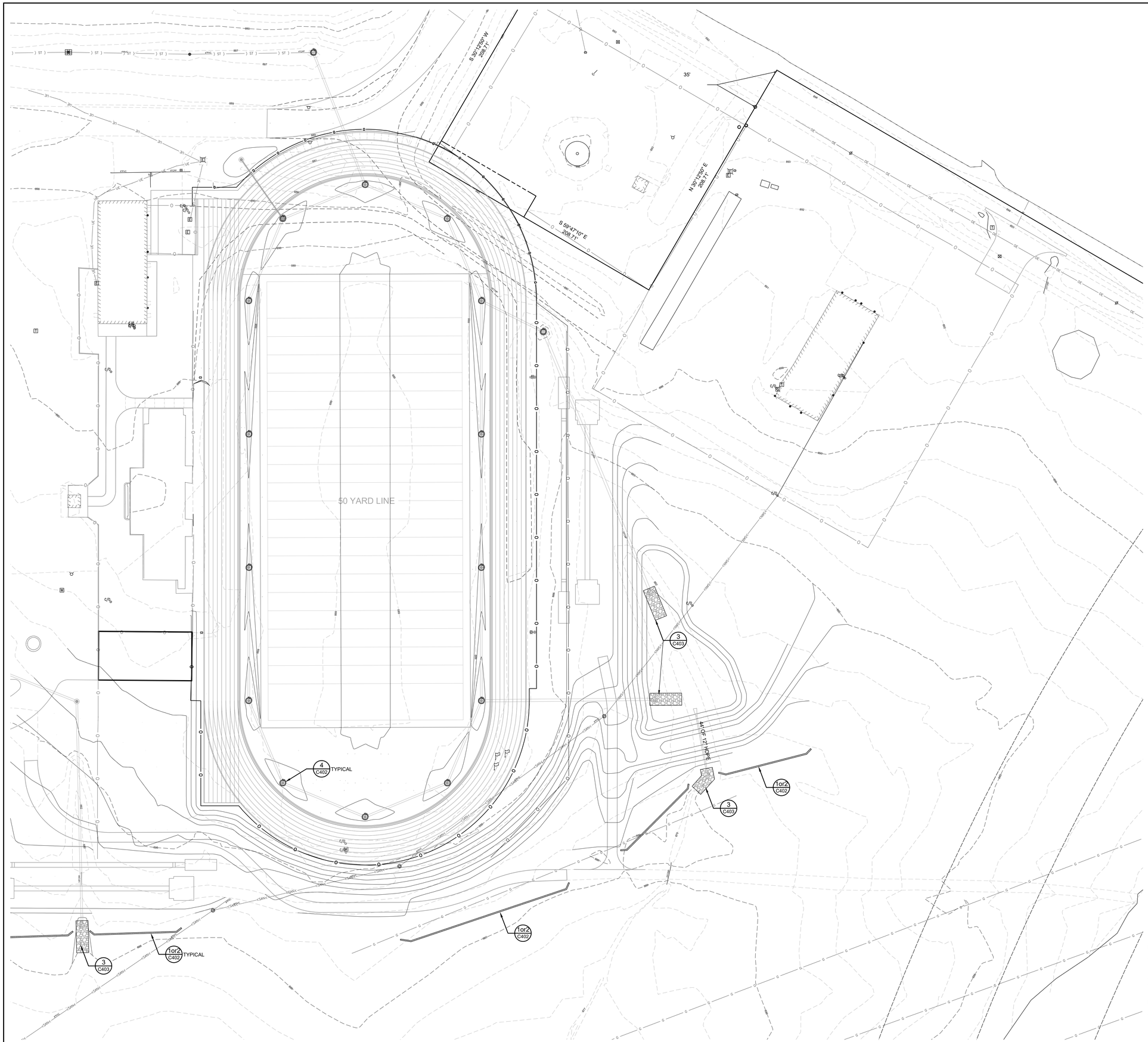
STORM SEWER PROFILES

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET

C303



LEGEND

EXISTING	PROPOSED	
		SUMMIT / HIGH POINT
601	601	CONTOURS
600	600	INDEX CONTOURS
		DIRECTION OF DRAINAGE
+600.00	EP XXX.XX	SPOT ELEVATION
		EROSION CONTROL BARRIER
		TURF REINFORCEMENT MAT SHEAR STRESS: 10 LB/SF VELOCITY: MIN. 10 FT/SEC
		ROCK DITCH LINER
		SHORT TERM SLOPE EROSION CONTROL BLANKET

BENCHMARKS:

1. CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16

2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)

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REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR.
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DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS

HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

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DESIGNED DCD	DRAWN DCD/CSG
FIELD RAW/MWJ	FIELD BOOK H14/53
CHECKED	CHECK DATE

SHEET TITLE

EROSION CONTROL PLAN

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
C401

STORM WATER POLLUTION PREVENTION PLAN

CERTIFICATION STATEMENTS

This plan and certifications are a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. MO-R10A000 as issued by the Missouri Department of Natural Resources for storm water discharges from Construction Site Activities.

PROJECT INFORMATION:

Site: Hallsville R-IV School District
City: Hallsville, MO
Location: 421 MO-124 E
County: Boone County

PERMITTEE (OWNER) CERTIFICATION:CONTRACTOR CERTIFICATION STATEMENT certify under penalty of law that this document and all attachments were prepared under my direct supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

OWNER (PERMITTEE):________	CONTRACTOR:________
SIGNATURE:________	SIGNATURE:________
PRINT NAME:________	PRINT NAME:________
STREET ADDRESS:________	STREET ADDRESS:________
City ____ State ____ Zip ____	City ____ State ____ Zip ____
TELEPHONE NUMBER:________	TELEPHONE NUMBER:________
FAX NUMBER:________	FAX NUMBER:________
DATE: ________	DATE:________

STORM WATER POLLUTION PLAN

The following plan is established and incorporated in the project to aid the contractor in the placement of temporary erosion control systems and to provide a storm sewer water pollution prevention plan for compliance under NPDES.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the contractor at the beginning of construction. Other items shall be installed by the contractor as deemed necessary, on a case-by-case situation, depending on the contractor's sequence of activities, time of year and expected weather conditions.

The contractor shall install permanent erosion control systems and seeding within a time frame specified herein. Therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. Contractor shall further determine if any temporary erosion control systems shown in the plan can be deleted and if any additional temporary erosion control systems which are not included in this plan shall be added.

SITE DESCRIPTION.

1. The project consists of site work for the development of a new synthetic track and football field. Construction includes earth excavation, embankment, various pavement items, storm sewer, utility adjustments and other miscellaneous items of construction.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES, WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE.

1. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as perimeter erosion control barriers; temporary ditch checks; siltation basins, temporary seeding, etc.
2. Tree removal as shown on the plans. Trees to remain will be protected against damage.
3. Topsoil removal and stockpiling.
4. Excavation and embankment at the job site to achieve the proposed site contours.
5. Pavement work.
6. Final grading, seeding, and other miscellaneous items.

Placement of permanent erosion control such as riprapped ditches, erosion control blanket, seeding, etc.

AREA OF CONSTRUCTION SITE:

1. The total area of the project site is approximatey 7 acres of which 6.8 acres will be disturbed by excavation, grading, and other activities.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. Project plan documents, specifications, hydraulic reports, and plan drawings indicate drainage patterns and approximate slopes anticipated after grading activities were utilized for the proposed placement of the temporary erosion control systems.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. The names of receiving water(s) is the XXXX.

2. Location of any sensitive areas (i.e. wetlands, habitats)

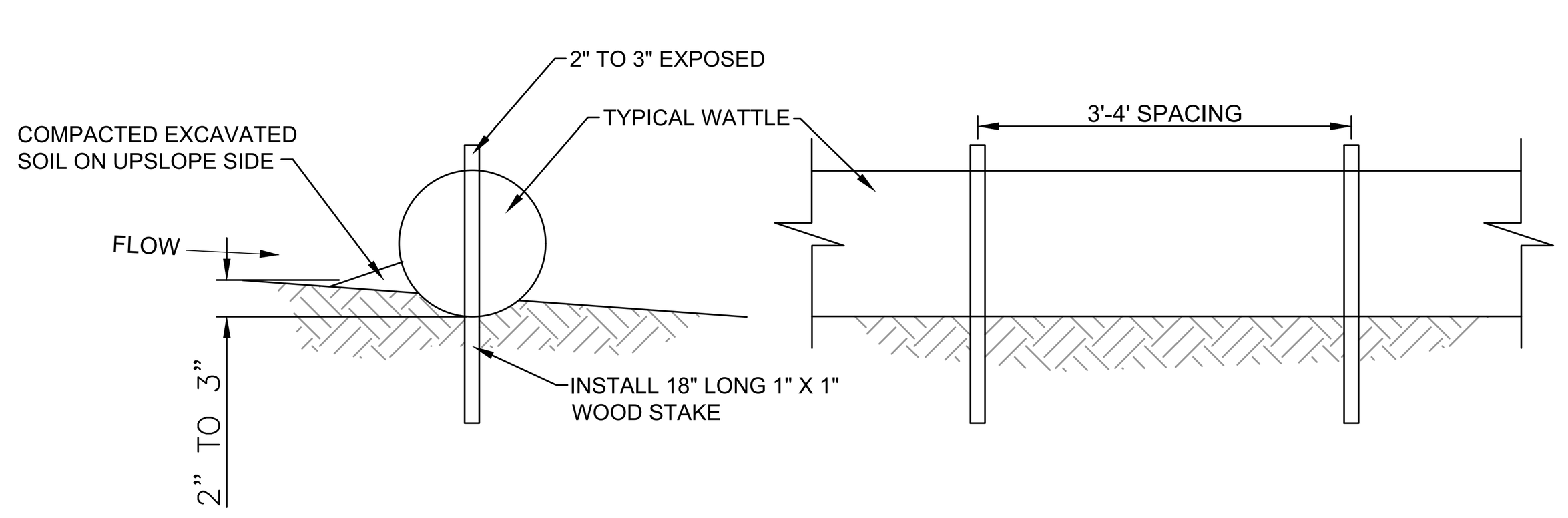
CONTROLS-EROSION CONTROLS AND SEDIMENT CONTROL:

1. DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION
   The drawings and specifications should ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices include temporary seeding, permanent seeding, mulching, protection of trees, preservation of mature vegetation, and other appropriate measures. Stabilization measures shall be initiated immediately in portions of the site where construction activities have temporarily or permanently ceased,and completed in no more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased. Allowances to the seven (7) day completion period for temporary and permanent stabilization may be made due to weather and equipment malfunctions. The allowances shall be documented in the SWPPP.
   a. Areas of existing vegetation; wood and grasslands; outside the proposed construction limits shall be identified for preserving and shall be protected from construction activities.
   b. Dead, diseased, or unsuitable vegetation within the site shall be removed, along with required tree removal.

As soon as reasonable access is available to all locations where water drains away from the project, temporary ditch checks, inlet and pipe protection, and perimeter erosion barrier shall be installed as called out in this plan.

d. Bare and sparsely vegetated ground in high erodable areas shall be temporarily seeded at the beginning of construction where not construction activities are expected within seven days.
e. Immediately after tree removal or stripping is completed, areas which are highly erodable shall be temporarily seeded when no construction activities are expected within seven days.
f. At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), temporary ditch checks or silt fencing will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the site.

Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be completed.



1 EROSION CONTROL WATTLE CHECK
N.T.S.

2. DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION

During construction, areas outside the construction limits as outlined previously herein shall be protected. The contractor shall not use this area for staging (except as described on the plans) and parking of vehicles or construction equipment, storage of materials, or other construction related activities.

d. Within the construction limits, areas which may be susceptible to erosion, shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
e. Earth stockpiles shall be temporarily seeded immediately if they are to remain unused for more than fourteen (14) days.
f. As construction proceeds, the contractor shall institute the following:
i. Place temporary erosion control facilities at locations shown on the plans.
ii. Temporarily seed erodable bare earth on a weekly basis to minimize the amount of erodable surface area within the contract limits.
iii. Construct ditches and provide temporary erosion control systems including ditch lining and ditch stops.
iv. Temporarily divert water around culvert locations.
v. Build necessary embankments at culvert locations and then excavate and place culvert.
vi. Continue building up the embankment to the proposed grade while at the same time,placing permanent erosion control such as riprap ditch lining and conducting final shaping to the slopes.

d. Excavated areas and embankment shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded immediately if no construction activity in the area is planned for 7 days.

e. Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or other pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.

f. The contractor shall inspect the project daily during construction activities. Inspection shall also be done weekly and after heavy rains.

g. Sediment collected during construction of the various temporary erosion control systems shall be disposed of on the site on a regular basis.

h. The temporary erosion control systems shall be removed after use is no longer or no longer functioning.

3. DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

i. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established.
j. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded.

MAINTENANCE AFTER CONSTRUCTION

1. Construction is complete after acceptance by the Owner. Maintenance up to this date will be by the Contractor.

MISCELLANEOUS

1. Temporary ditch checks shall be located at every 1.5 ft. fall/rise in ditch grade.
2. Temporary erosion control seeding shall be applied at a rate of 100 lbs/acres.
3. Straw bales, hay bales, perimeter erosion barrier and silt fences will not be permitted for permanent ditch checks. Ditch checks shall be composed of aggregate, silt panels, rolled excelsior, geotextile web grids and/or other equal materials.
4. Sediment collected during construction by the various temporary erosion control systems shall be disposed on the site on a regular basis.

INSPECTIONS.

The Permittee (or a representative of the permittee) shall conduct regularly scheduled inspections at least once every seven calendar days. these inspections shall be conducted by a qualified personnel, one who is responsible for environmental matters at the site, or a person directly supervised by the person responsible for environmental matters. For disturbed areas that have not been finally stabilized, all installed BMP's and other polution control measures shall be inspected for proper installation, operation and maintenance. All stormwater outfalls shall be inspected 50 feet downstream of the outfall. Any structural or maintenance problems shall be noted in an inspection report and corrected within seven calendar days of the inspection. All BMP's must be inspected in accordance with one of the two schedules listed below, and any changes to the frequency of inspections, including switching between the options listed below, must be documented in the SWPPP:

a. At least once every seven calendar days and within 24 hours after any storm event equal to or greater than the 2-year, 24-hour storm has ceased during a normal work day and within 72 hours if the rain event ceases during a non-work day such as a weekend or holiday.
b. Once every 14 calendar days and within 48 hours of the occurrence of a storm event of 0.25 inches of precipitation or greater, or the occurrence of runoff from snow melt. To determine if a storm event of 0.25 inches or greater has occurred on your site, you must either keep a properly maintained rain gauge on site, or obtain the storm event information from a weather station for your location

ON SITE INSPECTOR NAME:________
COMPANY NAME:________
STREET ADDRESS:________
City ________ State ________ Zip ________
TELEPHONE NUMBER:________
FAX NUMBER:________
DATE: ________

a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.

b. Based on the results of the inspection, the description of potential pollutant sources identified herein and pollution prevention measures identified herein shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.

c. A report summarizing the scope of the inspection, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken shall be made and retained as part of the plan for at least three (3) years after the date of the Letter of Termination. The report shall be signed in accordance with Requirements and Guidelines of the general permit.

d. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such conditions:
   (i) a description of discharge and cause of noncompliance, and
   (ii) the period of noncompliance, including exact dates and times or, if not corrected, the anticipated the noncompliance is expected to continue m and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.
e. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or environment. Any information shall be provided orally with in 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

The report of noncompliance shall be mailed to the following address:

Missouri Department of Natural Resources
St. Louis Regional Office
7545 S. Lindbergh, Suite 210
St. Louis, Missouri 63125
(314) 416-2960
(314) 416-2960 fax

Special Provision
For
National Pollutant Discharge Elimination System

This project will result in a disturbance of one (1) or more acres of total land area and will require compliance with the National Pollutant Discharge Elimination System (NPDES) Storm Water Permit.

