CONSTRUCTION PLANS
OF
"FOWLER FARM ESTATES"
FOR
STEVEN & MICHELE GLASGOW
IN SYCAMORE, ILLINOIS
2019

BID SET

BENCHMARK INFORMATION

BM "A" – SET R.R. SPIKE IN EAST SIDE OF POWER POLE LOCATED @ NORTHWEST CORNER OF INTERSECTION OF MOTEL ROAD & GRAVEL LANE THAT RUNS WEST ALONG SOUTH SIDE OF PROPERTY
ELEV:833.44

BM "B" – SET R.R. SPIKE IN NORTH SIDE OF 3RD POWER POLE LOCATED WEST OF INTERSECTION OF MOTEL ROAD & GRAVEL LANE THAT RUNS WEST ALONG SOUTH SIDE OF PROPERTY
ELEV:830.71

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LEGEND

TOPOGRAPHIC

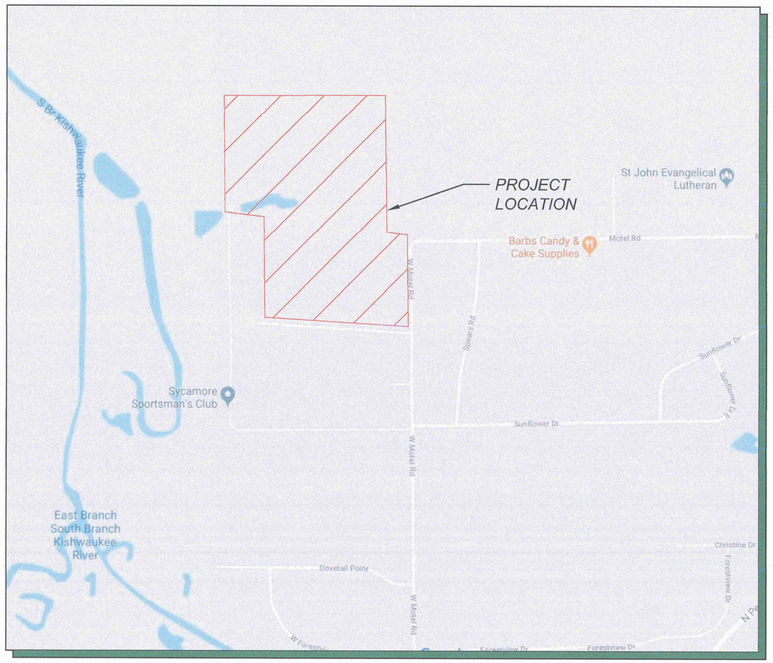
- BOUNDARY OF SURVEY
- SECTION LINE
- RIGHT OF WAY LINE
- CENTERLINE
- BUILDING SETBACK (BSL)
- EASEMENT (UE)
- G — GAS MAIN
- W — WATERMAIN
- OE — OVERHEAD ELECTRIC LINE
- UE — UNDERGROUND ELECTRIC
- OT — OVERHEAD TELEPHONE LINE
- UT — UNDERGROUND TELEPHONE
- FO — FIBER OPTIC LINE
- FENCE LINE
- STORM SEWER
- SANITARY SEWER
- CURB AND GUTTER
- DEPRESSED CURB
- 847 — EXISTING CONTOUR LINE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- DECIDUOUS TREE
- CONIFEROUS TREE
- STUMP
- TELEPHONE POLE
- TELEPHONE PEDESTAL
- CABLE TV RISER
- POWER POLE
- POWER POLE WITH LIGHT
- ELEC. PAD W/ TRANS.
- GAS METER/REGULATOR
- MANHOLE FOR ELECTRIC
- HANDHOLE
- GUY WIRE
- STREET LIGHT
- FIRE HYDRANT
- MANHOLE
- CLEANOUT
- WATER VALVE
- WATER SERVICE
- GAS VALVE
- DROP INLET
- INLET
- SIGN

SURVEY

- STEEL PIN FOUND
- STEEL PIN SET
- SET SURVEY NAIL
- R.O.W. MARKER
- CHISELED "X"
- STONE FOUND
- P.K. NAIL

PROPOSED

- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY SERVICE
- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER SERVICE
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- 4"DT — PROPOSED DRAIN TILE
- PROPOSED END SECTION
- PROPOSED RIP RAP
- PROPOSED DIRECTION OF FLOW
- T.F.E. — TOP OF FOUNDATION
- 848 — PROPOSED CONTOUR LINE
- PROPOSED CURB & GUTTER



LOCATION MAP
CITY OF SYCAMORE

N
W E
S

REGISTERED PROFESSIONAL ENGINEER
DAVID A. WEBER
062-047743
STATE OF ILLINOIS

May 30, 2019
DATE

DAVID A. WEBER
STERLING, ILLINOIS
ILLINOIS LICENSED PROFESSIONAL
ENGINEER NO. 062–047743
EXPIRES 11–30–2019

OPERATES 24 Hours 365 Days
CALL JULIE 1-800-892-0123
WITH THE LOCATION(S)
COUNTY DEKALB
CITY-TOWNSHIP SYCAMORE
SEC. & ¼ SEC. NO.#
48 Hours Before You Dig.
EXCLUDING SAT., SUN., & HOLIDAYS

UTILITY NOTE:

THE LOCATION AND SIZE OF UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED UPON INFORMATION PROVIDED BY OTHERS. WENDLER ENGINEERING SERVICES, INC. MAKES NO GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED, FOR THE ACCURACY AND LOCATION OF THE UNDERGROUND UTILITIES. CONTACT J.U.L.I.E. AT 1–800–892–0123 A MINIMUM OF 48 HOURS BEFORE YOU DIG.

NOTE:

THESE DRAWINGS ARE A COMPILATION OF INFORMATION COLLECTED BY OTHERS AND DATA COLLECTED BY WENDLER. WENDLER ENGINEERING SERVICES, INC. MAKES NO GUARANTEE OR WARRANTY, EXPRESSED, OR IMPLIED, CERTIFYING THE EXISTENCE OF ANY CONDITIONS.

SOIL TESTING PERFORMED BY: PUTMAN SOIL TESTING INC, WOODSTOCK, IL
DATED: FEB. 12, 2008.

TOPOGRAPHIC SURVEY PERFORMED BY WILLIAM E. HANNA SURVEYORS, DEKALB, IL
DATED: SEPT 6TH, 2007.

OWNER/DEVELOPER:

STEVEN G. AND MICHELE T. GLASGOW
3085 WOLF COURT
DEKALB, ILLINOIS 60115
PHONE: 815.739.9015

ENGINEER/PLANNER/SURVEYOR:

WENDLER ENGINEERING SERVICES
698 TIMBER CREEK ROAD
DIXON, IL 61021
815.288.2261
CONTACT: DAVID A. WEBER, P.E.
DWEBER@WENDLERGS.COM

City of Sycamore

Approved this ____ day of _____, 20___

Signature Title

REVISIONS

REVISION	DATE

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO.: -

wendler engineering services, inc.
GROUNDBREAKING SOLUTIONS
engineers · surveyors · scientists
dwendlergs.com ph 815.288.2261
www.wendlergs.com Illinois Professional Design Firm No. 184.000848

CONSTRUCTION PLANS OF FOWLER FARM ESTATES FOR STEVEN & MICHELE GLASGOW

SHEET TITLE
COVER SHEET

JOB NUMBER
2070519

DATE
05/30/2019

SHEET NO.
1 of 18

GENERAL NOTES

1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION AND THE LOCAL AGENCY CODES AND ORDINANCES.

2) THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS WHICH MAY BE NECESSARY TO PROTECT THE PROPERTY OF THE VARIOUS PUBLIC UTILITIES WHICH MAY BE LOCATED UNDERGROUND OR ABOVE GROUND, AT OR ADJACENT TO THE SITE OF THIS IMPROVEMENT. NEEDED ADJUSTMENTS OF THESE FACILITIES SHALL BE COORDINATED BY THE CONTRACTOR AND THE RESPECTIVE UTILITY COMPANIES IF SO REQUIRED. THE OWNER SHALL BE SAVED HARMLESS AND CARE SHALL BE EXERCISED SO AS NOT TO DISRUPT OR DESTROY THE SERVICES PROVIDED BY THESE UTILITIES. THE CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE ANY PUBLIC UTILITY PROPERTY WHICH HAS BEEN DAMAGED THROUGH HIS/HER EFFORTS. THE PROCEDURE AND SPECIFICATIONS OF REPAIR WILL BE IN ACCORDANCE WITH THE REGULATIONS AND/OR POLICY OF THE UTILITY.

3) THE CONTRACTOR SHALL CONTACT AND COORDINATE HIS ACTIVITIES WITH THE UTILITIES BY CONTACTING: JULIE – 800/892–0123.

4) THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND BE FAMILIAR WITH THE UTILITY LAYOUT OF THIS PROJECT AND STANDARD CONSTRUCTION PROCEDURES AND PRACTICES PRIOR TO ORDERING MATERIAL.

5) THE AGGREGATE BASE COURSE, TYPE A, SHALL BE CA–10 OR CA–06. THIS MATERIAL SHALL BE PLACED AND COMPACTED TO THE DIMENSION AS SHOWN ON THE PLANS AS PER SECTION 301 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE SUB BASE GRANULAR MATERIAL SHALL BE CA02, OR AS APPROVED BY THE LOCAL AGENCY.

6) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE CORRECTNESS OF THE UTILITIES PRIOR TO THE START OF CONSTRUCTION BY UNCOVERING EXISTING UNDERGROUND UTILITIES IN ALL LOCATIONS WHERE HE FEELS THE PROPOSED CONSTRUCTION MAY NEED TO BE ALTERED TO PREVENT CONFLICTS IN LINE, GRADE OR WORKING CLEARANCES.

7) THE CONTRACTOR SHALL MARK ALL FIELD TILE CROSSED WHEN EXCAVATING FOR THE UTILITY LINES, CATCH BASINS, ROADWAY, HOUSE FOUNDATIONS, ETC. ALL FIELD TILES CROSSED SHALL BE RECONNECTED, MADE OPERABLE AND RESTORED TO THE SAME CONDITION THEY WERE IN PRIOR TO CONSTRUCTION. COST SHALL BE INCIDENTAL TO THE COST OF THE UTILITY BEING INSTALLED.

8) ALL WORK ON THE STREETS AND STORMWATER MANAGEMENT SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS IN THE PLANS AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PROVIDE THE OWNER WITH A COMPLETE WORKABLE SYSTEM COMPLYING WITH ALL APPLICABLE CODES AND ACCEPTED BY THE LOCAL AGENCY.

9) REMOVE TOPSOIL AS REQUIRED UNDER ALL PROPOSED PARKING AND DRIVE AREAS AND STOCKPILE AS PER THE OWNERS DIRECTION. THIS MATERIAL MAY BE USED FOR LANDSCAPE PURPOSES AND SITE GRADING AREAS THAT WILL HAVE VEGETATIVE COVER OVER THEM.

10) TRENCH BACKFILL OF A GRANULAR MATERIAL SHALL BE USED AT ALL EXCAVATED TRENCH AREAS THAT ARE TO HAVE SIDEWALK, PARKING, ROADWAYS, DRIVEWAYS, OR CURB OVER IT. THIS MATERIAL SHALL BE BACKFILLED IN 8" LIFTS AND COMPACTED TO MINIMIZE SETTLEMENT.

11) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EMPLOYEES IN EXCAVATIONS IN ACCORDANCE WITH THE EXCAVATION STANDARDS ADOPTED BY THE U.S. DEPARTMENT OF LABOR AND O.S.H.A. THE PROTECTION SYSTEMS FOR EXCAVATIONS GREATER THAN 20 FEET IN DEPTH SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER OF ILLINOIS AND THE TABULATED DATA AND DESIGN MUST BE AVAILABLE FOR INSPECTION. THIS COST SHALL BE INCLUDED IN THE CONTRACTORS UNIT PRICE BID PER FOOT FOR INSTALLING THE UNDERGROUND UTILITY OF THE SIZE SPECIFIED IN THE PLANS.

12) THIS PROJECT WILL RESULT IN A DISTURBANCE OF GREATER THAN ONE ACRE WHICH WILL REQUIRE COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER PERMIT. THE OWNER/DEVELOPER 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. IF REQUIRED THE PLAN SHALL IDENTIFY POTENTIAL SOURCES OF POLLUTION WHICH MAY BE REASONABLY 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 PLAN SHALL BE RETAINED ON SITE.

13) ALL PROPOSED SPOT ELEVATIONS ARE TO FINISHED SURFACE, UNLESS NOTED OTHERWISE.

14) TRUCKS AND MIXER TRUCKS WILL BE ALLOWED TO OPERATE ON THE SUBGRADE; HOWEVER, SHOULD SUBGRADE SHOW ANY SIGN OF DISTRESS, ALL OPERATIONS WILL CEASE UNTIL THESE ITEMS ARE CORRECTED TO THE SATISFACTION OF THE ENGINEER. ANY SUBGRADE DISTRESSED BY TRUCKS AND MIXER TRUCKS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

15) THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT OF WAY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION. COHESIVE SOIL SHALL BE DEFINED AS ANY SOIL WHICH CONTAINS GREATER THAN 10% PARTICLES BY WEIGHT PASSING THE #200 SIEVE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

16) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.10	TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL/SQ YD
BITUMINOUS MATERIALS (PRIME COAT) FOR ADDITIONAL HMA LIFTS "FOG COAT"	0.08	GAL/SQ YD
BITUMINOUS MATERIALS (PRIME COAT)	7.85	LBS/GAL
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
HMA SURFACE & BINDER COURSE	115	LBS/SQ YD/IN

16) THE CONTRACTOR SHALL PROVIDE THE NECESSARY LABOR AND EQUIPMENT TO PROPERLY INSTALL THE SIGNAGE AND PAVEMENT MARKINGS AS INDICATED IN THE DRAWINGS, IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

17) THE CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE AND LOCATION OF THE EXISTING UTILITIES.

18) ADJUSTMENT OF FRAME OF GRATE: FINAL GRADE FOR ALL MANHOLE CASTINGS WILL BE DETERMINED AFTER THE SUBGRADE BASE HAS BEEN CONSTRUCTED. THE FINAL ELEVATION WILL BE DETERMINED BY THE ENGINEER.

19) SILTATION FENCE SHALL BE INSTALLED AS PRUDENT AND NECESSARY TO PROVIDE TEMPORARY EROSION CONTROL.

20) TO TEST ROLL THE SUBGRADE, THE CONTRACTOR WILL PROVIDE, AT HIS OWN EXPENSE, A LOADED TRUCK AND TEST ROLL THE COMPACTED EARTH SUB GRADE IN THE PRESENCE OF THE ENGINEER BEFORE ANY SUB–BASE, BASE OR SURFACE MATERIAL IS PLACED. THE TRUCK SHALL BE LOADED AS FOLLOWS: 27,000 POUNDS ON TWO AXLES AND 45, 000 POUNDS ON THREE AXLES WITH A TOLERANCE NOT TO EXCEED 10%. THE CONTRACTOR SHALL GIVE THE ENGINEER 48–HOUR NOTICE PRIOR TO TEST ROLLING.

THE TRUCK SHALL MAKE ONE PASS OVER THE ENTIRE SUBGRADE AREA TO BE CONSTRUCTED. ANY AREAS WHICH SHOW RUTTING, CRACKING OR ROLLING OF THE COMPACTED SUBGRADE UPON TEST ROLLING WILL NOT BE ACCEPTED. THE CONTRACTOR WILL RECOMPACT AND/OR RECONSTRUCT THE SECTION THAT FAILS AND TEST ROLL AGAIN PRIOR TO ACCEPTANCE.

REPAIRS AND/OR RECONSTRUCTION OF SUBGRADE WILL BE PAID ACCORDING TO THE CONTRACT PROVISIONS FOR EXTRA WORK.

21) CONTRACTOR SHALL UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.

1. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING ADJACENT GRADES AND NEW GRADES.
2. CUT OFF SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO CONFORM TO REQUIRED SURFACE TOLERANCES.

