

Gerald R. Ford International Airport

Grand Rapids, Michigan

Taxilane L Construction

PROJECT NUMBER C-416

ADDENDUM #4

SEPTEMBER 15, 2025

To All Holders of Contract Documents:

Your attention is directed to the following interpretations of, changes in, and additions to the Contract Documents for the above-referenced project. All bid adjustments caused by the content of the Addendum shall include the cost of materials and labor related to the items herein and for any subsequent adjustments to the contract documents to accommodate the work stated herein.

Contractors shall be responsible for the full context of changes, interpretations, and clarifications to both the drawings and specifications and shall take the same into consideration when preparing their bids. Indicate receipt of this Addendum in the space provided within the Proposal.

GENERAL

1. Addendum No. 4 addresses miscellaneous questions and includes a pavement geometry change. Updated electronic bid sheets have been provided on the Onedrive link.

QUESTIONS AND ANSWERS

Q: The specifications for *D-751 Manholes, Catch Basins, Inlets and Inspection Holes* dictates that the structures are to be made to ASTM C478. Detail B3 on CU501 calls for aircraft rated structures. My thought is that you would want aircraft rated structures. Please advise.

A: Structures shall be aircraft rated.

Q: Note #15 on Sheet GC102 shows the temp fence/barriers needing to be relocated as part of that work. To do that it is our position that entirely new temp fence and barriers will need to be furnished, placed, and inspected/approved by TSA all of which will need to happen before the other set of original temp fence can be taken down. We do not believe relocating is an option as it will be the AOA security fence and will leave a breach during the relocation. Is the intent to adjust the QTY of the temp fence to accommodate this?

A: The quantity of temporary fence has been updated to accommodate this.

SPECIFICATIONS

1. **REPLACE** Bid Sheets, in its entirety with the **REVISED** Bid Sheets provided with this addendum as a separate document.

DRAWINGS

1. **REPLACE** Drawing GI003 with **REVISED** GI003 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
2. **REPLACE** Drawing GI004 with **REVISED** GI004 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
3. **REPLACE** Drawing GC100 with **REVISED** GC100 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
4. **REPLACE** Drawing GC101 with **REVISED** GC101 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
5. **REPLACE** Drawing GC102 with **REVISED** GC102 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
6. **REPLACE** Drawing CE101 with **REVISED** CE101 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
7. **REPLACE** Drawing CE102 with **REVISED** CE102 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
8. **REPLACE** Drawing CS101 with **REVISED** CS101 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
9. **REPLACE** Drawing CS102 with **REVISED** CS102 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
10. **REPLACE** Drawing CG101 with **REVISED** CG101 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
11. **REPLACE** Drawing CG102 with **REVISED** CG102 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
12. **REPLACE** Drawing CP101 with **REVISED** CP101 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
13. **REPLACE** Drawing CP102 with **REVISED** CP102 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
14. **REPLACE** Drawing CP502 with **REVISED** CP502 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.

15. **REPLACE** Drawing CU101 with **REVISED** CU101 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
16. **REPLACE** Drawing CU102 with **REVISED** CU102 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
17. **REPLACE** Drawing CU501 with **REVISED** CU501 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
18. **REPLACE** Drawing XM101 with **REVISED** XM101 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
19. **REPLACE** Drawing XM102 with **REVISED** XM102 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.
20. **REPLACE** Drawing XM501 with **REVISED** XM501 sheet provided with this addendum as a separate document. Revisions are denoted with a cloud referenced to Revision 4 dated SEPTEMBER 12, 2025.

END OF ADDENDUM NO. 4

C&S ENGINEERS, INC.

Attachment A: Bid Sheets

(Replaces Proposal-3 to Proposal-8 in IFB Specifications Document)

GERALD R. FORD INTERNATIONAL AIRPORT

TAXILANE L CONSTRUCTION

BIDDERS ARE REQUIRED TO COMPLETE THE UNIT PRICE FIELD.
 ALL OTHER FIELDS WILL BE AUTOMATICALLY CALCULATED.
 AN EXCEL FILE WILL BE PROVIDED AND THESE SHEETS CAN BE FILLED OUT IN EXCEL OR HARD COPY.
 ONLY HARD COPIES SHALL BE RETURNED WITH YOUR PROPOSAL.

ITEM NO	SPEC	DESCRIPTION	QUANTITY SCHEDULE 1	QUANTITY SCHEDULE 2	QUANTITY GRAND TOTAL	UNITS	UNIT PRICE	TOTAL SCHEDULE 1*	TOTAL SCHEDULE 2*	GRAND TOTAL
1	C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	-	1	LS		\$ -	\$ -	\$ -
2	C-102	INSTALLATION AND REMOVAL OF STORM DRAIN INLET PROTECTION	6	-	6	EA		\$ -	\$ -	\$ -
3	C-102	INSTALLATION AND REMOVAL OF SILT FENCE	8,200	-	8,200	LF		\$ -	\$ -	\$ -
4	C-102	INSTALLATION AND REMOVAL OF STABILIZED CONSTRUCTION ENTRANCE	2	-	2	EACH		\$ -	\$ -	\$ -
5	C-105	MOBILIZATION (10% MAX.)	1	-	1	LS		\$ -	\$ -	\$ -
6	C-105	FIELD OFFICE	1	-	1	LS		\$ -	\$ -	\$ -
7	C-105	FIELD OFFICE EQUIPMENT	1	-	1	LS		\$ -	\$ -	\$ -
8	CX-106	SAFETY, SECURITY AND MAINTENANCE OF TRAFFIC	1	-	1	LS		\$ -	\$ -	\$ -
9	CX-106	INSTALLATION AND REMOVAL OF TEMPORARY FENCE ON CONCRETE BARRIER	1,550	-	1,550	LF		\$ -	\$ -	\$ -
10	CX-106	TEMPORARY HAUL ROUTE	400	-	400	SY		\$ -	\$ -	\$ -
11	P-101	CONCRETE PAVEMENT REMOVAL	400	-	400	SY		\$ -	\$ -	\$ -
12	P-101	ASPHALT PAVEMENT REMOVAL	5,000	-	5,000	SY		\$ -	\$ -	\$ -
13	P-101	REMOVAL OF PIPE ALL TYPES AND SIZES	660	-	660	LF		\$ -	\$ -	\$ -
14	P-101	REMOVAL OF STRUCTURE	3	-	3	EACH		\$ -	\$ -	\$ -
15	P-101	REMOVAL OF WATER MAIN	300	-	300	LF		\$ -	\$ -	\$ -

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16	P-101	REMOVAL OF LIGHT POLE AND FOUNDATION	2	-	2	EACH		\$ -	\$ -	\$ -
17	P-101	SPALL REPAIR	50	-	50	SF		\$ -	\$ -	\$ -
18	P-152	UNCLASSIFIED EXCAVATION	13,600	-	13,600	CY		\$ -	\$ -	\$ -
19	P-152	BORROW EXCAVATION (OBTAINED ONSITE)	14,600	-	14,600	CY		\$ -	\$ -	\$ -
20	P-152	BORROW EXCAVATION (OBTAINED OFFSITE)	14,600	-	14,600	CY		\$ -	\$ -	\$ -
21	P-154	SUBBASE COURSE	5,500	-	5,500	CY		\$ -	\$ -	\$ -
22	P-209	CRUSHED AGGREGATE BASE COURSE	3,700	-	3,700	CY		\$ -	\$ -	\$ -
23	P-304	CEMENT-TREATED BASE COURSE (6")	11,700	-	11,700	SY		\$ -	\$ -	\$ -
24	P-501	CONCRETE PAVEMENT (15")	3,770	1,130	4,900	CY		\$ -	\$ -	\$ -
25	P-501	CONCRETE PAVEMENT (10")	250	-	250	CY		\$ -	\$ -	\$ -
26	P-620	MARKING	18,100	-	18,100	SF		\$ -	\$ -	\$ -
27	P-620	MARKING REMOVAL	4,800	-	4,800	SF		\$ -	\$ -	\$ -
28	P-620	REFLECTIVE MEDIA	800	-	800	LB		\$ -	\$ -	\$ -
29	D-701	36 INCH RCP CLASS IV	280	-	280	LF		\$ -	\$ -	\$ -
30	D-701	30 INCH RCP CLASS IV	250	-	250	LF		\$ -	\$ -	\$ -

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31	D-705	6 INCH PERFORATED SMOOTH INTERIOR CORRUGATED PVC COMPLETE, INCLUDING POROUS BACKFILL AND FILTER FABRIC	3,900	-	3,900	LF		\$ -	\$ -	\$ -
32	D-705	6 INCH NON-PERFORATED SMOOTH INTERIOR CORRUGATED PVC COMPLETE, INCLUDING POROUS BACKFILL AND FILTER FABRIC	420	-	420	LF		\$ -	\$ -	\$ -
33	D-751	CLEANOUTS	16	-	16	EACH		\$ -	\$ -	\$ -
34	D-751	CATCH BASINS	3	-	3	EACH		\$ -	\$ -	\$ -
35	D-751	MODIFICATION OF EXISTING STRUCTURE	1	-	1	EACH		\$ -	\$ -	\$ -
36	DX-800	SOFT DIGS	3	-	3	DAYS		\$ -	\$ -	\$ -
37	F-162	REMOVE FENCE AND GATE	630	-	630	LF		\$ -	\$ -	\$ -
38	F-162	CHAIN-LINK FENCE	3,800	-	3,800	LF		\$ -	\$ -	\$ -
39	L-110	FIBER OPTIC CABLE AND CONDUIT LOWERING	220	-	220	LF		\$ -	\$ -	\$ -
40	L-115	ELECTRICAL HANDHOLE	1	-	1	EA		\$ -	\$ -	\$ -
41	L-115	ADJUST ELECTRICAL STRUCTURE TO GRADE	2	-	2	EA		\$ -	\$ -	\$ -
42	L-125	REMOVE TAXIWAY EDGE LIGHT	8	-	8	EA		\$ -	\$ -	\$ -
43	L-125	REMOVE TAXIWAY GUIDANCE SIGN	1	-	1	EA		\$ -	\$ -	\$ -
44	L-125	RETROREFLECTIVE MARKER	21	-	21	EACH		\$ -	\$ -	\$ -
45	L-125	TAXIWAY GUIDANCE SIGN	2	-	2	EACH		\$ -	\$ -	\$ -

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46	L-125	TAXIWAY ENDING MARKER	1	-	1	EACH		\$ -	\$ -	\$ -
47	L-125	STAKE MOUNTED GUIDANCE SIGN	4	-	4	EACH		\$ -	\$ -	\$ -
48	T-901	SEEDING	18	-	18	ACRE		\$ -	\$ -	\$ -
49	T-905	TOPSOIL (OBTAINED ONSITE OR REMOVED FROM STOCKPILE)	13,500	-	13,500	CY		\$ -	\$ -	\$ -
50	T-908	MULCHING	18	-	18	ACRE		\$ -	\$ -	\$ -
51	4.3.001	WATER MAIN, RESTRAINED DI, CL56 12 INCH	300	-	300	LF		\$ -	\$ -	\$ -
52	4.3.013	VALVE AND BOX 12 INCH	4	-	4	EACH		\$ -	\$ -	\$ -
53	4.3.018	TEE 12 INCH BY 12 INCH BY 12 INCH	2	-	2	EACH		\$ -	\$ -	\$ -
54	4.3.021	HORIZONTAL BEND 45 DEGREE 12 INCH	4	-	4	EACH		\$ -	\$ -	\$ -
55	4.3.021	VERTICAL BEND 45 DEGREE 12 INCH	4	-	4	EACH		\$ -	\$ -	\$ -
56	4.3.023	PLUG, 12 INCH	2	-	2	EACH		\$ -	\$ -	\$ -
TOTAL								\$ -	\$ -	\$ -

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LOCALLY FUNDED ADD-ON NO. 1										
1	C-105	MOBILIZATION (6% MAX)	1	-	1	LS			\$ -	
2	CX-106	SAFETY, SECURITY AND MAINTENANCE OF TRAFFIC	1	-	1	LS			\$ -	
3	P-101	CONCRETE PAVEMENT REMOVAL	2,100	-	2,100	SY			\$ -	
4	P-101	CONCRETE SPALL REPAIR	100	-	100	SF			\$ -	
5	P-101	REMOVAL OF PIPE ALL TYPES AND SIZES	150	-	150	LF			\$ -	
6	P-152	UNCLASSIFIED EXCAVATION	850	-	850	CY			\$ -	
7	P-209	BASE COURSE	450	-	450	CY			\$ -	
8	P-304	CEMENT TREATED BASE 10"	2,000	-	2,000	SY			\$ -	
9	P-501	CEMENT CONCRETE PAVEMENT 14"	780	-	780	CY			\$ -	
10	D-702	REMOVE SLOTTED PIPE DRAIN	480	-	480	LF			\$ -	
11	D-702	18 INCH SLOTTED PIPE DRAIN	490	-	490	LF			\$ -	
12	D-751	MODIFICATION OF EXISTING STRUCTURE	1	-	1	EACH			\$ -	
TOTAL										

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LOCALLY FUNDED ADD-ON NO. 2										
1	C-105	MOBILIZATION (6% MAX)	1	-	1	LS			\$ -	
2	CX-106	SAFETY, SECURITY AND MAINTENANCE OF TRAFFIC	1	-	1	LS			\$ -	
3	P-101	CONCRETE PAVEMENT REMOVAL	650	-	650	SY			\$ -	
4	P-101	CONCRETE SPALL REPAIR	100	-	100	SF			\$ -	
5	P-152	UNCLASSIFIED EXCAVATION	300	-	300	CY			\$ -	
6	P-209	BASE COURSE	150	-	150	CY			\$ -	
7	P-304	CEMENT TREATED BASE 10"	640	-	640	SY			\$ -	
8	P-501	CEMENT CONCRETE PAVEMENT 14"	250	-	250	CY			\$ -	
TOTAL										

*AWARD OF CONTRACT WILL BE BASED UPON THE LOW BID OF TOTAL COST OF SCHEDULE 1. COSTS ARE BROKEN OUT INTO SCHEDULE 1 AND 2 FOR FUNDING REQUIREMENTS. BIDS WILL BE CHECKED FOR IRREGULARITIES AND IMBALANCES PER SECTION 20-09.

Attachment B: Contract Drawings

1

2

KEYED NOTE REFERENCE

EXISTING AIRPORT PROPERTY LINE

EXISTING AVIGATION EASEMENT BOUNDARY

EXISTING ROADWAY BOUNDARY

EXISTING RUNWAY OBJECT FREE AREA

EXISTING RUNWAY SAFETY AREA

EXISTING TAXIWAY OBJECT FREE AREA

EXISTING TAXILANE OBJECT FREE AREA

EXISTING TAXIWAY SAFETY AREA

EXISTING EDGE OF WATER

EXISTING WETLAND LOCATION

EXISTING EDGE OF WOODS

EXISTING CONIFEROUS TREE

EXISTING DECIDUOUS TREE

EXISTING CONTOUR LINE

EXISTING SWALE CENTERLINE

EXISTING TOP/BOTTOM OF DITCH

EXISTING FENCE LINE

EXISTING DOUBLE SWING GATE

EXISTING CANTILEVER GATE

EXISTING DRAINAGE LINE

EXISTING UNDERDRAIN

EXISTING UNDERDRAIN CLEANOUT

EXISTING CATCH BASIN

EXISTING DRAINAGE MANHOLE

EXISTING HEADWALL

EXISTING PIPE END SECTION

EXISTING WATER LINE

EXISTING HYDRANT

EXISTING WATER VALVE

EXISTING WATER MANHOLE

EXISTING SANITARY LINE

EXISTING SANITARY MANHOLE

EXISTING GAS LINE

EXISTING GAS VALVE

EXISTING GAS LINE MARKER

EXISTING UNDERGROUND TELEPHONE LINE

EXISTING FIBER OPTIC LINE

EXISTING OVERHEAD TELEPHONE LINE

EXISTING UNDERGROUND ELECTRIC LINE

EXISTING SLOT DRAIN LINE

EXISTING OVERHEAD ELECTRIC LINE

EXISTING LIGHT POLE

EXISTING UTILITY POLE

EXISTING CONCRETE MARKER

EXISTING CONCRETE DUCT MARKER

EXISTING CONCRETE CABLE MARKER

EXISTING SINGLE POST TRAFFIC SIGN

EXISTING DOUBLE POST TRAFFIC SIGN

EXISTING RUNWAY OR TAXIWAY EDGE LIGHT

EXISTING AIRFIELD GUIDANCE SIGN

EXISTING ELECTRICAL MANHOLE

EXISTING TELECOMMUNICATIONS MANHOLE

EXISTING PULLBOX

EXISTING JUNCTION CAN

EXISTING CIRCUIT LABEL

EXISTING AIRFIELD LIGHTING CABLE IN TRENCH

EXISTING AIRFIELD LIGHTING CABLE IN CONDUIT

EXISTING DUCT BANK

EXISTING SURVEY BASELINE

EXISTING SURVEY BASELINE POINT

EXISTING SURVEY CONTROL POINT

EXISTING BENCHMARK LOCATION

EXISTING FENCE LINE TO BE REMOVED

EXISTING DRAINAGE LINE TO BE REMOVED

EXISTING UNDERDRAIN TO BE REMOVED

EXISTING WATER LINE TO BE REMOVED

EXISTING SLOT DRAIN TO BE REMOVED

EXISTING UNDERDRAIN CLEANOUT TO BE REMOVED

EXISTING CATCH BASIN TO BE REMOVED

EXISTING DRAINAGE MANHOLE TO BE REMOVED

EXISTING UNDERGROUND ELECTRIC LINE TO BE REMOVED

EXISTING LIGHT POLE TO BE REMOVED

EXISTING SINGLE POST TRAFFIC SIGN TO BE REMOVED

EXISTING DOUBLE POST TRAFFIC SIGN TO BE REMOVED

EXISTING RUNWAY OR TAXIWAY EDGE LIGHT TO BE REMOVED

EXISTING AIRFIELD GUIDANCE SIGN TO BE REMOVED

EXISTING PULLBOX TO BE REMOVED

EXISTING JUNCTION CAN TO BE REMOVED

EXISTING AIRFIELD LIGHTING CABLE IN TRENCH TO BE REMOVED

EXISTING AIRFIELD LIGHTING CABLE IN CONDUIT TO BE REMOVED

EXISTING DUCT BANK TO BE REMOVED

EXISTING MARKING TO BE REMOVED

PROPOSED CONTOUR LINE

PROPOSED INTERMEDIATE CONTOUR LINE

PROPOSED SPOT ELEVATION

PROPOSED GRADE LINE

PROPOSED SWALE CENTERLINE

PROPOSED FENCE LINE

PROPOSED DRAINAGE LINE

PROPOSED UNDERDRAIN

PROPOSED SLOT DRAIN

PROPOSED UNDERDRAIN CLEANOUT

PROPOSED CATCH BASIN

PROPOSED DRAINAGE MANHOLE

PROPOSED PIPE END SECTION

PROPOSED WATER VALVE

PROPOSED WATER LINE

PROPOSED FIBER OPTIC LINE

PROPOSED UNDERGROUND ELECTRIC LINE

PROPOSED LIGHT POLE

PROPOSED SINGLE POST TRAFFIC SIGN

PROPOSED DOUBLE POST TRAFFIC SIGN

PROPOSED BASE MOUNTED EDGE LIGHT

PROPOSED RETROREFLECTIVE MARKER

PROPOSED AIRFIELD GUIDANCE SIGN

PROPOSED PULLBOX

PROPOSED JUNCTION CAN

PROPOSED AIRFIELD LIGHTING CABLE IN CONDUIT WITH CIRCUIT NUMBER AND NUMBER OF CABLES

PROPOSED DUCT BANK

TEST BORING LOCATION

PROPOSED SILT FENCE LOCATION

PROPOSED PCC ACCESS ROAD PAVEMENT

PROPOSED PCC PAVEMENT

PROPOSED PCC PAVEMENT (ADD ON NO. 1)

PROPOSED PCC PAVEMENT (ADD ON NO. 2)

EXISTING PCC PAVEMENT TO BE REMOVED

EXISTING ACC PAVEMENT TO BE REMOVED

BARRICADE LOCATION WITH WORK AREA DESIGNATION

WORK AREA LIMITS

GATE GUARD LOCATION

ABBREVIATIONS

ABAN - ABANDONED
APPROX. - APPROXIMATE
ASPH. - ASPHALT
B- BASELINE
BLDG. - BUILDING
BM - BENCH MARK
C- CENTERLINE
CIP - CAST IRON PIPE
CMP - CORRUGATED METAL PIPE
CONC. - CONCRETE
CSP - CORRUGATED STEEL PIPE
DIA. - DIAMETER
ELEV. - ELEVATION
FND. - FOUNDATION
HP - HIGH POINT
INV. - INVERT
LT - LEFT
LP - LOW POINT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
NA - NOT APPLICABLE
OFA - OBJECT FREE AREA
O.C. - ON CENTER
PAVT. - PAVEMENT
PC - POINT OF CURVATURE
PCC - PORTLAND CEMENT CONCRETE PAVEMENT
PI - POINT OF INTERSECTION
P - PROPERTY LINE
PT - POINT OF TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
PVC - POINT OF CURVATURE (VERTICAL CURVE)
PVC - POLYVINYL CHLORIDE PIPE
PVT - POINT OF TANGENCY (VERTICAL CURVE)
R - RADIUS
RCP - REINFORCED CONCRETE PIPE
ROFA - RUNWAY OBJECT FREE AREA
RSA - RUNWAY SAFETY AREA
ROW - RIGHT OF WAY
RPZ - RUNWAY PROTECTION ZONE
RT - RIGHT
RW - RUNWAY
SHDR. - SHOULDER
SIOPP - SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
STA. - STATION
TOFA - TAXIWAY OBJECT FREE AREA
TSA - TAXIWAY SAFETY AREA
TW - TAXIWAY
TYP. - TYPICAL
UD - UNDERDRAIN

A1

LEGEND AND ABBREVIATIONS

SCALE: NOT TO SCALE

3

CONTROL REPORT:

THE PROJECT CONTROL WAS LEVELED FROM SECONDARY AIRPORT CONTROL STATION GRR G (PID DQ7948), LEVEL LOOPS CLOSED PER ACCEPTED SURVEY STANDARDS. THE CONTROL MEETS THE ACCURACY STANDARDS PER THE SURVEYING SERVICES AGREEMENT.