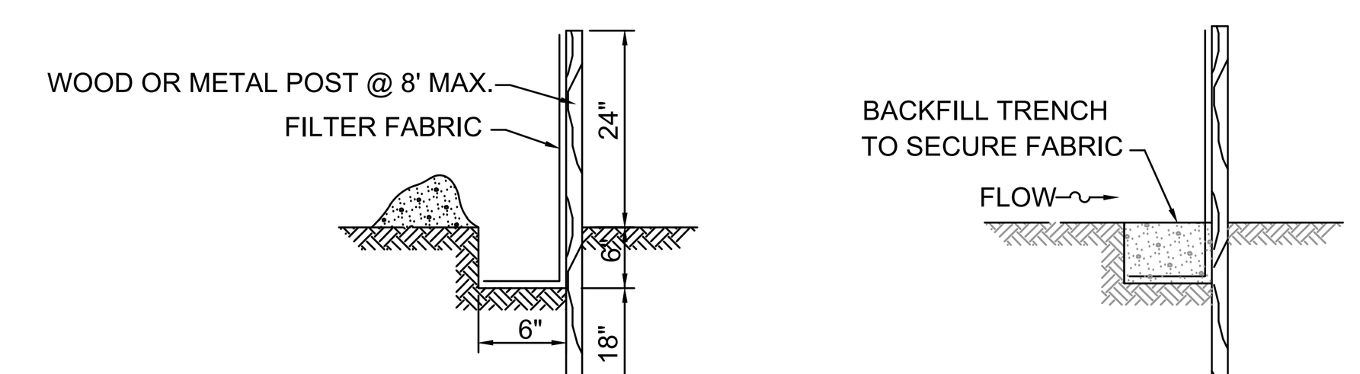
The Owner is the PERMITTEE and the Contractors and Subcontractors will be required to certify that they understand and will comply with all requirements of the permit.

A storm water pollution plan shall be cooperatively developed by the PERMITTEE and contractor for this project using good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges. In addition, the plan shall describe and ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with this project and assure compliance with the terms and conditions of the Storm Water Permit.

The EPERMITTING process on the Missouri Department of Natural Resource (MoDNR) website shall be completed in order to receive the Land Disturbance Permit. At the completion of the project stabilization the following form shall be completed and submitted to the MoDNR:

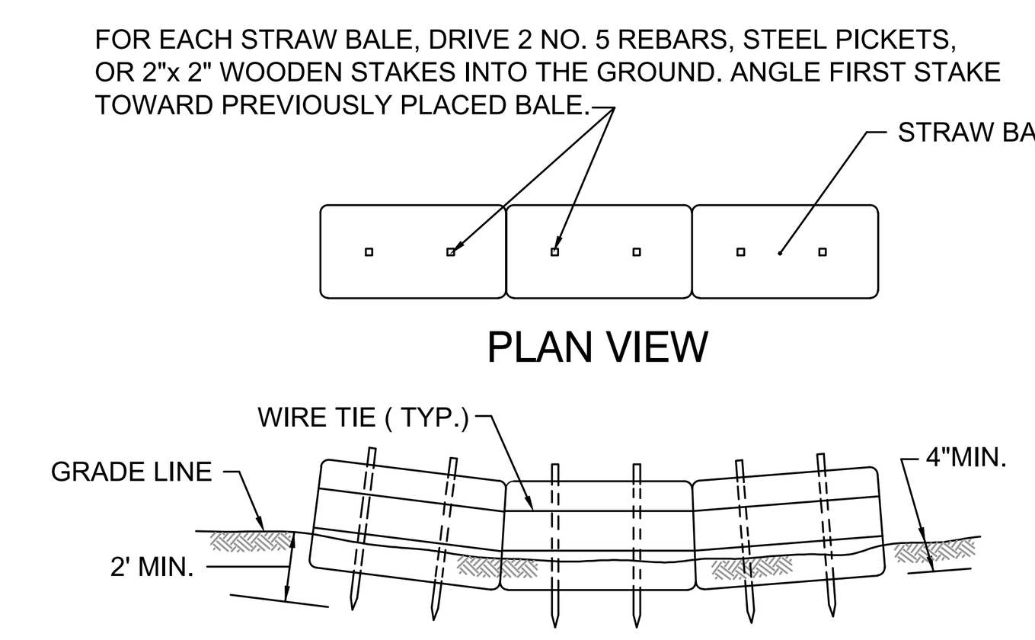
FORM H - REQUEST FOR TERMINATION OF A GENERAL PERMIT

The Contractor shall prepare a stormwater management plan which is certified by both the Owner and Contractor. The Contractor shall be responsible for obtaining the NPDES permit including but not limited to the epermitting application for Land Disturbance Permit, Posting a copy of the public notification sign on the site and Request for Termination as well as maintaining the Stormwater Management Plan and maintenance records on-site.



FILTER FENCE AND POST INSTALLATION

SECTION

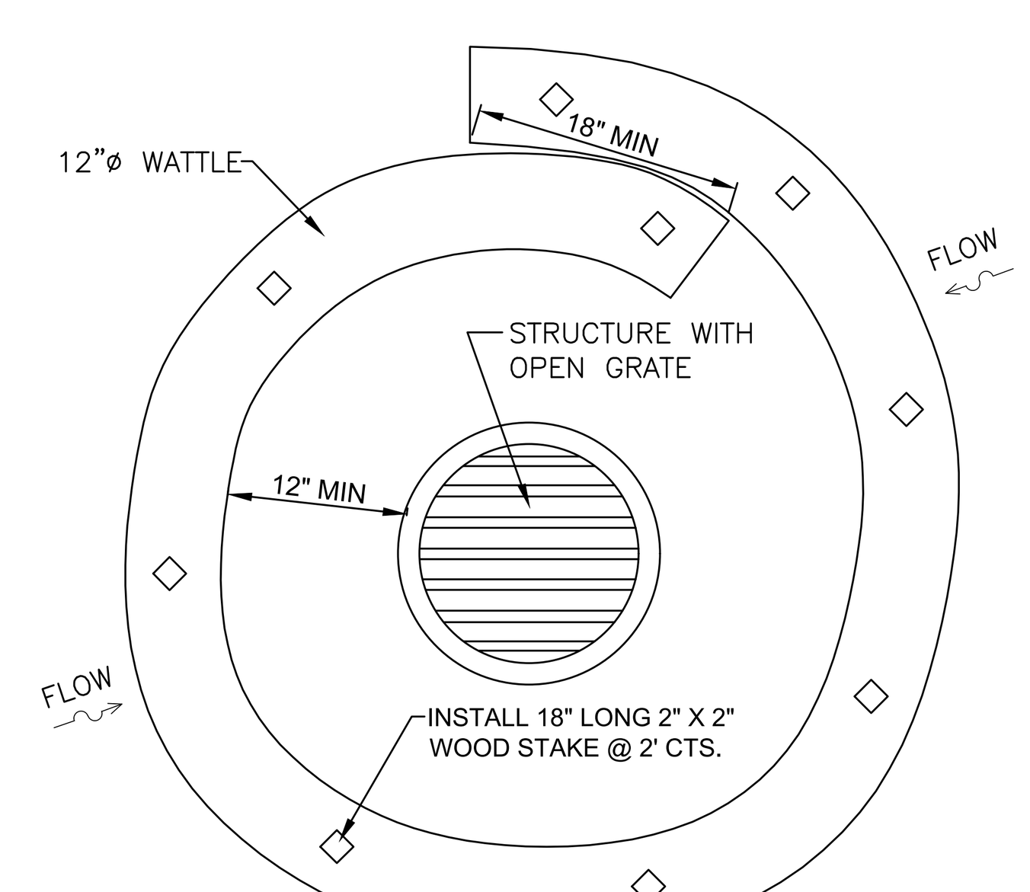


SECTION VIEW

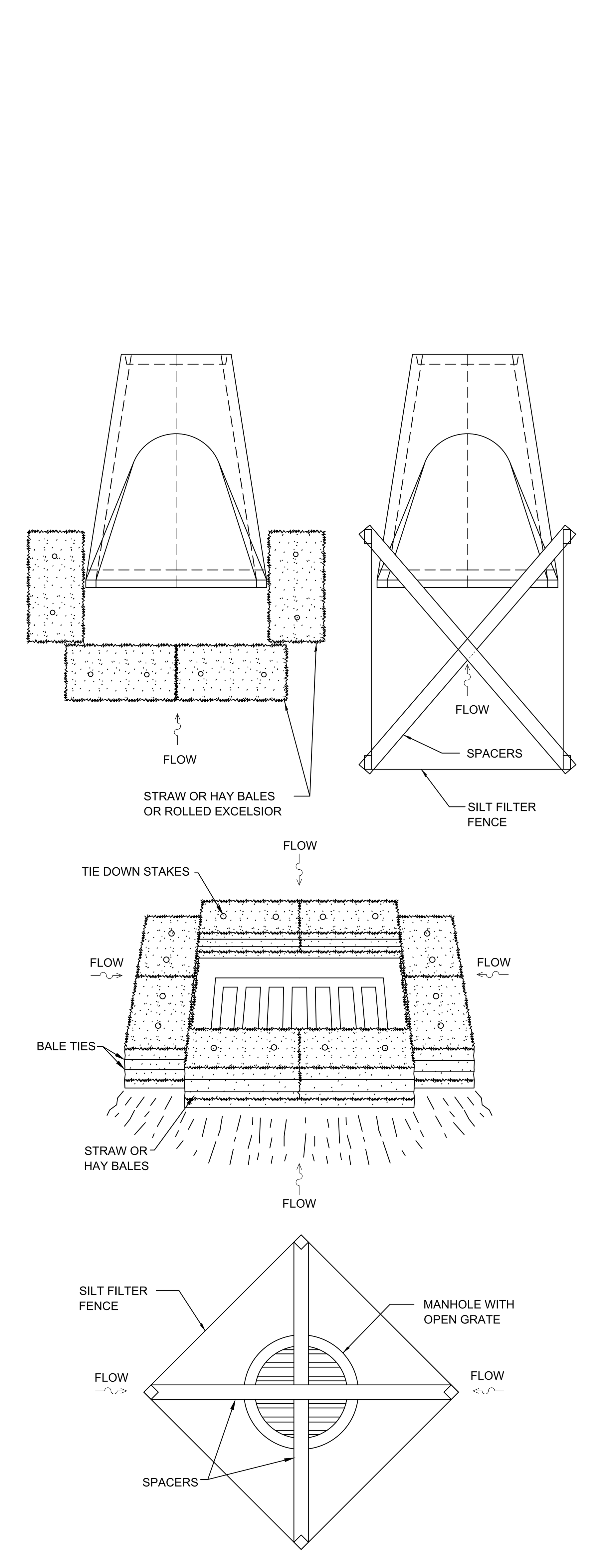
STRAW BALE INSTALLATION

1. STRAW BALES TO BE STACKED IN A SINGLE ROW & EMBEDDED IN THE SOIL TO A DEPTH OF 4 INCHES MINIMUM
2. ALL BALES ARE TO BE SECURELY BOUND WITH WIRE OR STRING.
3. LENGTH OF SEDIMENT BARRIER AS INDICATED ON THE PLANS
4. SCATTER LOOSE STRAW OVER THE AREA IMMEDIATELY UPSLOPE FROM SEDIMENT BARRIERS. FILL GAPS BETWEEN BALES WITH LOOSE STRAW.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEDIMENT BARRIERS IN A CONDITION THAT IS SATISFACTORY TO THE CONTRACTING OFFICER UNTIL FINAL ACCEPTANCE OF WORK.

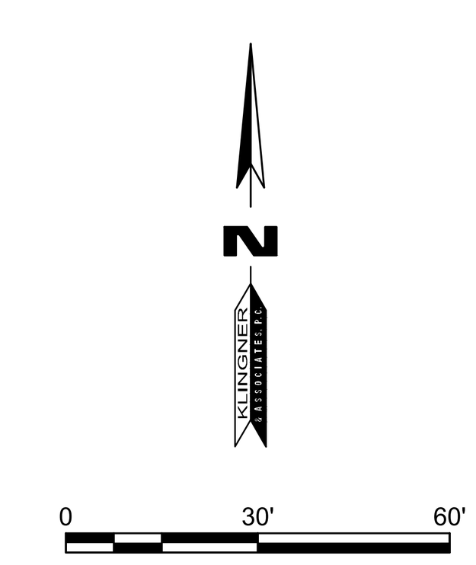
2 TEMPORARY EROSION CONTROL BARRIER DETAILS
N.T.S.



4 INLET PROTECTION DETAILS
N.T.S.



3 INLET AND PIPE PROTECTION DETAILS
N.T.S.



BENCHMARKS:

1. CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16

2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)

3. CHISELED "+" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16

4. CHISELED "+" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

KLINGNER & ASSOCIATES, P.C.
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Hannibal, MO Burlington, IA
Galesburg, IL Pella, IA Davenport, IA,
Columbia, MO Carbondale, IL

REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR
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DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY
NOT FOR
CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

Non-Reduced Sheet Size: 30" x 42"

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED DCD	DRAWN DCD/GSG
FIELD RAW/MWJ	FIELD BOOK H14/53
CHECKED .	CHECK DATE .