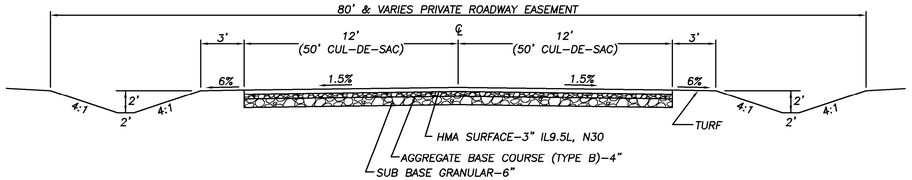
22) EARTH EXCAVATION SHALL CONSIST OF THE EXCAVATION, REMOVAL AND SATISFACTORY DISPOSAL OF ALL MATERIALS TAKEN FROM THE SITE FOR THE CONSTRUCTION OF EMBANKMENTS FOR ROADWAYS, DITCHES, AND DETENTION PONDS. EMBANKMENT SHALL BE CONSTRUCTED BY DEPOSITING, PLACING AND COMPACTING EARTH, STONE, GRAVEL OR OTHER MATERIALS OF ACCEPTABLE QUALITY ABOVE THE NATURAL GROUND OR OTHER SURFACE. EARTH EXCAVATION SHALL NOT BE INTERPRETED TO INCLUDE EXCAVATION FROM BORROW PITS. THE METHOD OF REMOVAL AND PLACEMENT OF THE EXCAVATED MATERIAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF SECTIONS 202 AND 205 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EXCEPT THAT EMBANKMENTS WILL NOT BE MEASURED FOR PAYMENT.

23) THE LOCATION OF SOME EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE BASIS OF INFORMATION FURNISHED BY OTHERS AND THE ENGINEER DOES NOT WARRANT OR GUARANTEE THIS INFORMATION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE CORRECTNESS OF THE UTILITIES PRIOR TO THE START OF CONSTRUCTION BY UNCOVERING UNDERGROUND UTILITIES IN ALL LOCATIONS WHERE HE FEELS THE PROPOSED CONSTRUCTION MAY NEED TO BE ALTERED TO PREVENT CONFLICTS IN LINE, GRADE OR WORKING CLEARANCES.

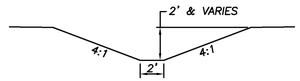
24) DISPOSAL OF SURPLUS EXCAVATED MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR MAY STOCKPILE OR DISPOSE SURPLUS EXCAVATED MATERIAL ON–SITE, WITH PERMISSION FROM THE ENGINEER AND OWNER.

25) SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACKSLOPES.

26) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO MOTEL ROAD AS A RESULT OF CONSTRUCTION ACTIVITIES.



TYPICAL CROSS SECTION



TYPICAL DITCH SECTION
(ACROSS LOT 6 TO WEST POND)

REVISIONS

REVISION	DATE

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO.: -

wendler
wendler engineering services, inc.
GROUNDBREAKING SOLUTIONS
engineers surveyors scientists
www.wendlereigs.com ph: 815.288.2261
Illinois Professional Design Firm No. 184-003948

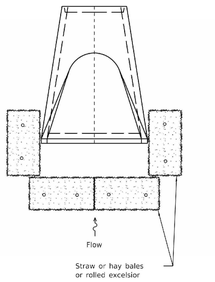
CONSTRUCTION PLANS
OF
FOWLER FARM ESTATES
FOR
STEVEN & MICHELE GLASGOW

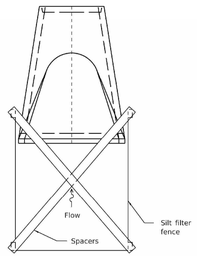
SHEET TITLE
GENERAL NOTES & DETAILS

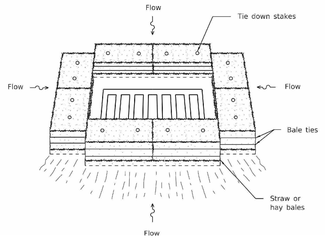
JOB NUMBER
2070519

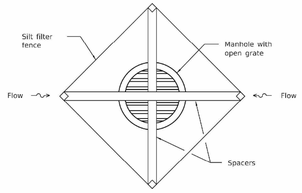
DATE
05/30/2019

SHEET NO.
2 of 18

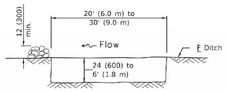






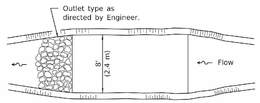


INLET AND PIPE PROTECTION



The performance of the basin will improve if put into a series.

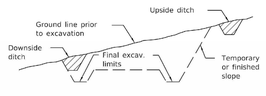
ELEVATION



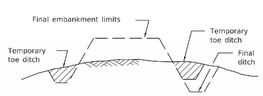
The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

PLAN

SEDIMENT BASIN



TYPICAL CUT CROSS-SECTION



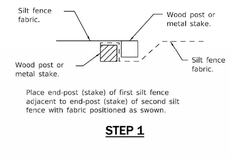
TYPICAL FILL CROSS-SECTION

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

Illinois Department of Transportation
PASSED January 1, 2013
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BLR 1-1-97

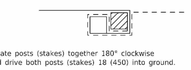
TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 2 of 2)

STANDARD 280001-07



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as swown.

STEP 1

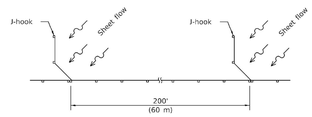


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

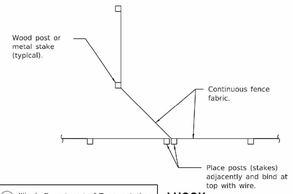
STEP 2

ATTACHING TWO SILT FILTER FENCES

(Not applicable for J-hooks)

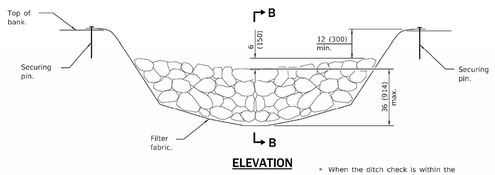


SILT FILTER J-HOOK PLACEMENT



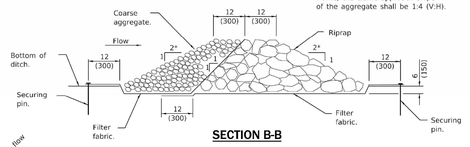
J-HOOK

Illinois Department of Transportation
PASSED January 1, 2013
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BLR 1-1-97



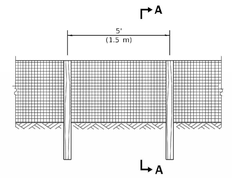
ELEVATION

* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



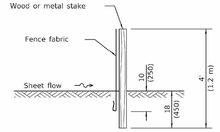
SECTION B-B

AGGREGATE DITCH CHECK

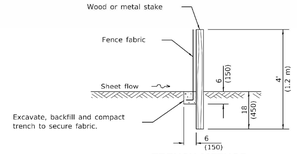


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



TRENCH METHOD

SECTION A-A

GENERAL NOTES

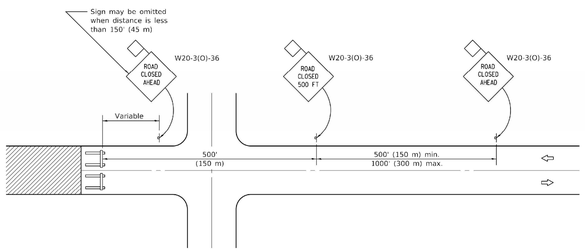
The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-13	Corrected notation for
	flowline (℄) on SEDIMENT
	BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter
	barrier. Added SLICE METHOD
	to SECTION A-A.

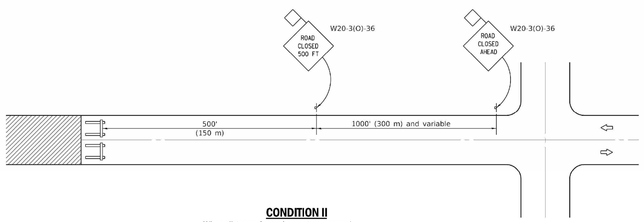
TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 1 of 2)

STANDARD 280001-07



CONDITION I

When distance from closure to crossroad is less than 1500' (450 m)



CONDITION II

When distance from closure to crossroad is greater than 1500' (450 m)

SYMBOLS

Work area

Type III Barricade

Sign with 18x18 (450x450) min. orange flag attached

GENERAL NOTES

Type III Barricades and R11-2-4830 signs shall be positioned as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

Two Type A Low Intensity Flashing Lights shall be used on each approach in advance of the work area during hours of darkness. One light shall be installed above the barricades and the other above the first advance warning sign.

All warning signs shall have minimum dimensions of 36 x 36 (900 x 900) and have a black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

Longitudinal dimensions may be adjusted to fit field conditions.

When the distance between the barricade and the intersection is between 1500' (450 m) and 2000' (600 m), the advance sign shall be placed at the intersection. When the distance between the barricade and the intersection is over 2000' (600 m), an additional sign shall be placed at the intersection. The additional sign shall give the distance to the barricade in miles or fractions of a mile.

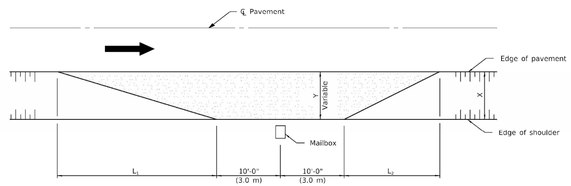
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2012
ENGINEER OF LOCAL ROADS AND STREETS
APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BLR 1-1-97

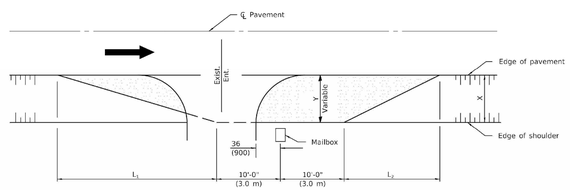
DATE	REVISIONS
1-1-12	Omitted two notes from
	GENERAL NOTES.
1-1-09	Switched units to
	English (metric).

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

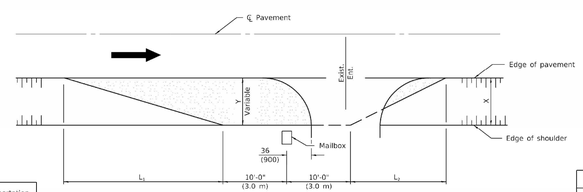
STANDARD B.L.R. 21-9



TYPICAL APPLICATION



MAILBOX ON FARSIDE OF ENTRANCE



MAILBOX ON NEARSIDE OF ENTRANCE

DIMENSIONS - ft. (m)						
Width of Shoulder (X)	12 (3.6)	10 (3.0)	8 (2.4)	6 (1.8)	5 (1.5)	4 (1.2)
Width of Turnout (Y)	8 (2.4)	8 (2.4)	6 (1.8)	4 (1.2)	4 (1.2)	4 (1.2)
L_1	30 (9.0)	30 (9.0)	23 (6.9)	15 (4.5)	15 (4.5)	15 (4.5)
L_2	20 (6.0)	20 (6.0)	15 (4.5)	10 (3.0)	10 (3.0)	10 (3.0)

Note:
Dimensions for Township and District Roads may vary from the above dimensions.

GENERAL NOTES

Mailboxes shall be mounted such that the face of the mailbox is 6 (150) to 12 (300) and the post a minimum of 24 (600) from the edge of the turnout surfacing.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2009
ENGINEER OF LOCAL ROADS AND STREETS
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/BLR 1-1-97

DATE	REVISIONS
1-1-09	Switched units to
	English (metric).
1-1-99	Add width of shoulder X.

MAILBOX TURNOUT FOR LOCAL ROADS

STANDARD B.L.R. 24-2

REVISIONS		
REVISION	DATE	

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO.: -

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Illinois Professional Design Firm No. 184-000948

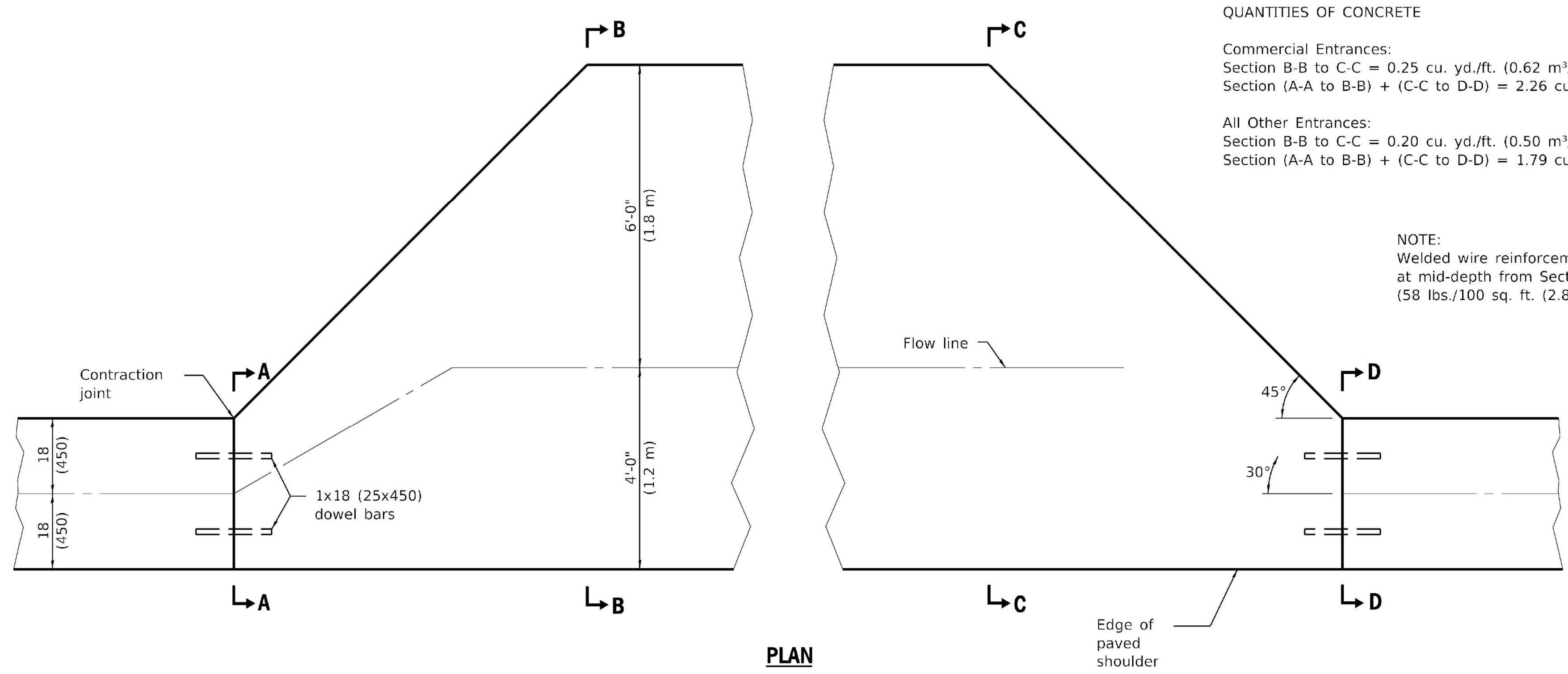
CONSTRUCTION PLANS
OF
FOWLER FARM ESTATES
FOR
STEVEN & MICHELE GLASGOW

SHEET TITLE
IDOT DETAILS

JOB NUMBER
2070519

DATE
05/30/2019

SHEET NO.
3 of 18



QUANTITIES OF CONCRETE

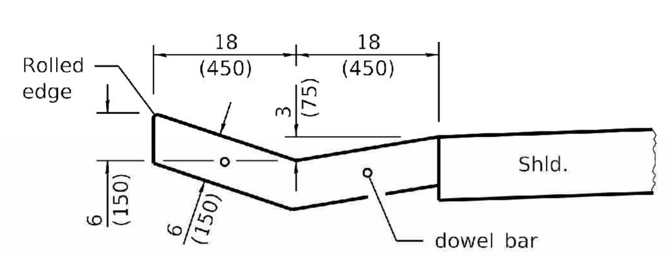
Commercial Entrances:
Section B-B to C-C = 0.25 cu. yd./ft. (0.62 m³/m).
Section (A-A to B-B) + (C-C to D-D) = 2.26 cu. yd. (1.73 m³).

All Other Entrances:
Section B-B to C-C = 0.20 cu. yd./ft. (0.50 m³/m).
Section (A-A to B-B) + (C-C to D-D) = 1.79 cu. yd. (1.37 m³).