VERTICAL DATUM: NAVD88
HORIZONTAL DATUM: NAD 83, MICHIGAN STATE PLANE SOUTH ZONE

NOTES:
1. SEE SHEET GI004 FOR LOCATIONS.

TAXILANE L ALIGNMENT			
	STATION	NORTHING	EASTING
BEGINNING	105+00.00	507,296.11	12,816,687.96
END	122+60.00	509,039.41	12,816,445.74

4

BENCHMARKS AND CONTROL POINTS				
POINT	NORTHING	EASTNG	ELEVATION	DESCRIPTION
BM-517	505476.236	12819808.170	766.838	MAG NAIL
BM-518	506305.551	12817117.739	781.059	MAG NAIL
BM-520	507510.093	12816821.986	782.709	MAG NAIL
BM-522	507713.385	12817050.120	782.146	MAG NAIL
BM-524	509107.499	12816945.262	776.655	MAG NAIL
BM-527	509058.895	12815969.952	779.128	MAG NAIL
BM-529	508320.238	12815774.740	782.024	MAG NAIL
BM-531	507408.473	12815913.567	781.120	SOUTH FLANGE BOLT ON FIRE HYDRANT
CP-519	507361.220	12816797.974	782.909	ALUMINUM DISC
CP-521	507520.015	12816820.501	782.849	½ INCH REBAR
CP-523	508249.660	12816737.456	785.256	½ INCH REBAR
CP-525	509167.266	12816879.006	778.368	½ INCH REBAR
CP-526	509093.990	12815935.049	778.373	½ INCH REBAR
CP-528	508501.301	12815925.897	791.289	½ INCH REBAR
CP-530	507407.813	12815910.727	779.848	½ INCH REBAR

C3

SURVEY CONTROL

SCALE: NOT TO SCALE

Sheet Number	Sheet Title	Sheet Description
1	GI001	TITLE SHEET
2	GI002	GENERAL NOTES, SHEET INDEX, BID QUANTITIES AND SURVEY CONTROL
3	GI003	LEGEND AND ABBREVIATIONS, SHEET INDEX, AND SURVEY CONTROL
4	GI004	QUANTITIES FOR CANVASS OF BID
5	GI005	GENERAL PLAN
6	GC100	CONSTRUCTION SAFETY AND PHASING PLAN - OVERALL
7	GC101	CONSTRUCTION SAFETY AND PHASING PLAN - WORK AREA A
8	GC102	CONSTRUCTION SAFETY AND PHASING PLAN - WORK AREA B
9	GC501	CONSTRUCTION SAFETY AND PHASING PLAN DETAILS
10	VF101	EXISTING CONDITIONS
11	VF102	EXISTING CONDITIONS
12	CE101	SEDIMENT AND EROSION CONTROL PLAN
13	CE102	SEDIMENT AND EROSION CONTROL PLAN
14	CE501	SOIL EROSION AND SEDIMENT CONTROL DETAILS
15	CD101	DEMOLITION PLAN
16	CD102	DEMOLITION PLAN
17	CD501	DEMOLITION DETAILS
18	CS101	GEOMETRY PLAN
19	CS102	GEOMETRY PLAN
20	CG101	GRADING PLAN
21	CG102	GRADING PLAN
22	CG201	CENTERLINE PROFILE
23	CP101	JOINTING PLAN
24	CP102	JOINTING PLAN
25	CP501	PAVEMENT DETAILS
26	CP502	PAVEMENT DETAILS
27	CP503	PAVEMENT DETAILS
28	CU101	DRAINAGE AND UTILITIES PLAN
29	CU102	DRAINAGE AND UTILITIES PLAN
30	CU201	DRAINAGE AND UTILITIES PROFILE
31	CU501	DRAINAGE DETAILS
32	CU502	DRAINAGE DETAILS
33	CU503	WATER MAIN DETAILS
34	XM101	MARKING, FENCING, ELECTRICAL AND COMMUNICATION PLAN
35	XM102	MARKING, FENCING, ELECTRICAL AND COMMUNICATION PLAN
36	XM501	MARKING, FENCING, ELECTRICAL AND COMMUNICATION DETAILS

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A3

SHEET INDEX

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TAXILANE L CONSTRUCTION

**GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI**

	09/12/2025	ADDENDUM NO.4 (GEOMETRY)
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K19.025.001		
DATE: AUGUST 2025		
DRAWN BY: B. COOK		
DESIGNED BY: T. J. CORCORAN		
CHECKED BY: K. J. JOY		
<p>CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.</p>		

LEGEND AND
ABBREVIATIONS,
SHEET INDEX, AND
SURVEY CONTROL

GI003

SHEET NO. 3 OF 36

Sep 15, 2025 - 8:28am
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1		2		3		4	
ITEM NO	SPEC	DESCRIPTION	QUANTITY	QUANTITY	QUANTITY	UNITS	
			SCHEDULE 1*	SCHEDULE 2*	GRAND		
1	C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	-	1	LS	
2	C-102	INSTALLATION AND REMOVAL OF STORM DRAIN INLET PROTECTION	6	-	6	EA	
3	C-102	INSTALLATION AND REMOVAL OF SILT FENCE	8,200	-	8,200	LF	
4	C-102	INSTALLATION AND REMOVAL OF STABILIZED CONSTRUCTION ENTRANCE	2	-	2	EACH	
5	C-105	MOBILIZATION (10% MAX.)	1	-	1	LS	
6	C-105	FIELD OFFICE	1	-	1	LS	
7	C-105	FIELD OFFICE EQUIPMENT	1	-	1	LS	
8	CX-106	SAFETY, SECURITY AND MAINTENANCE OF TRAFFIC	1	-	1	LS	
9	CX-106	INSTALLATION AND REMOVAL OF TEMPORARY FENCE ON CONCRETE BARRIER	1,550	-	1,550	LF	
△ 10	CX-106	TEMPORARY HAUL ROUTE	400	-	400	SY	
11	P-101	CONCRETE PAVEMENT REMOVAL	400	-	400	SY	
12	P-101	ASPHALT PAVEMENT REMOVAL	5,000	-	5,000	SY	
13	P-101	REMOVAL OF PIPE ALL TYPES AND SIZES	660	-	660	LF	
14	P-101	REMOVAL OF STRUCTURE	3	-	3	EACH	
15	P-101	REMOVAL OF WATER MAIN	300	-	300	LF	
16	P-101	REMOVAL OF LIGHT POLE AND FOUNDATION	2	-	2	EACH	
17	P-101	SPALL REPAIR	50	-	50	SF	
18	P-152	UNCLASSIFIED EXCAVATION	13,600	-	13,600	CY	
19	P-152	BORROW EXCAVATION (OBTAINED ONSITE)	14,600	-	14,600	CY	
20	P-152	BORROW EXCAVATION (OBTAINED OFFSITE)	14,600	-	14,600	CY	
21	P-154	SUBBASE COURSE	5,500	-	5,500	CY	
22	P-209	CRUSHED AGGREGATE BASE COURSE	3,700	-	3,700	CY	
23	P-304	CEMENT-TREATED BASE COURSE (6")	11,700	-	11,700	SY	
△ 24	P-501	CONCRETE PAVEMENT (15")	3,770	1,130	4,900	CY	
25	P-501	CONCRETE PAVEMENT (10")	250	-	250	CY	
26	P-620	MARKING	18,100	-	18,100	SF	
27	P-620	MARKING REMOVAL	4,800	-	4,800	SF	
28	P-620	REFLECTIVE MEDIA	800	-	800	LB	
29	D-701	36 INCH RCP CLASS IV	280	-	280	LF	
30	D-701	30 INCH RCP CLASS IV	250	-	250	LF	
31	D-705	6 INCH PERFORATED SMOOTH INTERIOR CORRUGATED PVC COMPLETE, INCLUDING POROUS BACKFILL AND FILTER FABRIC	3,900	-	3,900	LF	
32	D-705	6 INCH NON-PERFORATED SMOOTH INTERIOR CORRUGATED PVC COMPLETE, INCLUDING POROUS BACKFILL AND FILTER FABRIC	420	-	420	LF	
33	D-751	CLEANOUTS	16	-	16	EACH	
34	D-751	CATCH BASINS	3	-	3	EACH	
35	D-751	MODIFICATION OF EXISTING STRUCTURE	1	-	1	EACH	
36	DX-800	SOFT DIGS	3	-	3	DAYS	
37	F-162	REMOVE FENCE AND GATE	630	-	630	LF	
38	F-162	CHAIN-LINK FENCE	3,800	-	3,800	LF	
39	L-110	FIBER OPTIC CABLE AND CONDUIT LOWERING	220	-	220	LF	
40	L-115	ELECTRICAL HANDHOLE	1	-	1	EA	
41	L-115	ADJUST ELECTRICAL STRUCTURE TO GRADE	2	-	2	EA	
42	L-125	REMOVE TAXIWAY EDGE LIGHT	8	-	8	EA	
43	L-125	REMOVE TAXIWAY GUIDANCE SIGN	1	-	1	EA	
44	L-125	RETROREFLECTIVE MARKER	21	-	21	EACH	
45	L-125	TAXIWAY GUIDANCE SIGN	2	-	2	EACH	
46	L-125	TAXIWAY ENDING MARKER	1	-	1	EACH	
47	L-125	STAKE MOUNTED GUIDANCE SIGN	4	-	4	EACH	
48	T-901	SEEDING	18	-	18	ACRE	
49	T-905	TOPSOIL (OBTAINED ONSITE OR REMOVED FROM STOCKPILE)	13,500	-	13,500	CY	
50	T-908	MULCHING	18	-	18	ACRE	
51	4.3.001	WATER MAIN, RESTRAINED DI, CL56 12 INCH	300	-	300	LF	
52	4.3.013	VALVE AND BOX 12 INCH	4	-	4	EACH	
53	4.3.018	TEE 12 INCH BY 12 INCH BY 12 INCH	2	-	2	EACH	
54	4.3.021	HORIZONTAL BEND 45 DEGREE 12 INCH	4	-	4	EACH	
55	4.3.021	VERTICAL BEND 45 DEGREE 12 INCH	4	-	4	EACH	
56	4.3.023	PLUG, 12 INCH	2	-	2	EACH	
LOCALLY FUNDED ADD-ON NO. 1							
1	C-105	MOBILIZATION (6% MAX.)	-	1	1	LS	
△ 2	CX-106	SAFETY, SECURITY AND MAINTENANCE OF TRAFFIC	-	1	1	LS	
3	P-101	CONCRETE PAVEMENT REMOVAL	-	2100	2,100	SY	
4	P-101	SPALL REPAIR	-	100	100	SF	
5	P-101	REMOVAL OF PIPE ALL TYPES AND SIZES	-	150	150	LF	
6	P-152	UNCLASSIFIED EXCAVATION	-	850	850	CY	
7	P-209	BASE COURSE	-	450	450	CY	
△ 8	P-304	CEMENT TREATED BASE (10")	-	2000	2,000	SY	
9	P-501	CEMENT CONCRETE PAVEMENT (14")	-	780	780	CY	
10	D-702	REMOVE SLOTTED PIPE DRAIN	-	480	480	LF	
11	D-702	18 INCH SLOTTED PIPE DRAIN	-	490	490	LF	
12	D-751	MODIFICATION OF EXISTING STRUCTURE	-	1	1	EACH	
LOCALLY FUNDED ADD-ON NO. 2							
1	C-105	MOBILIZATION (6% MAX.)	-	1	1	LS	
2	CX-106	SAFETY, SECURITY AND MAINTENANCE OF TRAFFIC	-	1	1	LS	
3	P-101	CONCRETE PAVEMENT REMOVAL	-	650	650	SY	
4	P-101	SPALL REPAIR	-	100	100	SF	
5	P-152	UNCLASSIFIED EXCAVATION	-	300	300	CY	
6	P-209	BASE COURSE	-	150	150	CY	
7	P-304	CEMENT TREATED BASE (10")	-	640	640	SY	
8	P-501	CEMENT CONCRETE PAVEMENT (14")	-	250	250	CY	
*AWARD OF CONTRACT WILL BE BASED UPON THE LOW BID OF TOTAL COST OF SCHEDULE 1. COSTS ARE BROKEN OUT INTO SCHEDULE 1 AND 2 FOR FUNDING REQUIREMENTS. BIDS WILL BE CHECKED FOR IRREGULARITIES AND IMBALANCES PER SECTION 20-09.							
A1							
QUANTITIES FOR CANVASS OF BID							
SCALE: NOT TO SCALE							



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TAXILANE L CONSTRUCTION
GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI

△	09/12/2025	ADDENDUM NO.4 (GEOMETRY)
△	09/04/2025	ADDENDUM NO. 2
△	08/29/2025	ADDENDUM NO. 1

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K19.025.001		
DATE: AUGUST 2025		
DRAWN BY: B. COOK		
DESIGNED BY: T.J. CORCORAN		
CHECKED BY: K.J. JOST		

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

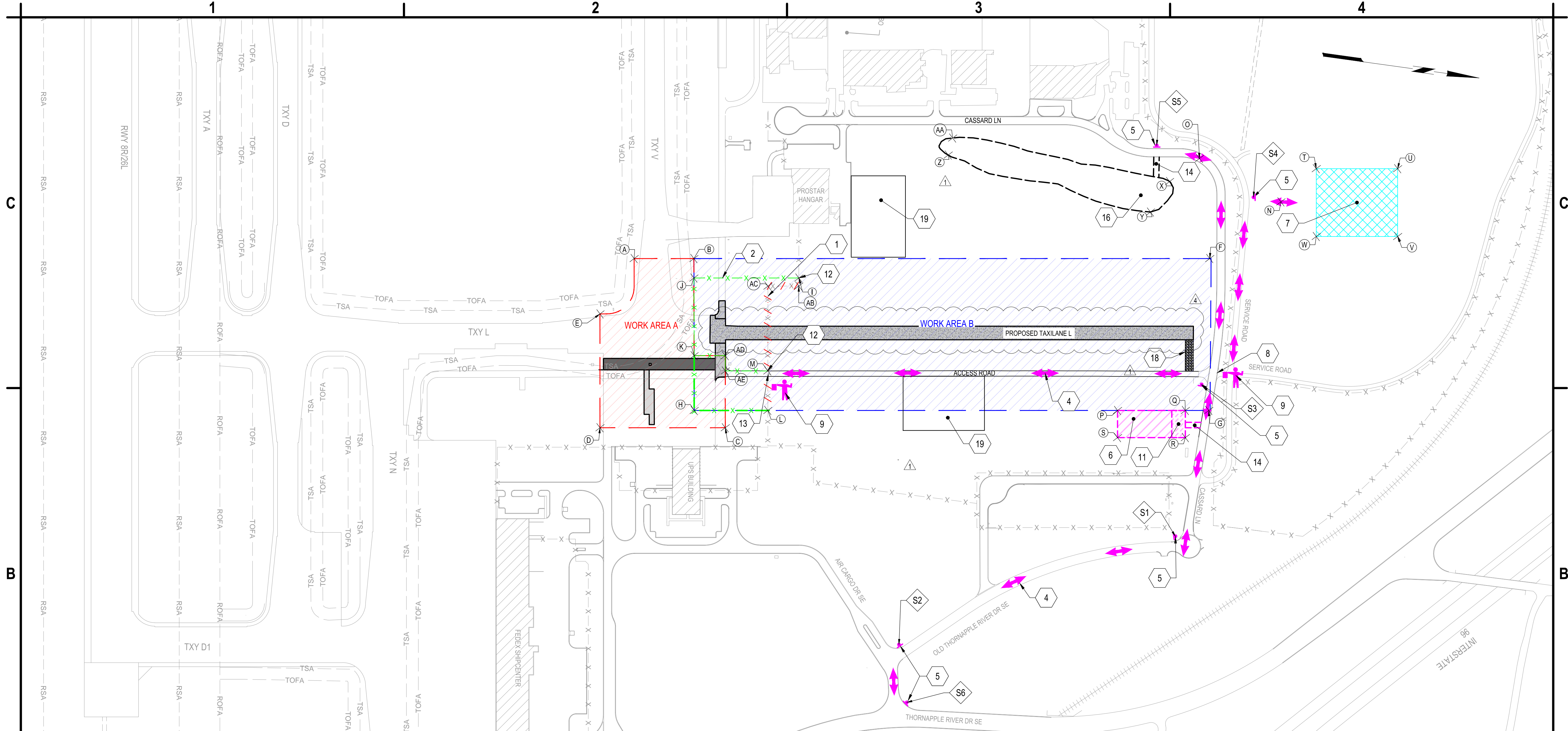
QUANTITIES FOR
CANVASS OF BID

GI004

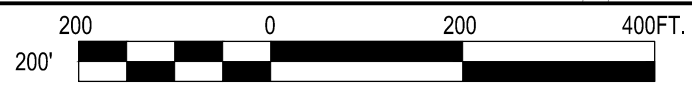
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B1 CONSTRUCTION SAFETY AND PHASING PLAN - OVERALL
SCALE: 1" = 200'