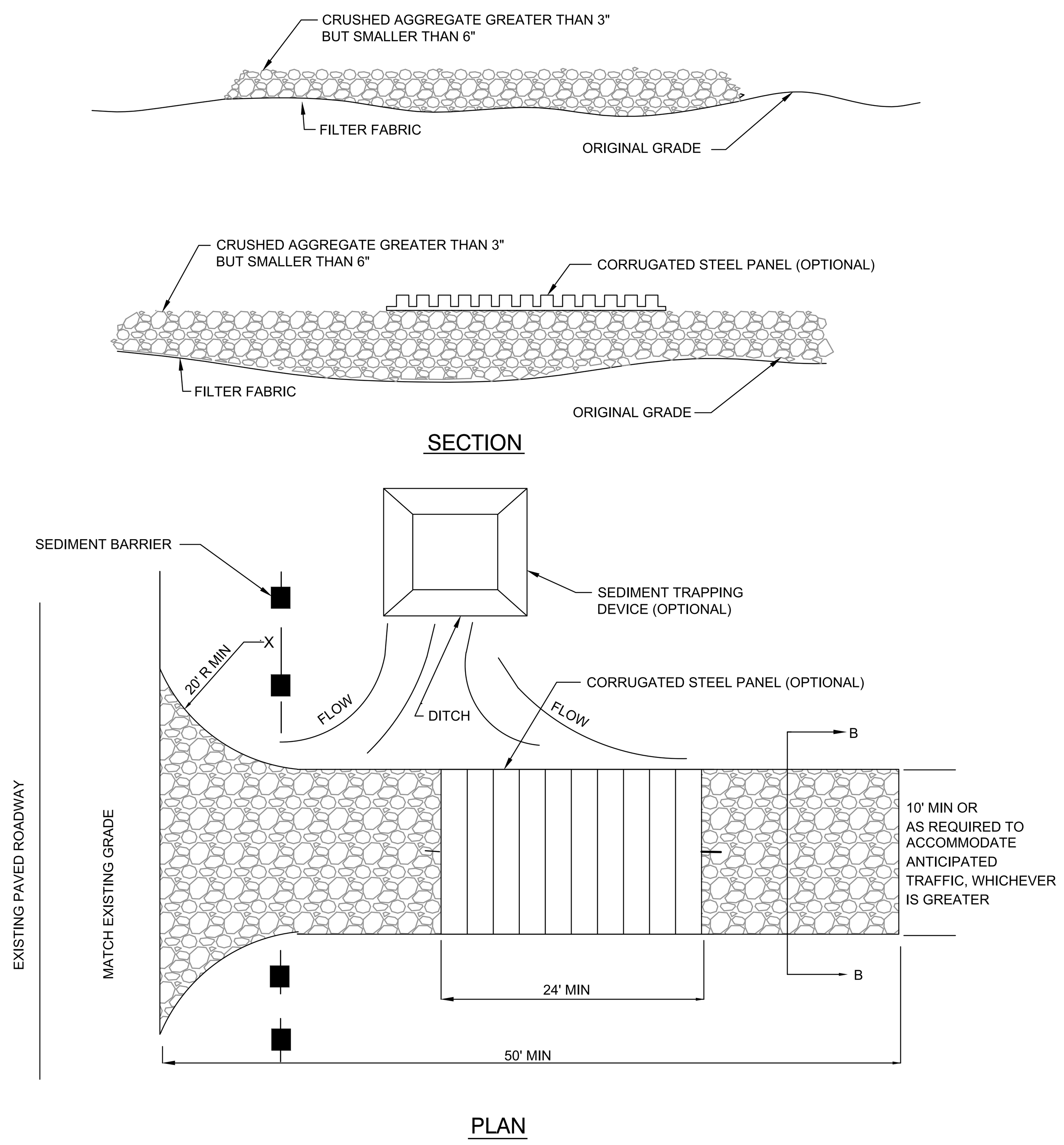
SHEET TITLE

STORM WATER POLLUTION PREVENTION PLAN

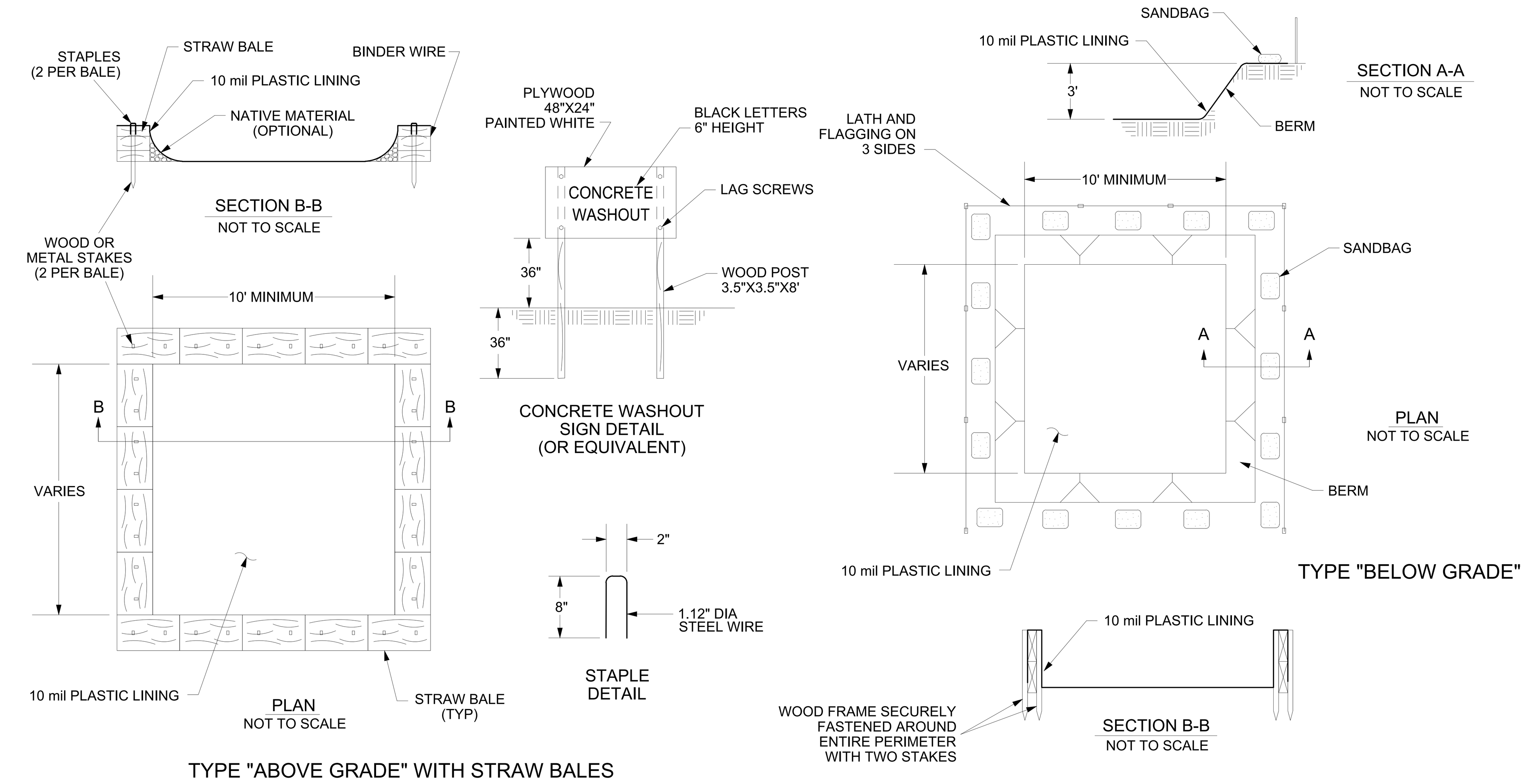
PROJECT NO.
21-5052

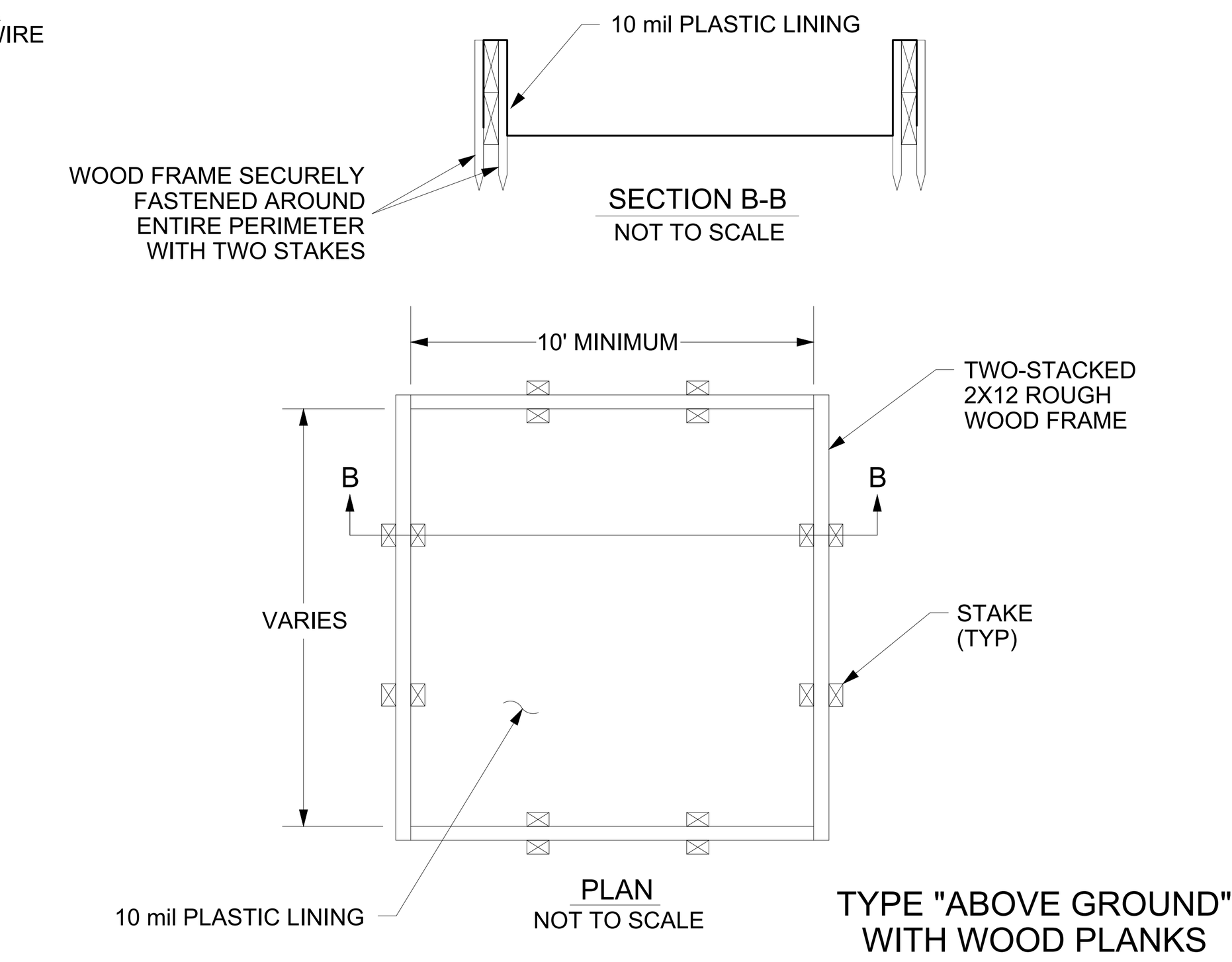
DRAWING ISSUED DATE:
10/10/2022

SHEET
C402



1 CONSTRUCTION ENTRANCE/EXIT
N.T.S.

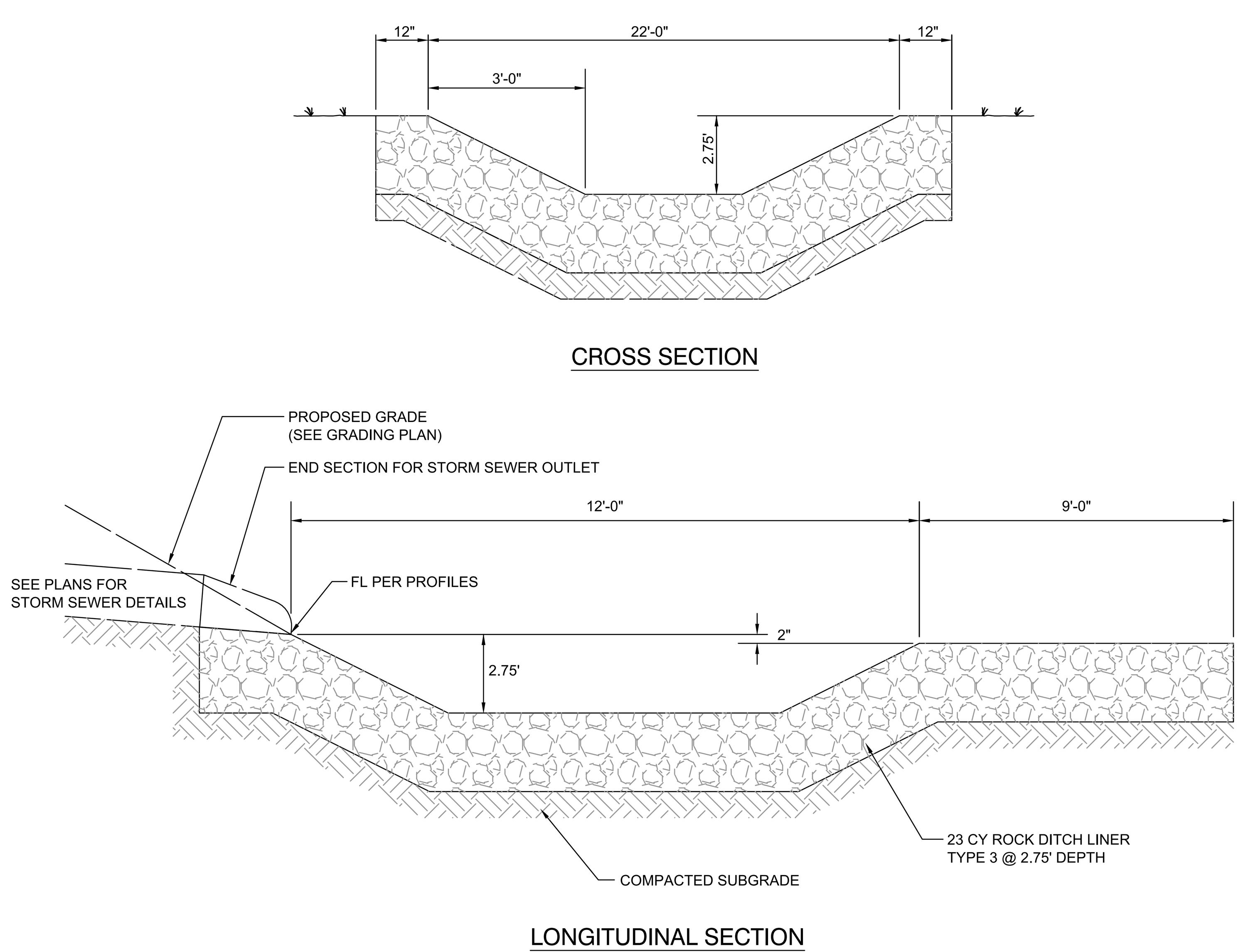




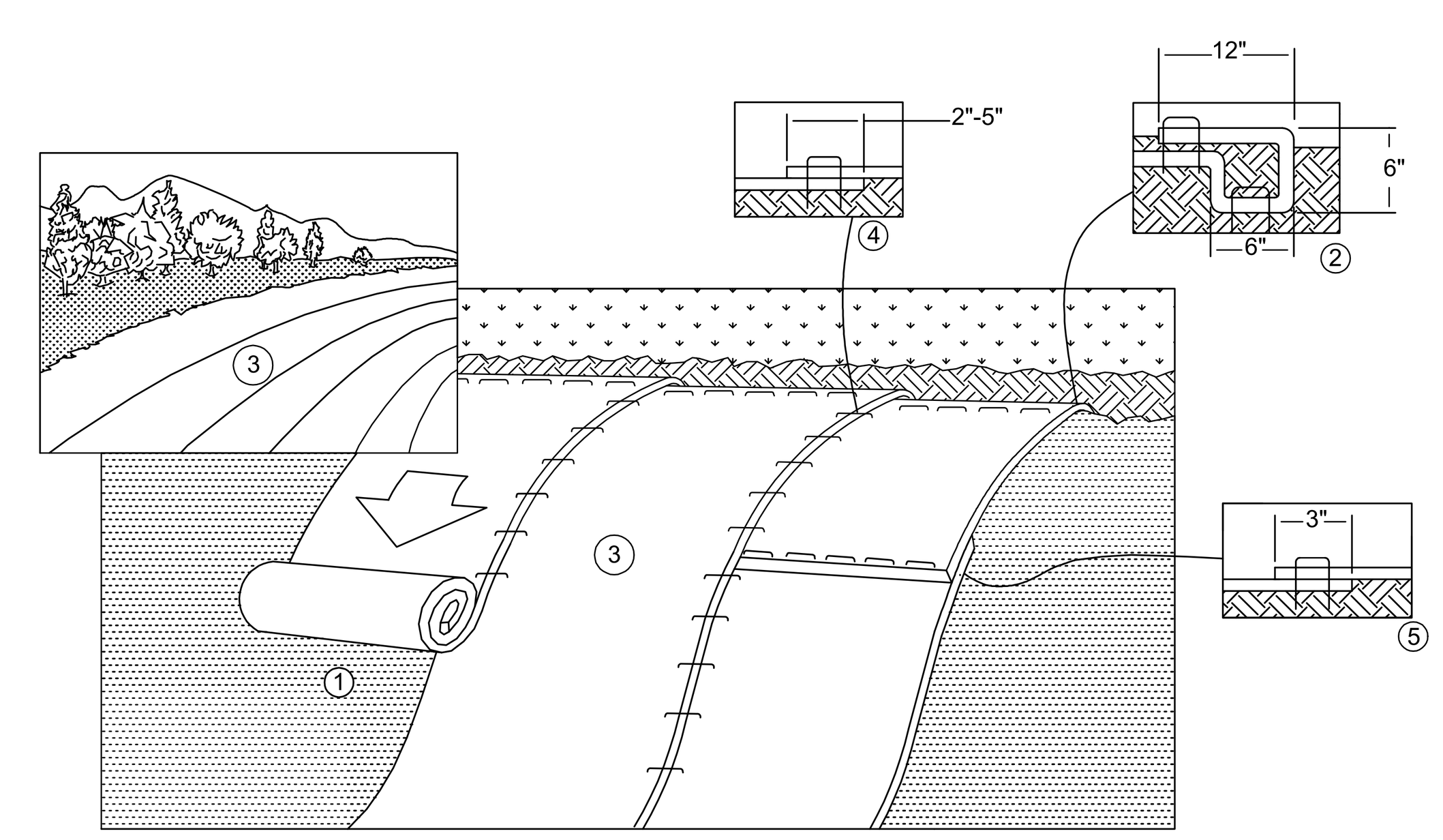
NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

2 CONCRETE WASH OUT DETAIL
N.T.S.



3 STORM SEWER OUTLET ENERGY DISSIPATING BASIN
N.T.S.



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. SEEDING WILL BE COMPLETED BY THE OWNER, CONTRACTOR TO COORDINATE WITH OWNER TO ALLOW PROPER TIMING AND COORDINATION FOR THE SEEDING AND EROSION BLANKET INSTALLATION.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENACH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROXIMATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROXIMATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 54" OVERLAP DEPENDING ON RECP,s TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP's WIDTH.
NOTE:
IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.
6. EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES 4:1 AND STEEPER.