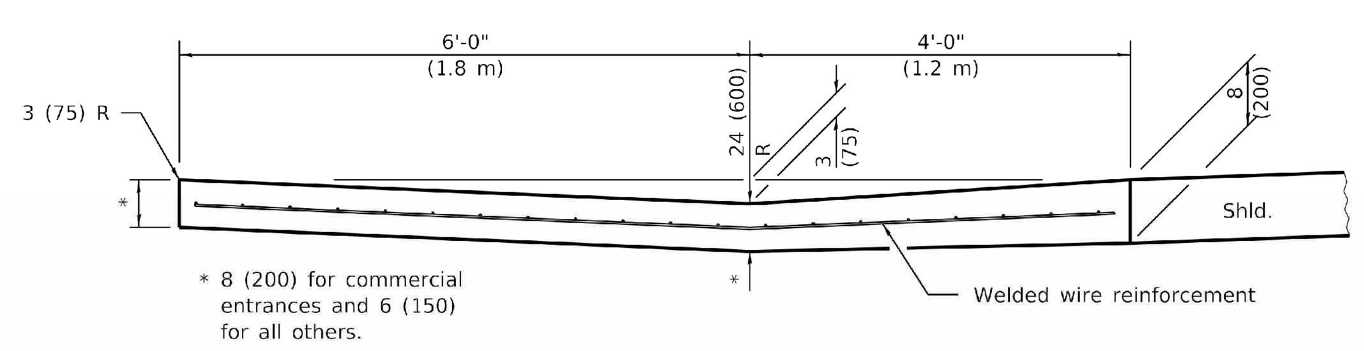
NOTE:
Welded wire reinforcement shall be installed at mid-depth from Section A-A to D-D.
(58 lbs./100 sq. ft. (2.83 kg/m²))

PLAN

ENTRANCE



SECTIONS A-A & D-D

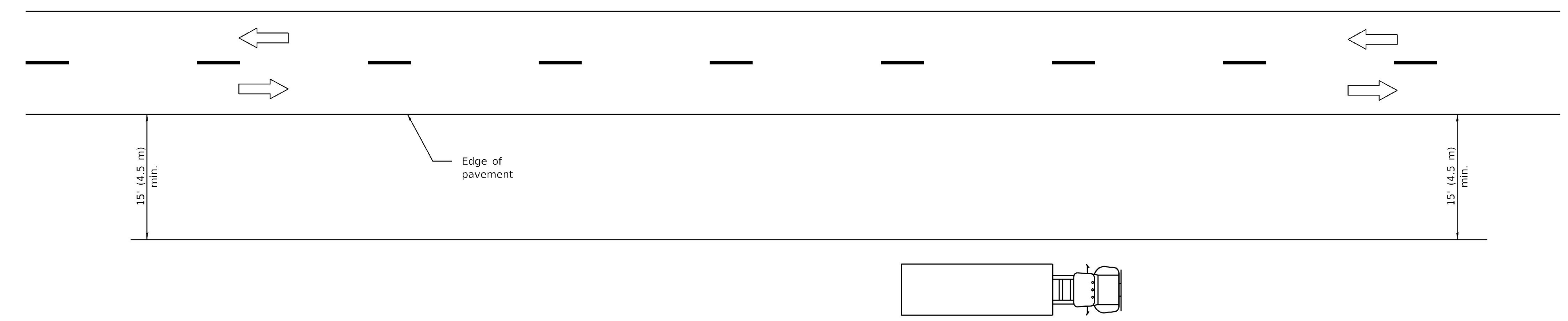


* 8 (200) for commercial entrances and 6 (150) for all others.

SECTIONS B-B & C-C

Illinois Department of Transportation
PASSED April 1, 2016
ENGINEER OF POLICY AND PROCEDURES
APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
(Sheet 2 of 3)
STANDARD 606101-05



TYPICAL APPLICATIONS
Landscaping work
Utility work
Fencing contracts and maintenance
Cleaning culverts

GENERAL NOTES
This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

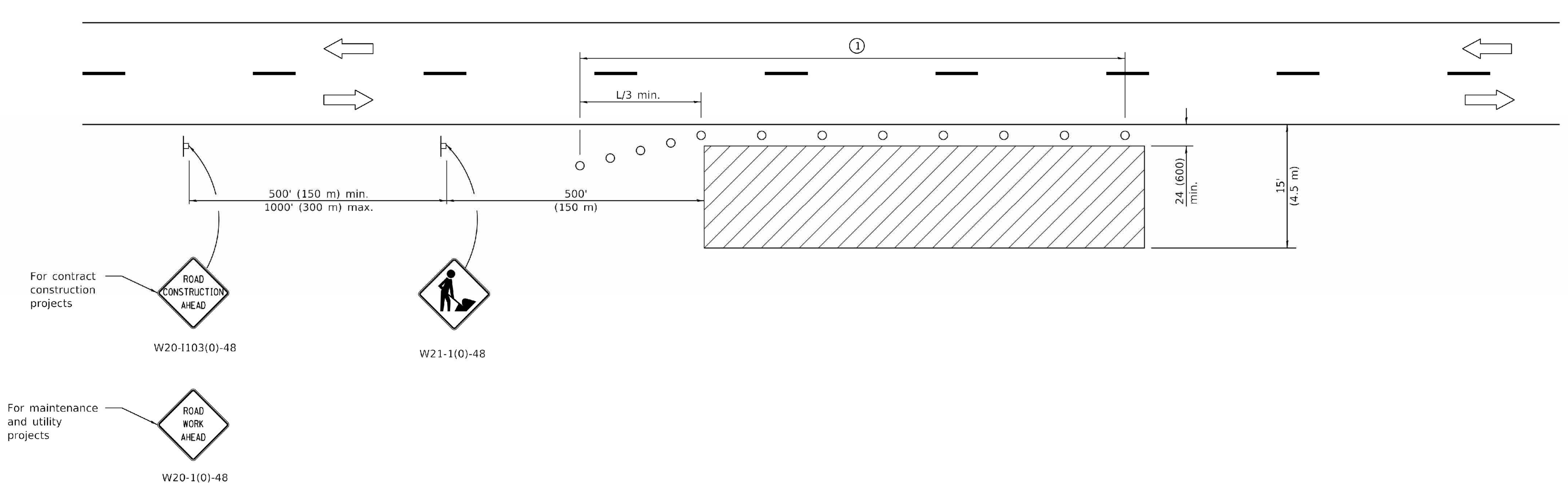
When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2009
ENGINEER OF OPERATIONS
APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to
	English (metric).
1-1-05	Revised title and notes.

OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
STANDARD 701001-02



TYPICAL APPLICATIONS
Utility operations
Culvert extensions
Side slope changes
Guardrail installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

SYMBOLS
Work area
Sign
Cone, drum or barricade

GENERAL NOTES
This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

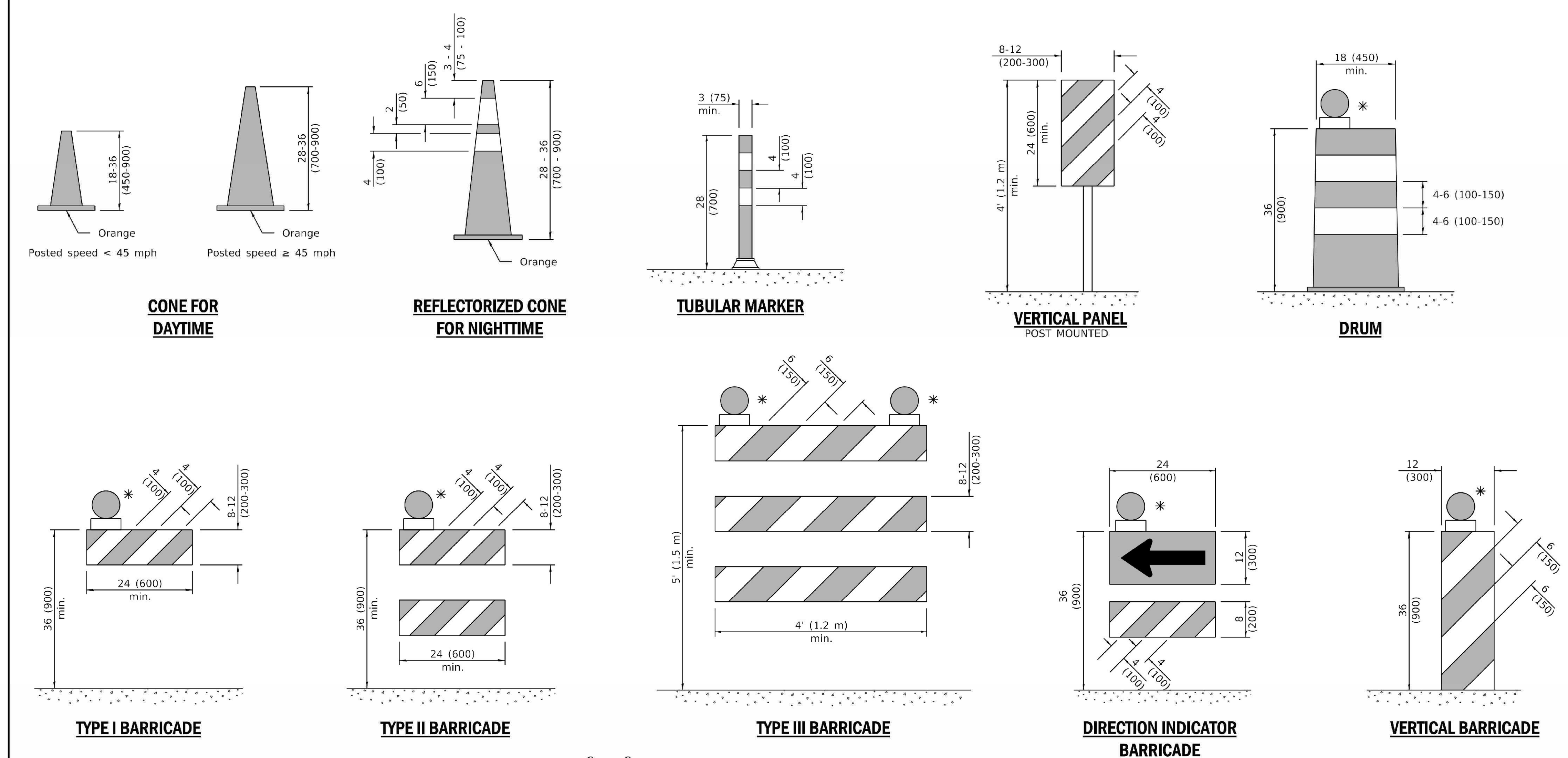
S = Normal posted speed mph (km/h).

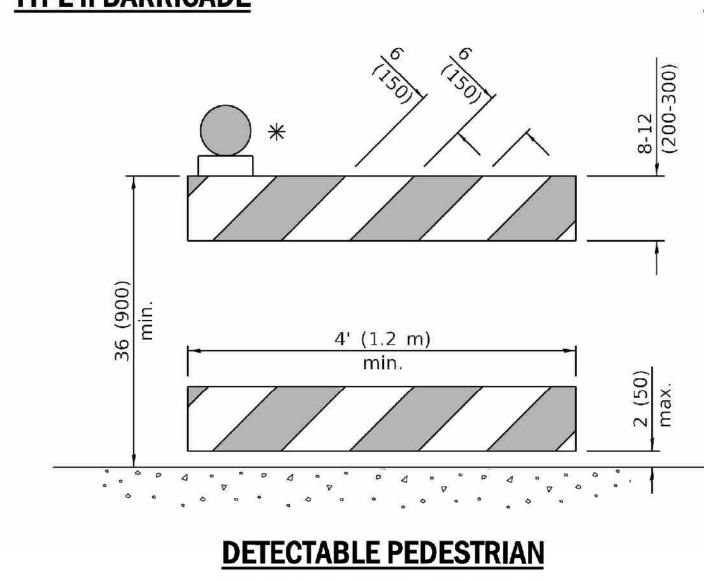
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
STANDARD 701006-05





✳ Warning lights (if required)

GENERAL NOTES
All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2018
ENGINEER OF OPERATIONS
APPROVED January 1, 2018
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-18	Revised END WORK ZONE
	SPEED LIMIT sign from
	orange to white background.
1-1-17	Changed FLEXIBLE DELINEATOR
	to TUBULAR MARKER.

TRAFFIC CONTROL DEVICES
(Sheet 1 of 3)
STANDARD 701901-07

REVISIONS
REVISION
DATE

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO.: -

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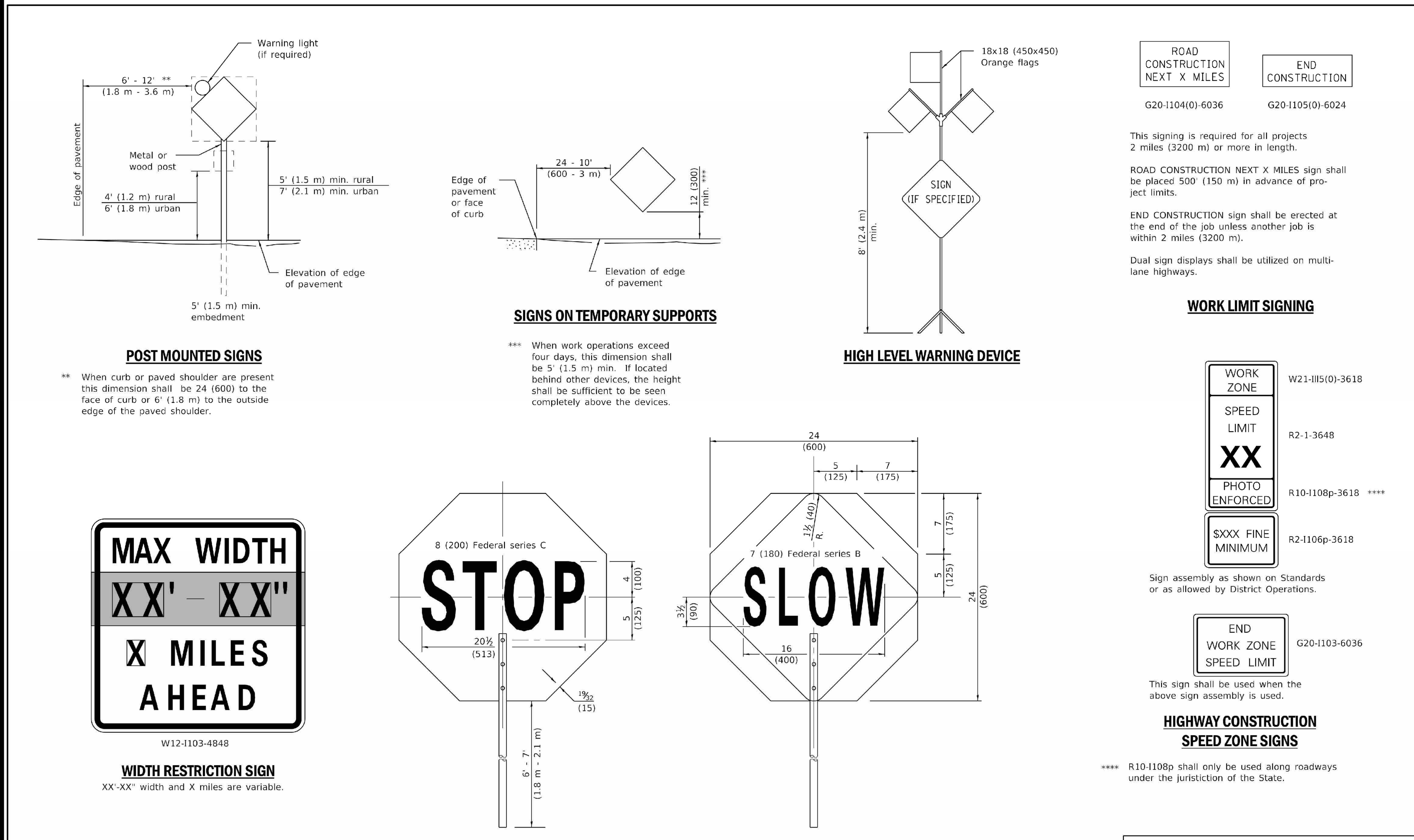
CONSTRUCTION PLANS
OF
FOWLER FARM ESTATES
FOR
STEVEN & MICHELE GLASGOW