1. REMOVE EXISTING AOA FENCE, ITEM F-162
 2. INSTALL TEMPORARY FENCE ON CONCRETE BARRIER, ITEM CX-106, SEE DETAIL B1/GC501
 4. CONTRACTOR HAUL ROUTE
 5. INSTALL CONSTRUCTION ACCESS SIGN PER DETAIL B3/GC501
 6. CONTRACTORS STAGING AREA
 7. APPROXIMATE LOCATION OF SPOILS AREA TO BE DETERMINED BY THE OWNER, SEE NOTE 10.
 8. CONTRACTOR'S ACCESS TO SPOILS LOCATION
 9. CONTRACTOR PROVIDED GATE GUARD AT GATE 79 (ONLY REQUIRED DURING CONSTRUCTION ON WORK AREA A)
 11. CONTRACTOR'S AND ENGINEERS FIELD OFFICE LOCATION
 12. TRANSITION EXISTING FENCE TO TEMPORARY FENCE ON CONCRETE BARRIER, ITEM CX-106, SEE DETAIL B1/GC501.
 13. CONTRACTOR'S ACCESS TO WORK AREA A, GATE 72
 14. STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL C3/GC501. CONTRACTOR SHALL PROVIDE RUBBER RAMP AT EXISTING CURB INCIDENTAL TO ITEM C-105
 16. BORROW AREA
 18. TEMPORARY HAUL ROAD, SEE DETAIL A4/GC501
 19. POTENTIAL BATCH PLANT LOCATION WITH WATER METER INSTALLED AT WATER CONNECTION TO TRACK USAGE. FINAL LOCATION TO BE APPROVED BY GRR PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR STAGING AREA SPOILS AREA
 FIELD OFFICE LOCATION TEMPORARY FENCE

A1 KEYED NOTES AND LEGEND
SCALE: NOT TO SCALE

1. THE CONTRACTOR MAY USE THE EXISTING ACCESS ROAD FOR THE DURATION OF THE PROJECT. THE EXISTING ACCESS ROAD SHALL BE REMOVED AT THE END OF THE PROJECT AS SHOWN IN THE CONTRACT DRAWINGS.
2. WORK AREA A SHALL OCCUR CONCURRENTLY WITH WORK AREA B AND SHALL OCCUR WITHIN THE TOFA OF TAXIWAYS V AND L AND WILL RESULT IN TEMPORARY CLOSURES OF THE TAXIWAY PAVEMENTS. WORK SHALL CONSIST OF MARKING, ELECTRICAL MODIFICATION, DRAINAGE, GRADING, AND PAVING ITEMS. WORK AREA A SHALL BE CONCURRENT WITH WORK AREA B AND IS LIMITED TO 30 CALENDAR DAYS.
3. WORK AREA B SHALL OCCUR OUTSIDE OF THE AOA TO MINIMIZE IMPACT ON AIRPORT OPERATIONS. WORK AREA B SHALL CONSIST OF THE EXCAVATION, GRADING, PAVING, AND MARKING OF TAXILANE L. THERE ARE NO ANTICIPATED CLOSURES TO AIRFIELD PAVEMENTS DURING CONSTRUCTION IN WORK AREA B. WORK AREA B IS LIMITED TO 82 CALENDAR DAYS.
4. TEMPORARY FENCE TO BE INSTALLED PRIOR TO REMOVAL OF EXISTING FENCE. ALL WORK REQUIRED TO INSTALL AND REMOVE TEMPORARY AOA FENCE SHALL BE UNDER GRR OPERATIONS ESCORT. TEMPORARY AOA FENCE LIMITS SHALL BE APPROVED BY GRR OPERATIONS AND TSA. AFTER THE TEMPORARY FENCE IS APPROVED THE ENTIRE WORK AREA B WILL BECOME NON-AOA FOR 82 CALENDAR DAYS.
5. THE TEMPORARY FENCING LIMITS SHALL BE SUBMITTED TO TSA AT LEAST 45 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PLAN SHALL BE APPROVED BY TSA PRIOR TO CONSTRUCTION COMMENCING. ALL CHANGES TO THE FENCING ALIGNMENT SHALL BE COORDINATED WITH TSA, THE OWNER AND THE ENGINEER.
6. WHILE WORK IS OCCURRING IN WORK AREA A, THE CONTRACTOR SHALL POST A GATE GUARD AT THE GATE DURING ALL WORK HOURS TO MAINTAIN A SECURE AIRPORT PROPERTY.
7. WHILE SPOILING OPERATIONS ARE OCCURRING THE CONTRACTOR SHALL POST A GATE GUARD AT GATE 72 AND 79 DURING ALL WORK HOURS TO MAINTAIN SECURE AIRPORT PROPERTY AND LOCK THE GATE AT THE END OF EACH WORK SHIFT. NO MATERIAL SHALL BE HAULED OFFSITE, ALL MATERIAL SHALL REMAIN ON AIRPORT PROPERTY.
8. CONTRACTOR SHALL RESTORE THE STAGING AREA AND CONSTRUCTION ENTRANCE AREA TO EQUAL OR BETTER THAN ORIGINAL CONDITION FOLLOWING COMPLETION OF THE PROJECT. RESTORATION SHALL BE CONSIDERED INCIDENTAL TO ITEM C-105 MOBILIZATION.
9. PRIOR TO CONSTRUCTION THE CONTRACTOR AND ENGINEER SHALL VIDEOTAPE/PHOTOGRAPH ALL HAUL ROADS TO BE USED DURING THE PROJECT. THE INFORMATION SHALL BE PROVIDED TO THE OWNER PRIOR TO NOTICE TO PROCEED. ANY DAMAGE TO THE PAVEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, AT THE DISCRETION OF THE RPR. ALL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. FINAL SPOILS LOCATION SHALL BE COORDINATED WITH THE RPR AND OWNER. THE CONTRACTOR SHALL PROVIDE A SURVEY FILE AND PROPOSED GRADING PLAN OF THE PROPOSED SPOILS AREA 30 DAYS PRIOR TO CONSTRUCTION STARTING. GRADING OF THE SPOILS AREA SHALL BE CONSIDERED INCIDENTAL TO ITEMS P-152 AND T-905. PRIOR TO STOCKPILING IN THE PROPOSED LOCATION THE TOPSOIL SHALL BE STRIPPED.

A2 GENERAL NOTES AND AIRSPACE COORDINATES
SCALE: NOT TO SCALE

POINT TABLE				
POINT NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
A	506,961.90	12,816,457.27	780.90	WORK AREA A
AA	508,063.66	12,815,855.60	781.72	BORROW AREA
AB	507,577.01	12,816,474.22	779.07	TEMP FENCE
AC	507,464.41	12,816,490.00	780.51	TEMP FENCE
AD	507,343.78	12,816,765.64	783.32	TEMP FENCE
AE	507,351.57	12,816,821.53	782.99	TEMP FENCE
B	507,180.09	12,816,426.97	779.00	WORK AREA A & B
C	507,380.36	12,817,028.78	780.00	WORK AREA A
D	506,922.96	12,817,092.31	780.00	WORK AREA A
E	506,865.23	12,816,676.70	783.03	WORK AREA A
F	509,063.86	12,816,165.32	780.63	WORK AREA B
G	509,137.37	12,816,720.53	777.90	WORK AREA B
H	507,258.22	12,816,981.54	780.00	WORK AREA B
I	507,573.21	12,816,444.77	779.00	TEMP FENCE
J	507,189.96	12,816,498.00	778.62	TEMP FENCE
K	507,230.03	12,816,781.48	783.57	TEMP FENCE
L	507,527.01	12,816,944.21	780.00	TEMP FENCE
M	507,507.11	12,816,799.93	782.67	TEMP FENCE

POINT TABLE				
POINT NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
N	509,295.00	12,815,922.30	770.00	HAUL ROUTE
O	508,975.57	12,815,805.17	784.43	HAUL ROUTE
P	508,804.05	12,816,766.83	778.00	STAGING AREA
Q	509,051.67	12,816,732.44	778.00	STAGING AREA
R	509,065.43	12,816,831.49	778.00	STAGING AREA
S	508,817.81	12,816,865.88	778.00	STAGING AREA
T	509,407.24	12,815,783.02	769.00	SPOIL AREA
U	509,704.38	12,815,741.75	769.00	SPOIL AREA
V	509,738.78	12,815,989.37	769.00	SPOIL AREA
W	509,441.63	12,816,030.65	769.00	SPOIL AREA
X	508,877.92	12,815,904.56	781.72	BORROW AREA
Y	508,823.71	12,816,025.52	781.72	BORROW AREA
Z	508,056.28	12,815,919.98	781.72	BORROW AREA

MAX EQUIPMENT HEIGHT AT ALL LOCATIONS SHALL BE 25'

THIS PLAN IS TO BE PRINTED IN COLOR

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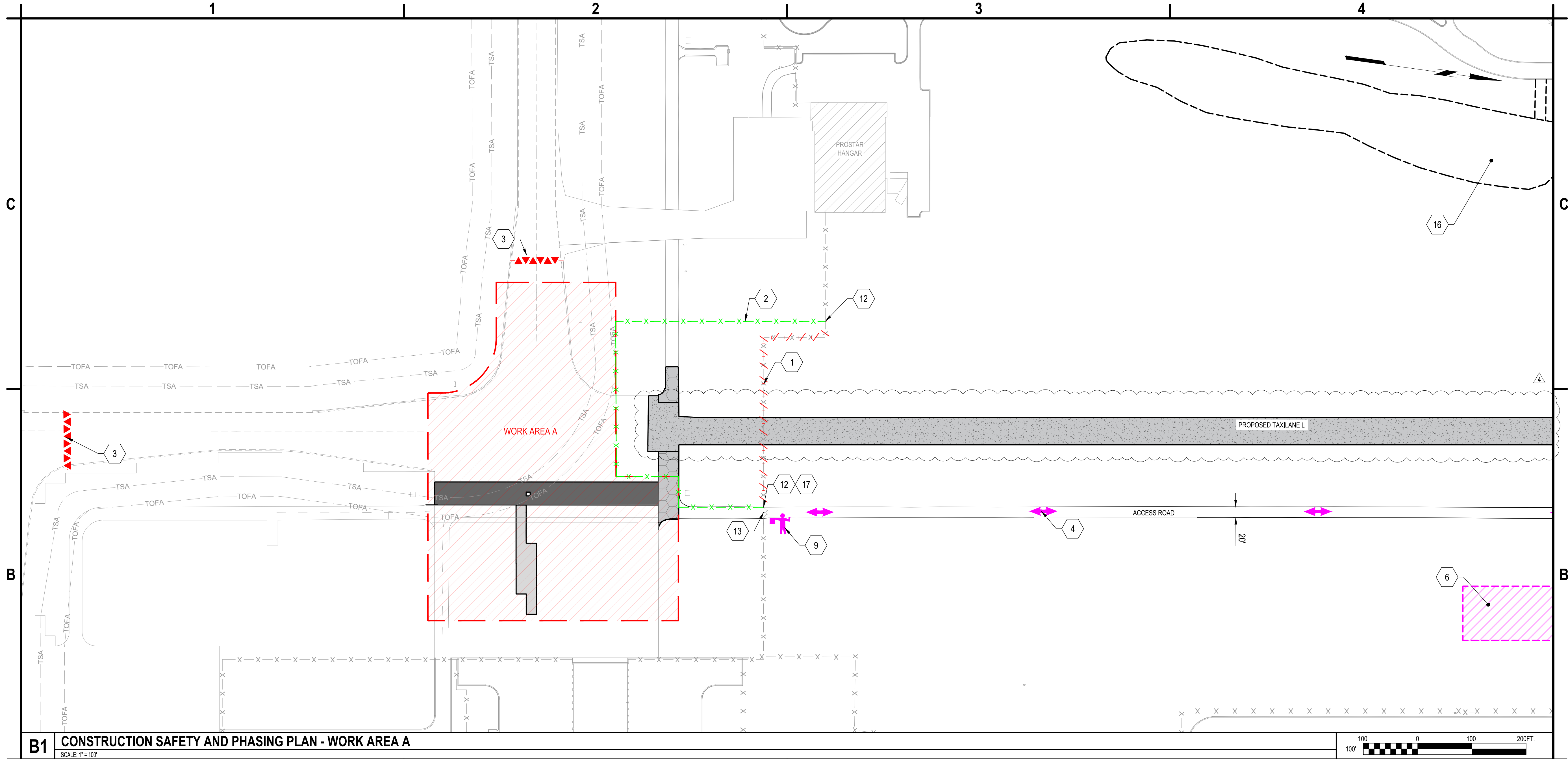


TAXILANE L CONSTRUCTION
GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI

	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
	08/29/2025	ADDENDUM NO. 1
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K19.025.001		
DATE: AUGUST 2025		
DRAWN BY: B. COOK		
DESIGNED BY: T.J. CORCORAN		
CHECKED BY: K.J. JOST		
CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.		

CONSTRUCTION
SAFETY AND
PHASING PLAN -
OVERALL

Sep 13, 2025 - 12:06pm
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B1 CONSTRUCTION SAFETY AND PHASING PLAN - WORK AREA A
SCALE: 1" = 100'

1. REMOVE EXISTING AOA FENCE, ITEM F-162
2. INSTALL TEMPORARY FENCE ON CONCRETE BARRIER, ITEM CX-106, SEE DETAIL B1/GC501
3. INTERLOCKING AIRFIELD BARRIERS TO BE PROVIDED BY THE AIRPORT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN THEM THROUGHOUT THE DURATION OF THE PROJECT PER DETAIL A1/GC501
4. CONTRACTOR HAUL ROUTE
6. CONTRACTORS STAGING AREA
9. CONTRACTOR PROVIDED GATE GUARD AT GATE 79 (ONLY REQUIRED DURING CONSTRUCTION ON WORK AREA A)
12. TRANSITION EXISTING FENCE TO TEMPORARY FENCE ON CONCRETE BARRIER, ITEM CX-106, SEE DETAIL B1/GC501.
13. CONTRACTOR'S ACCESS TO WORK AREA A, GATE 72
16. BORROW AREA
17. LIMIT OF FENCE REMOVAL DURING WORK IN AREA A

- WORK AREA A
- CONTRACTOR STAGING AREA
- FIELD OFFICE LOCATION
- INTERLOCKING AIRFIELD BARRICADE
- TEMPORARY FENCE

A1 KEYED NOTES AND LEGEND
SCALE: NOT TO SCALE

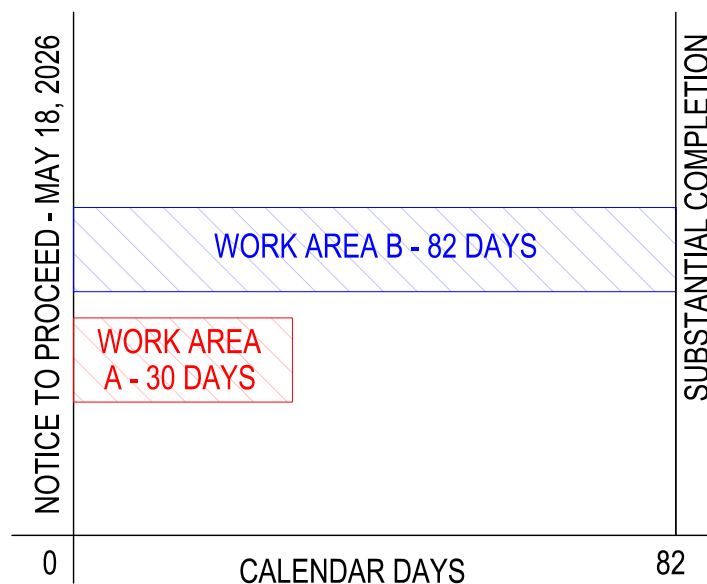
NOTES:

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 70, ATTACHMENT A - CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) OF THE GENERAL PROVISIONS.
2. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE FOR ALL CONSTRUCTION ENTRANCES AND HAUL ROUTES.
3. WHILE WORK IS OCCURRING IN WORK AREA A, THE CONTRACTOR SHALL POST A GATE GUARD AT THE GATE DURING ALL WORK HOURS TO MAINTAIN A SECURE AIRPORT PROPERTY.
4. FINAL SPOILS LOCATION SHALL BE COORDINATED WITH THE RPR AND OWNER. THE CONTRACTOR SHALL PROVIDE A SURVEY FILE AND PROPOSED GRADING PLAN OF THE PROPOSED SPOILS AREA 30 DAYS PRIOR TO CONSTRUCTION STARTING. GRADING OF THE SPOILS AREA SHALL BE CONSIDERED INCIDENTAL TO ITEMS P-152 AND T-905.

A2 GENERAL NOTES
SCALE: NOT TO SCALE

ALLOWED CONSTRUCTION TIME (CALENDAR DAYS): 82

WORK AREA A: 30 CALENDAR DAYS
WORK AREA B: 82 CALENDAR DAYS



A3 CONSTRUCTION SEQUENCING
SCALE: NOT TO SCALE

NOTES

1. WORK AREA A SHALL OCCUR CONCURRENTLY WITH WORK AREA B AND SHALL OCCUR WITHIN THE TOFA OF TAXIWAYS V AND L AND WILL RESULT IN TEMPORARY CLOSURES OF THE TAXIWAY PAVEMENTS. WORK SHALL CONSIST OF MARKING, ELECTRICAL MODIFICATION, AND ANY NECESSARY DRAINAGE, GRADING, AND PAVING ITEMS. WORK AREA A SHALL BE CONCURRENT WITH WORK AREA B AND IS LIMITED TO 30 CALENDAR DAYS.
2. WORK AREA B SHALL OCCUR OUTSIDE OF THE AOA TO MINIMIZE IMPACT ON AIRPORT OPERATIONS. WORK AREA B SHALL CONSIST OF THE EXCAVATION, GRADING, PAVING, AND MARKING OF TAXILANE L. THERE ARE NO ANTICIPATED CLOSURES TO AIRFIELD PAVEMENTS DURING CONSTRUCTION IN WORK AREA B. WORK AREA B IS LIMITED TO 82 CALENDAR DAYS.

**THIS PLAN IS TO BE
PRINTED IN COLOR**



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TAXILANE L CONSTRUCTION
GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI

	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
	09/04/2025	ADDENDUM NO. 2
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K19.025.001		
DATE: AUGUST 2025		
DRAWN BY: B. COOK		
DESIGNED BY: T.J. CORCORAN		
CHECKED BY: K.J. JOST		
CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.		