4 EROSION CONTROL BLANKET INSTALLATION DETAILS
N.T.S.

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REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR
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DESIGN DEVELOPMENT
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HALLSVILLE TRACK & FIELD IMPROVEMENTS

HALLSVILLE SCHOOL DISTRICT
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DESIGNED DCD	DRAWN DCD/GSG
FIELD RAW/MWJ	FIELD BOOK H14/53
CHECKED .	CHECK DATE .

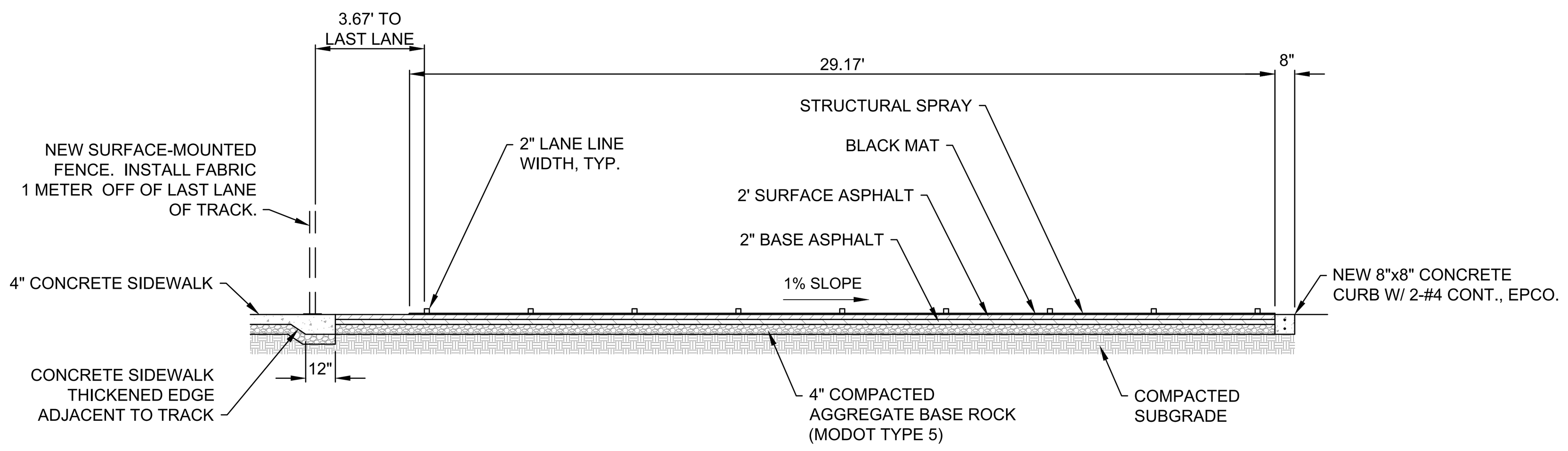
SHEET TITLE

SWPPP DETAILS

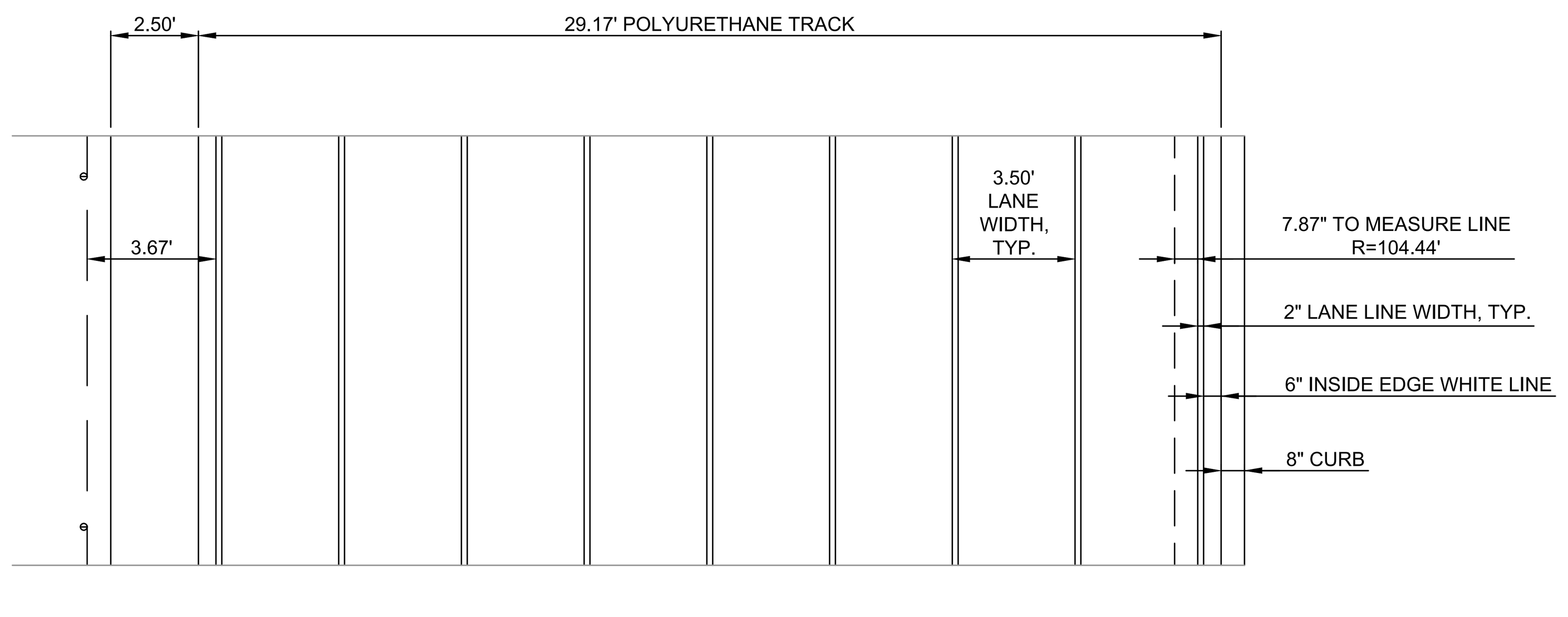
PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