SHEET TITLE
IDOT DETAILS

JOB NUMBER
2070519

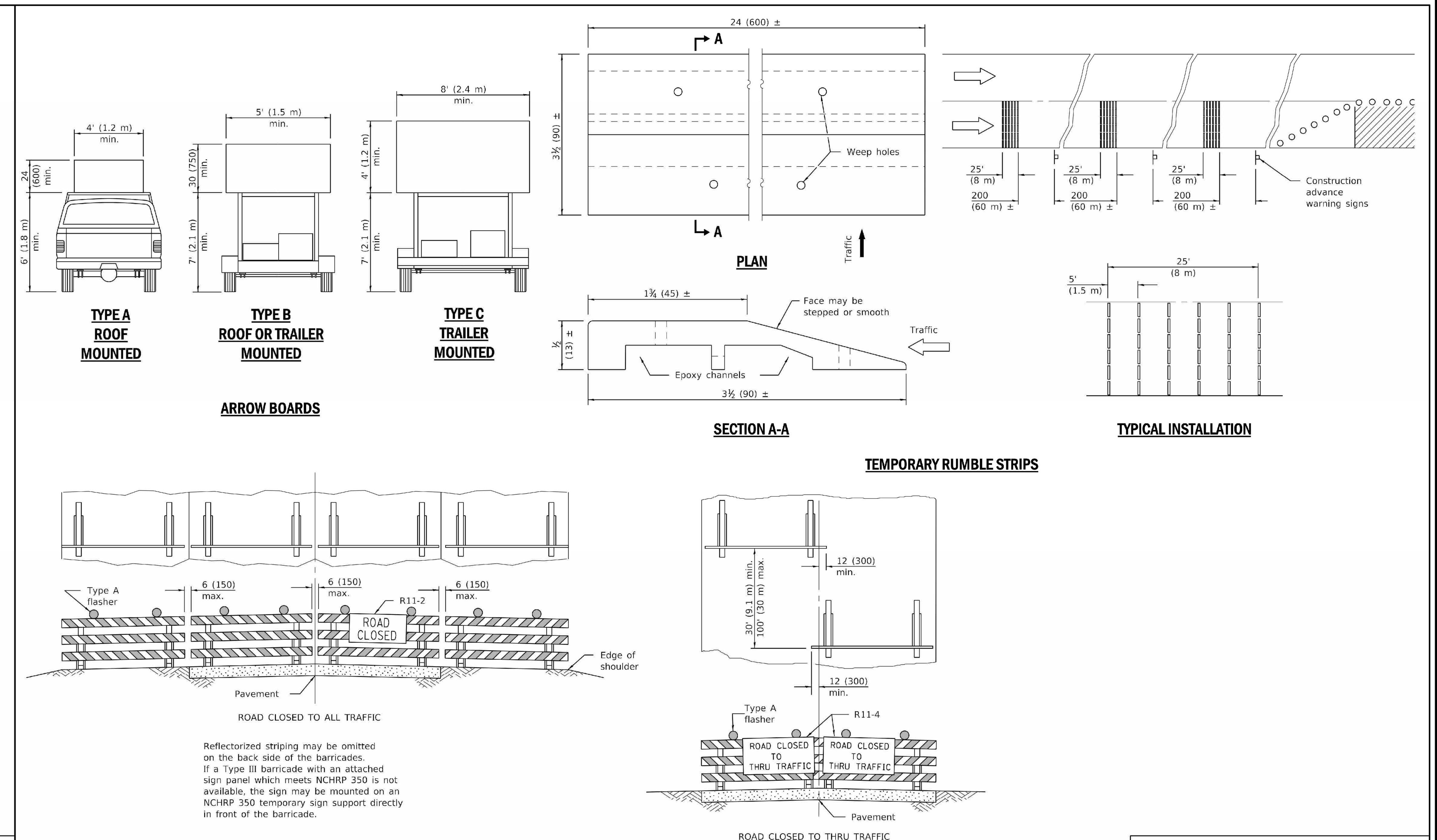
DATE
05/30/2019

SHEET NO.
4 of 18


Warning light (if required)
6' - 12' ** (1.8 m - 3.6 m)
Edge of pavement
Metal or wood post
4' (1.2 m) rural
6' (1.8 m) urban
5' (1.5 m) min. rural
7' (2.1 m) min. urban
Elevation of edge of pavement
5' (1.5 m) min. embedment
POST MOUNTED SIGNS
** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.
Edge of pavement or face of curb
24 - 10' (600 - 3 m)
12 (300) min. ***
Elevation of edge of pavement
SIGNS ON TEMPORARY SUPPORTS
*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.
18x18 (450x450) Orange flags
SIGN (IF SPECIFIED)
8' (2.4 m) min.
HIGH LEVEL WARNING DEVICE
ROAD CONSTRUCTION NEXT X MILES
G20-I104(0)-6036
END CONSTRUCTION
G20-I105(0)-6024
This signing is required for all projects 2 miles (3200 m) or more in length.
ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.
END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).
Dual sign display shall be utilized on multi-lane highways.
WORK LIMIT SIGNING
WORK ZONE
W21-I115(0)-3618
SPEED LIMIT XX
R2-1-3648
PHOTO ENFORCED
R10-I108p-3618 ****
$XXX FINE MINIMUM
R2-I106p-3618
Sign assembly as shown on Standards or as allowed by District Operations.
END WORK ZONE SPEED LIMIT
G20-I103-6036
This sign shall be used when the above sign assembly is used.
HIGHWAY CONSTRUCTION SPEED ZONE SIGNS
**** R10-I108p shall only be used along roadways under the jurisdiction of the State.
MAX WIDTH
XX' XX"
X MILES AHEAD
W12-I103-4848
WIDTH RESTRICTION SIGN
XX'-XX" width and X miles are variable.
8 (200) Federal series C
STOP
20½ (513)
FRONT SIDE
7 (180) Federal series B
SLOW
16 (400)
24 (600)
REVERSE SIDE
6' - 7' (1.8 m - 2.1 m)
FLAGGER TRAFFIC CONTROL SIGN

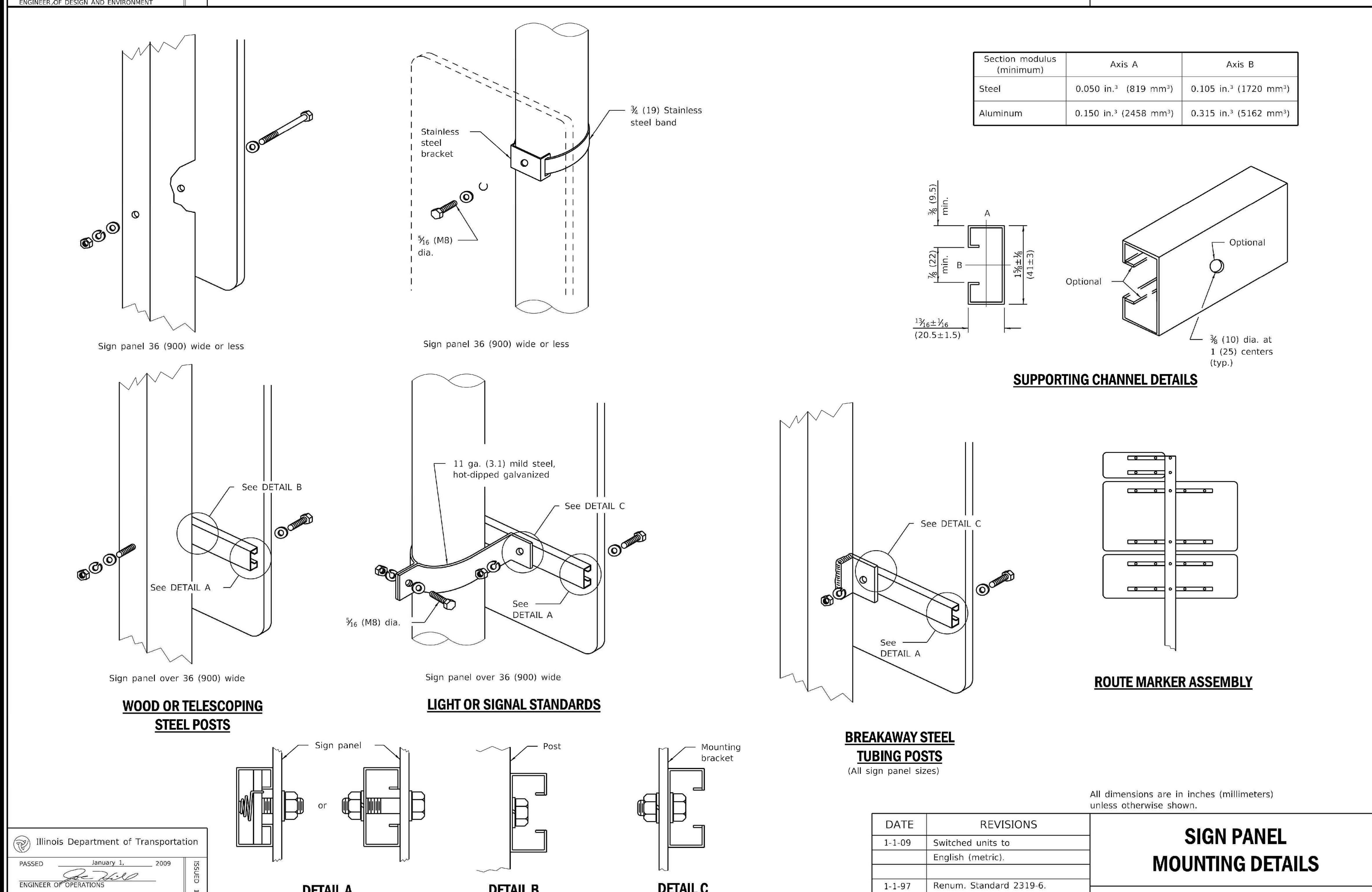
Illinois Department of Transportation
PASSED January 1, 2018 — ENGINEER OF OPERATIONS
APPROVED January 1, 2018 — ENGINEER OF DESIGN AND ENVIRONMENT

TRAFFIC CONTROL DEVICES
(Sheet 2 of 3)
STANDARD 701901-07


4' (1.2 m) min.
TYPE A ROOF MOUNTED
5' (1.5 m) min.
TYPE B ROOF OR TRAILER MOUNTED
8' (2.4 m) min.
TYPE C TRAILER MOUNTED
ARROW BOARDS
24 (600) ±
Weep holes
PLAN
Traffic
Face may be stepped or smooth
Epoxy channels
SECTION A-A
Construction advance warning signs
TYPICAL INSTALLATION
TEMPORARY RUMBLE STRIPS
Type A flasher
6 (150) max.
R11-2
ROAD CLOSED
Edge of shoulder
Pavement
ROAD CLOSED TO ALL TRAFFIC
Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.
TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD
12 (300) min.
R11-4
ROAD CLOSED TO THRU TRAFFIC
ROAD CLOSED TO THRU TRAFFIC
Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

Illinois Department of Transportation
PASSED January 1, 2018 — ENGINEER OF OPERATIONS
APPROVED January 1, 2018 — ENGINEER OF DESIGN AND ENVIRONMENT

TRAFFIC CONTROL DEVICES
(Sheet 3 of 3)
STANDARD 701901-07

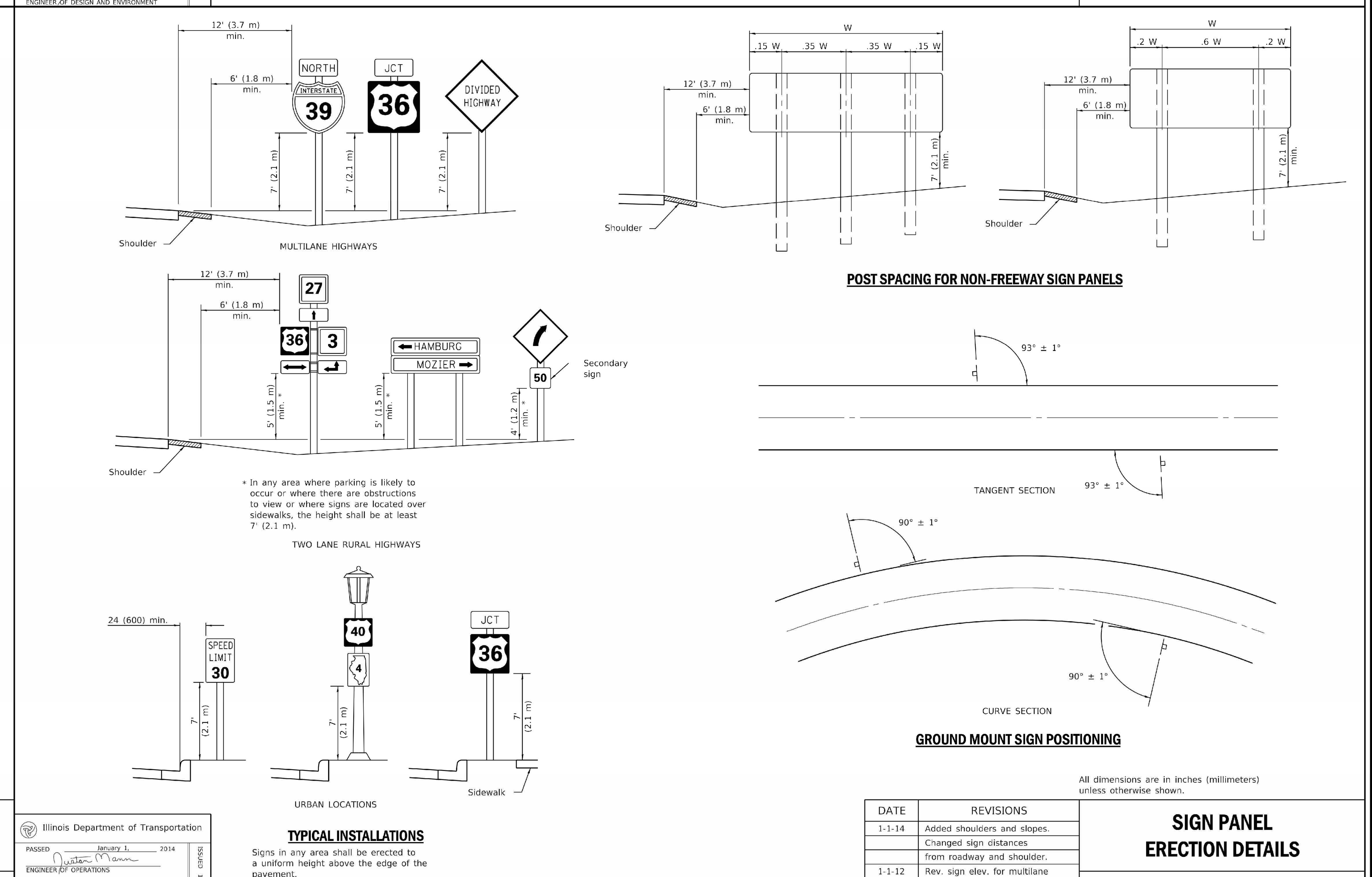

Sign panel 36 (900) wide or less
Stainless steel bracket
¾ (19) Stainless steel band
Sign panel 36 (900) wide or less
Section modulus (minimum) | Axis A | Axis B
Steel | 0.050 in.³ (819 mm³) | 0.105 in.³ (1720 mm³)
Aluminum | 0.150 in.³ (2458 mm³) | 0.315 in.³ (5162 mm³)
Optional
SUPPORTING CHANNEL DETAILS
See DETAIL B
See DETAIL A
Sign panel over 36 (900) wide
WOOD OR TELESCOPING STEEL POSTS
11 ga. (3.1) mild steel, hot-dipped galvanized
See DETAIL C
See DETAIL A
Sign panel over 36 (900) wide
LIGHT OR SIGNAL STANDARDS
See DETAIL C
See DETAIL A
BREAKAWAY STEEL TUBING POSTS
(All sign panel sizes)
ROUTE MARKER ASSEMBLY
Sign panel
or
Post
Mounting bracket
DETAIL A
DETAIL B
DETAIL C

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2319-6.

Illinois Department of Transportation
PASSED January 1, 2009 — ENGINEER OF OPERATIONS
APPROVED January 1, 2009 — ENGINEER OF DESIGN AND ENVIRONMENT

SIGN PANEL MOUNTING DETAILS
STANDARD 720001-01


12' (3.7 m) min.
6' (1.8 m) min.
NORTH INTERSTATE 39
JCT 36
DIVIDED HIGHWAY
7' (2.1 m) min.
Shoulder
MULTILANE HIGHWAYS
27
36 3
HAMBURG
MOZIER
Secondary sign
50
5' (1.5 m) min. *
4' (1.2 m) min.
* In any area where parking is likely to occur or where there are obstructions to view or where signs are located over sidewalks, the height shall be at least 7' (2.1 m).
TWO LANE RURAL HIGHWAYS
24 (600) min.
SPEED LIMIT 30
40
JCT 36
Sidewalk
URBAN LOCATIONS
TYPICAL INSTALLATIONS
Signs in any area shall be erected to a uniform height above the edge of the pavement.
POST SPACING FOR NON-FREEWAY SIGN PANELS
93° ± 1°
TANGENT SECTION
90° ± 1°
CURVE SECTION
GROUND MOUNT SIGN POSITIONING

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Added shoulders and slopes. Changed sign distances from roadway and shoulder.
1-1-12	Rev. sign elev. for multilane hwy's. Revised sign elev. and dist. to curb for rural loc.