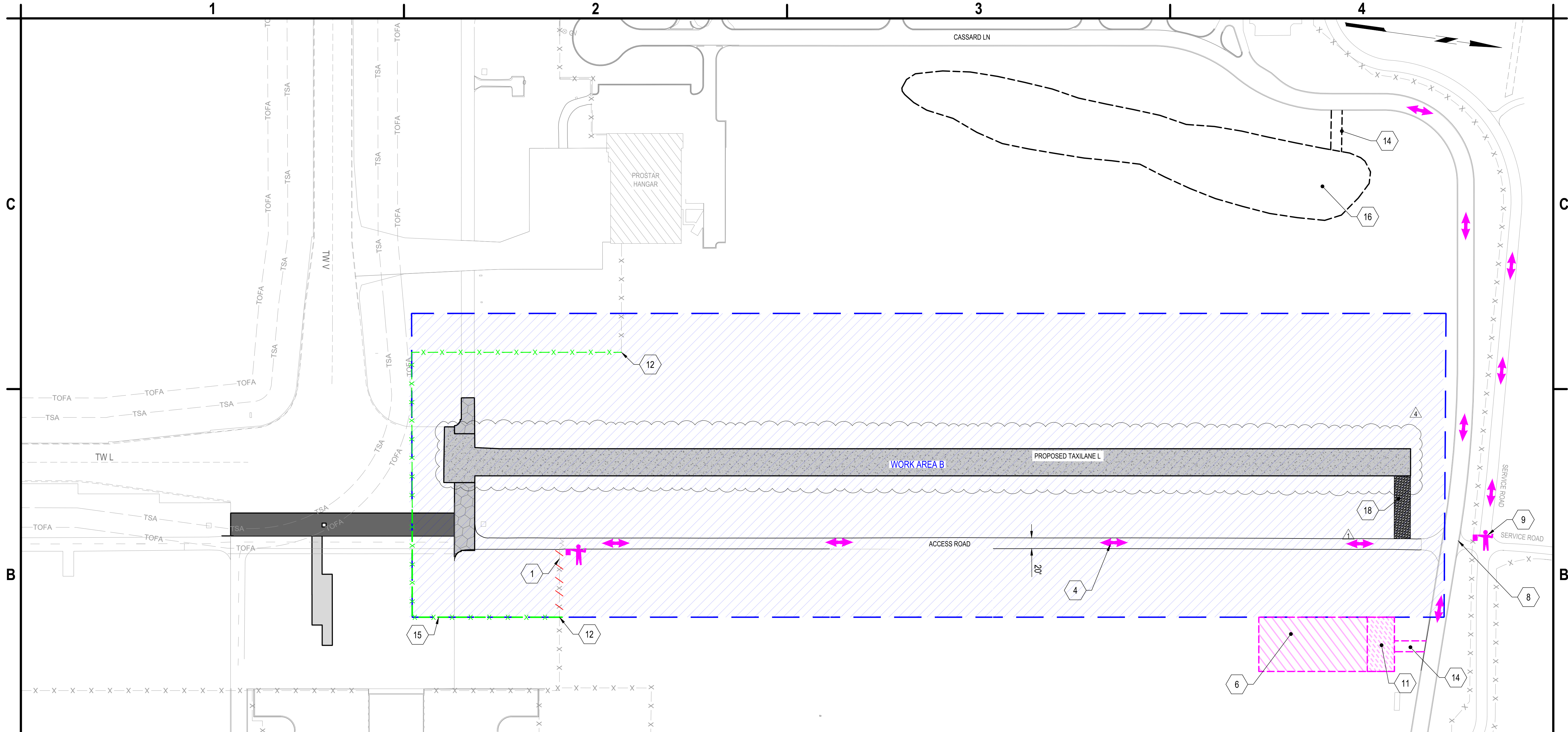
CONSTRUCTION
SAFETY AND
PHASING PLAN -
WORK AREA A

GC101

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B1 CONSTRUCTION SAFETY AND PHASING PLAN - WORK AREA B
SCALE: 1" = 100'

1. REMOVE EXISTING AOA FENCE, ITEM F-162
4. CONTRACTOR HAUL ROUTE
6. CONTRACTORS STAGING AREA
8. CONTRACTOR'S ACCESS TO SPOILS LOCATION
9. CONTRACTOR PROVIDED GATE GUARD AT GATE 79 (ONLY REQUIRED DURING CONSTRUCTION ON WORK AREA A)
11. CONTRACTOR'S AND ENGINEERS FIELD OFFICE LOCATION
12. TRANSITION EXISTING FENCE TO TEMPORARY FENCE ON CONCRETE BARRIER, ITEM CX-106, SEE DETAIL B1/GC501.
14. STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL C3/GC501. CONTRACTOR SHALL PROVIDE RUBBER RAMP AT EXISTING CURB INCIDENTAL TO ITEM C-105
15. RELOCATE TEMPORARY FENCE ON CONCRETE BARRIER TO NEW LOCATION SHOWN ON PLANS. RELOCATION SHALL ONLY OCCUR AFTER WORK AREA A IS COMPLETE. MOVEMENT OF TEMPORARY FENCE SHALL BE INCIDENTAL TO ITEM CX-106.
16. BORROW AREA
18. TEMPORARY HAUL ROAD, SEE DETAIL A4/GC501

- WORK AREA B
- CONTRACTOR STAGING AREA
- FIELD OFFICE LOCATION
- TEMPORARY FENCE

A1 KEYED NOTES AND LEGEND
SCALE: NOT TO SCALE

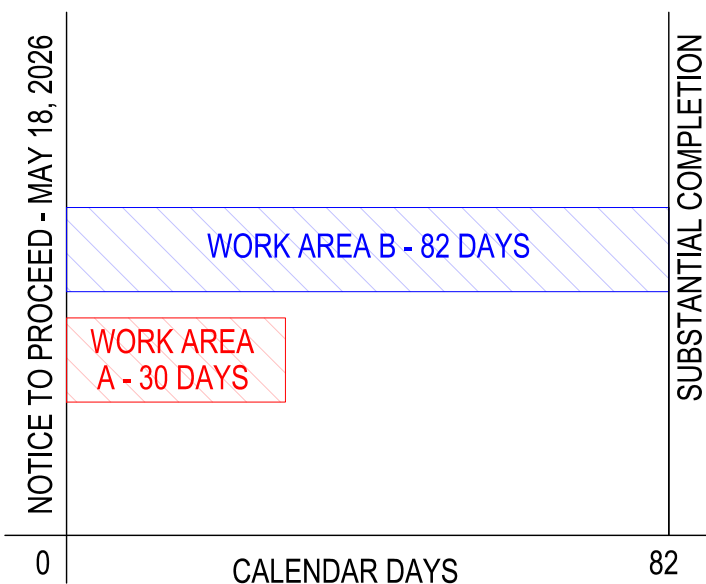
NOTES:

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 70, ATTACHMENT A - CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) OF THE GENERAL PROVISIONS.
2. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE FOR ALL CONSTRUCTION ENTRANCES AND HAUL ROUTES.
3. FINAL SPOILS LOCATION SHALL BE COORDINATED WITH THE RPR AND OWNER. THE CONTRACTOR SHALL PROVIDE A SURVEY FILE AND PROPOSED GRADING PLAN OF THE PROPOSED SPOILS AREA 30 DAYS PRIOR TO CONSTRUCTION STARTING. GRADING OF THE SPOILS AREA SHALL BE CONSIDERED INCIDENTAL TO ITEMS P-152 AND T-905.

A2 GENERAL NOTES
SCALE: NOT TO SCALE

ALLOWED CONSTRUCTION TIME (CALENDAR DAYS): 82

WORK AREA A: 30 CALENDAR DAYS
WORK AREA B: 82 CALENDAR DAYS



A3 CONSTRUCTION SEQUENCING
SCALE: NOT TO SCALE

NOTES

1. WORK AREA A SHALL OCCUR CONCURRENTLY WITH WORK AREA B AND SHALL OCCUR WITHIN THE TOFA OF TAXIWAYS V AND L AND WILL RESULT IN TEMPORARY CLOSURES OF THE TAXIWAY PAVEMENTS. WORK SHALL CONSIST OF MARKING, ELECTRICAL MODIFICATION, AND ANY NECESSARY DRAINAGE, GRADING, AND PAVING ITEMS. WORK AREA A SHALL BE CONCURRENT WITH WORK AREA B AND IS LIMITED TO 30 CALENDAR DAYS.
2. WORK AREA B SHALL OCCUR OUTSIDE OF THE AOA TO MINIMIZE IMPACT ON AIRPORT OPERATIONS. WORK AREA B SHALL CONSIST OF THE EXCAVATION, GRADING, PAVING, AND MARKING OF TAXILANE L. THERE ARE NO ANTICIPATED CLOSURES TO AIRFIELD PAVEMENTS DURING CONSTRUCTION IN WORK AREA B. WORK AREA B IS LIMITED TO 82 CALENDAR DAYS.

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TAXILANE L CONSTRUCTION
GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI

ADDENDUM NO. 4 (GEOMETRY)
ADDENDUM NO. 2
ADDENDUM NO. 1

MARK	DATE	DESCRIPTION
------	------	-------------

REVISIONS	
PROJECT NO:	K19.025.001
DATE:	AUGUST 2025
DRAWN BY:	B. COOK
DESIGNED BY:	T.J. CORCORAN
CHECKED BY:	K.J. JOST

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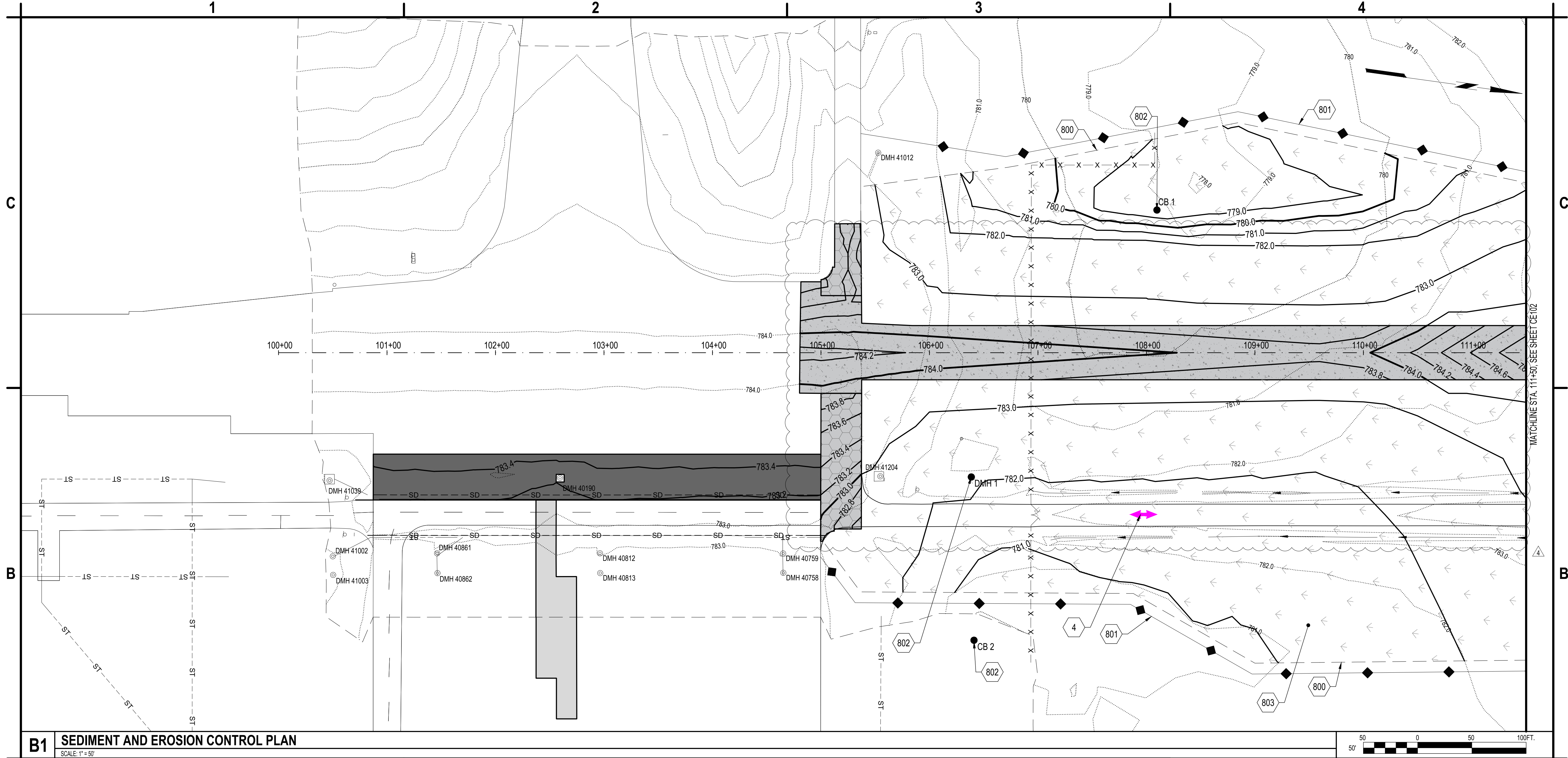
**CONSTRUCTION
SAFETY AND
PHASING PLAN -
WORK AREA B**

GC102

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B1 SEDIMENT AND EROSION CONTROL PLAN
SCALE: 1" = 50'

4. CONTRACTOR HAUL ROUTE
800. GRADING LIMIT LINE (TYP.)
801. INSTALLATION AND REMOVAL OF SILT FENCE, ITEM C-102, SEE DETAIL A1/CE501
802. INSTALLATION AND REMOVAL OF INLET PROTECTION, ITEM C-102, SEE DETAIL A3/CE501
803. SEEDING AND MULCHING, ITEM T-901 AND ITEM T-908

- THE FOLLOWING EROSION CONTROL PROCEDURE SHALL BE ADHERED TO BY THE CONTRACTOR:
1. INSTALL TEMPORARY SILT FENCE BARRIERS AS SHOWN ON THE PLAN AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT FENCE BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
 2. THE TOPSOIL SHALL BE STRIPPED & STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. NO TOPSOIL SHALL LEAVE THE AIRPORT PROPERTY.
 3. ALL SILT FENCES SHALL BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE & REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
 5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR AND WATER APPLIED AS NECESSARY AND AS DIRECTED BY THE OWNER AND/OR THE RPR IN ORDER TO CONTROL DUST.
 6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED & ROAD SURFACES CLEANED BY THE CONTRACTOR ON A CONTINUOUS BASIS.
 7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH & SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE & AS SOON AS PHYSICALLY POSSIBLE.
 8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM

- SEWERS, DITCHES & CULVERTS. SILT BUILD-UP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN.
9. IN ADDITION TO STORM WATER DISCHARGES, THE FOLLOWING NON-STORM WATER DISCHARGES MAY CONTRIBUTE TO THE RUN-OFF FROM THE SITE:
 - WATER FROM WATER SERVICE FLUSHINGS
 - WATER USED TO WASH DOWN CONSTRUCTION VEHICLES (NO DETERGENTS)
 - WATER USED FOR DUST CONTROL
 - UNCONTAMINATED GROUNDWATER
 10. THE ABOVE NON-STORM WATER FLOWS SHALL BE TREATED IN THE SAME MANNER AS STORM WATER FLOWS INDICATED HEREIN.
 11. CONTRACTOR TO INSTALL CONCRETE WASHOUT AREA. LOCATION SHALL BE DETERMINED BY RPR AND OWNER.

**THIS PLAN IS TO BE
PRINTED IN COLOR**

A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 SOIL EROSION NOTES
SCALE: NOT TO SCALE



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TAXILANE L CONSTRUCTION
GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI

△	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K19.025.001		
DATE: AUGUST 2025		
DRAWN BY: B. COOK		
DESIGNED BY: T.J. CORCORAN		
CHECKED BY: K.J. JOST		
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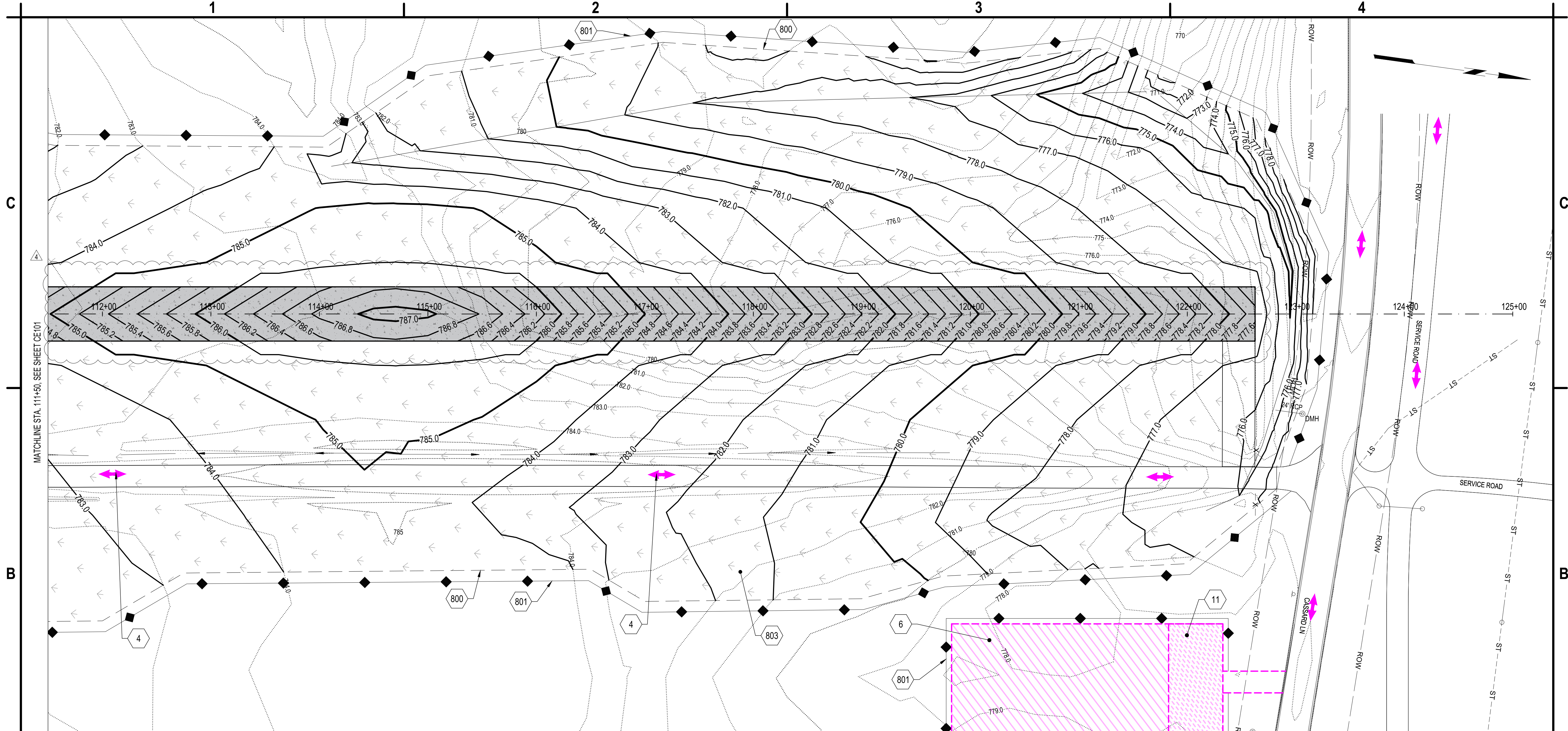
**SEDIMENT AND
EROSION CONTROL
PLAN**