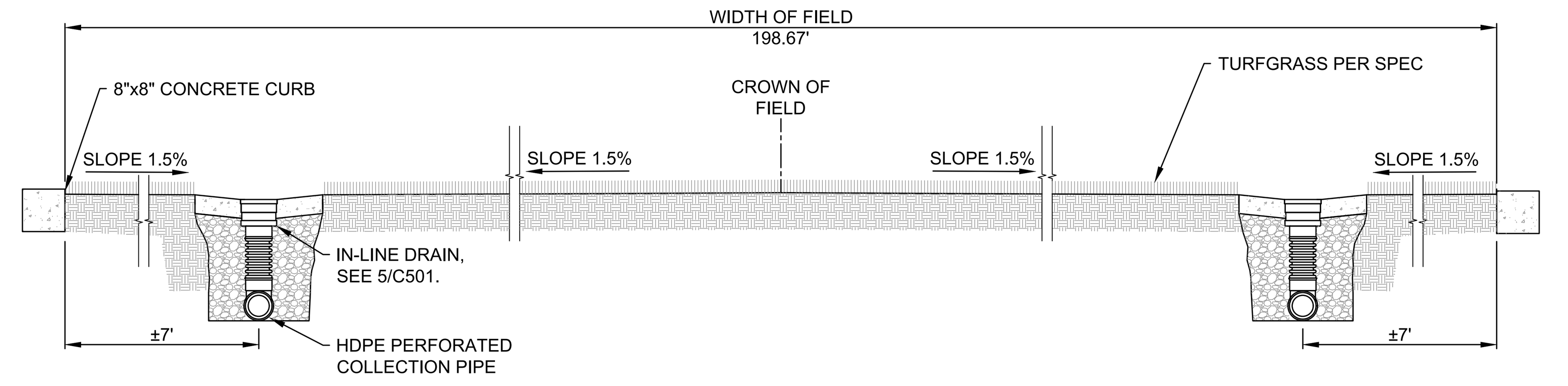
SHEET
C403



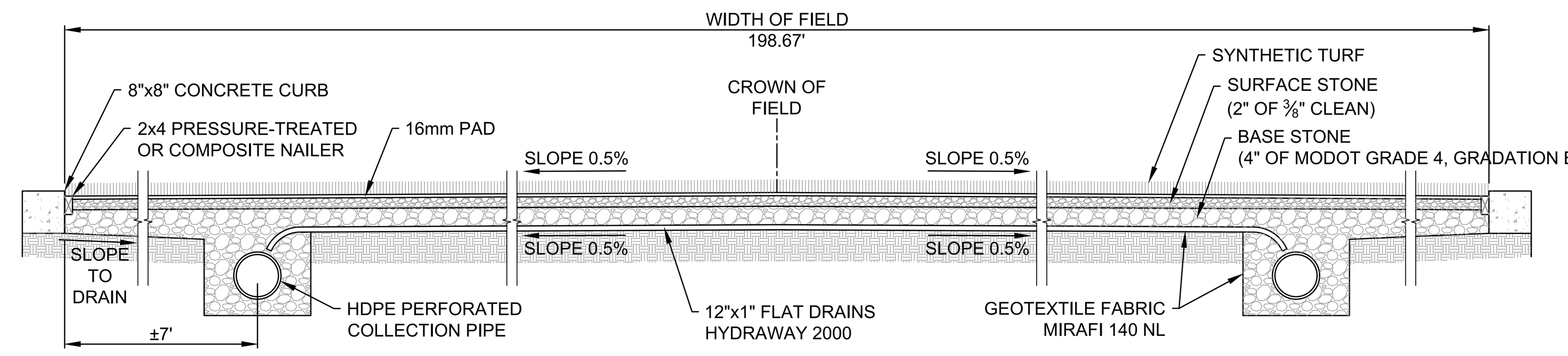
1 SECTION THROUGH TRACK
NO SCALE



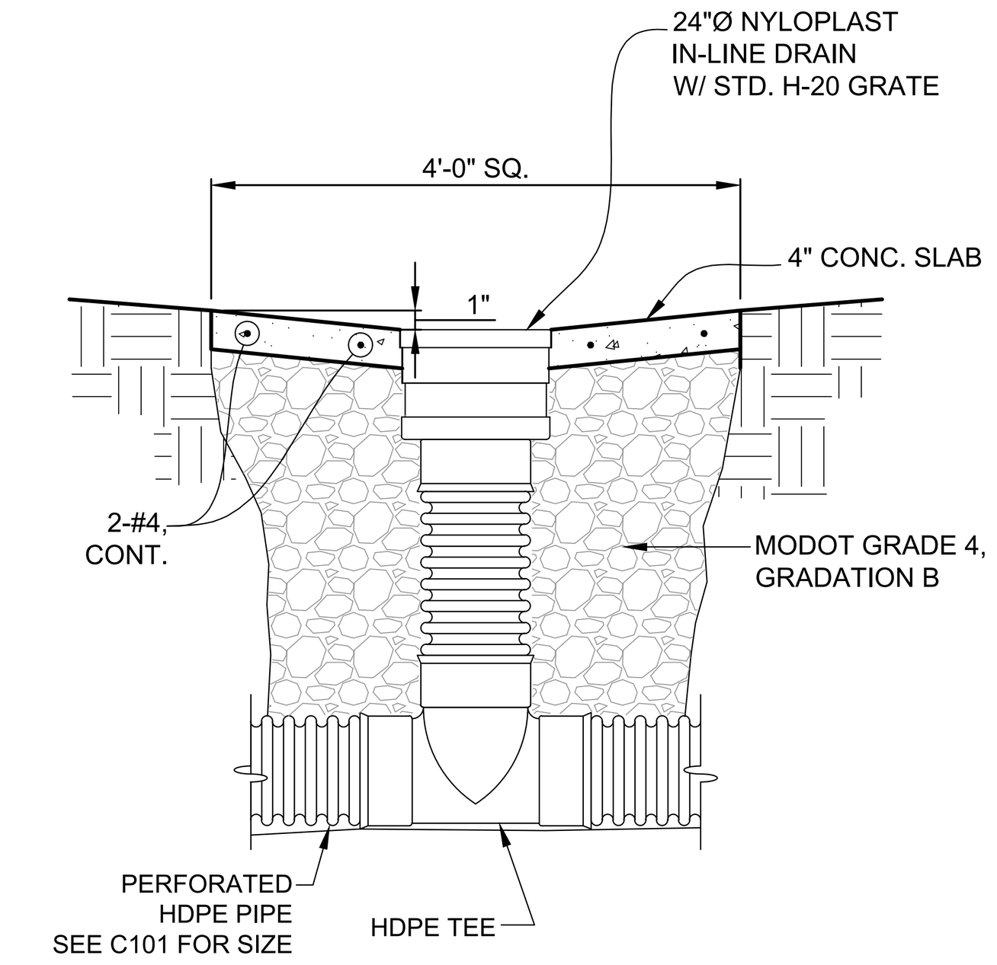
2 TRACK STRIPING LAYOUT DETAIL
NO SCALE



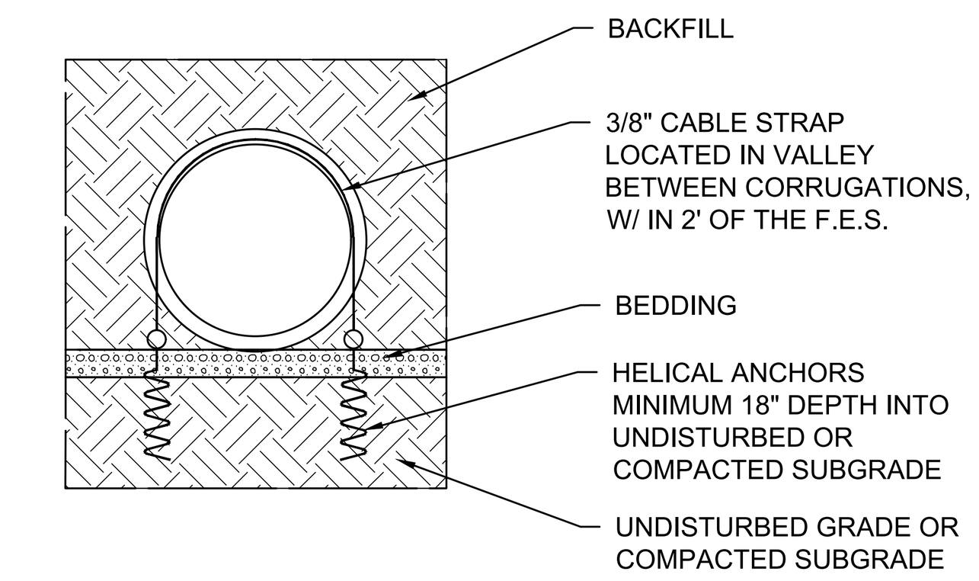
3 SECTION THROUGH FOOTBALL FIELD (BASE BID)
NO SCALE



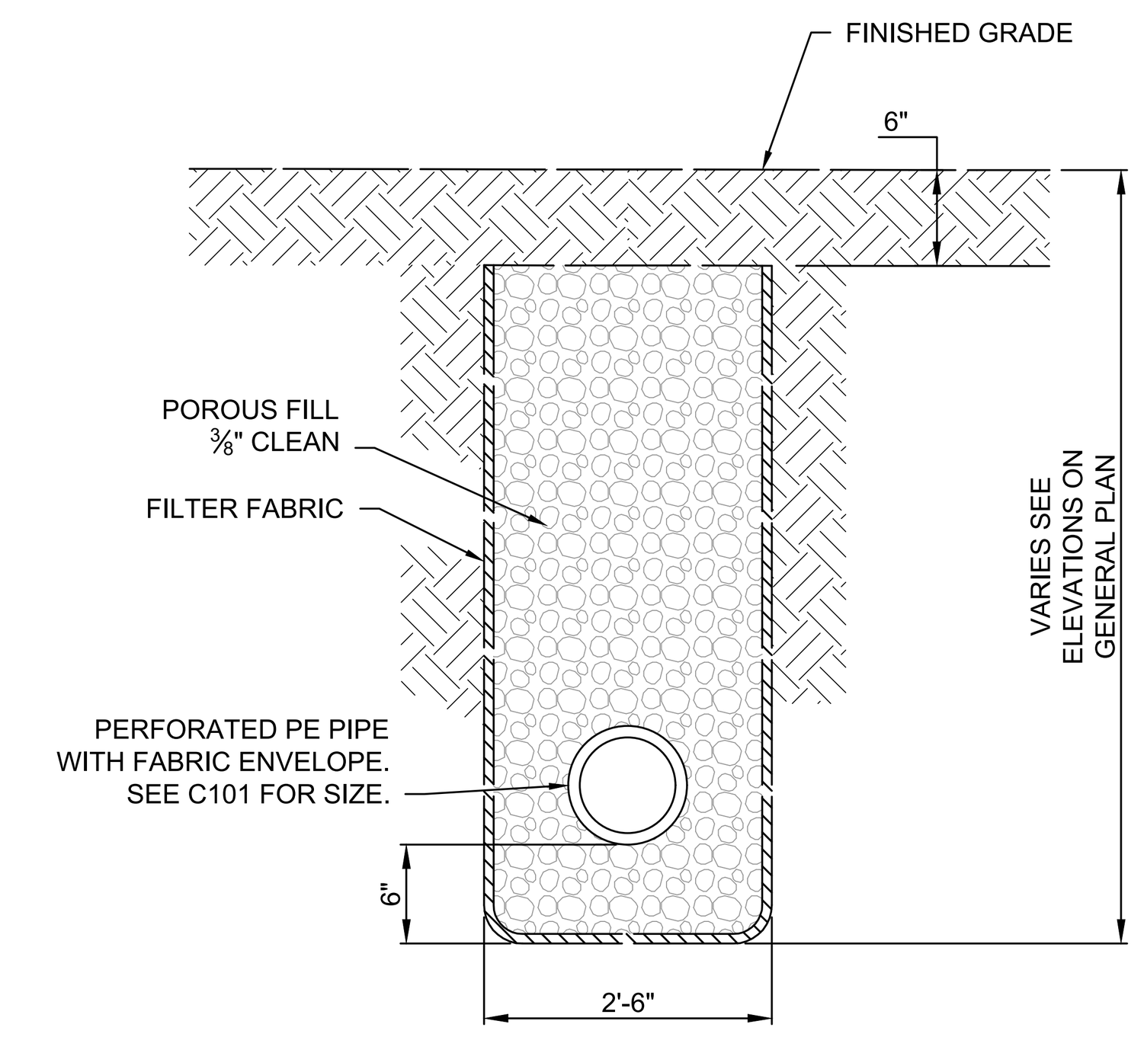
4 SECTION THROUGH FOOTBALL FIELD (ALTERNATE BID)
NO SCALE



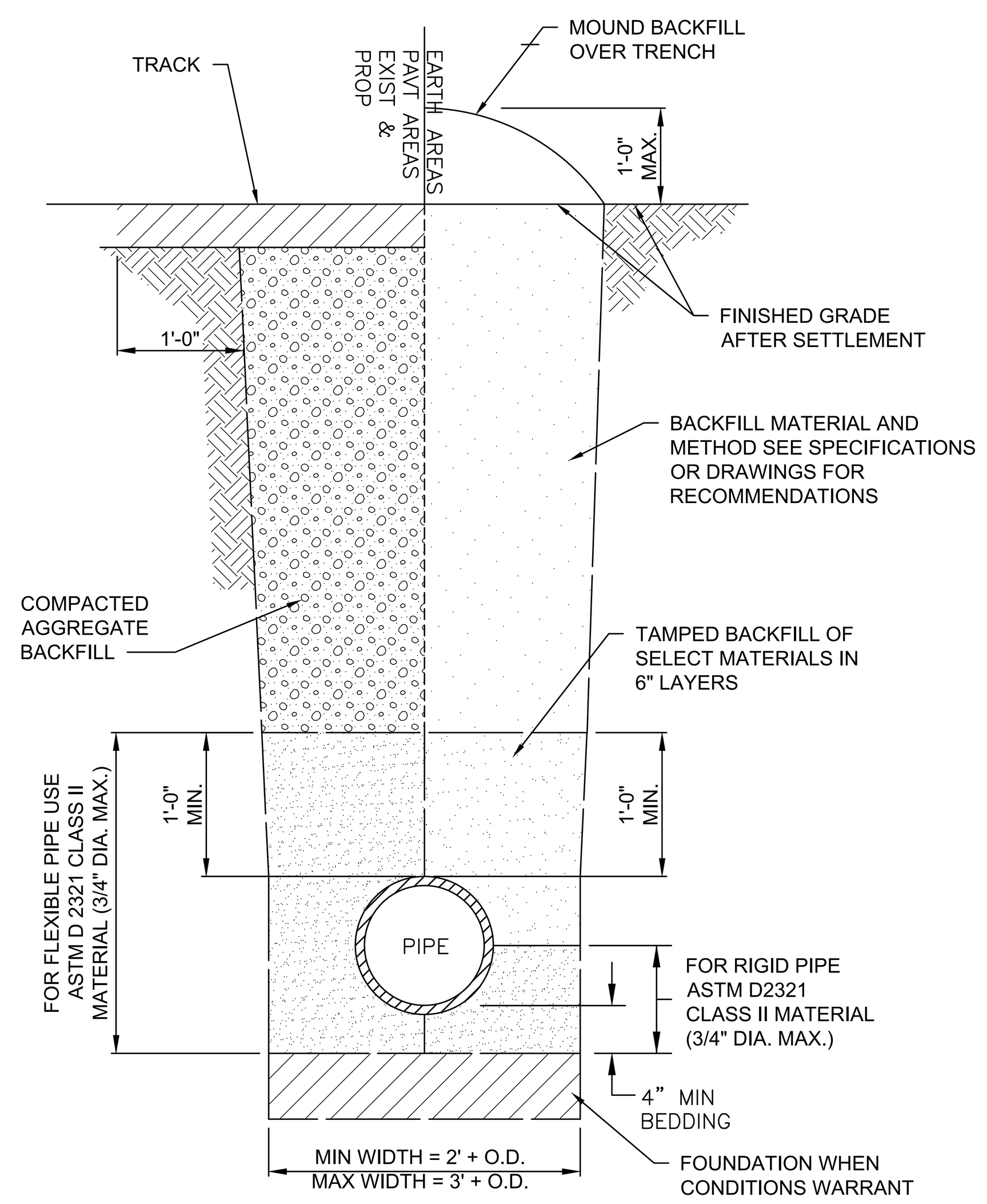
5 IN-LINE DRAIN
NO SCALE



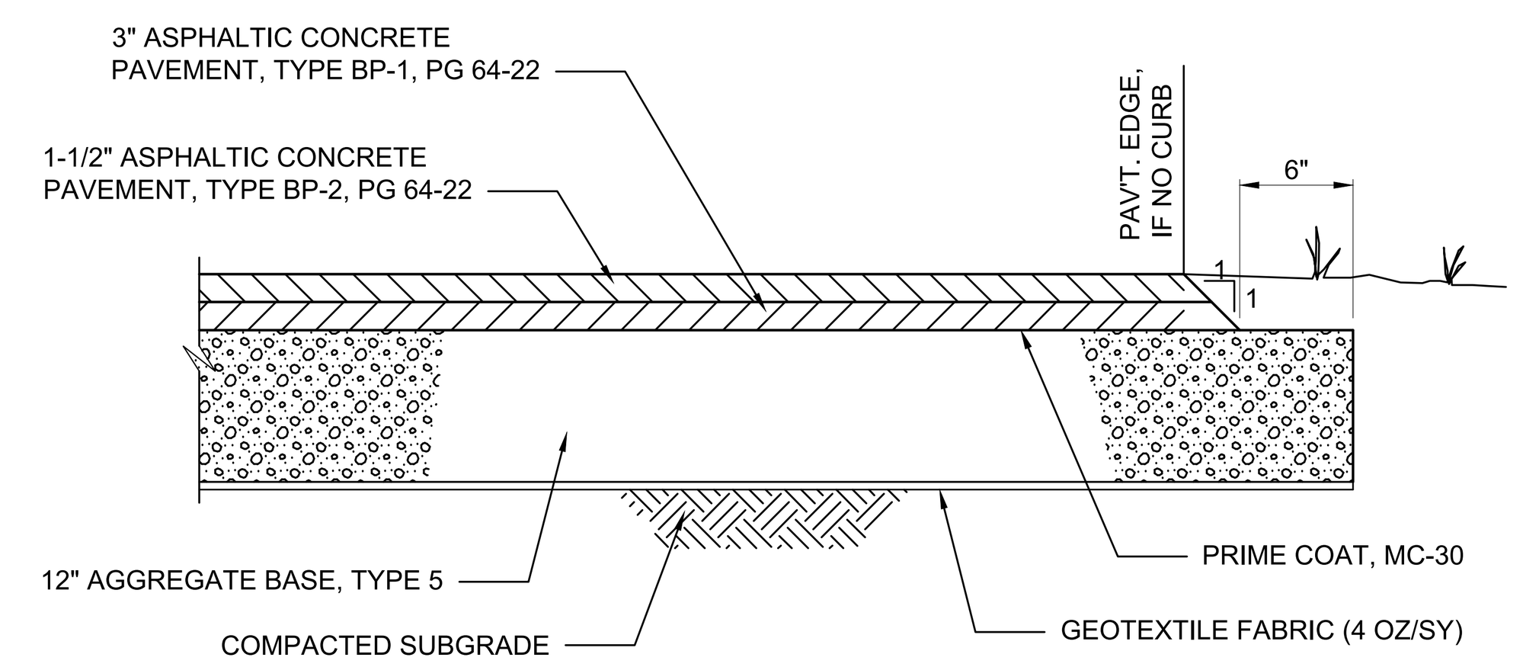
6 HDPE PIPE ANCHOR DETAIL
NO SCALE



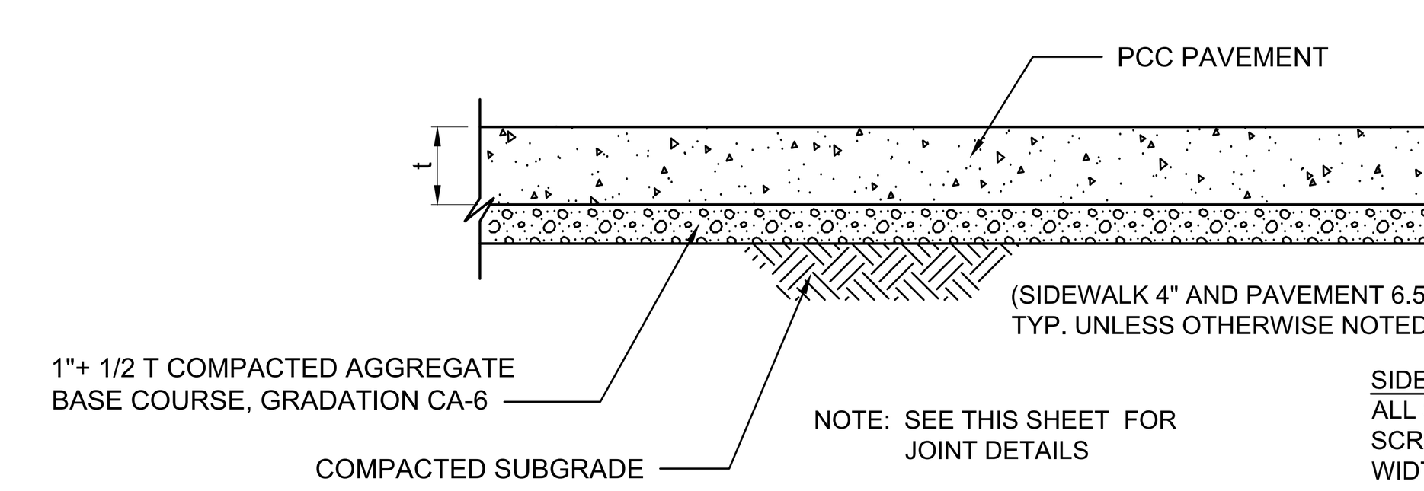
7 TYPICAL HDPE DRAIN LINE
NO SCALE



8 SEWER TRENCH DETAIL
NO SCALE



9 ASPHALT PAVING DETAIL
NO SCALE



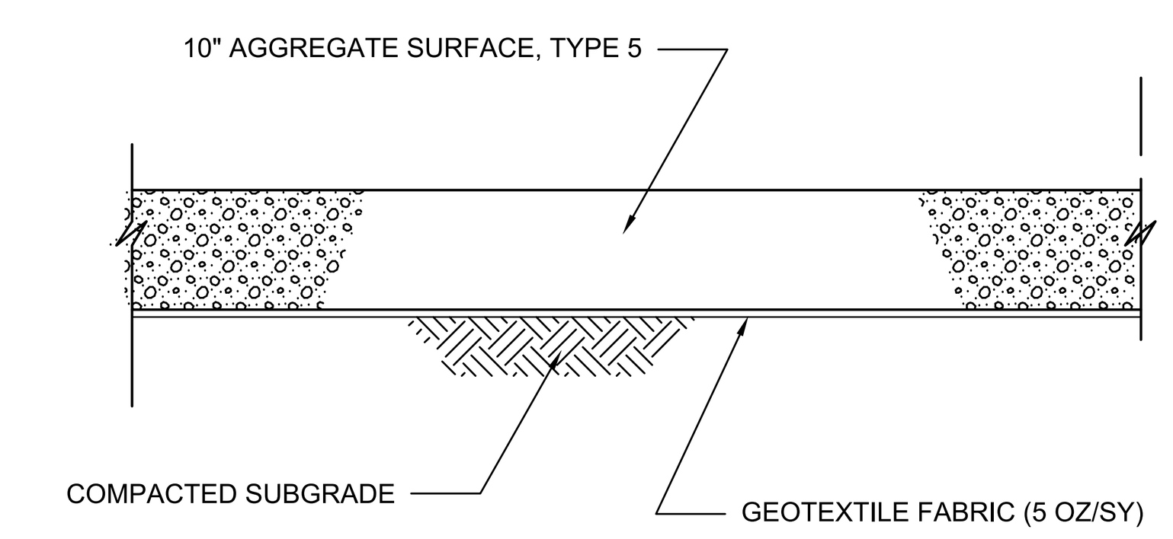
SIDEWALK NOTES:
ALL SIDEWALK JOINTS SHALL BE SCRIBED OR EDGED, MAX. SPACING = WIDTH OF SIDEWALK