Illinois Department of Transportation
PASSED January 1, 2014 — ENGINEER OF OPERATIONS
APPROVED January 1, 2014 — ENGINEER OF DESIGN AND ENVIRONMENT

SIGN PANEL ERECTION DETAILS
STANDARD 720006-04

REVISIONS | DATE

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO.: -

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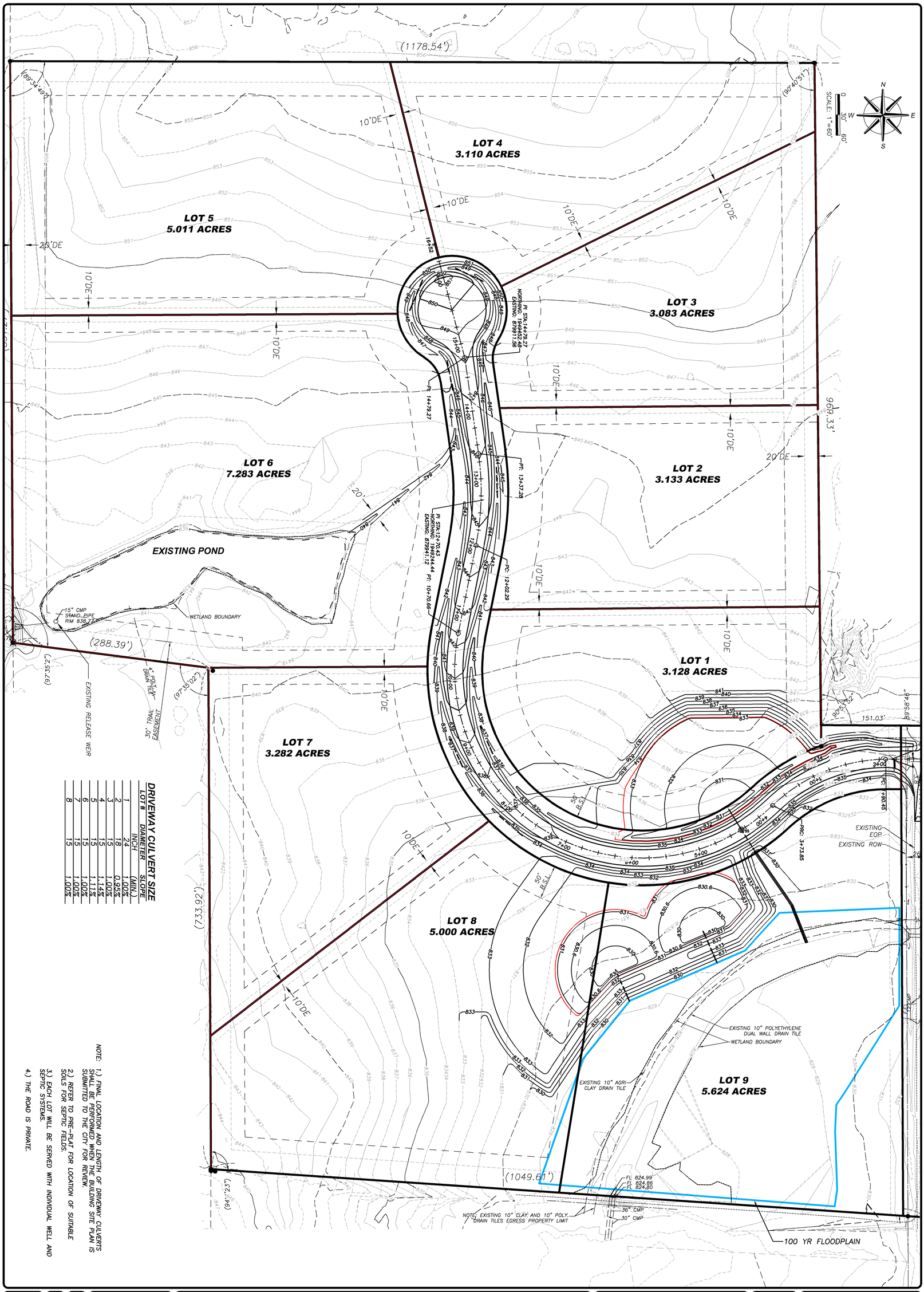
CONSTRUCTION PLANS OF FOWLER FARM ESTATES FOR STEVEN & MICHELE GLASGOW

SHEET TITLE
IDOT DETAILS

JOB NUMBER 2070519
DATE 05/30/2019



DRIVEWAY CULVERT SIZE

LOT #	DIAMETER INCH	SLOPE (MIN.)
1	24	1.00%
2	18	0.92%
3	15	1.00%
4	15	1.14%
5	15	1.11%
6	15	1.00%
7	15	1.00%
8	15	1.00%

NOTE:
1.) FINAL LOCATION AND LENGTH OF DRIVEWAY CULVERTS SHALL BE PERFORMED WHEN THE BUILDING SITE PLAN IS SUBMITTED TO THE CITY FOR REVIEW.
2.) REFER TO PRE-PLAT FOR LOCATION OF SUITABLE SOILS FOR SEPTIC FIELDS.
3.) EACH LOT WILL BE SERVED WITH INDIVIDUAL WELL AND SEPTIC SYSTEMS.
4.) THE ROAD IS PRIVATE.

CONSTRUCTION PLANS
OF
FOWLER FARM ESTATES
FOR
STEVEN & MICHELE GLASGOW

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DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO.: -

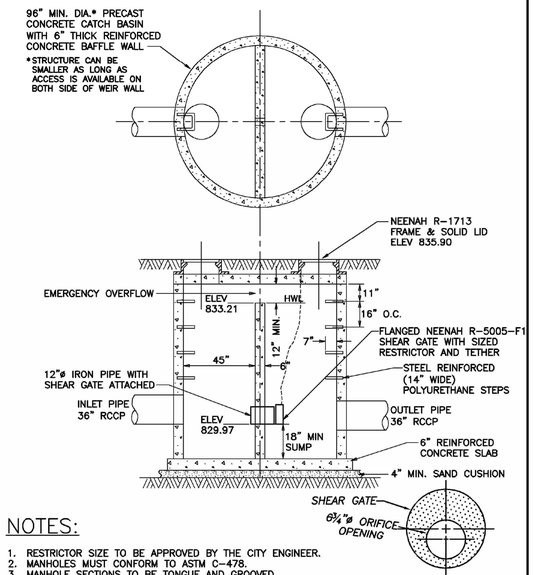
REVISIONS

REVISION	DATE

SHEET TITLE: OVERALL PLAN
JOB NUMBER: 2070519
DATE: 05/30/2019
SHEET NO.: 6 of 18

STA. 4+32

RESTRICTOR STRUCTURE



ORIFICE DETAIL

NOT TO SCALE

NOTES:

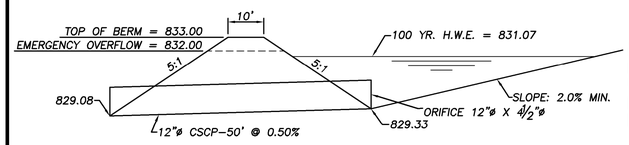
1. RESTRICTOR SIZE TO BE APPROVED BY THE CITY ENGINEER.
2. MANHOLES MUST CONFORM TO ASTM C-478.
3. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
4. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
5. MORTAR ALL PIPE PENETRATIONS INSIDE AND OUTSIDE OF STRUCTURE.
6. IN "SUBMERGED" CONDITIONS, ALL PIPE PENETRATIONS TO BE CORED, RUBBER BOOTED, AND INTERIOR MORTARED.

DATE: 10-25-11

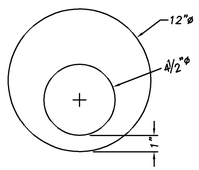
RESTRICTOR STRUCTURE

B-8

STA. 4+32 NORTH DETENTION BASIN RESTRICTOR STRUCTURE DETAIL

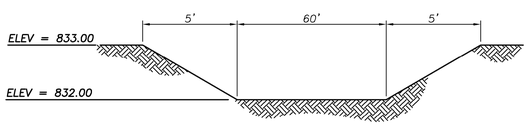


TYPICAL SOUTH DETENTION BASIN BERM DETAIL

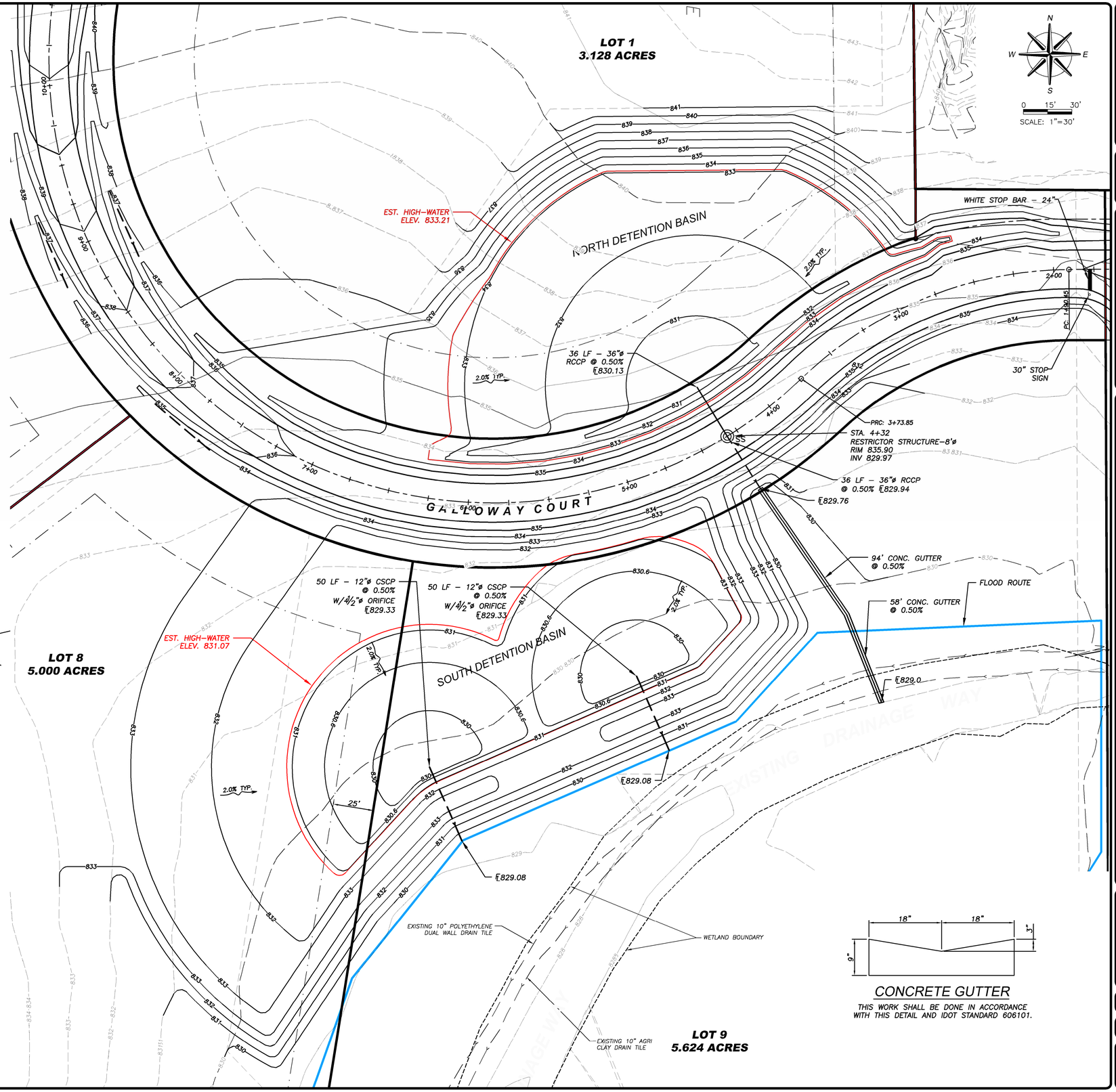


TYP. SOUTH DET. BASIN ORIFICE DETAIL

PLACE 1/4" THICK STEEL ORIFICE PLATE ON UPSTREAM END OF PIPE WHICH EMPTIES THE DETENTION POND



EMERGENCY OVERFLOW CROSS SECTION SOUTH DETENTION BASIN



CONCRETE GUTTER

THIS WORK SHALL BE DONE IN ACCORDANCE WITH THIS DETAIL AND IDOT STANDARD 606101.

REVISIONS

REVISION	DATE

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
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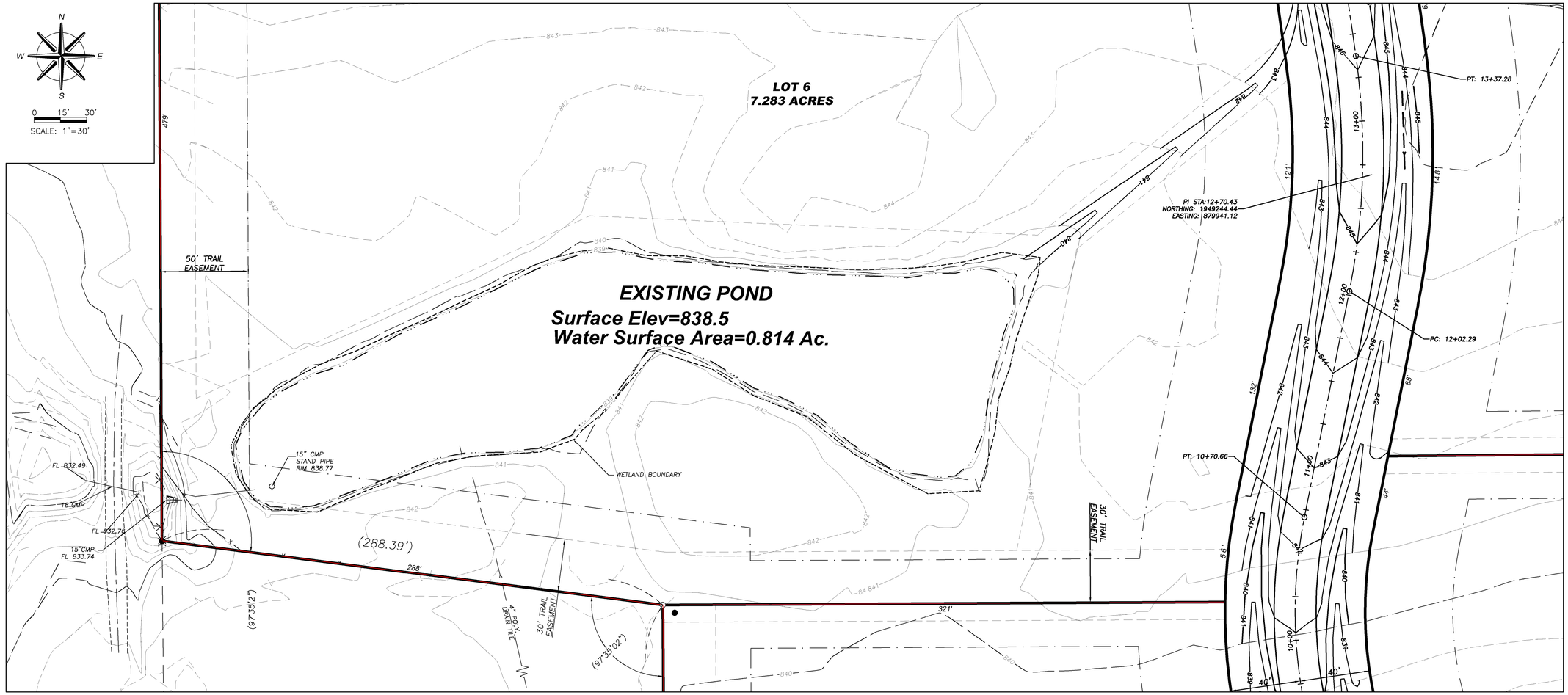
CONSTRUCTION PLANS
OF
FOWLER FARM ESTATES
FOR
STEVEN & MICHELE GLASGOW

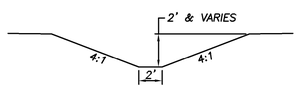
SHEET TITLE
DETENTION BASINS

JOB NUMBER
2070519

DATE
05/30/2019

SHEET NO.
7 of 18





TYPICAL DITCH SECTION
(ACROSS LOT 6 TO WEST POND)