CE101

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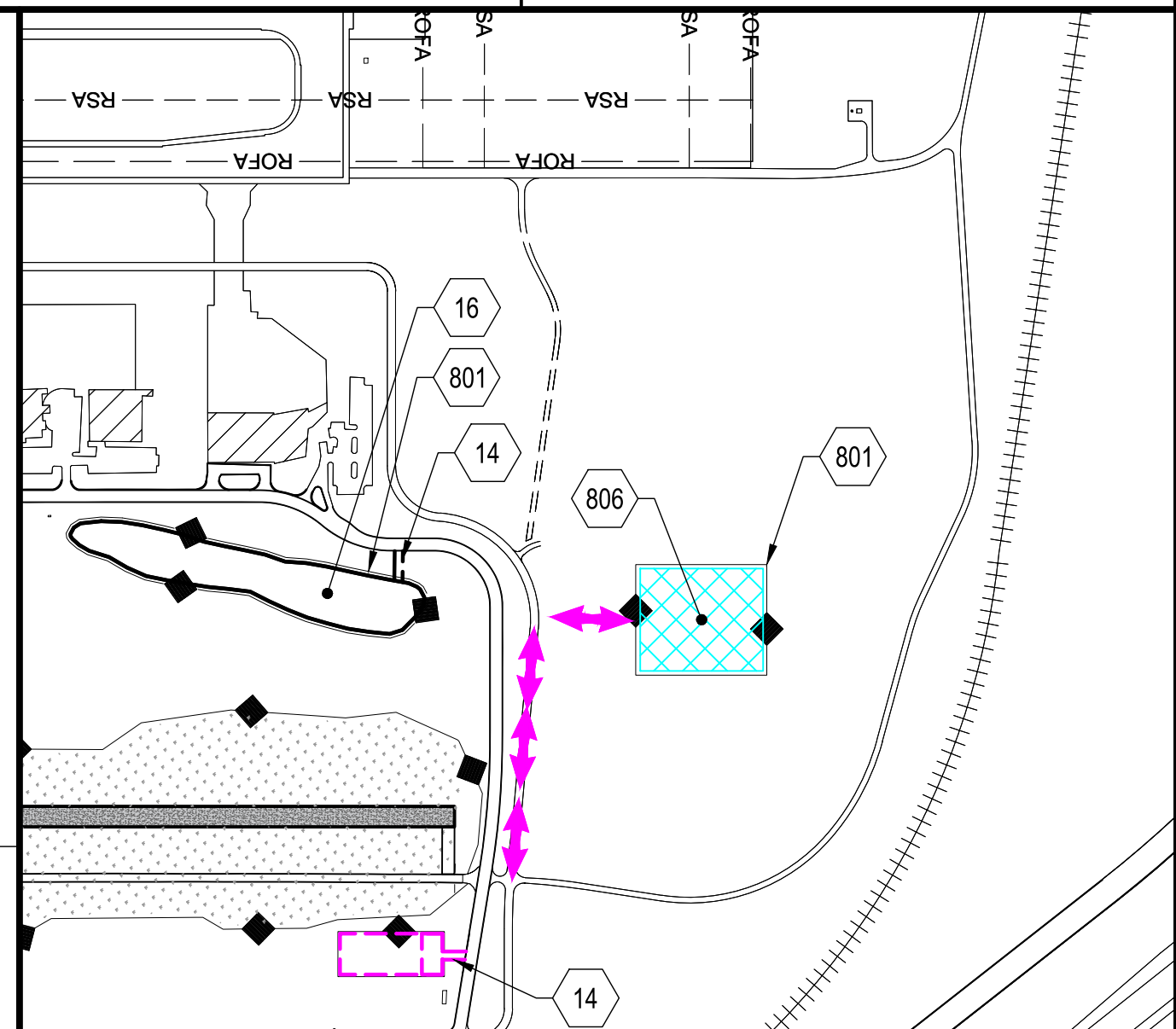
B1 SEDIMENT AND EROSION CONTROL PLAN

4. CONTRACTOR HAUL ROUTE
6. CONTRACTORS STAGING AREA
11. CONTRACTOR'S AND ENGINEERS FIELD OFFICE LOCATION
14. STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL C3/GC501. CONTRACTOR SHALL PROVIDE RUBBER RAMP AT EXISTING CURB INCIDENTAL TO ITEM C-105
16. BORROW AREA
800. GRADING LIMIT LINE (TYP.)
801. INSTALLATION AND REMOVAL OF SILT FENCE, ITEM C-102, SEE DETAIL A1/CE501
803. SEEDING AND MULCHING, ITEM T-901 AND ITEM T-908
806. SPOIL LOCATION FOR PROJECT (MAXIMUM ALLOWABLE HEIGHT IN SPOIL AREA IS 20'). ALL SPOILS SHALL BE GRADED IN A MANNER THAT ALLOWS FOR DRAINAGE.

- THE FOLLOWING EROSION CONTROL PROCEDURE SHALL BE ADHERED TO BY THE CONTRACTOR:
1. INSTALL TEMPORARY SILT FENCE BARRIERS AS SHOWN ON THE PLAN AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT FENCE BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
 2. THE TOPSOIL SHALL BE STRIPPED & STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE AND/OR REMOVAL OF TOPSOIL FROM THE SITE MUST BE FOLLOWED.
 3. ALL SILT FENCES SHALL BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE & REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
 5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR AND WATER APPLIED AS NECESSARY AND AS DIRECTED BY THE OWNER AND/OR THE RPR IN ORDER TO CONTROL DUST.
 6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED & ROAD SURFACES CLEANED BY THE CONTRACTOR ON A CONTINUOUS BASIS.
 7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH & SEEDDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE & AS SOON AS PHYSICALLY POSSIBLE.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES & CULVERTS. SILT BUILD-UP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN.
9. IN ADDITION TO STORM WATER DISCHARGES, THE FOLLOWING NON-STORM WATER DISCHARGES MAY CONTRIBUTE TO THE RUN-OFF FROM THE SITE:
 - WATER FROM WATER SERVICE FLUSHINGS
 - WATER USED TO WASH DOWN CONSTRUCTION VEHICLES (NO DETERGENTS)
 - WATER USED FOR DUST CONTROL
 - UNCONTAMINATED GROUNDWATER
10. THE ABOVE NON-STORM WATER FLOWS SHALL BE TREATED IN THE SAME MANNER AS STORM WATER FLOWS INDICATED HEREIN.

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A4 SPOILS/BORROW AREA

SCALE: 1" = 400'

A1 KEYED NOTES

SCALE: NOT TO SCALE

A2 SOIL EROSION NOTES

SCALE: NOT TO SCALE



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TAXILANE L CONSTRUCTION GERALD R. FORD INTERNATIONAL AIRPORT GRAND RAPIDS, MI

MARK	DATE	DESCRIPTION
4	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
REVISIONS		
PROJECT NO: K19.025.001		
DATE: AUGUST 2025		
DRAWN BY: B. COOK		
DESIGNED BY: T.J. CORCORAN		
CHECKED BY: K.J. JOST		
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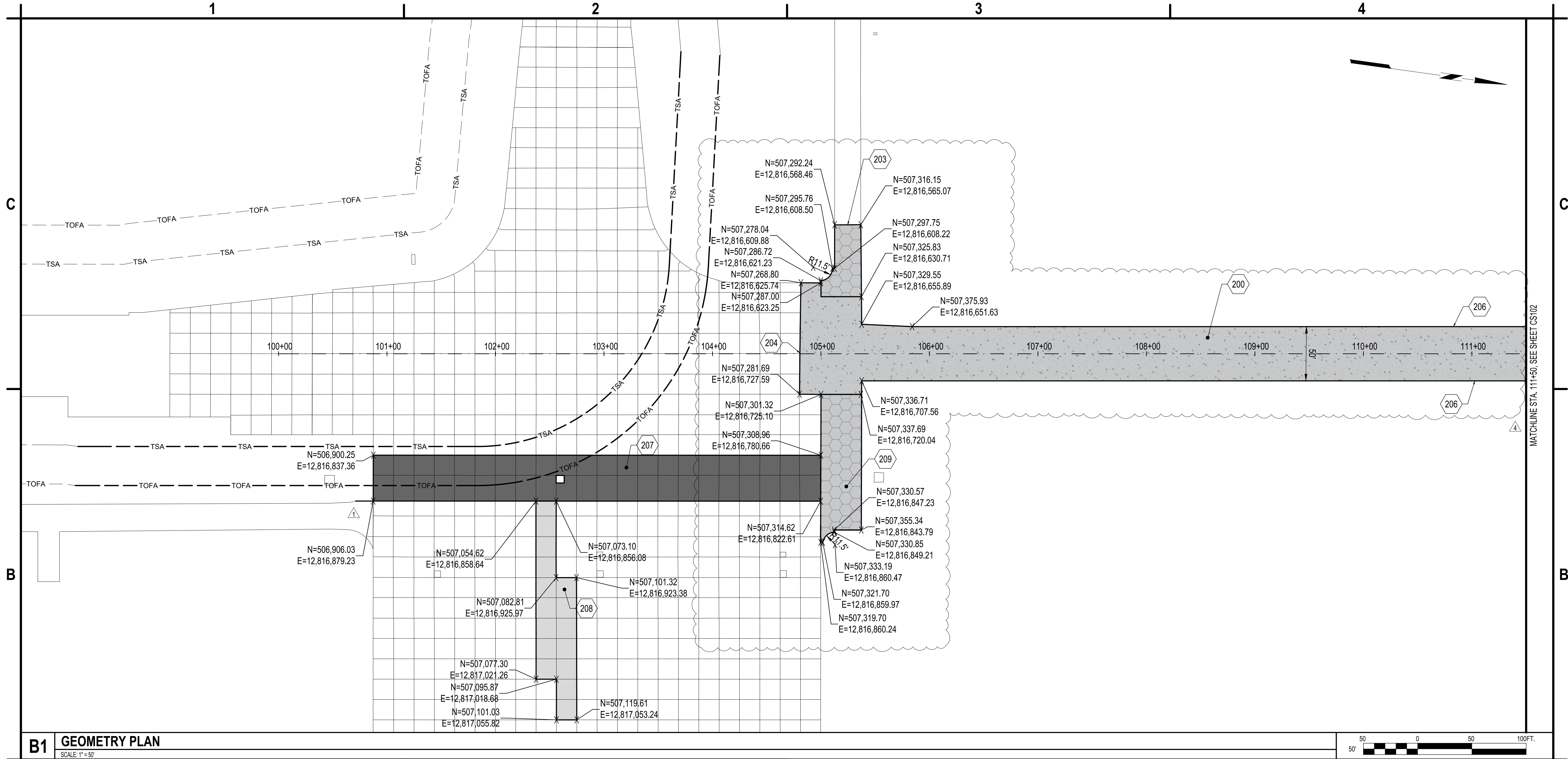
SEDIMENT AND EROSION CONTROL PLAN

CE102

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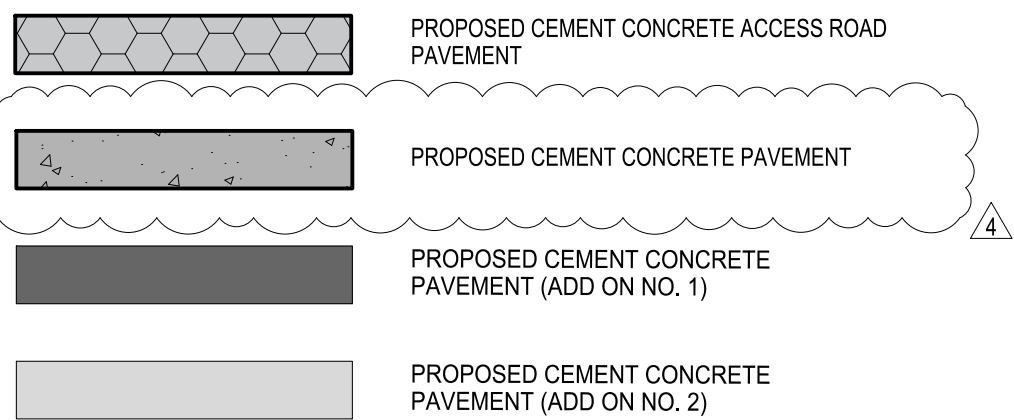
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B1 GEOMETRY PLAN
SCALE: 1"=50'



200. FULL STRENGTH CONCRETE PAVEMENT, ITEM P-501, SEE DETAIL C2/CP502
203. MEET EXISTING CONCRETE SERVICE ROAD, SEE DETAIL B1/CP501
204. MEET EXISTING PAVEMENT, SEE CP SERIES
206. EDGE OF PROPOSED PAVEMENT, SEE CG SERIES
207. FULL STRENGTH CONCRETE PANEL REPLACEMENT (ADD ON NO. 1), SEE DETAIL A1/CP503.
208. FULL STRENGTH CONCRETE PANEL REPLACEMENT (ADD ON NO. 2), SEE DETAIL A1/CP503.
209. ACCESS ROAD PAVEMENT, ITEM P-501, SEE DETAIL A3/CP503



A1 KEYED NOTES AND LEGEND
SCALE: NOT TO SCALE

NOTES:

1. NORTHINGS AND EASTING ARE BASED ON MICHIGAN (MI) NAD83 SOUTH ZONE, INTERNATIONAL FEET.

A2 GENERAL NOTES
SCALE: NOT TO SCALE



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TAXILANE L CONSTRUCTION
GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI

4	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
4	08/29/2025	ADDENDUM NO. 1
MARK	DATE	DESCRIPTION

REVISIONS	
PROJECT NO:	K19.025.001
DATE:	AUGUST 2025
DRAWN BY:	B. COOK
DESIGNED BY:	T.J. CORCORAN
CHECKED BY:	K.J. JOST

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GEOMETRY PLAN


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	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
MARK	DATE	DESCRIPTION
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DATE: AUGUST 2025		
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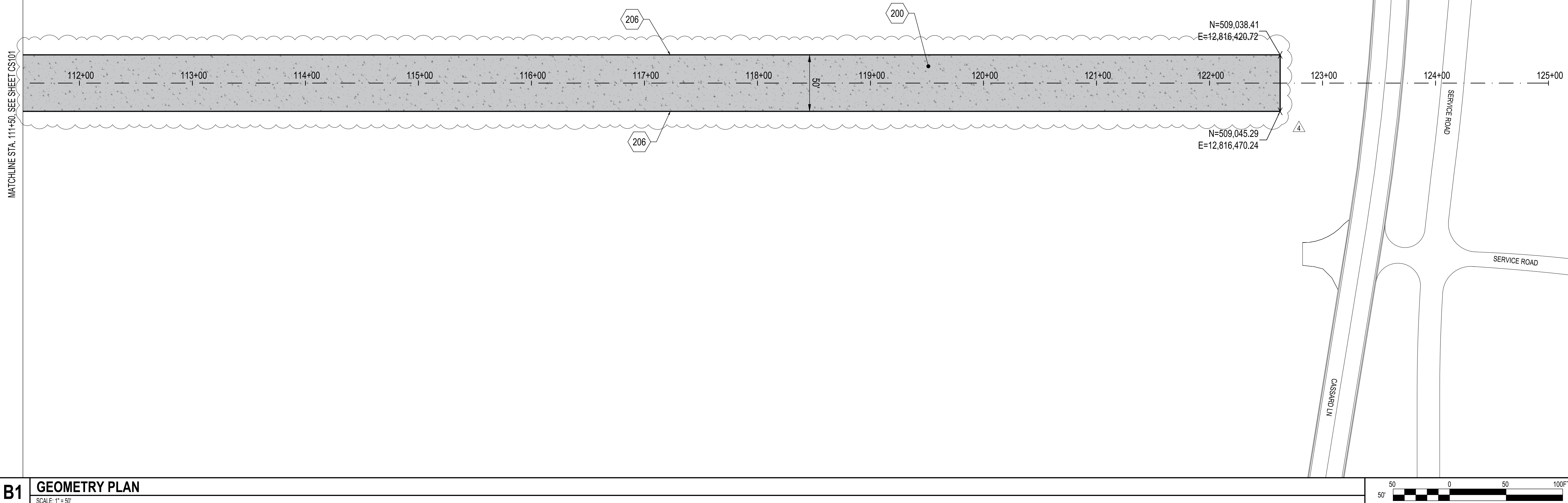
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GEOMETRY PLAN

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1 GEOMETRY PLAN

SCALE: 1" = 50'

200. FULL STRENGTH CONCRETE PAVEMENT, ITEM P-501, SEE DETAIL C2/CP502
206. EDGE OF PROPOSED PAVEMENT, SEE CG SERIES

NOTES:

1. NORTHINGS AND EASTING ARE BASED ON MICHIGAN (MI) NAD83 SOUTH ZONE, INTERNATIONAL FEET

4" PROPOSED PCC PAVEMENT

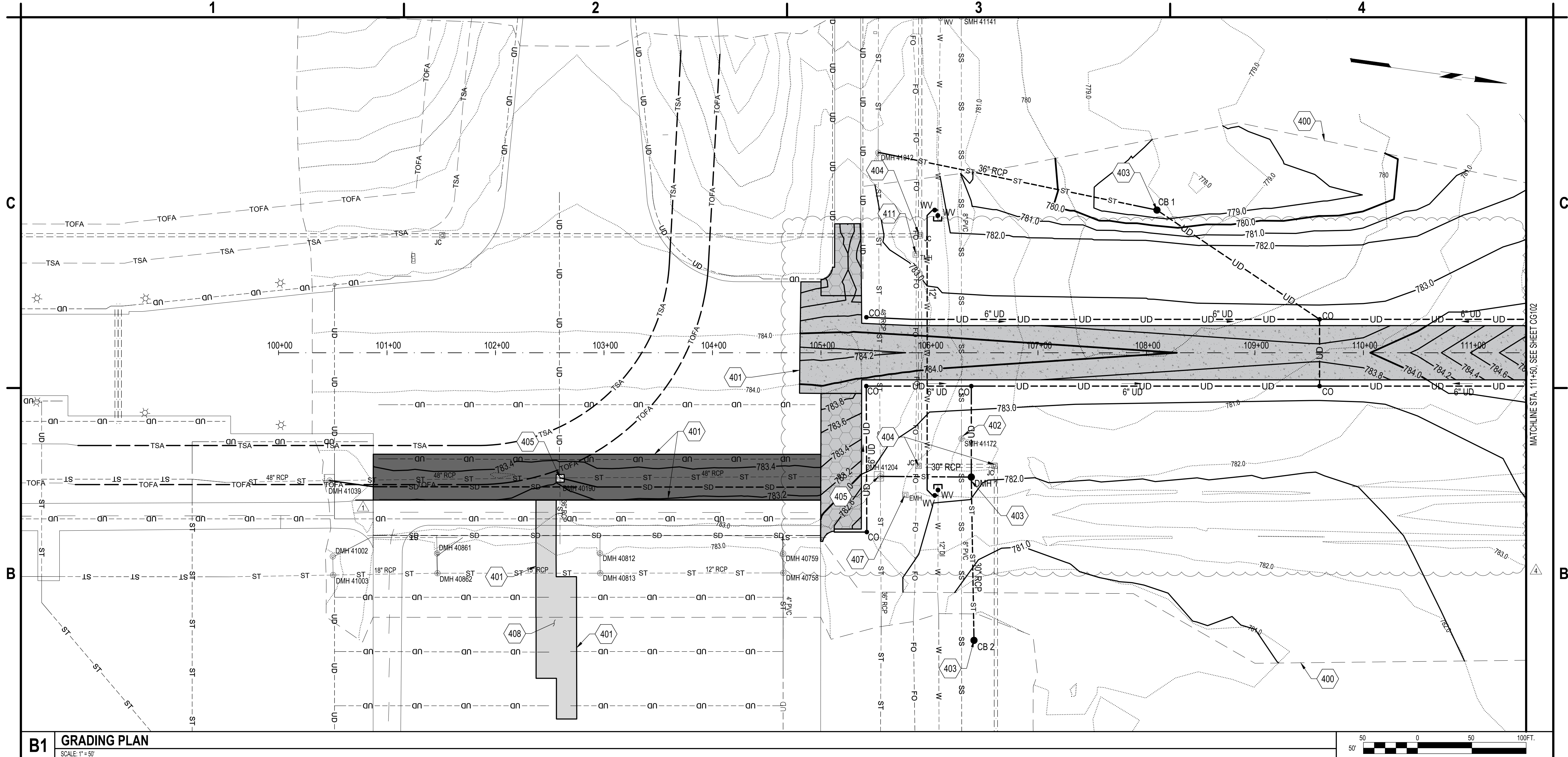
A1 **KEYED NOTES AND LEGEND**
SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