1/2" EXP. JTS. W/ POLYURETHANE SEALER AT MAX. 50' INTERVALS

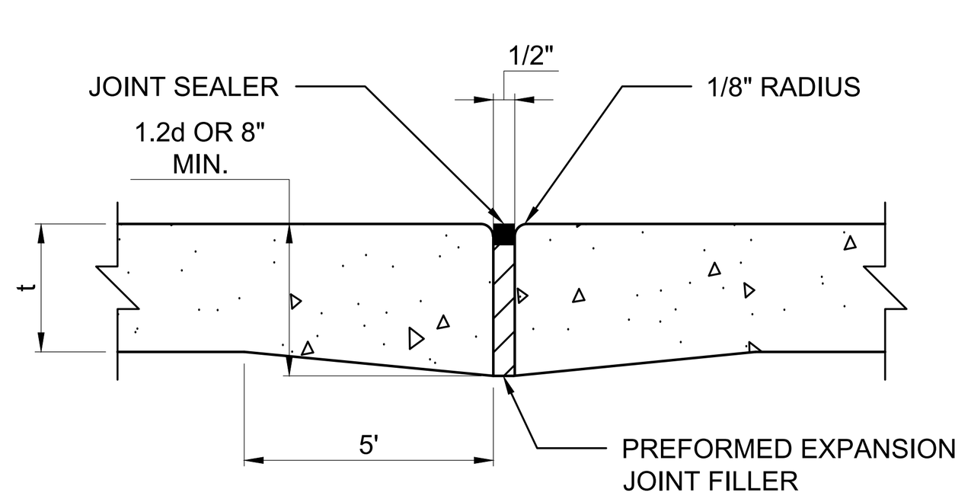
MAXIMUM 2.0% CROSS SLOPE

MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%

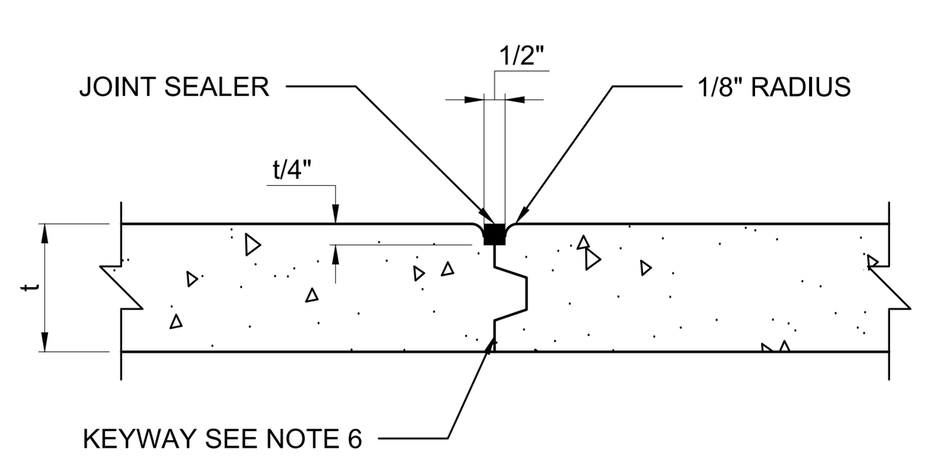
10 PCC PAVING DETAIL
NO SCALE



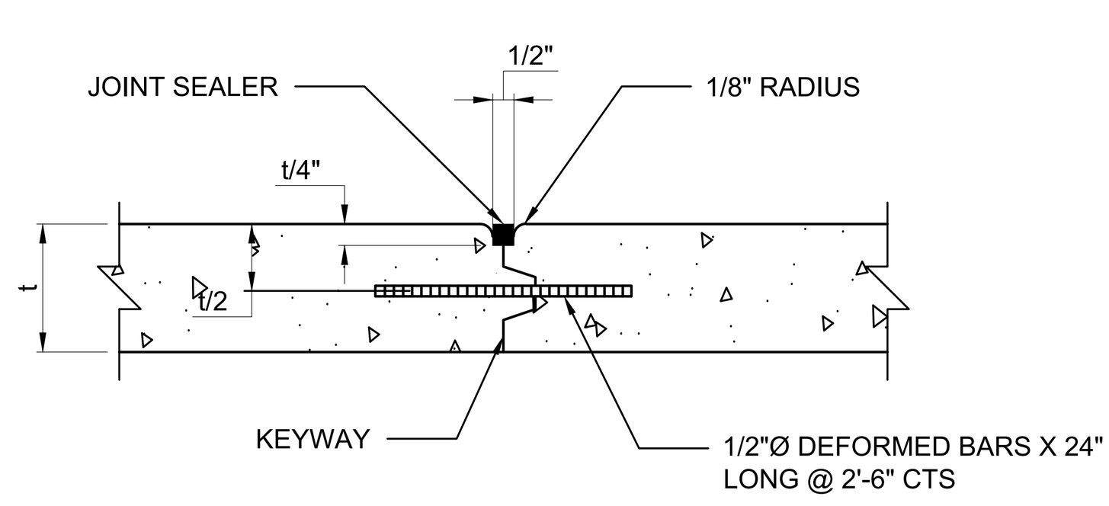
11 AGGREGATE PAVING DETAIL
NO SCALE



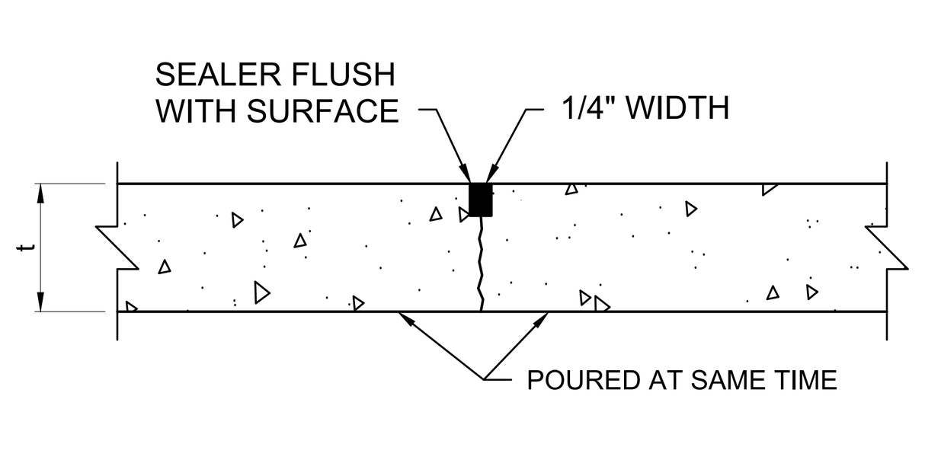
TYPE A
EXPANSION JOINT



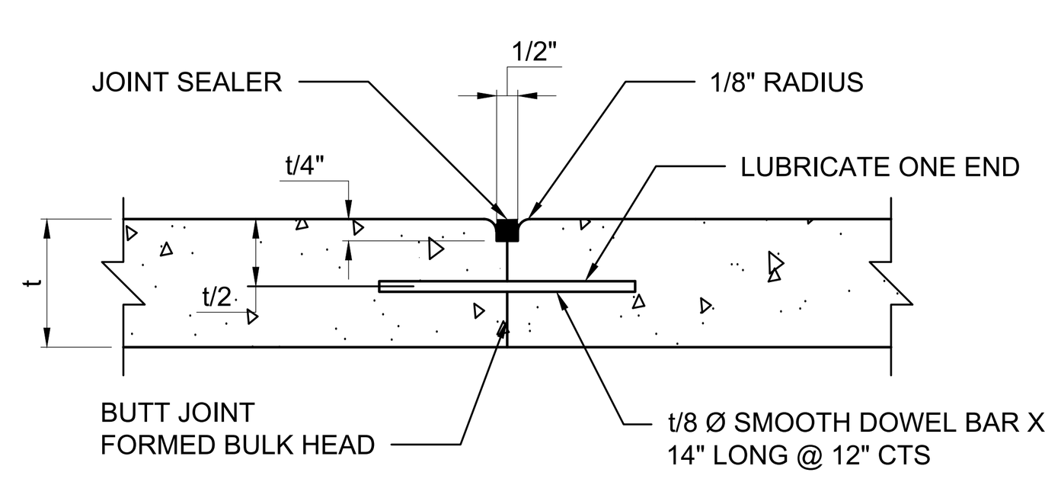
TYPE B
LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT



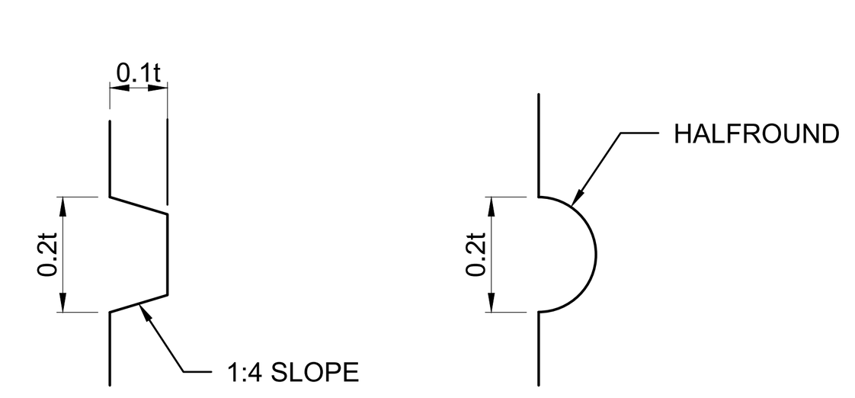
TYPE C
TIED LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT



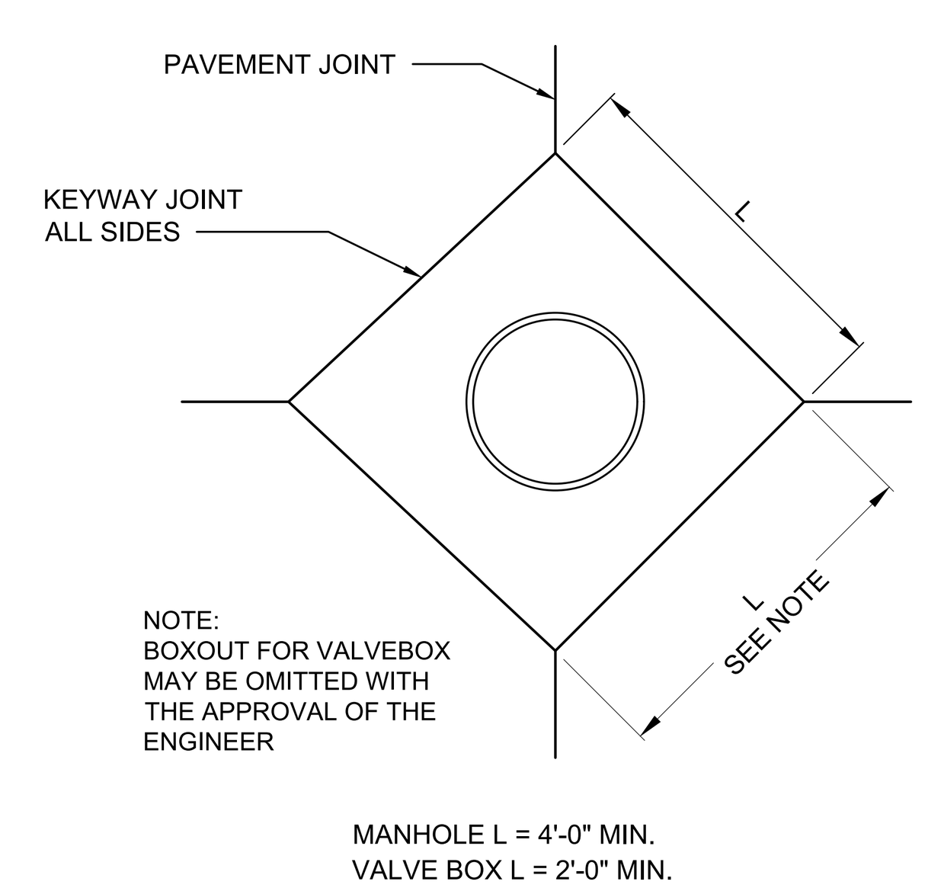
TYPE D
SAWED LONGITUDINAL OR TRANSVERSE



TYPE E
ALTERNATE TRANSVERSE CONSTRUCTION JOINT AT NORMAL SPACING



KEYWAYS FOR TYPE B AND C
CONSTRUCTION JOINTS



TYPICAL UTILITY BOXOUT
JOINTS ALL CORNERS

12 PCC PAVING JOINT DETAILS
NO SCALE

NOTES

1. AT INLETS, MANHOLES, OR OTHER STRUCTURES TRANSVERSE JOINTS SHALL BE SHORTENED ONE OR MORE PANELS EITHER SIDE OF THE STRUCTURE TO PERMIT JOINTS TO FALL AT THE CORNERS OF THE BOXOUT. ONE OR BOTH "L" DIMENSIONS OF THE BOX OUT MAY BE ADJUSTED TO PROVIDE FOR INTERSECTION OF LONGITUDINAL JOINTS AT BOX OUT CORNERS.
2. ALL TRANSVERSE JOINTS MUST EXTEND THROUGH CURBS AND MUST BE CONTINUOUS ACROSS PAVEMENT, EXCEPT TIED TRANSVERSE CONSTRUCTION JOINTS. EXPANSION JOINTS WILL BE REQUIRED AS SHOWN ON PLANS.
3. MAXIMUM TRANSVERSE JOINT SPACING SHALL BE 15 FEET, UNLESS OTHERWISE SPECIFIED.
4. PAVEMENT JOINTS SHALL BE SEALED WITH HOT POUR MATERIAL MEETING THE REQUIREMENTS OF SECTION 1057.50 (A.S.T.M. DESIGNATION: D6690, TY II).
5. DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF A.A.S.H.T.O., M-31 OR M-53 GRADE 60 SHALL BE USED FOR THE TIE BARS.
6. TYPE B JOINTS WHICH ARE TO BE COATED SHALL RECEIVE TWO COATS OF ASPHALTIC EMULSION PRIOR TO PLACEMENT OF THE ADJACENT PAVEMENT.
7. TYPE 'D' JOINT MAY BE USED IN LIEU OF TYPE 'B' OR 'C' JOINTS WHEN WHEN SLABS ON BOTH SIDES OF JOINT ARE POURED INTEGRAL.
8. SUPPORT PINS FOR THE TIE BARS, WHEN REQUIRED, SHALL BE OF A SIZE AND STRENGTH SUFFICIENT TO FIRMLY HOLD THE BAR IN PLACE.
9. THE ALTERNATE CONSTRUCTION OF INTEGRAL OR SEPARATE COMBINATION CURB AND GUTTER IS AT THE CONTRACTORS OPTION.