REVISIONS

REVISION	DATE

DESIGNED BY: DAW
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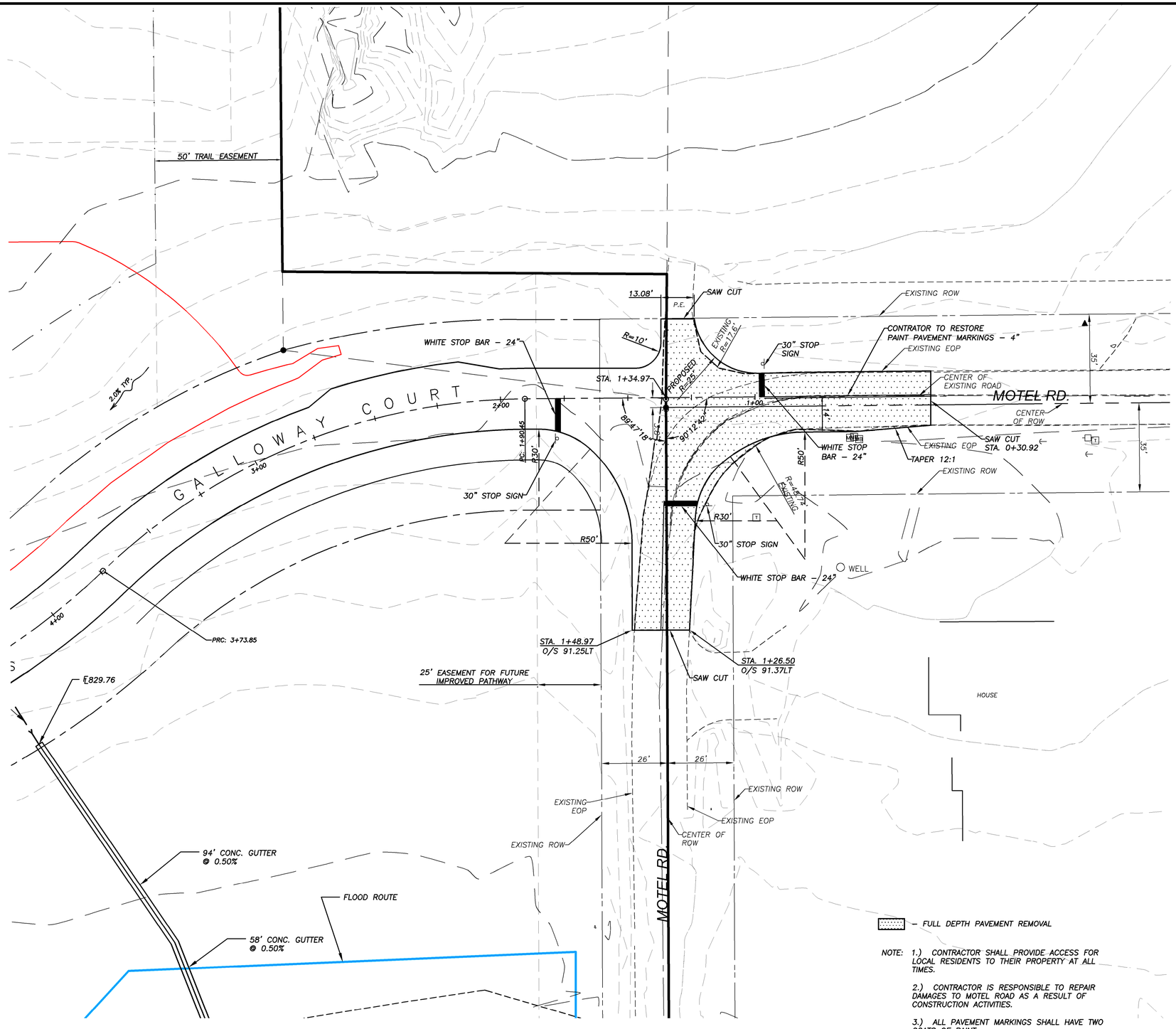
SHEET TITLE
LOT 6
DRAINAGE
BASIN

JOB NUMBER
2070519

DATE
05/30/2019

SHEET NO.
8 of 18



– FULL DEPTH PAVEMENT REMOVAL

NOTE: 1.) CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL RESIDENTS TO THEIR PROPERTY AT ALL TIMES.

2.) CONTRACTOR IS RESPONSIBLE TO REPAIR DAMAGES TO MOTEL ROAD AS A RESULT OF CONSTRUCTION ACTIVITIES.

3.) ALL PAVEMENT MARKINGS SHALL HAVE TWO COATS OF PAINT

REVISIONS

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SHEET TITLE
MOTEL RD. INTER-SECTION

JOB NUMBER
2070519

DATE
05/30/2019

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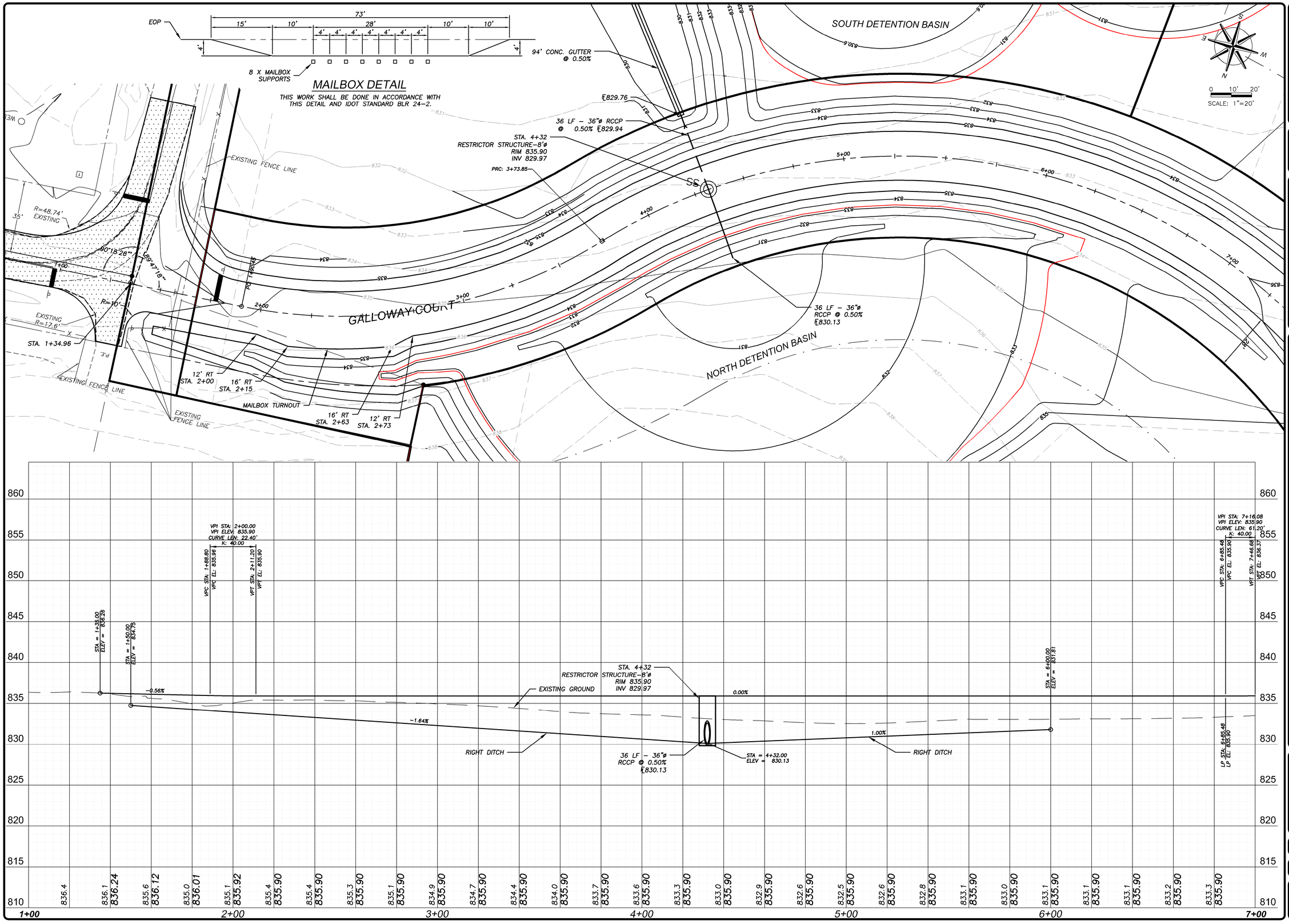

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SHEET TITLE
PLAN & PROFILE

JOB NUMBER
2070519

DATE
05/30/2019

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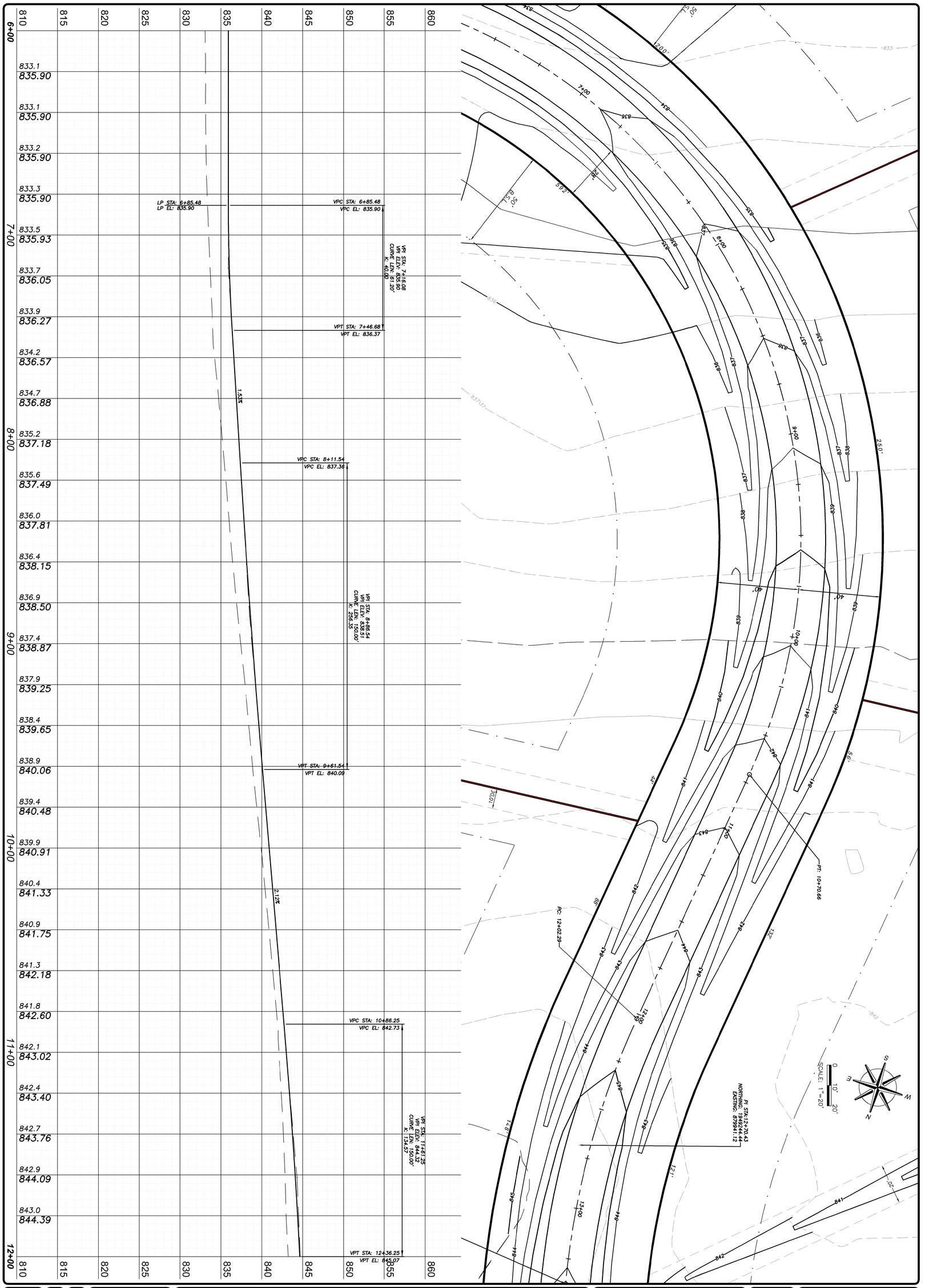

CONSTRUCTION PLANS
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REVISIONS

REVISION	DATE

PI STA:12+70.43
NORTHING: 1949244.44
EASTING: 879941.12

PI: 14+79.27

PC: 12+02.29

PT: 13+37.28

PI STA:14+79.27
NORTHING: 1949452.48
EASTING: 879911.56

CENTER OF
CUL-DE-SAC
STA. 15+50.65

R50'

SCALE: 1"=20'

VPI STA: 11+61.25
VPI ELEV: 844.32
CURVE LEN: 150.00'
K: 134.57

VPC STA: 10+86.25
VPC EL: 842.73

VPT STA: 12+36.25
VPT EL: 845.07

VPI STA: 14+43.98
VPI ELEV: 847.15
CURVE LEN: 150.00'
K: 90.90

VPC STA: 13+68.98
VPC EL: 846.40

VPT STA: 15+18.98
VPT EL: 849.14

STA = 16+01.65
ELEV = 851.30

STA:16+03.65
ELEV:851.12

STA:16+11.86
ELEV:849.16

1.00%

2.65%

11+00	12+00	13+00	14+00	15+00	16+00	17+00
842.4	843.40	844.66	845.71	846.11	846.31	846.51
842.7	843.76	844.09	844.90	845.11	845.31	845.51
842.9	844.09	843.0	844.39	843.2	844.66	843.5	844.90	843.1	845.11	844.0	845.31	844.3	845.51	844.4	845.71	844.3	845.91	844.1	846.11	844.2	846.31	844.5	846.51	844.8	846.76	845.1	847.05	845.5	847.38	846.1	847.76	847.0	848.19	847.8	848.65	848.7	849.16	849.3	849.69	849.8	850.22	850.2	850.75	850.7	851.28	851.3	851.8

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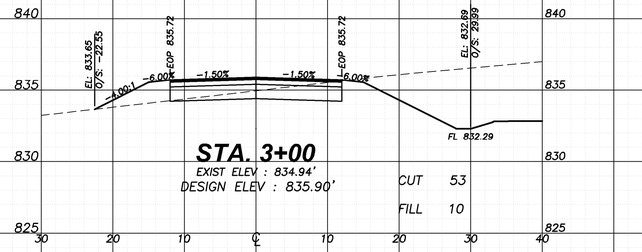
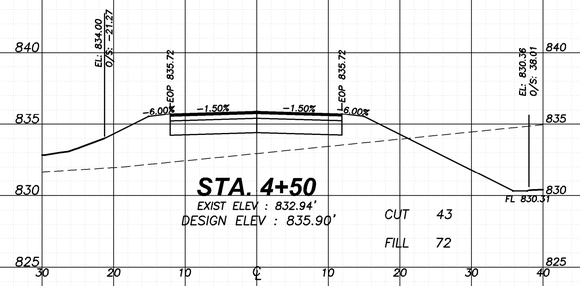
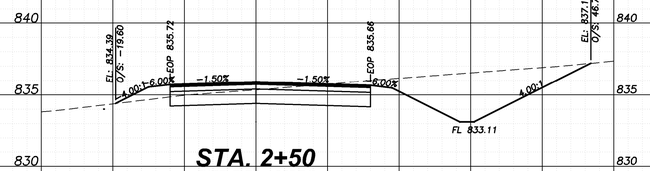
12 of 18



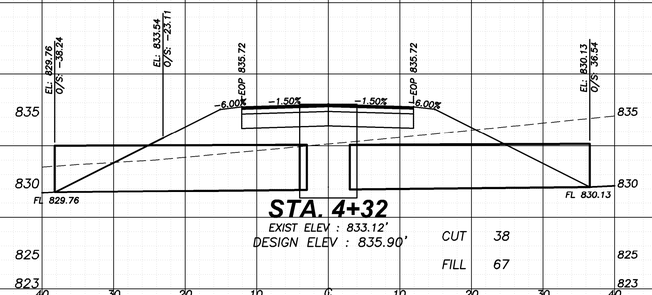
STA. 3+00
EXIST ELEV : 834.94'
DESIGN ELEV : 835.90'
CUT 53
FILL 10



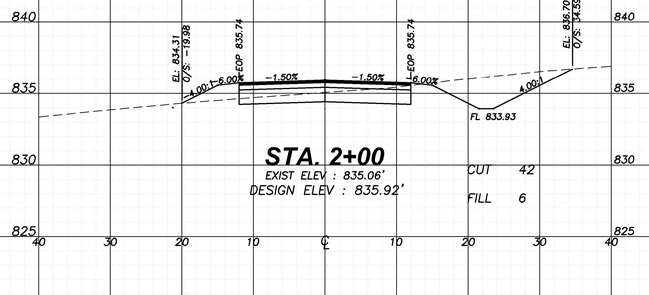
STA. 4+50
EXIST ELEV : 832.94'
DESIGN ELEV : 835.90'
CUT 43
FILL 72



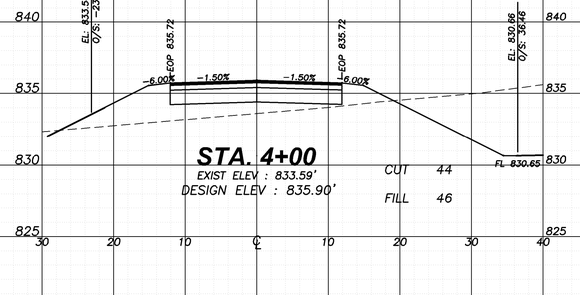
STA. 2+50
EXIST ELEV : 835.34'
DESIGN ELEV : 835.90'
CUT 87
FILL 5