A2 GENERAL NOTES

SCALE: NOT TO SCALE

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B1 GRADING PLAN

SCALE: 1" = 50'

- 400. GRADING LIMIT LINE (TYP.)
- 401. MATCH EXISTING CONCRETE PAVEMENT
- 402. EXISTING STRUCTURE TO BE ADJUSTED TO GRADE, ITEM D-751, SEE DETAIL C3/CU503
- 403. PROPOSED DRAINAGE STRUCTURE, SEE DETAIL B3/CU501
- 404. FAA FIBER OPTIC JUNCTION CAN TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION
- 405. EXISTING DRAINAGE MANHOLE, PROTECT IN PLACE
- 407. EXISTING ELECTRICAL QUAZITE BOX TO BE ADJUSTED TO GRADE, INCIDENTAL TO ITEM P-152
- 408. MATCH EXISTING JOINT ELEVATIONS (TYP.)
- 411. EXISTING TELECOMMUNICATIONS MANHOLE ADJUST TO GRADE, ITEM L-115

NOTES:

- SEE THE CU SERIES FOR THE PROPOSED DRAINAGE INFRASTRUCTURE
- AN ISSUED FOR CONSTRUCTION GRADING PLAN WILL BE PROVIDED TO THE CONTRACTOR 30 DAYS PRIOR TO THE START OF CONSTRUCTION

4

A1 KEYED NOTES

SCALE: NOT TO SCALE

A2 GENERAL NOTES

SCALE: NOT TO SCALE



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TAXILANE L CONSTRUCTION GERALD R. FORD INTERNATIONAL AIRPORT GRAND RAPIDS, MI

4	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
4	08/29/2025	ADDENDUM NO. 1
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PROJECT NO: K19.025.001		
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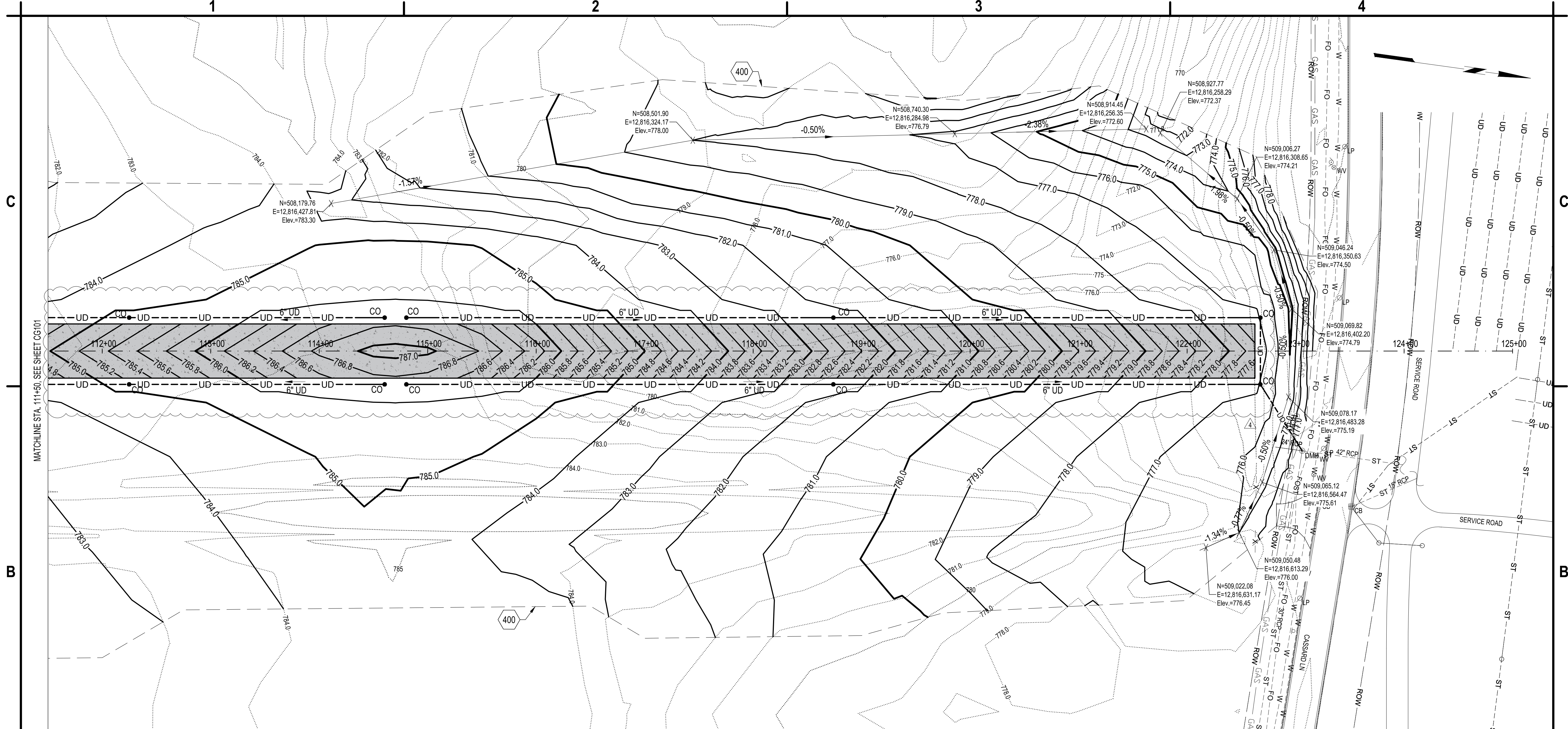
GRADING PLAN

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B1 GRADING PLAN
SCALE: 1" = 50'

400. GRADING LIMIT LINE (TYP.)

A1 KEYED NOTES
SCALE: NOT TO SCALE



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TAXILANE L CONSTRUCTION
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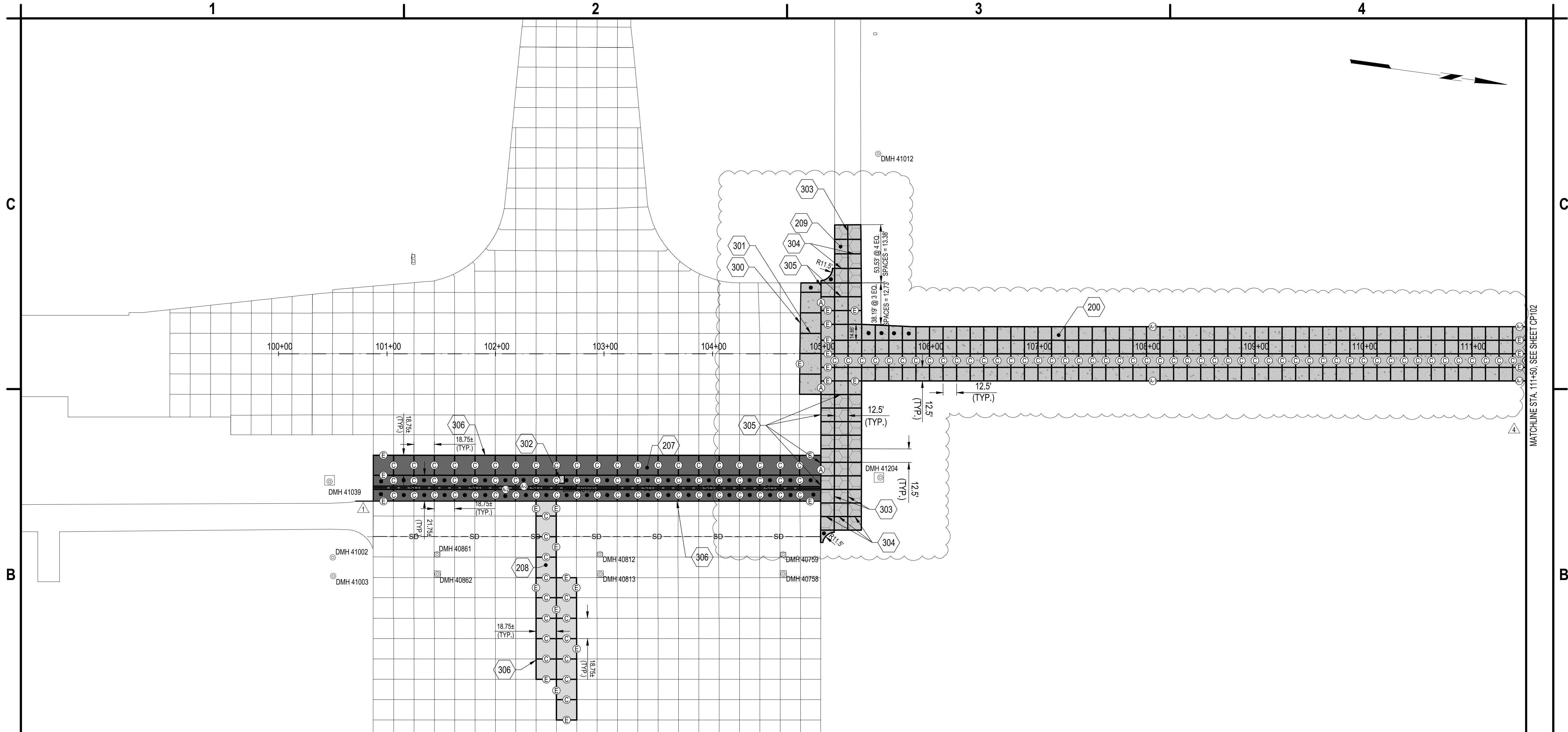
GRADING PLAN

CG102

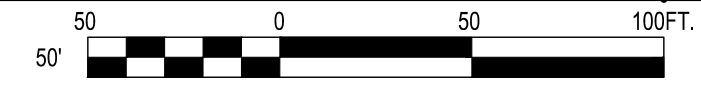
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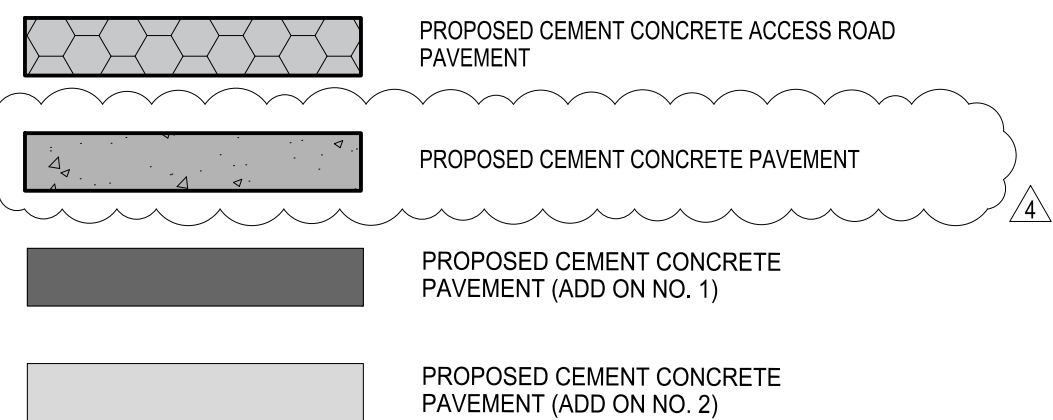


B1 JOINTING PLAN
SCALE: 1" = 50'



200. FULL STRENGTH CONCRETE PAVEMENT, ITEM P-501, SEE DETAIL C2/CP502
207. FULL STRENGTH CONCRETE PANEL REPLACEMENT (ADD ON NO. 1), SEE DETAIL A1/CP503.
208. FULL STRENGTH CONCRETE PANEL REPLACEMENT (ADD ON NO. 2), SEE DETAIL A1/CP503.
209. ACCESS ROAD PAVEMENT, ITEM P-501, SEE DETAIL A3/CP503
300. MATCH EXISTING CONCRETE PAVEMENT, SEE DETAILS A1/CP501 AND A4/CP502
301. PROPOSED JOINTS SHALL MATCH EXISTING JOINTS (TYP.)
302. PROTECT EXISTING STRUCTURE IN PLACE
303. ACCESS ROAD CONSTRUCTION JOINT WITH DOWEL BAR, SEE DETAIL B4/CP503
304. ACCESS ROAD CONTRACTION JOINT WITH DOWEL BAR BASKET, SEE DETAIL C4/CP503
305. ACCESS ROAD JUNCTURE SEE DETAIL A3/CP503
306. MATCH EXISTING CONCRETE PAVEMENT, SEE DETAIL A3/CP502

- (A) THICKENED EDGE ISOLATION JOINT, SEE DETAIL B2/CP501
- (E) CONSTRUCTION JOINT WITH DOWEL BAR, A1/CP501
- (C) CONTRACTION JOINT WITH DOWEL BASKET, SEE DETAIL A2/CP501
- (A-1) THICKENED EDGE ALONG FREE EDGE, SEE DETAIL A4/CP501
- (A-2) THICKENED EDGE ALONG SLOT DRAIN, SEE DETAIL A1/CU502
- IRREGULAR REINFORCED PAVEMENT SLABS, SEE DETAIL B3/CP501



NOTES:

- SEE ADDITIONAL CONCRETE PAVING NOTES ON A1/CP502.
- SPALLING ALONG EXISTING PAVEMENT SHALL BE REPAIRED PER DETAIL C1/CP503, ITEM P-101 SPALL REPAIR

A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 LEGEND
SCALE: NOT TO SCALE

A3 GENERAL NOTES
SCALE: NOT TO SCALE



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AIRPORT GRAND RAPIDS, MI

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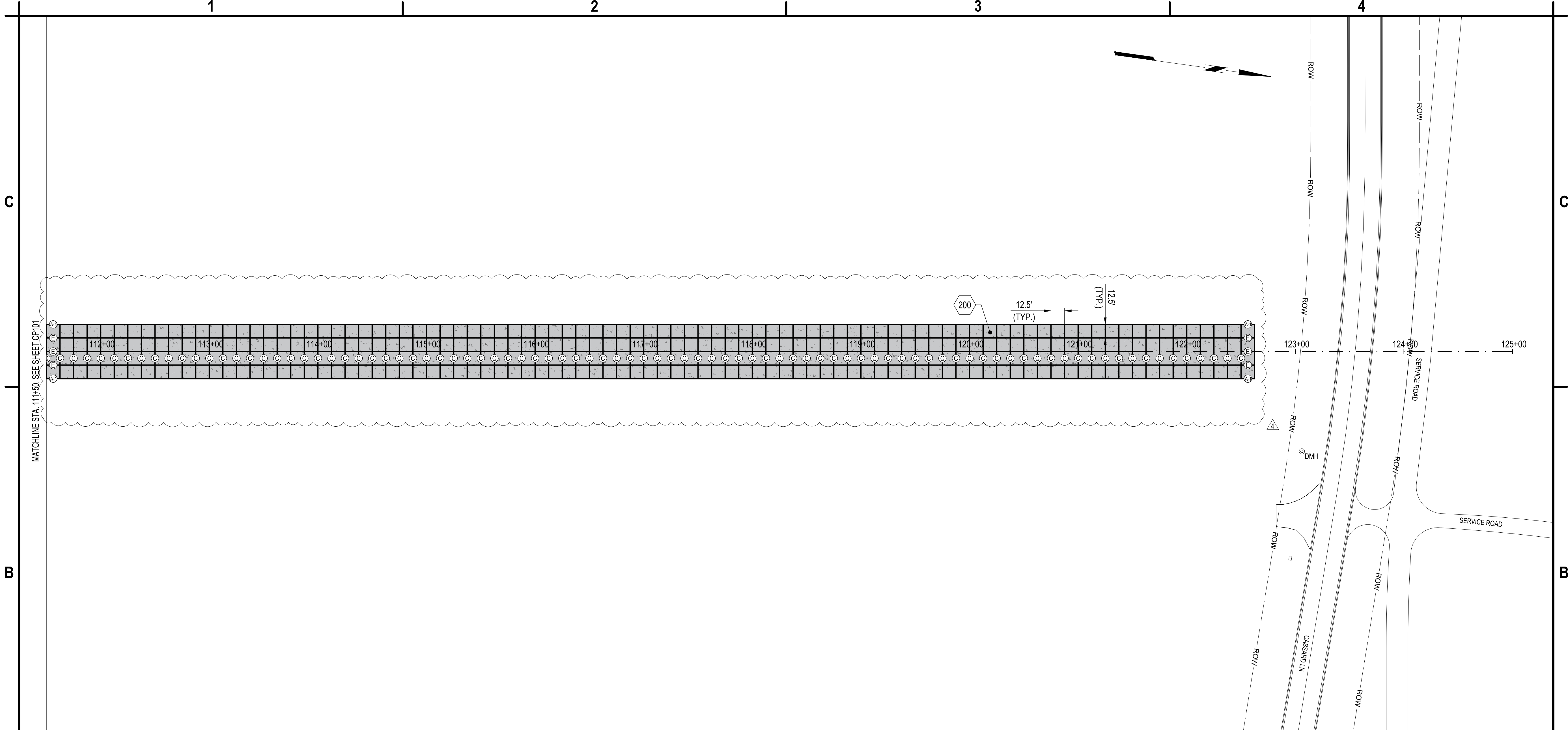
JOINTING PLAN

CP101

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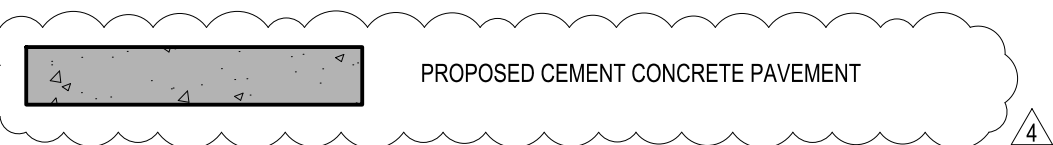
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B1 JOINTING PLAN
SCALE: 1" = 50'

200. FULL STRENGTH CONCRETE PAVEMENT, ITEM P-501, SEE DETAIL C2/CP502

- (A) THICKENED EDGE ISOLATION JOINT, SEE DETAIL B2/CP501
- (E) CONSTRUCTION JOINT WITH DOWEL BAR, A1/CP501
- (C) CONTRACTION JOINT WITH DOWEL BASKET, SEE DETAIL A2/CP501
- (A-1) THICKENED EDGE ALONG FREE EDGE, SEE DETAIL A4/CP501
- IRREGULAR REINFORCED PAVEMENT SLABS, SEE DETAIL B3/CP501



NOTES:

1. SEE ADDITIONAL CONCRETE PAVING NOTES ON A1/CP502.

A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 LEGEND
SCALE: NOT TO SCALE

A3 GENERAL NOTES
SCALE: NOT TO SCALE



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TAXILANE L CONSTRUCTION
GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI

4	09/12/2025	ADDENDUM NO. 4 (GEOMETRY)
1	08/29/2025	ADDENDUM NO. 1
MARK	DATE	DESCRIPTION

REVISIONS	
PROJECT NO:	K19.025.001
DATE:	AUGUST 2025
DRAWN BY:	B. COOK
DESIGNED BY:	T.J. CORCORAN
CHECKED BY:	K.J. JOST

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JOINTING PLAN

CP102

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4

-
- GRADE VARIES SEE CG SERIES
- 10' (TYP.)
- 5% SLOPE
- 5' 9"
- 3'
- 1'
- 1.5" DROP
- 1.5% SEE NOTE 1
- 50 (TYP.)
- TAXIWAY
- 10' (TYP.)
- 5% SLOPE
- 5' 9"
- 3'
- 1'
- 1.5% - 5.0% (TYP.)
- 4" TOPSOIL, INCLUDE COST IN T-905
- PROPOSED TAXILANE EDGE REFLECTOR (TYP.), SEE DETAIL B3/XM501
- JOINT TYPE AND SPACING VARIES. REFER TO SHEETS CP101 AND CP102
- DOVELED CONSTRUCTION JOINT
- 1.5" (MAX.) CHOKE STONE, INCIDENTAL TO ITEM P-501
- OVERLAP FILTER FABRIC (TYP.)
- PROPOSED UNDERCUT TO BE REMOVED, ITEM P-152 AND REPLACED WITH ITEM P-209, IF DIRECTED BY RPR
- SEE DETAIL A4/CP501
- 15' P-501 CEMENT CONCRETE PAVEMENT
- 6" P-304 CEMENT TREATED BASE COURSE
- 6" P-209 CRUSHED AGGREGATE BASE COURSE
- 15' P-154 SUBBASE COURSE
- COMPACTED SUBGRADE PER SPECIFICATION P-152
- PROPOSED UNDERDRAIN, SEE DETAIL A3/CU501 (TYP. BOTH SIDES)
- NOTE:
1. TRANSVERSE SLOPES SHALL BE 1.5% EXCEPT FROM STA. 105+00 TO STA. 106+00 SEE CG SERIES.