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MARK	DESCRIPTION	DATE	APPR

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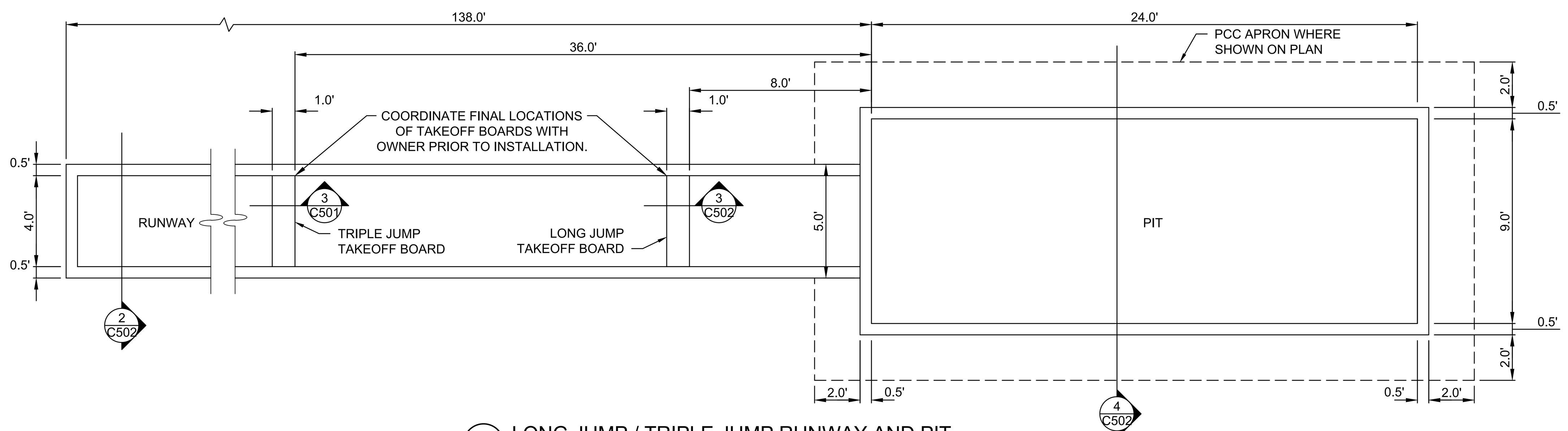
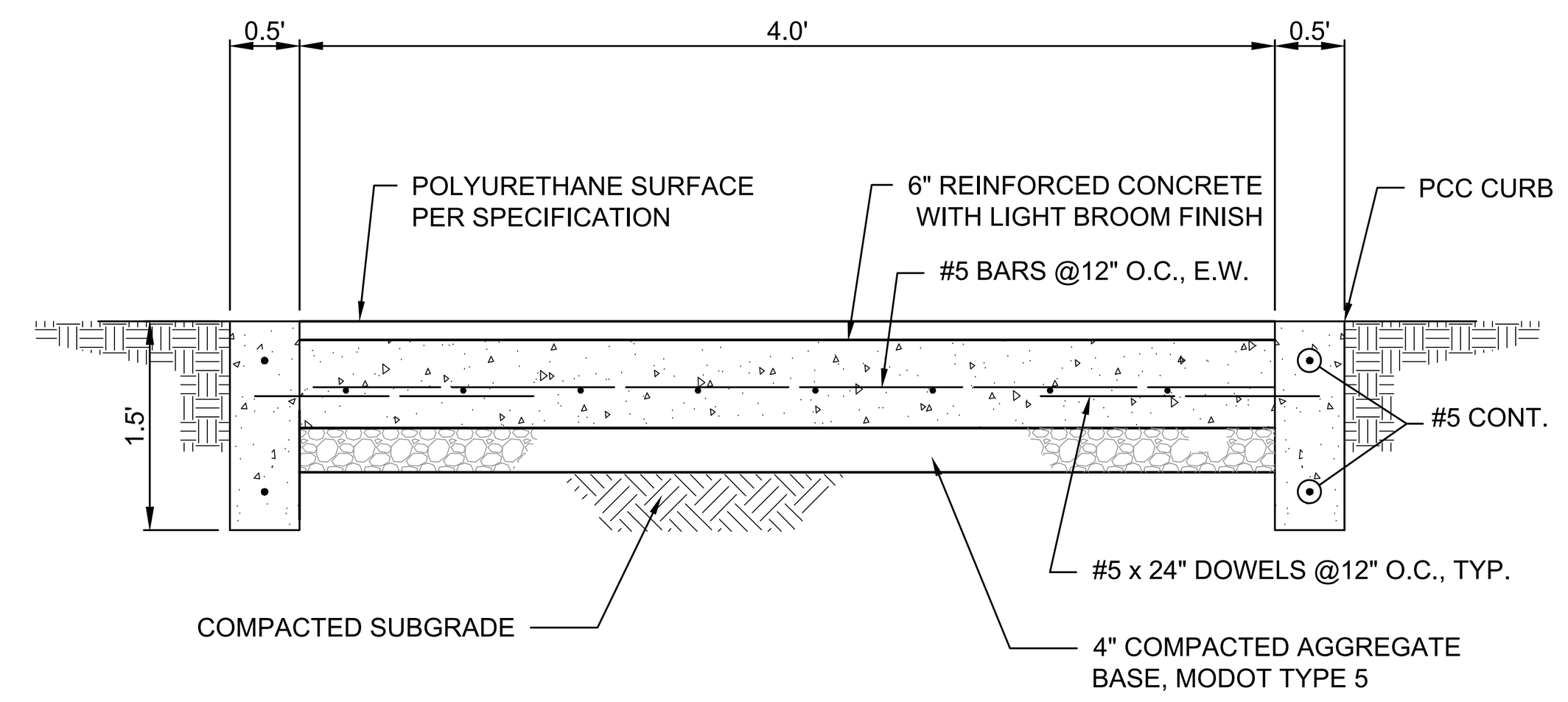
DCD	DCD/GSG
FIELD	FIELD BOOK
RAW/MWJ	H14/53
CHECKED	CHECK DATE

SHEET TITLE
SITE DETAILS

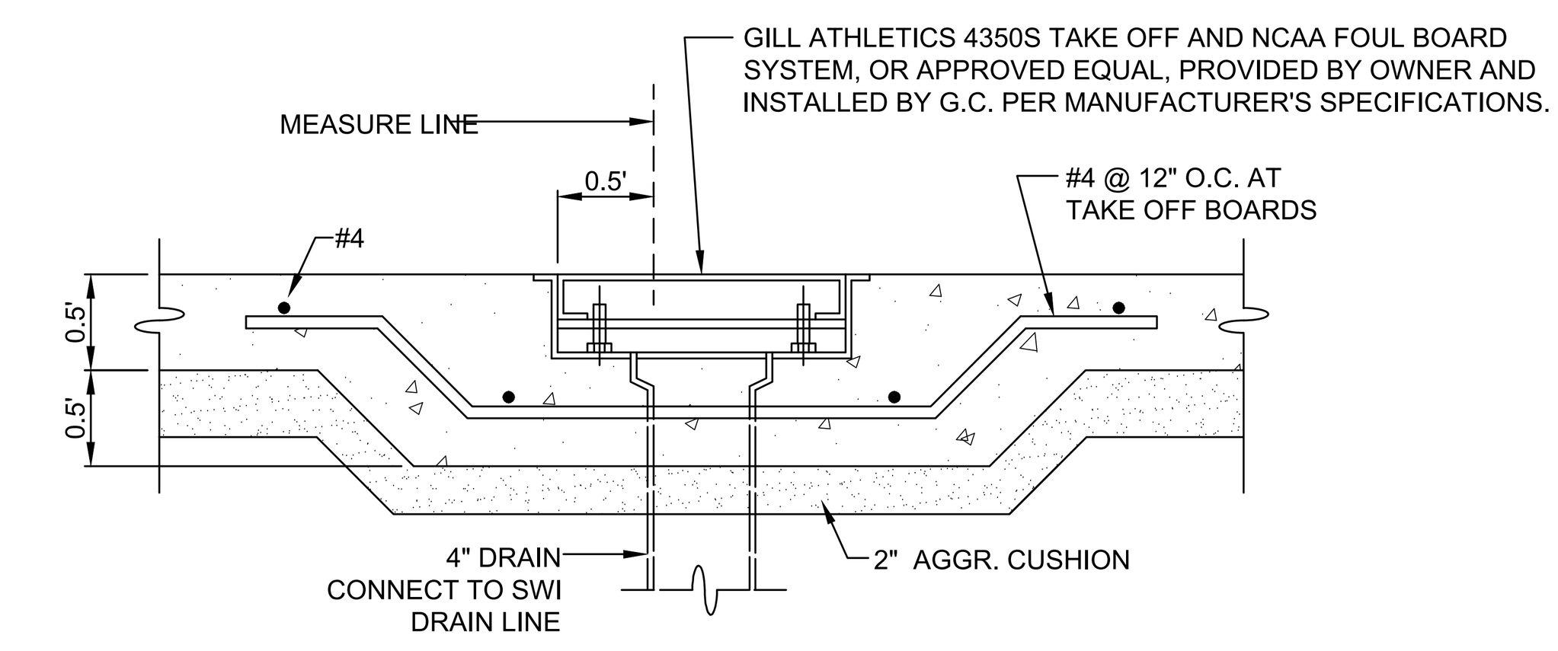
PROJECT NO.
21-5052
DRAWING ISSUED DATE:
10/10/2022
SHEET
C501



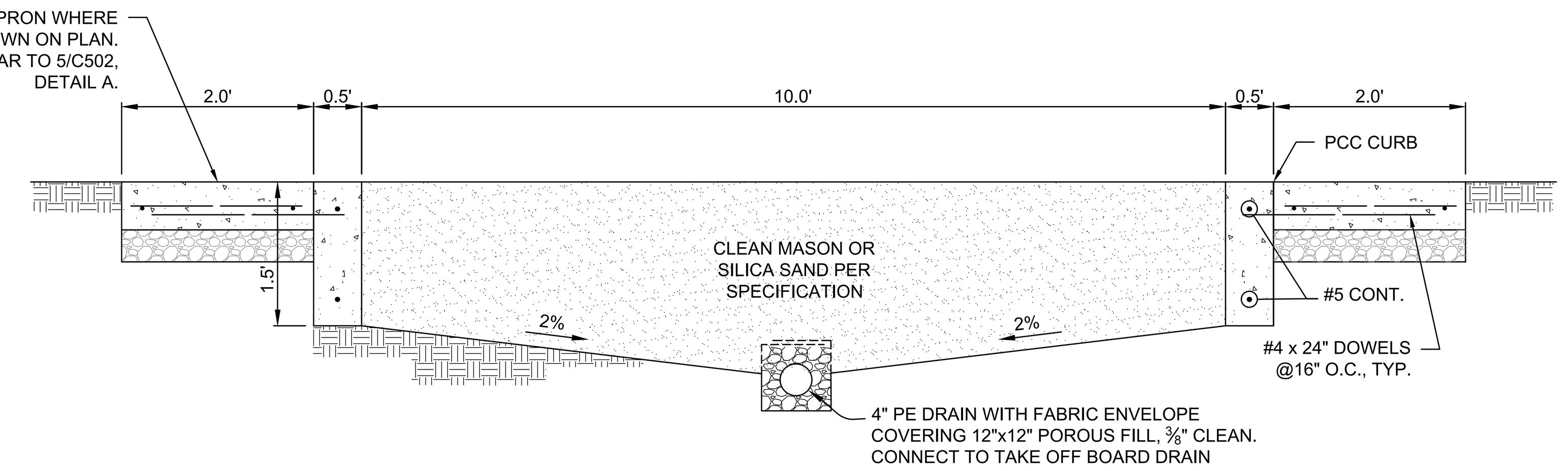
1 LONG JUMP / TRIPLE JUMP RUNWAY AND PIT
NO SCALE



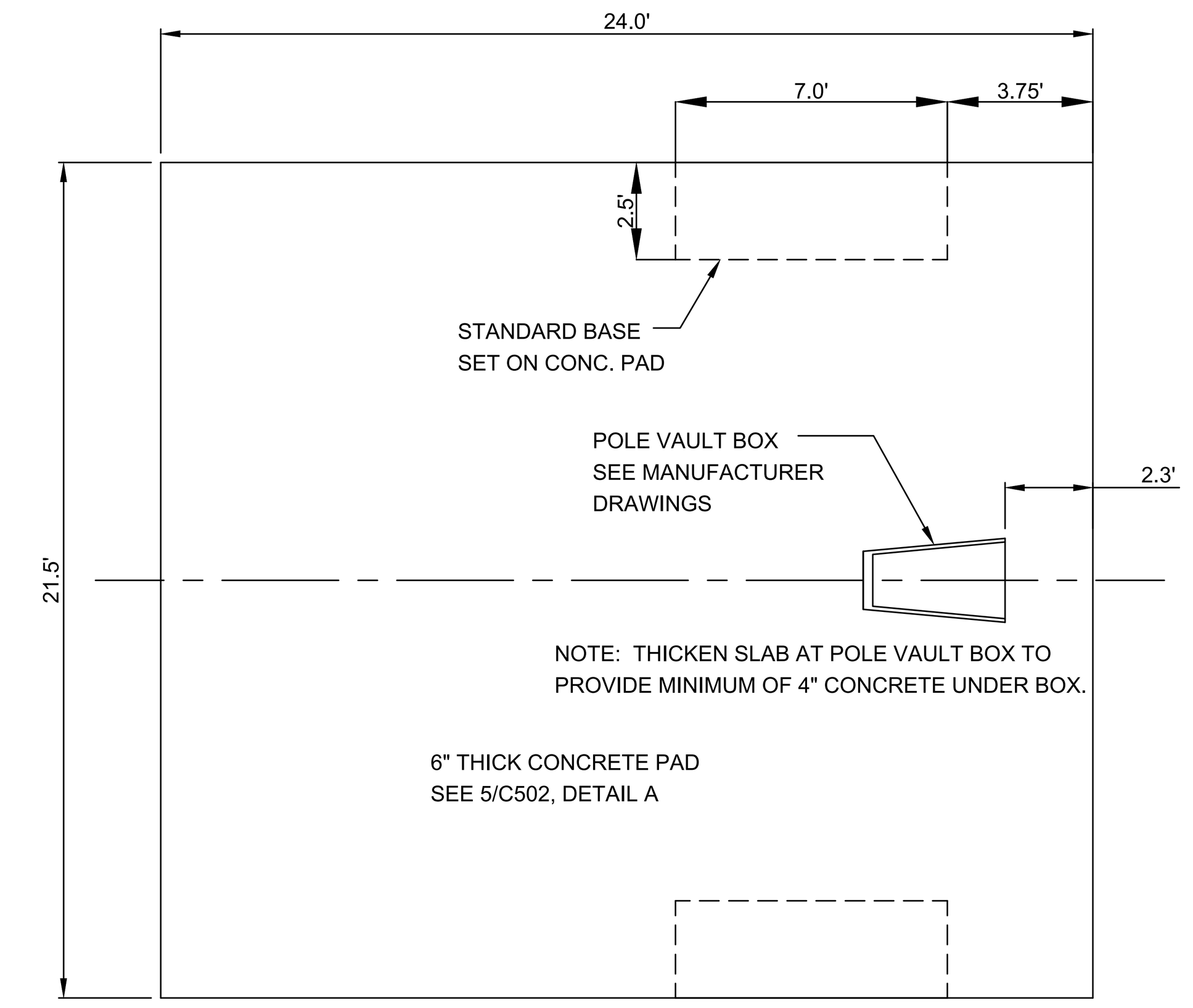
2 RUNWAY-LONG JUMP / TRIPLE JUMP
NO SCALE