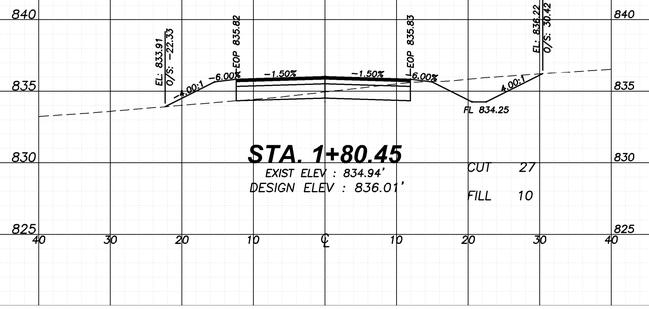
STA. 4+32
EXIST ELEV : 833.12'
DESIGN ELEV : 835.90'
CUT 38
FILL 67



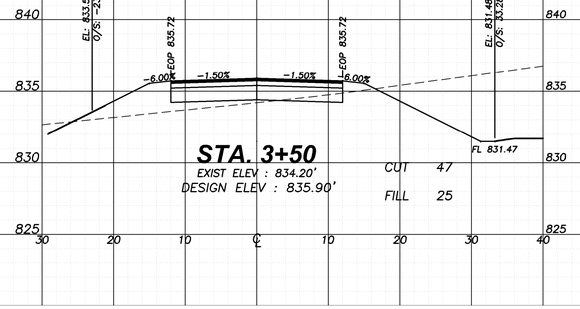
STA. 2+00
EXIST ELEV : 835.06'
DESIGN ELEV : 835.92'
CUT 42
FILL 6



STA. 4+00
EXIST ELEV : 833.59'
DESIGN ELEV : 835.90'
CUT 44
FILL 46



STA. 1+80.45
EXIST ELEV : 834.94'
DESIGN ELEV : 836.01'
CUT 27
FILL 10



STA. 3+50
EXIST ELEV : 834.20'
DESIGN ELEV : 835.90'
CUT 47
FILL 25

REVISIONS		
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CONSTRUCTION PLANS
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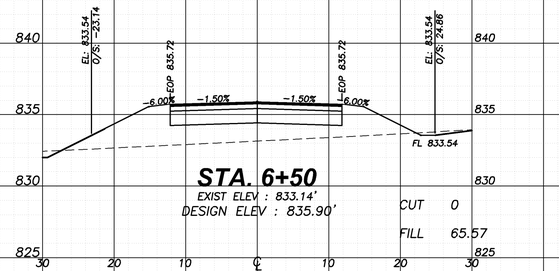
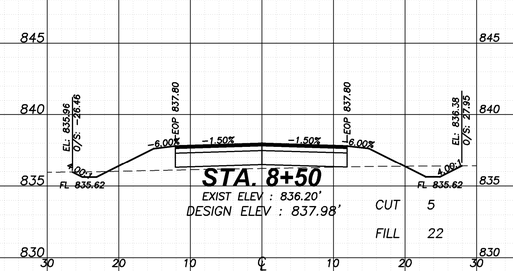
STEVEN & MICHELE GLASGOW

SHEET TITLE
CROSS SECTIONS

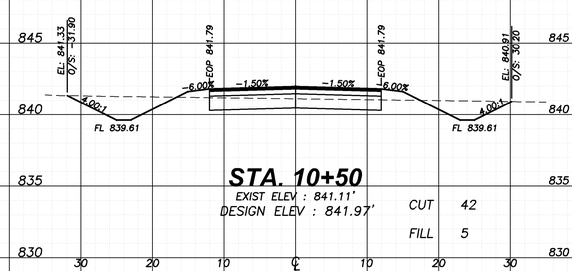
JOB NUMBER 2070519
DATE 05/30/2019
SHEET NO. 13 of 18



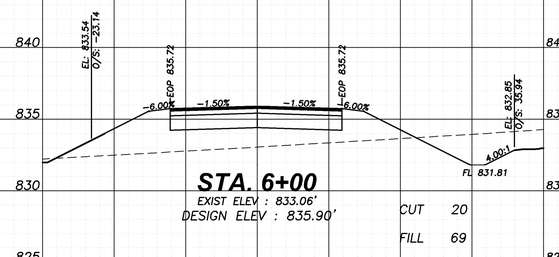
STA. 6+50
EXIST ELEV : 833.14'
DESIGN ELEV : 835.90'
CUT 0
FILL 65.57



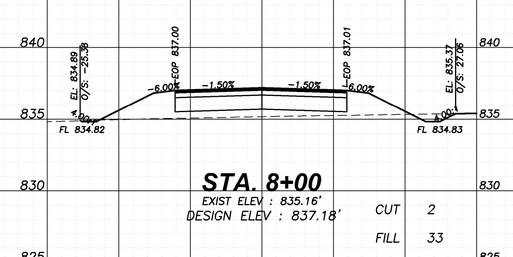
STA. 8+50
EXIST ELEV : 836.20'
DESIGN ELEV : 837.98'
CUT 5
FILL 22



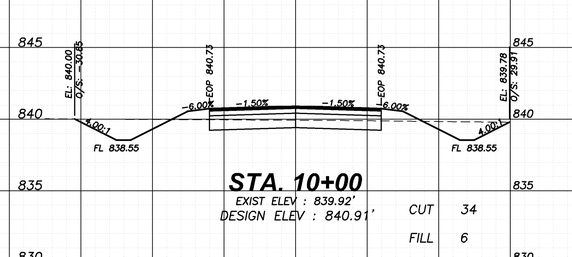
STA. 10+50
EXIST ELEV : 841.11'
DESIGN ELEV : 841.97'
CUT 42
FILL 5



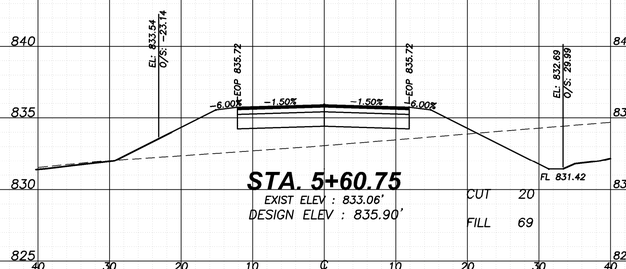
STA. 6+00
EXIST ELEV : 833.06'
DESIGN ELEV : 835.90'
CUT 20
FILL 69



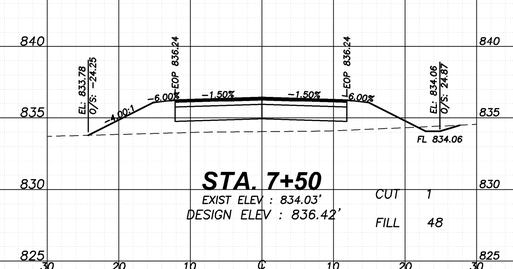
STA. 8+00
EXIST ELEV : 835.16'
DESIGN ELEV : 837.18'
CUT 2
FILL 33



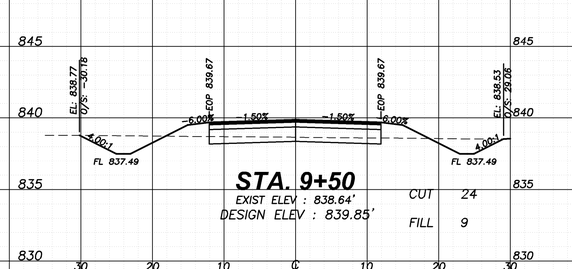
STA. 10+00
EXIST ELEV : 839.92'
DESIGN ELEV : 840.91'
CUT 34
FILL 6



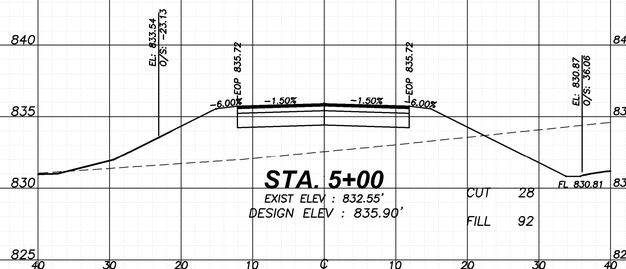
STA. 5+60.75
EXIST ELEV : 833.06'
DESIGN ELEV : 835.90'
CUT 20
FILL 69



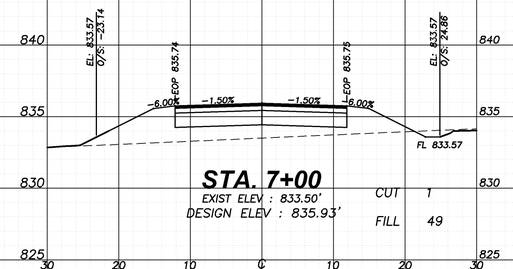
STA. 7+50
EXIST ELEV : 834.03'
DESIGN ELEV : 836.42'
CUT 1
FILL 48



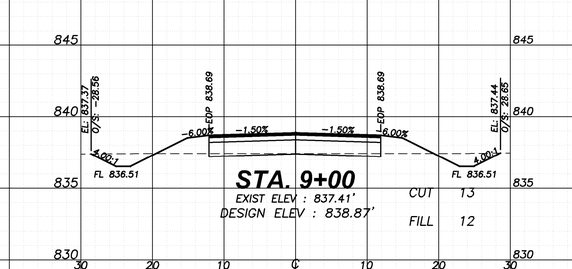
STA. 9+50
EXIST ELEV : 838.64'
DESIGN ELEV : 839.85'
CUT 24
FILL 9



STA. 5+00
EXIST ELEV : 832.55'
DESIGN ELEV : 835.90'
CUT 28
FILL 92



STA. 7+00
EXIST ELEV : 833.50'
DESIGN ELEV : 835.93'
CUT 1
FILL 49



STA. 9+00
EXIST ELEV : 837.41'
DESIGN ELEV : 838.87'
CUT 13
FILL 12

REVISIONS

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JOB NUMBER 2070519

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SHEET NO.
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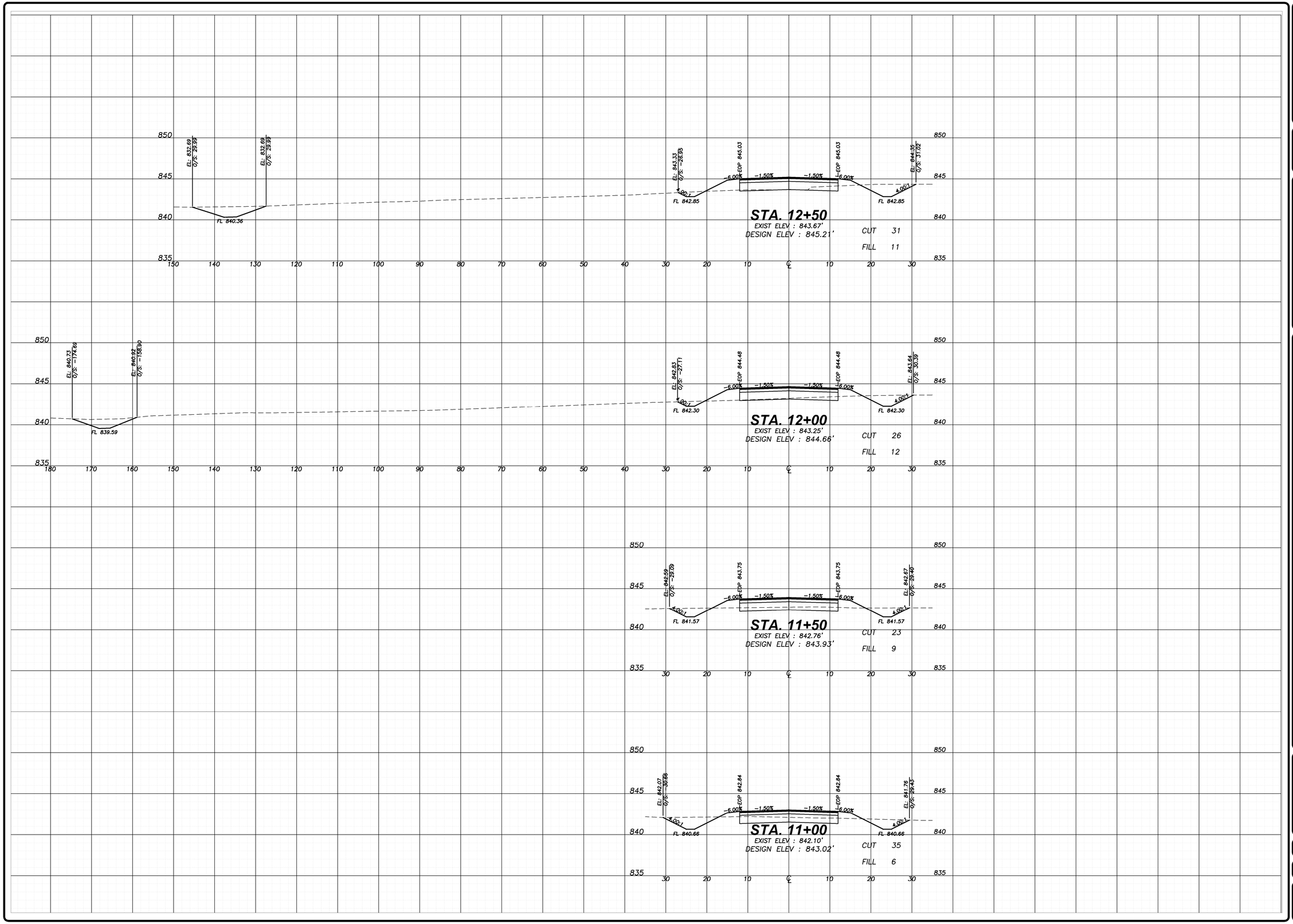

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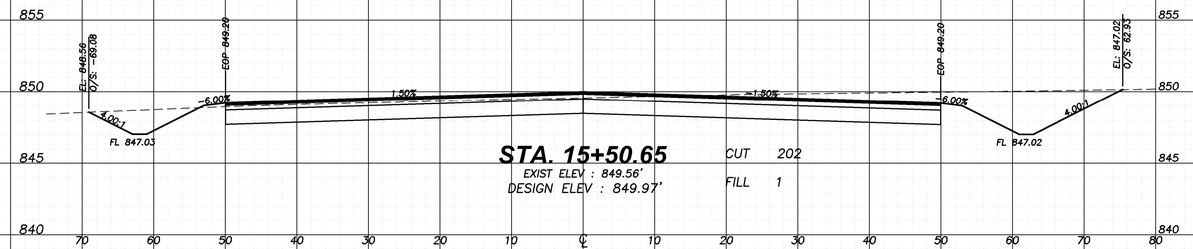
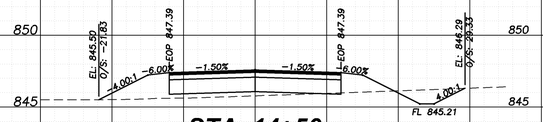
15 of 18



STA. 15+50.65

EXIST ELEV : 849.56'
DESIGN ELEV : 849.97'

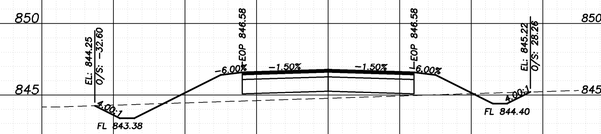
CUT 202
FILL 1



STA. 14+50

EXIST ELEV : 845.77'
DESIGN ELEV : 847.57'

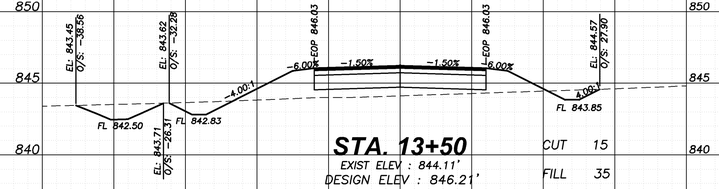
CUT 6
FILL 22



STA. 14+00

EXIST ELEV : 844.77'
DESIGN ELEV : 846.76'

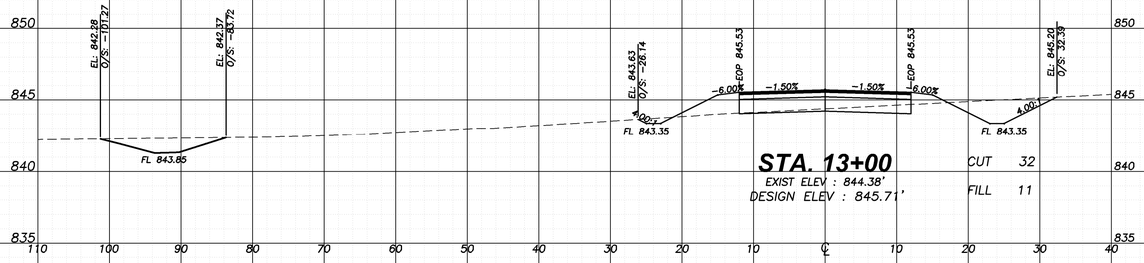
CUT 9
FILL 31



STA. 13+50

EXIST ELEV : 844.11'
DESIGN ELEV : 846.21'

CUT 15
FILL 35



STA. 13+00

EXIST ELEV : 844.38'
DESIGN ELEV : 845.71'

CUT 32
FILL 11

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STEVEN & MICHELE GLASGOW

SHEET TITLE
CROSS SECTIONS

JOB NUMBER
2070519

DATE
05/30/2019

SHEET NO.
16 of 18

SCALE: 1"=60'

LOT 1 3.128 ACRES
LOT 2 3.133 ACRES
LOT 3 3.083 ACRES
LOT 4 3.110 ACRES
LOT 5 5.011 ACRES
LOT 6 7.283 ACRES
LOT 7 3.282 ACRES
LOT 8 5.000 ACRES
LOT 9 5.624 ACRES

CONSTRUCTION ENTRANCE
PERIMETER EROSION BARRIER & TEMP SEEDING
TEMP. STOCKPILE
PERIMETER EROSION BARRIER
INLET PROTECTION
TEMPORARY DITCH CHECK (TYP.)
WETLAND BOUNDARY
100 YR. FLOODPLAIN
EXISTING EOP
EXISTING ROW
PC: 12+02.29
PT: 13+37.28
PI STA:14+79.27
NORTHING: 1949452.48
EASTING: 879911.56
PI STA:12+70.43
NORTHING: 1949244.44
EASTING: 879941.12
PC: 10+90.45
PRC: 15+73.85
PT: 10+70.66
PI: 14+79.27
30' TRAIL EASEMENT

TYP. LOT CONSTRUCTION

NOTES: 1.) CONTRACTOR SHALL INSTALL PERIMETER EROSION CONTROL BARRIER ALONG THE PERIMETER OF THE LOT.