NOTE:

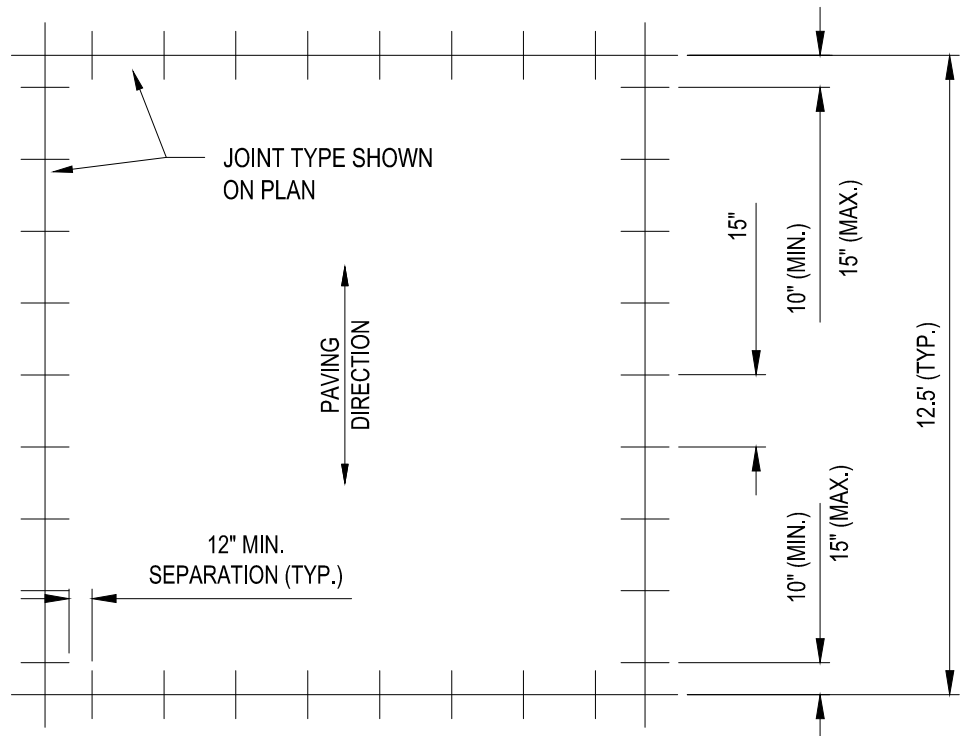
1. TRANSVERSE SLOPES SHALL BE 1.5% EXCEPT FROM STA. 105+00 TO STA. 106+00 SEE CG SERIES.

SCALE: NOT TO SCALE

-
- JOINT SEALER, ASTM D-5893, TYPE
SL, 3/4" DEPTH, +/- 1/8" ITEM P-805
- 1/4" TO 3/8"
- 3/4" +/- 1/8"
- 1/4" BEVEL OR CHAMFER
- 3/4" ISOLATION JOINT
FILLER ASTM D-1751
OR D-1752

SCALE: NOT TO SCALE

- NOTE:**
1. FOR SLAB SIZES NOT CONFORMING TO THE DETAILS SHOWN, DOWEL BARS SHALL BE SPACED 15" ON CENTER FOR THE PROPOSED PAVEMENT AND DOWEL BARS SHALL BE SPACED AT LEAST 10" FROM ANY SLAB CORNER.

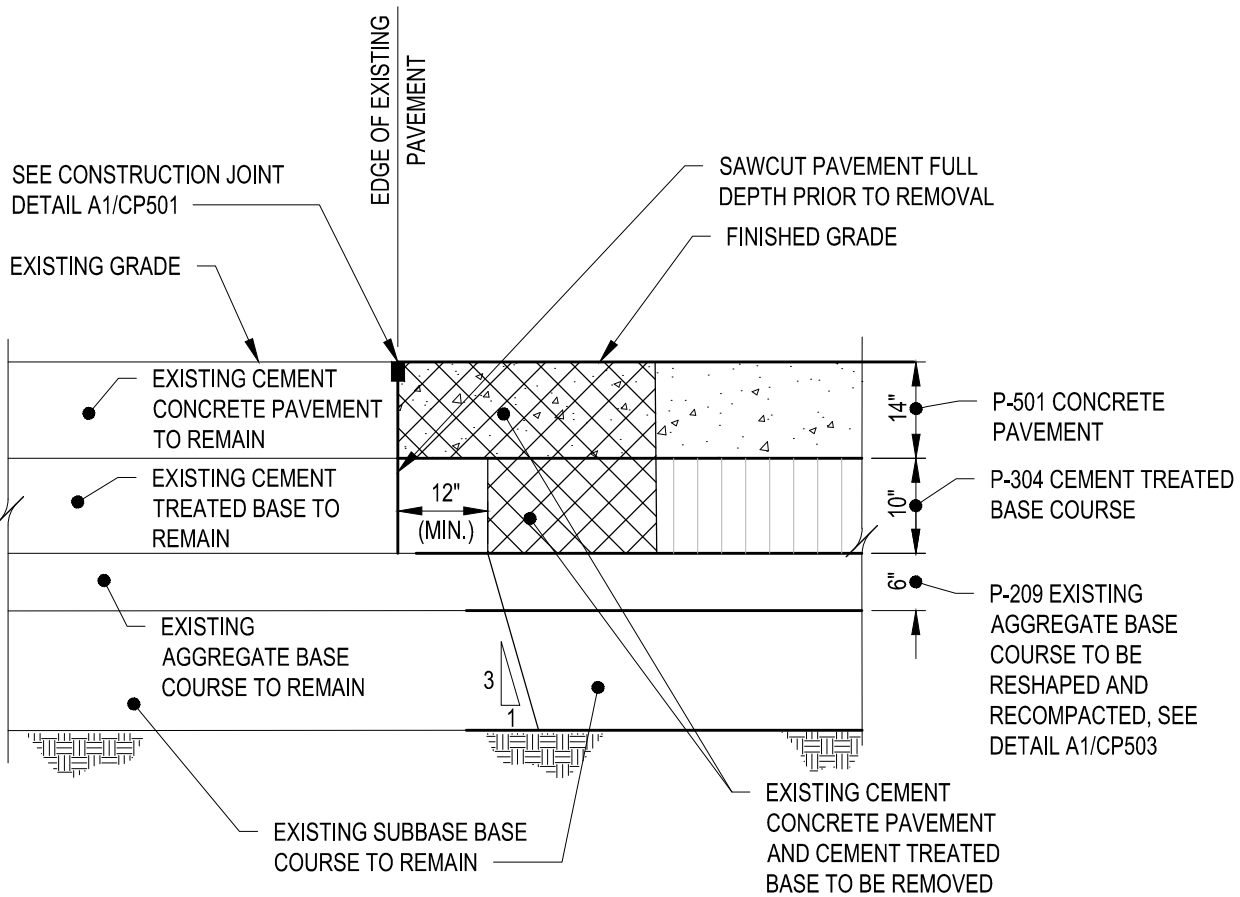


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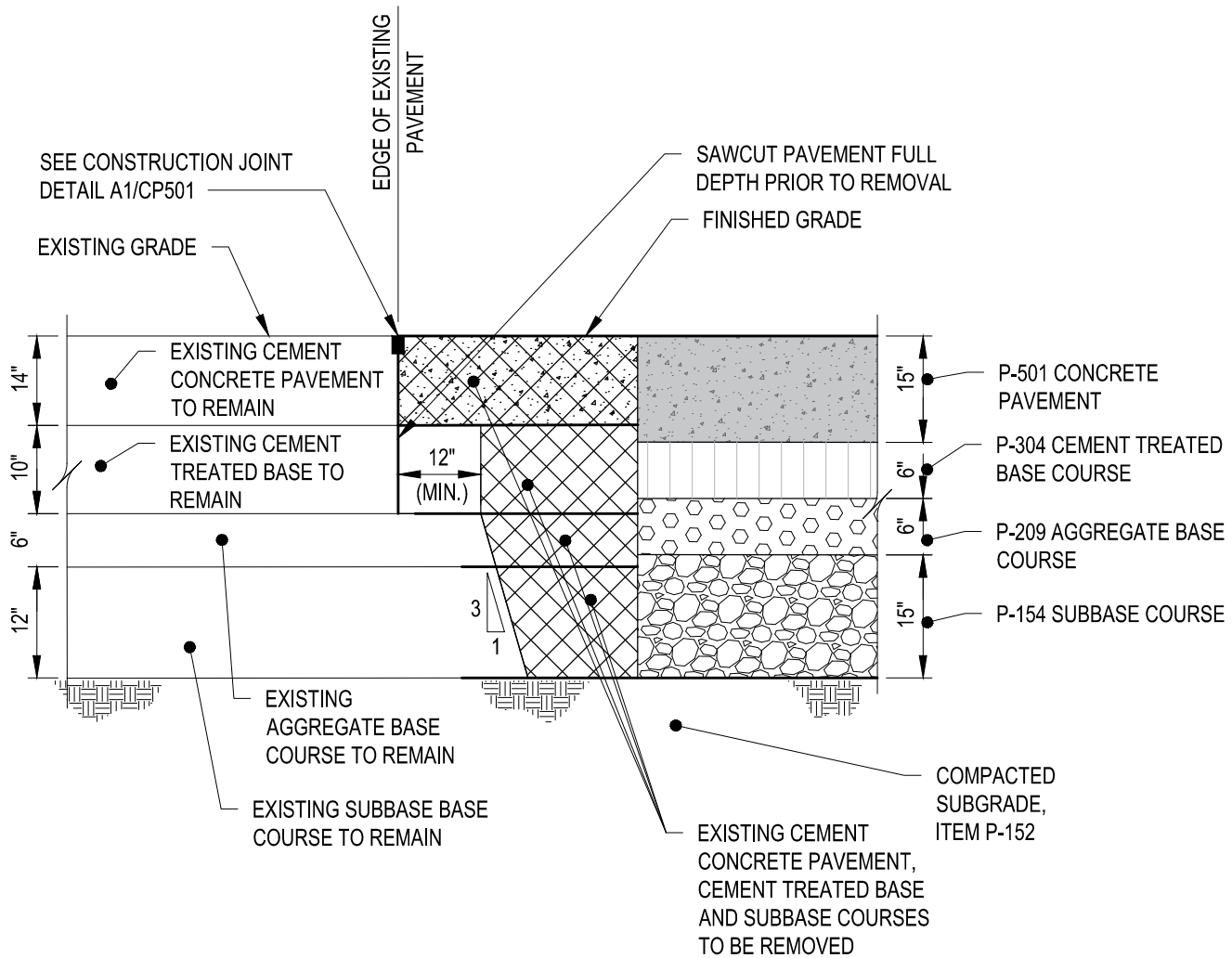
-
- Diagram illustrating a parapet wall cross-section. The wall has a sloped top surface and a vertical section. A dimension line indicates the vertical height of the vertical section is "VARIES". A dimension line indicates the horizontal distance from the base of the wall to the center of the rebar is "12" MIN.". A label "#4 REBAR" points to the rebar. A label "SEE NOTE 4" points to the sloped top surface.

SCALE: NOT TO SCALE

- SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

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**GERALD R. FORD INTERNATIONAL
AIRPORT GRAND RAPIDS, MI**

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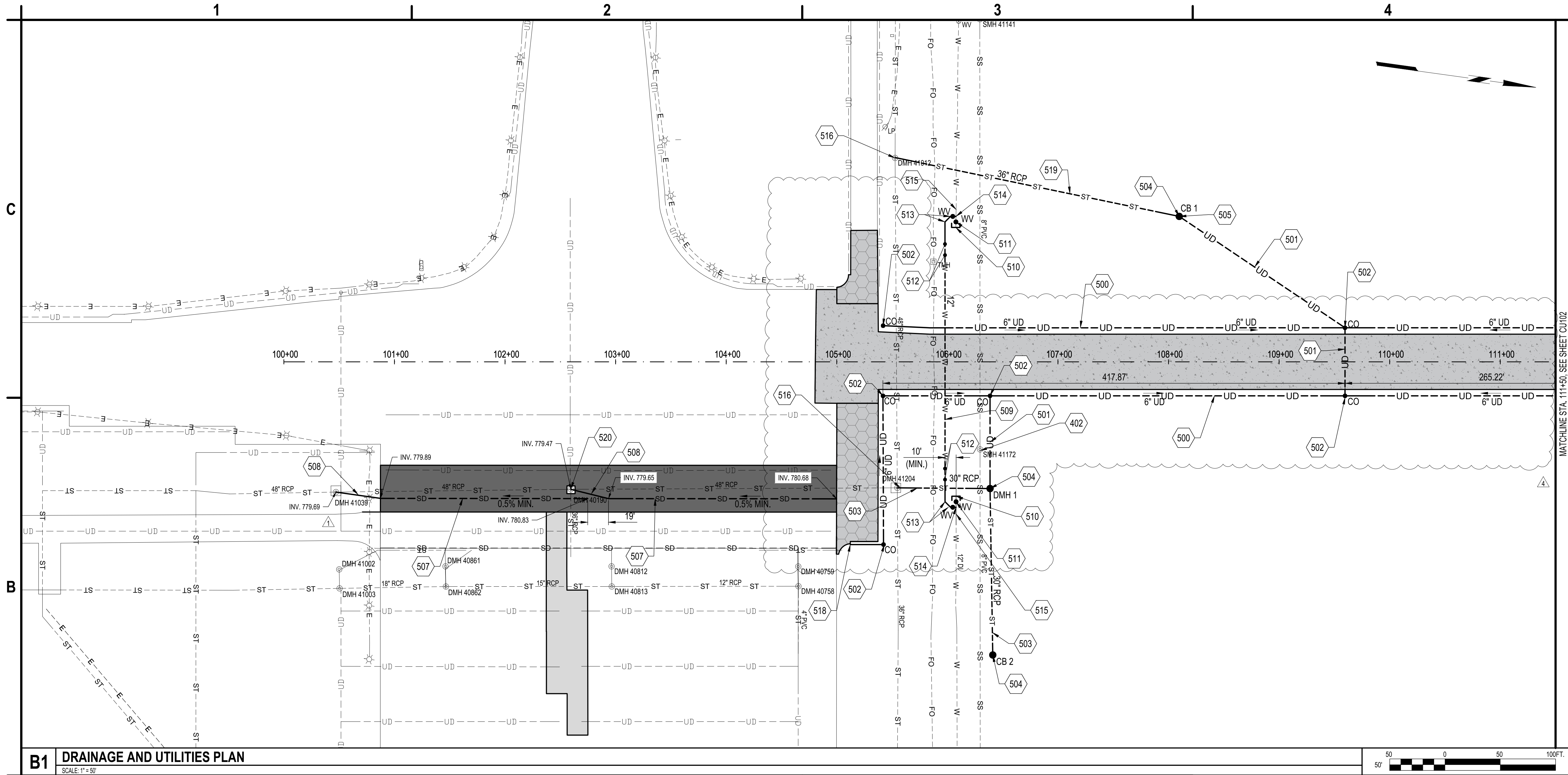
PAVEMENT DETAILS

CP502

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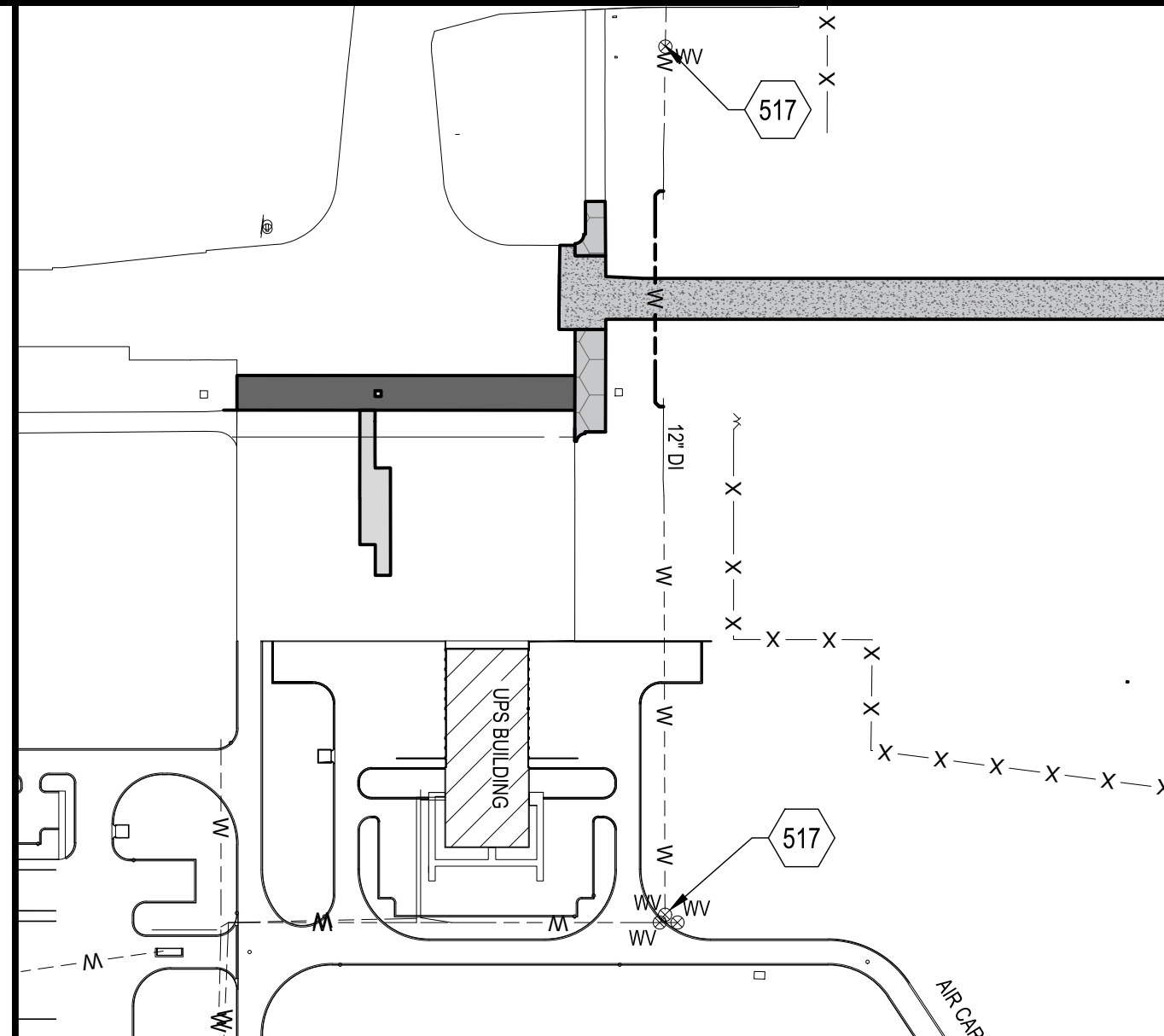