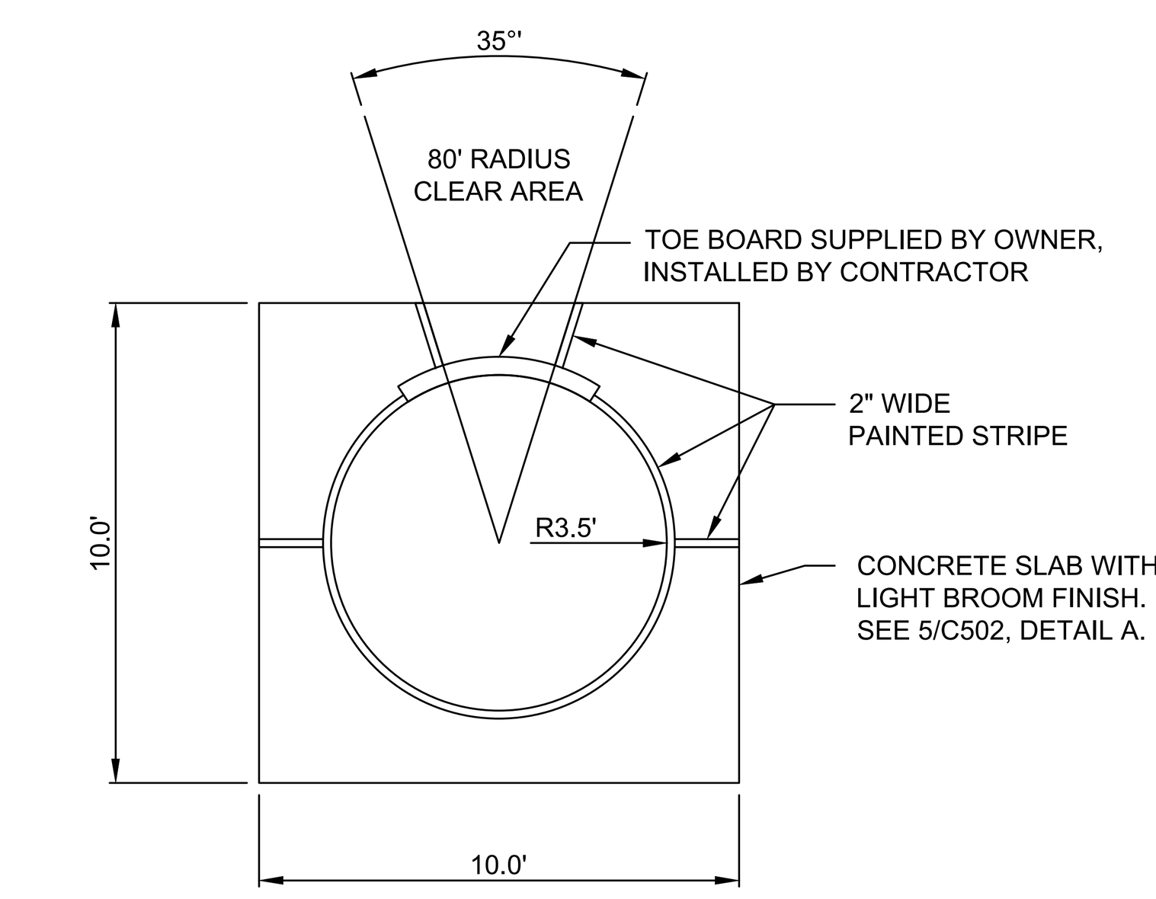
3 RUNWAY TAKEOFF BOARD SECTION
NO SCALE



4 LONG JUMP / TRIPLE JUMP PIT
NO SCALE



5 POLE VAULT CONCRETE PAD
NO SCALE



6 SHOT PUT PAD
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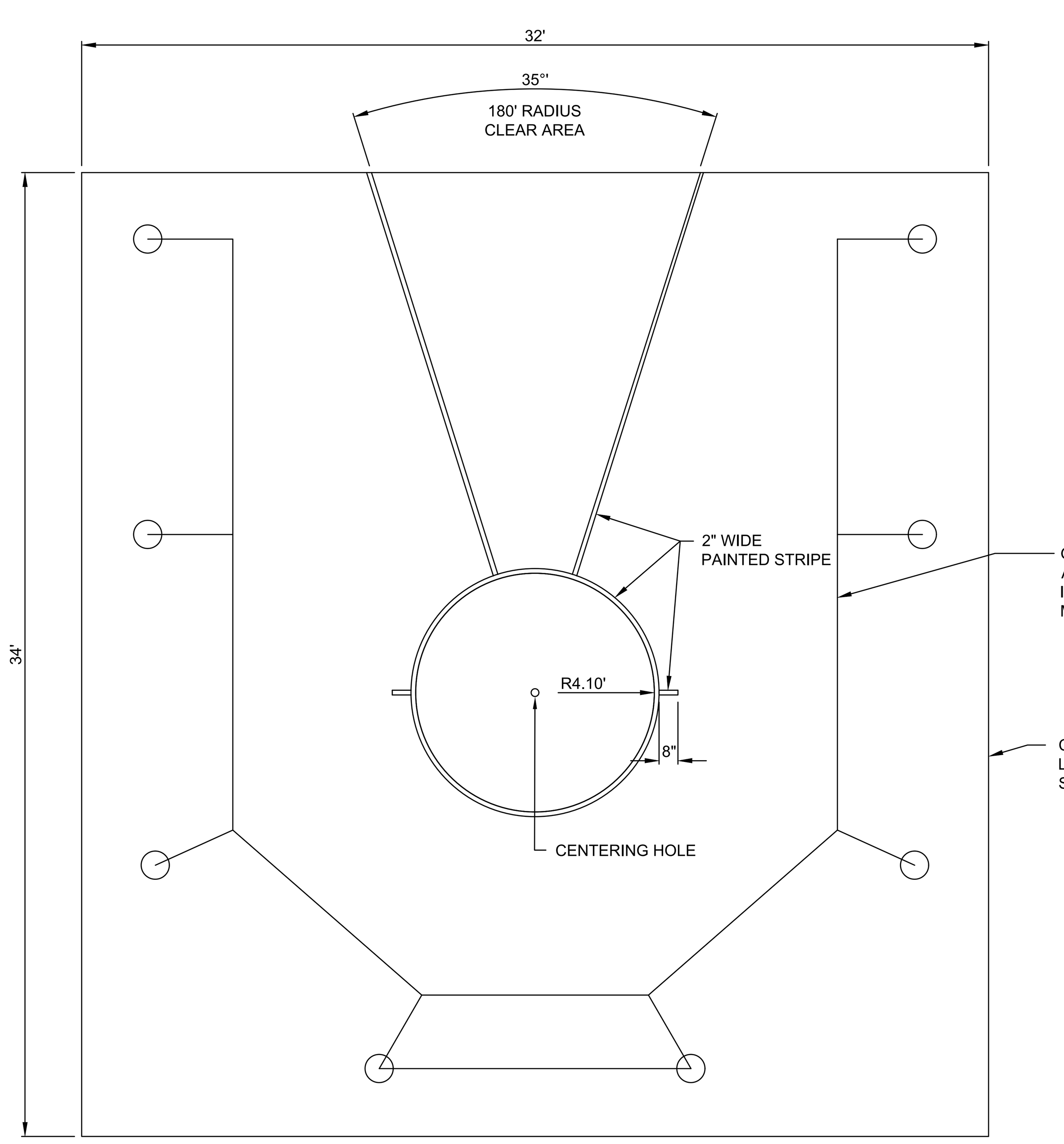
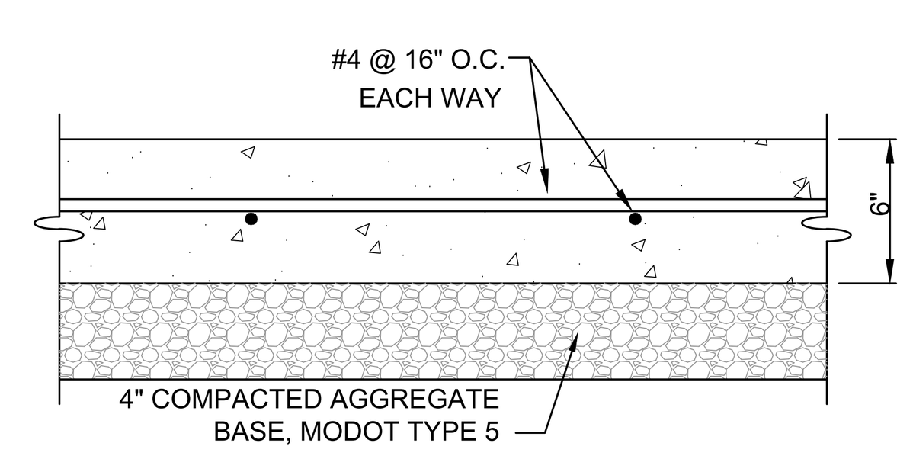
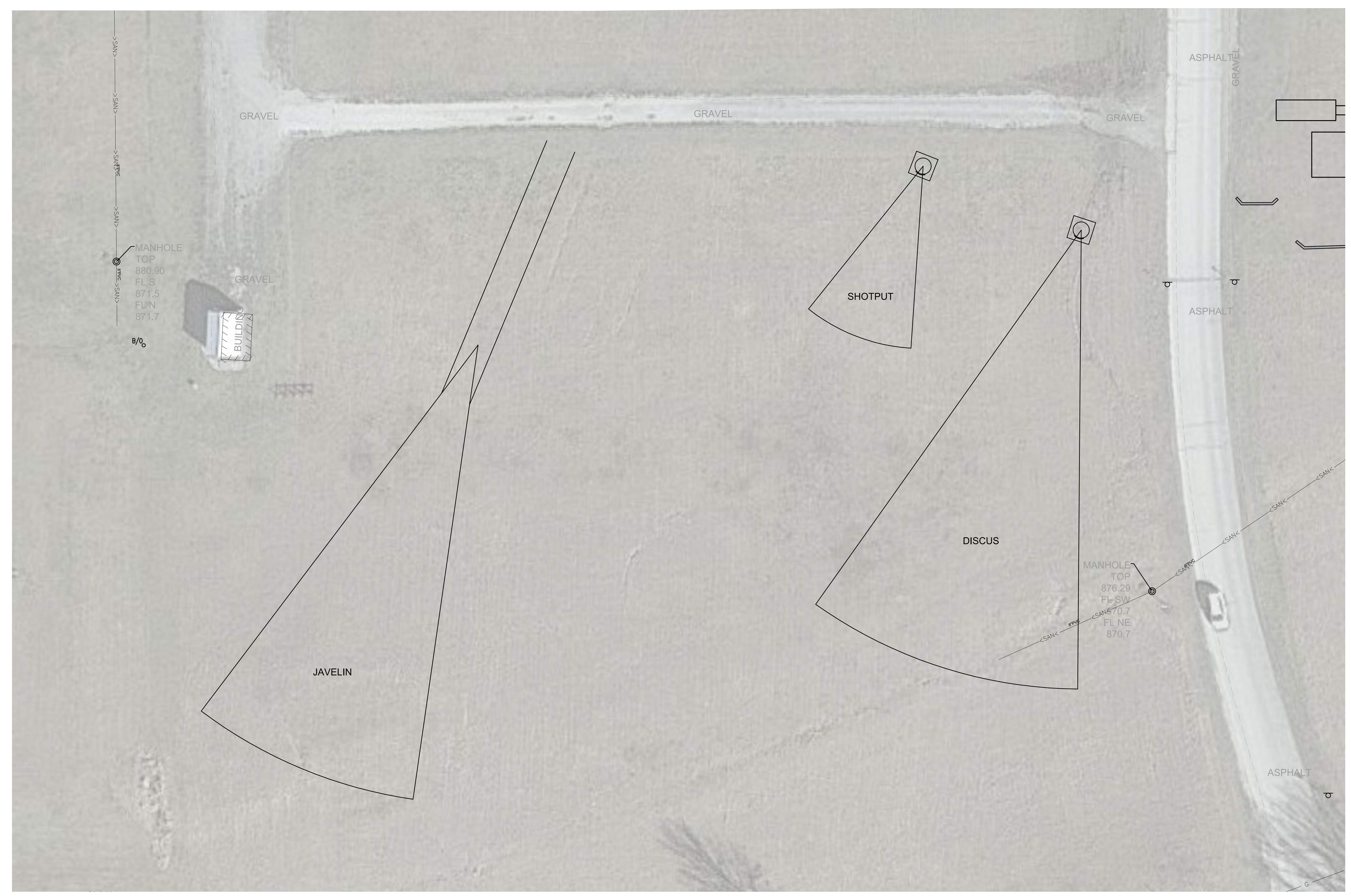


7 DISCUS PAD
NO SCALE



DETAIL A



8 FIELD EVENT PLAN
SCALE: 1"=30'

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Columbia, MO Carbondale, IL

REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR

DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS

HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO, 65255

Non-Reduced Sheet Size: 30" x 42"
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

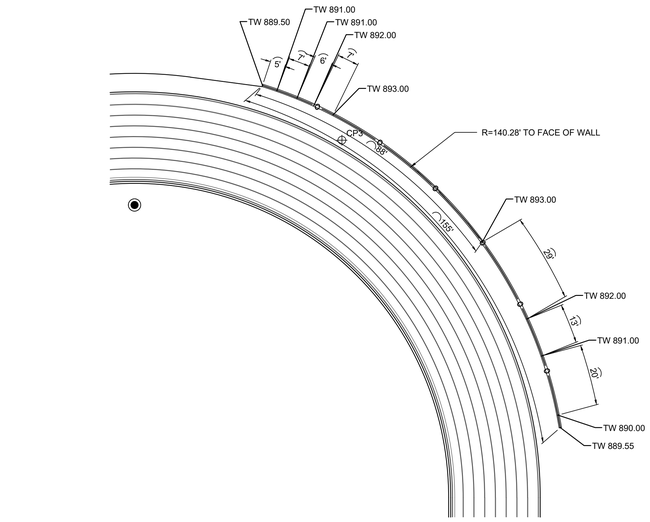
DESIGNED	DRAWN
DCD	DCD/GSG
FIELD	FIELD BOOK
RAW/MWJ	H14/53
CHECKED	CHECK DATE

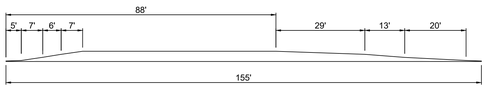
SHEET TITLE
SITE DETAILS

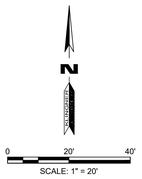
PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
C502



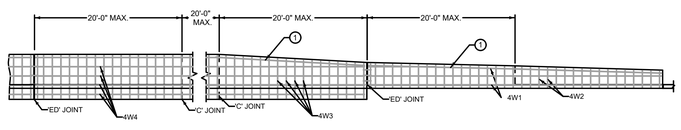




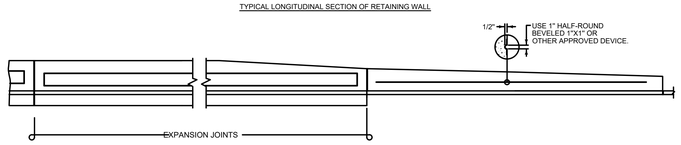
1 RETAINING WALL PLAN & ELEVATION
SCALE: 1"=5'

PROVIDE A MINIMUM CONCRETE COVER TO NEAR REINFORCEMENT OF 1 1/2 INCHES. PROVIDE 3 INCHES MINIMUM COVER AT THE ENDS OF BARS.

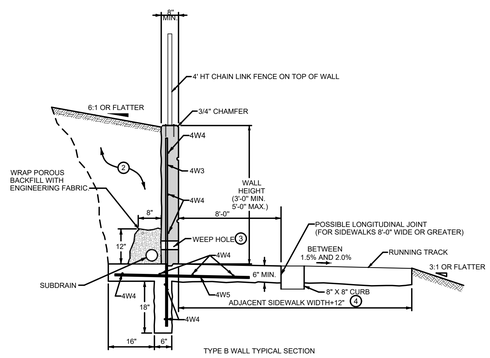
1. TOP BAR PARALLEL TO TOP OF WALL. LAP 6 INCH MINIMUM AS NECESSARY. TIE SECURELY.



TYPICAL LONGITUDINAL SECTION OF RETAINING WALL



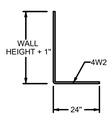
TYPICAL RUSTICATION DETAIL



TYPE B WALL TYPICAL SECTION

PROVIDE A MINIMUM CONCRETE COVER TO NEAR REINFORCEMENT OF 1 1/2 INCHES. PROVIDE 3 INCHES MINIMUM COVER AT THE ENDS OF BARS.

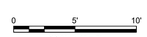
2. EXCAVATE AND PLACE BACKFILL MATERIAL AS NECESSARY.
3. PROVIDE 3 INCH DIAMETER WEEP HOLES AT 8 FOOT INTERVALS. INSTALL RODENT GUARDS IN WEEP HOLES. ALIGN BOTTOM OF WEEP HOLE WITH TOP OF SUBDRAIN.
4. ADDITIONAL 12 INCH WIDTH IS ADJACENT TO WALL.



BENT BARS

REINFORCING BAR LIST					
WALL TYPE	MARK	SIZE	SHAPE	LENGTH	SPACING
TYPE A	4W1	4	—	VARIABLE	15"
	4W2	4	L	VARIABLE	14"
TYPE B	4W3	4	—	WALL HEIGHT + 18"	14"
	4W4	4	—	VARIABLE	15"
	4W5	4	—	3'-10"	14"

2 RETAINING WALL DETAILS
SCALE: 1"=5'



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REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR
1			

DESIGN DEVELOPMENT
10/14/2022

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE TRACK & FIELD IMPROVEMENTS

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421 MO-124 E
HALLSVILLE, MO, 65255

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DCD	DCD/GSG
FIELD	FIELD BOOK
RAW/MWJ	H14/53
CHECKED	CHECK DATE

SHEET TITLE
RETAINING WALL DETAILS

PROJECT NO.
21-5052

DRAWING ISSUED DATE:
10/10/2022

SHEET
C503

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REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT DESCRIPTION
XXXXXXXXXXXXX

CLIENT NAME
ADDRESS
CITY, STATE

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DESIGNED	DRAWN
FIELD	FIELD BOOK
CHECKED	CHECK DATE

SHEET TITLE

PROJECT NO.
XX-XXXXX

DRAWING ISSUED DATE:

SHEET