2.) CONTRACTOR SHALL LIMIT DISTURBANCE OF EXISTING SURFACES AND IMPLEMENT BEST MANAGEMENT PRACTICES DURING CONSTRUCTION ON INDIVIDUAL LOTS.

REVISIONS

REVISION	DATE

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO: -

wendler
wendler engineering services, inc.
GROUNDBREAKING SOLUTIONS
engineers surveyors scientists
www.wendlerigs.com ph: 815.288.2261
Illinois Professional Design Firm No. 184-000948

CONSTRUCTION PLANS OF FOWLER FARM ESTATES FOR STEVEN & MICHELE GLASGOW

SHEET TITLE
EROSION CONTROL PLAN

JOB NUMBER 2070519

DATE 05/30/2019

SHEET NO. 17 of 18

I.Site Description:
A. Provide a description of the project location (include latitude and longitude):
SITE ADDRESS: 13251 WALNUT STREET, GENOA, ILLINOIS
LAT: 42.0173 LONG: 88.7174

B. Provide a description of the construction activity which is the subject of this plan:

THE PROJECT WILL INCLUDE THE CONSTRUCTION OF A SUBDIVISION ROADWAY, SITE GRADING, AND DETENTION BASINS.

C. Provide the estimated duration of this project:

THE PROJECT IS ESTIMATED TO BE COMPLETED BY DECEMBER 2019

D. The total area of the construction site is estimated to be 38.7 acres. The total area of the site estimated to be disturbed by excavation, grading or other activities is 4.5 acres.

E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:
SOUTH DETENTION AREA C=0.25 WEST POND C=0.31
NORTH DETENTION AREA C=0.28

F. List all soils found within project boundaries. Include map unit name, slope information, and erosivity:

SOIL NAME	SLOPE	K FACTOR	T FACTOR
HERBRT SILT LOAM (62A)	0-2%	.32	5
MAYVILLE SILT LOAM (193B)	2-5%	.49	5
MAYVILLE SILT LOAM (193C2)	5-10%	.49	5
MILLBROOK SILT LOAM (219A)	0-2%	.32	5
EL PASO SILTY CLAY LOAM (356A)	0-2%	.24	5
KIDAMI LOAM (527C2)	4-6%	.37	5

G. Provide an aerial extent of wetland acreage at the site:
NONE

H. Provide a description of potentially erosive areas associated with this project:
ALL AREAS DISTURBED BY CONSTRUCTION.

I. The following is a description of soil disturbing activities by stages, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):
STAGE 1 - REMOVAL OF EXISTING TOPSOIL, BUILDING DEMOLITION.
STAGE 2 - SITE GRADING AND INSTALLATION OF UNDERGROUND UTILITIES.
STAGE 3 - CURB & GUTTER AND PAVEMENT INSTALLATION.
STAGE 4 - BUILDING CONSTRUCTION
STAGE 5 - FINAL GRADING AND SEEDING.

J. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.

K. Identify who owns the drainage system (municipality or agency) this project will drain into:
CITY OF SYCAMORE, IL.

L. The following is a list of receiving water(s) and the ultimate receiving water(s) for this site. The location of the receiving waters can be found on the erosion and sediment control plans:
SITE DRAINS INTO A TRIBUTARY TO SOUTH BRANCH KISHWAUKEE RIVER .

M. Describe areas of the site that are to be protected or remain undisturbed. These areas may include steep slopes, highly erodible soils, streams, stream buffers, specimen trees, natural vegetation, nature preserves, etc.

Do not disturb areas outside of project limits.

N. The following sensitive environmental resources are associated with this project, and may have the potential to be impacted by the proposed development:
- ☐ *Floodplain*
- ☐ *Wetland Riparian*
- ☐ *Threatened and Endangered Species*
- ☐ *Historic Preservation303(d) Listed receiving waters for suspended solids, turbidity, or siltation*
- ☐ *Receiving waters with Total Maximum Daily Load (TMDL) for sediment, total suspended solids, turbidity or siltation*
- ☐ *Applicable Federal, Tribal, State or Local Programs*
- ☐ *Other*

1. 303(d) Listed receiving waters (fill out this section if checked above):

a. The name(s) of the listed water body, and identification of all pollutants causing impairment:

b. Provide a description of how erosion and sediment control practices will prevent a discharge of sediment resulting from a storm event equal to or greater than a twenty-five (25) year, twenty-four (24) hour rainfall event:

c. Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:

d. Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

2. TMDL (fill out this section if checked above)

a. The name(s) of the listed water body:

b. Provide a description of the erosion and sediment control strategy that will be incorporated into the site design that is consistent with the assumptions and requirements of the TMDL:

c. If a specific numeric waste load allocation has been established that would apply to the project's discharges, provide a description of the necessary steps to meet that allocation:

O. The following pollutants of concern will be associated with this construction project:
- ☒ *Soil Sediment*
- ☒ *Concrete*
- ☒ *Concrete Truck Waste*
- ☒ *Concrete Curing Compounds*
- ☒ *Solid Waste Debris*
- ☒ *Paints*
- ☒ *Solvents*
- ☒ *Fertilizers / Pesticides*
- ☒ *Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids)*
- ☒ *Antifreeze / Coolants*
- ☒ *Waste water from cleaning construction equipment*
- ☐ *Other (specify)*
- ☐ *Other (specify)*
- ☐ *Other (specify)*
- ☐ *Other (specify)*
- ☐ *Other (specify)*

II.Controls:
This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the Contractor will be responsible for its implementation as indicated. The Contractor shall provide to the Owner a plan for the implementation of the measures indicated. The Contractor, and subcontractors, will notify the Owner of any proposed changes, maintenance, or modifications to keep construction activities compliant with the Permit ILR10. Each such Contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

A. Erosion and Sediment Controls

*1. **Stabilized Practices:** Provided below is a description of interim and permanent stabilization practices, including site specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(A)(1)(a) and II(A)(3), stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven (7) days after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of fourteen (14) or more calendar days.Where the initiation of stabilization measures by the seventh day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.*

The following stabilization practices will be used for this project:
- ☒ *Preservation of Mature Vegetation*
- ☒ *Vegetated Buffer Strips*
- ☒ *Protection of Trees*
- ☒ *Temporary Erosion Control Seeding*
- ☐ *Temporary Turf (Seeding, Class 7)*
- ☐ *Temporary Mulching*
- ☒ *Permanent Seeding*
- ☒ *Erosion Control Blanket / Mulching*
- ☐ *Sodding*
- ☐ *Geotextiles*
- ☐ *Other (specify)*
- ☐ *Other (specify)*
- ☐ *Other (specify)*
- ☐ *Other (specify)*

Describe how the stabilization practices listed above will be utilized during construction:

The contractor will perform this work in accordance with the Standard Specifications for Road & Bridge construction, Adopted by IDOT and provisions included in NPDES Permit No. ILR10 issued by the IEPA for storm water discharges from construction site activity.

Describe how the stabilization practices listed above will be utilized after construction activities have been completed:

THE OWNER OR HIS REPRESENTATIVE WILL CONTINUE TO MONITOR THE PROJECT LIMITS AND WILL PURSUE CORRECTIVE MEASURES, IF NECESSARY.

*2. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.*

The following structural practices will be used for this project:

Perimeter Erosion Barrier	Rock Outlet Protection
Temporary Ditch Check	Riprap
Storm Drain Inlet Protection	Gabions
Sediment Trap	Slope Mattress
Temporary Pipe Slope Drain	Retaining Walls
Temporary Sediment Basin	Slope Walls
Temporary Stream Crossing	Concrete Revetment Mats
Stabilized Construction Exits	Level Spreaders
Turf Reinforcement Mats	Other (specify)
Permanent Check Dams	Other (specify)
Permanent Sediment Basin	Other (specify)
Aggregate Ditch	Other (specify)
Paved Ditch	Other (specify)

Describe how the structural practices listed above will be utilized during construction:

THE CONTRACTOR WILL PERFORM THIS WORK IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, ADOPTED BY IDOT AND PROVISIONS INCLUDED IN THE STORM WATER RUNOFF PERMIT DURING CONSTRUCTION.

Describe how the structural practices listed above will be utilized after construction activities have been completed:

THE OWNER/DEVELOPER WILL CONTINUE TO MONITOR THE PROJECT LIMITS AND WILL PURSUE CORRECTIVE MEASURES, IF NECESSARY

*3. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.*

a. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

The practices selected for implementation were determined on the basis of the technical guidance in Chapter 41 (Construction Site Storm Water Pollution Control) of the IDOT Bureau of Design and Environment Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the technical basis for such decisions will be explained below.

b. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of storm water management controls:
- *Refer to Erosion Control Sheet.*

*4. **Approved State or Local Laws:***
The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are upon submittal of an NOI, to be authorized to discharge under the Permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

*5. **Contractor Required Submittals:** Prior to conducting any professional services at the site covered by this plan, the Contractor and each subcontractor responsible for compliance with the permit shall submit to the Owner a Contractor Certification Statement, BDE 2342a.*

a. The Contractor shall provide a construction schedule containing an adequate level of detail to show major activities with implementation of pollution prevention BMPs, including the following items:
- *Approximate duration of the project, including each stage of the project*
- *Rainy season, dry season, and winter shutdown dates*
- *Temporary stabilization measures to be employed by contract phases*
- *Mobilization timeframe*
- *Mass clearing and grubbing/roadside clearing dates*
- *Deployment of Erosion Control Practices*
- *Deployment of Sediment Control Practices (including stabilized construction entrances/exits)*
- *Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)*
- *Paving, saw-cutting, and any other pavement related operations*
- *Major planned stockpiling operations*
- *Timeframe for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.*
- *Permanent stabilization activities for each area of the project*

b. The Contractor and each subcontractor shall provide, as an attachment to their signed Contractor Certification Statement, a discussion of how they will comply with the requirements of the permit in regard to the following items and provide a graphical representation showing location and type of BMPs to be used when applicable:

- *Vehicle Entrances and Exits - Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.*
- *Material Delivery, Storage and Use - Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored for this project.*
- *Stockpile Management - Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.*
- *Waste Disposal - Discuss methode of waste disposal that will be used for this project.*
- *Spill Prevention and Control - Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.)*
- *Concrete Residuals and Washout Wastes - Discuss the location and type of concrete washout facilities to be used on this project and how they will be signed and maintained.*
- *Litter Management - Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).*
- *Vehicle and Equipment Fueling - Identify equipment fueling locations for this project and what BMPs will be used to ensure containment and spill prevention.*
- *Vehicle and Equipment Cleaning and Maintenance - Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.*
- *Additional measures indicated in the plan.*

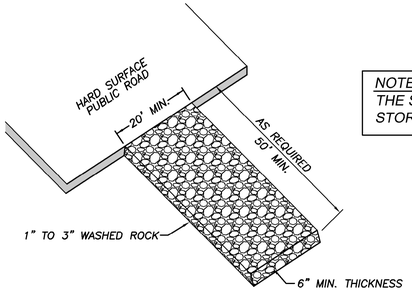
III.Maintenance:
When requested by the Contractor, the Owner will provide general maintenance guides to the Contractor for the practices associated with this project. The following additional procedures will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. It will be the Contractor's responsibility to attain maintenance guidelines for any manufactured BMPs which are to be installed and maintained per manufacture's specifications.

IV.Inspections:
Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site using IDOT Storm Water Pollution Prevention Plan Erosion Control Inspection Report (BC 2259). Such inspections shall be conducted at least once every seven (7) calendar days and within twenty-four (24) hours of the end of a storm that is 0.5 inch or greater or equivalent snowfall.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Owner shall notify the appropriate IEPA Field Operations Section office by email at: epa.swnoncomp@illinois.gov , telephone or fax within twenty-four (24) hours of the incident. The Owner shall then complete and submit an "Incidence of Non-Compliance" (ION) report for the identified violation within five (5) days of the incident. The Owner shall use forms provided by IEPA and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of non-compliance shall be signed by a responsible authority in accordance with Part VI. G of the Permit ILR10.

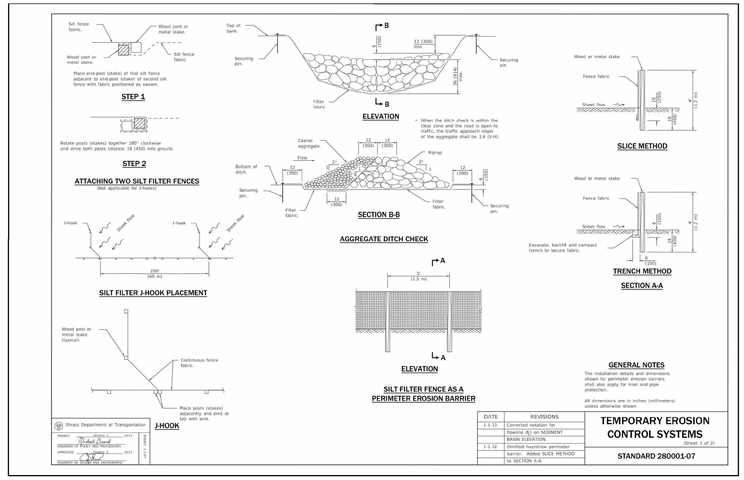
The Incidence of Non-Compliance shall be mailed to the following address:Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

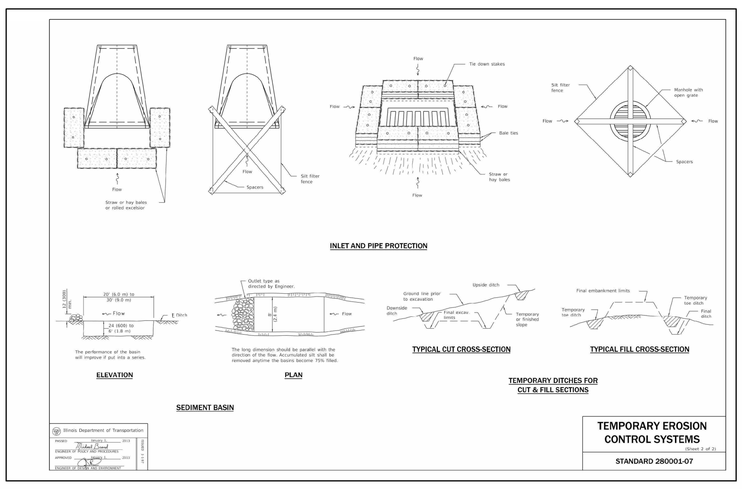
V. Failure to Comply:
Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of a National Pollutant Discharge Elimination System/Erosion and Sediment Control Deficiency Deduction against the Contractor and/or penalties under the Permit ILR10 which could be passed on to the Contractor.



STABILIZED CONSTRUCTION ENTRANCE

NOTE:
THE SWPPP & NOI PERMIT SHALL BE STORED ON SITE IN A WATER TIGHT BOX.





This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered 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.

STEVEN GLASGOW & MICHELE GLASGOW
Owners Name

Owners Signature

Owners Title

Date

This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

In addition, I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project; I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

☒ Contractor

☐ Sub-Contractor

Print Name

Signature

Title

Date

Name of Firm

Telephone

REVISIONS

REVISION	DATE

DESIGNED BY: DAW
DRAWN BY: REB
SURVEYED BY: -
BOOK NO.: -

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