B1 DRAINAGE AND UTILITIES PLAN
SCALE: 1"=50'

402. EXISTING STRUCTURE TO BE ADJUSTED TO GRADE, ITEM D-751, SEE DETAIL C3/CU503
500. INSTALL UNDERDRAIN AT A 0.5% MIN. SLOPE, ITEM D-705 SEE DETAIL A3/CU501
501. SMOOTH WALL, NON PERFORATED UNDERDRAIN PIPE, ITEM D-705, SEE DETAIL B2/CU501
502. INSTALL CLEANOUT, ITEM D-751, SEE DETAIL A1/CU501
503. INSTALL 30" CLASS IV RCP STORM SEWER PIPE, ITEM D-701, SEE DETAIL C2/CU501
504. INSTALL CYLINDRICAL PRE-CAST STRUCTURE, ITEM D-751 SEE DETAIL B3/CU501
505. CONNECT UNDERDRAIN TO EXISTING OR PROPOSED STRUCTURE, INCIDENTAL TO ITEM D-705 SEE DETAIL C1/CU501
507. PROPOSED SLOT DRAIN, (ADD ON NO. 1) SEE DETAIL A1/CU502
508. CONNECT PROPOSED SLOT DRAIN TO EXISTING STRUCTURE, INCIDENTAL TO SLOT DRAIN INSTALLATION.
509. WATER MAIN, 12 INCH DIA., RESTRAINED, DI. SEE PROFILE C1/CU201 AND DETAIL B2/CU503. WATERLINE SHALL BE REPLACED IN ACCORDANCE WITH KEYED NOTE 131 ON SHEET CD101
510. 12 INCH WATER MAIN PLUG WITH RESTRAINED JOINTS THRUST BLOCK PER DETAIL A3/CU503
511. GATE VALVE, 12 INCH AND BOX, SEE DETAIL B1/CU503 (TYP.)
512. 12 INCH 45 DEGREE VERTICAL BEND WITH THRUST BLOCK PER DETAIL B3/CU503
513. 12 INCH 45 DEGREE HORIZONTAL BEND WITH THRUST BLOCK PER DETAIL B3/CU503
514. 12 INCH X 12 INCH X 12 INCH TEE

A1 KEYED NOTES
SCALE: NOT TO SCALE

515. SAWCUT AND CONNECT PROPOSED WATER MAIN TO EXISTING, SEE DETAIL C1/CU503
516. CONNECT PROPOSED PIPE TO EXISTING STRUCTURE. MODIFY EXISTING OPENING TO ACCEPT THE NEW PIPE AS REQUIRED. COST INCIDENTAL TO ITEM D-701
517. EXISTING WATERMAIN VALVE, SEE A3 THIS SHEET. WATERMAIN SHUT OFFS SHALL OCCUR FROM 11PM TO 5AM ON DATES APPROVED BY GRR
518. CAP PROPOSED UNDERDRAIN, INCIDENTAL TO UNDERDRAIN INSTALLATION, ITEM D-705
519. INSTALL 36" CLASS IV RCP STORM SEWER PIPE, ITEM D-701, SEE DETAIL C2/CU501
520. EXISTING STRUCTURE TO BE PROTECTED IN PLACE



A3 WATER VALVE LOCATION
SCALE: NOT TO SCALE



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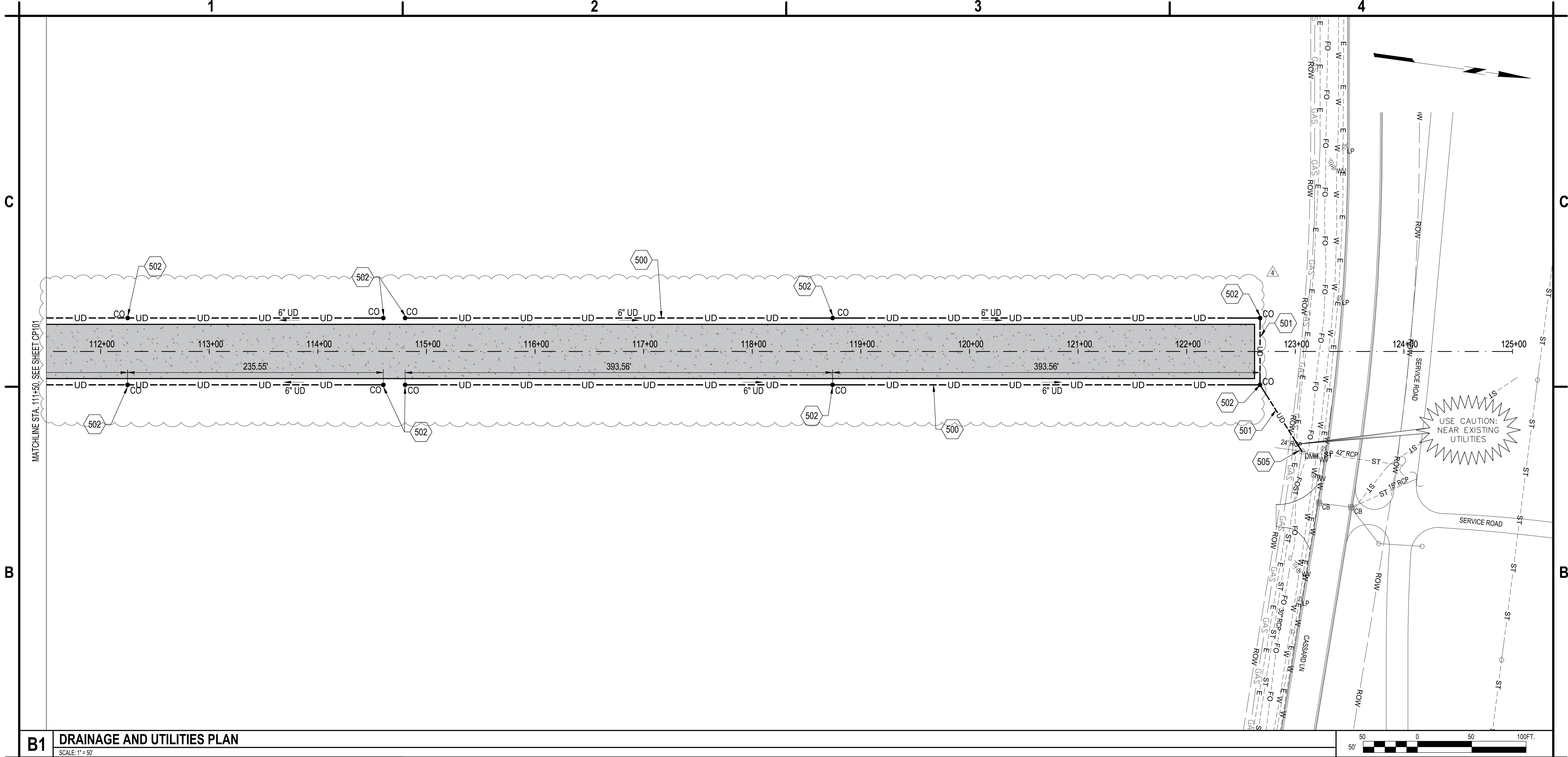
DRAINAGE AND UTILITIES PLAN

CU101

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B1 DRAINAGE AND UTILITIES PLAN
SCALE: 1" = 50'

500. INSTALL UNDERDRAIN AT A 0.5% MIN. SLOPE, ITEM D-705 SEE DETAIL A3/CU501
501. SMOOTH WALL, NON PERFORATED UNDERDRAIN PIPE, ITEM D-705, SEE DETAIL B2/CU501
502. INSTALL CLEANOUT, ITEM D-751, SEE DETAIL A1/CU501
505. CONNECT UNDERDRAIN TO EXISTING OR PROPOSED STRUCTURE, INCIDENTAL TO ITEM D-705 SEE DETAIL C1/CU501

A1 KEYED NOTES
SCALE: NOT TO SCALE



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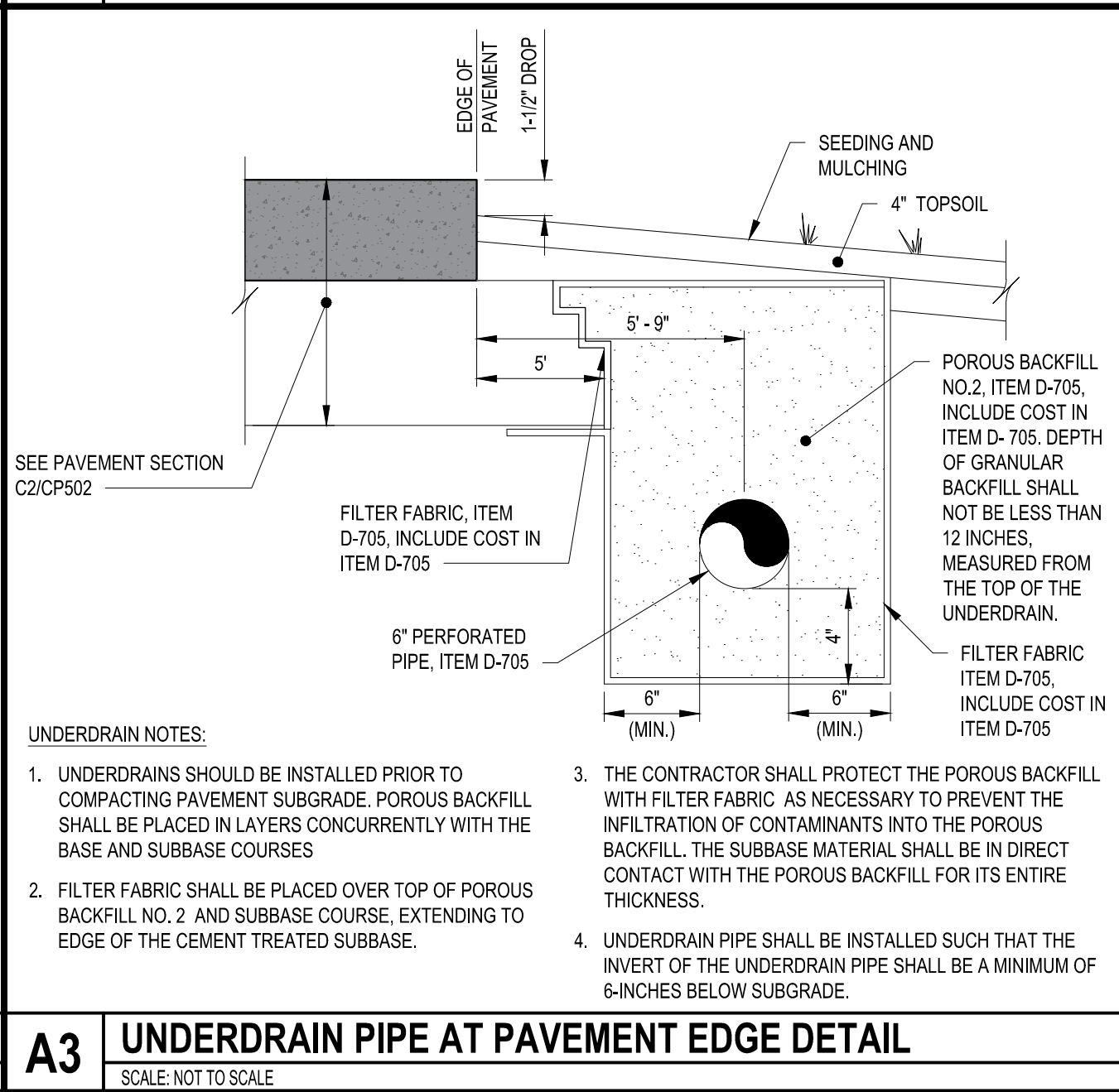
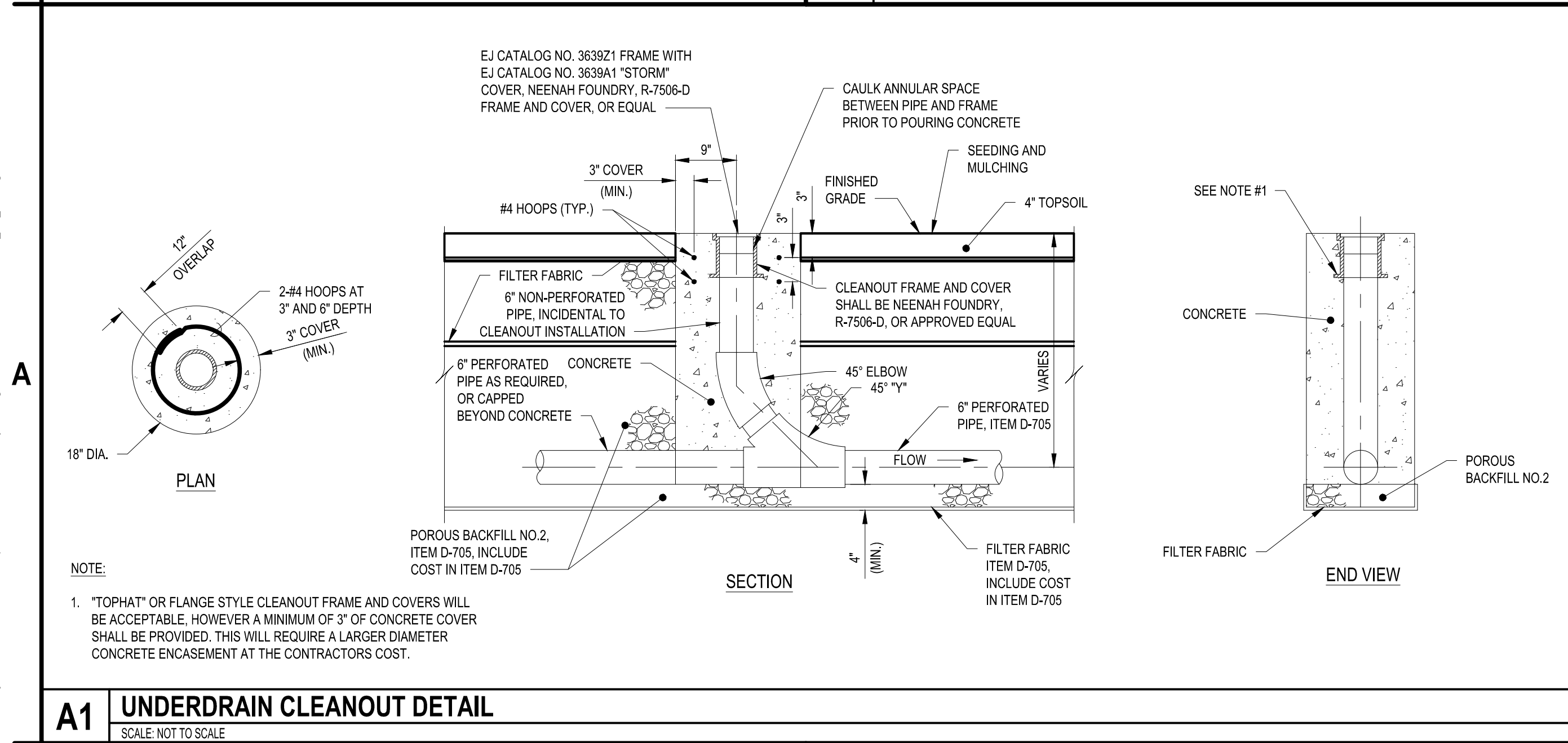
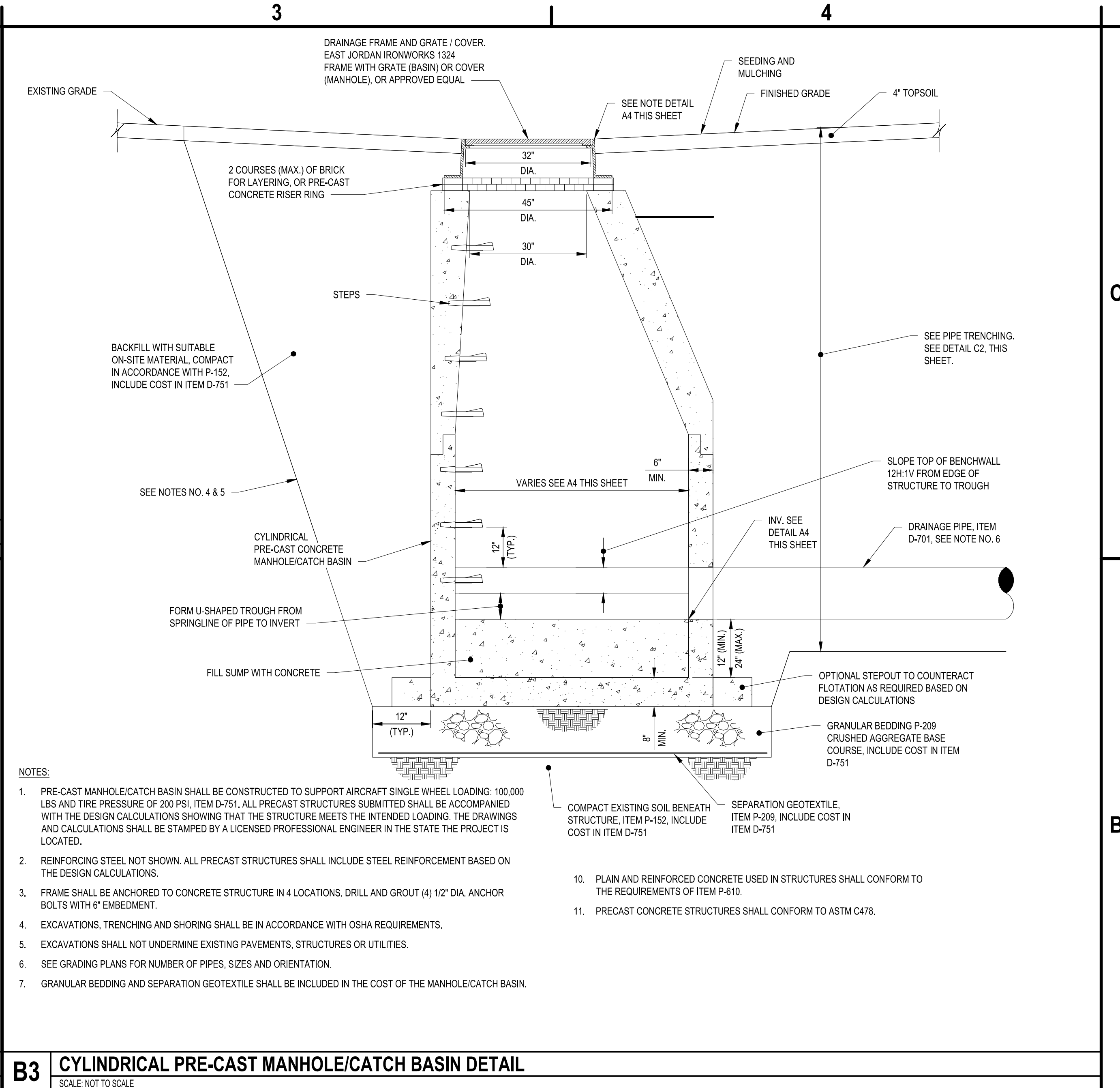
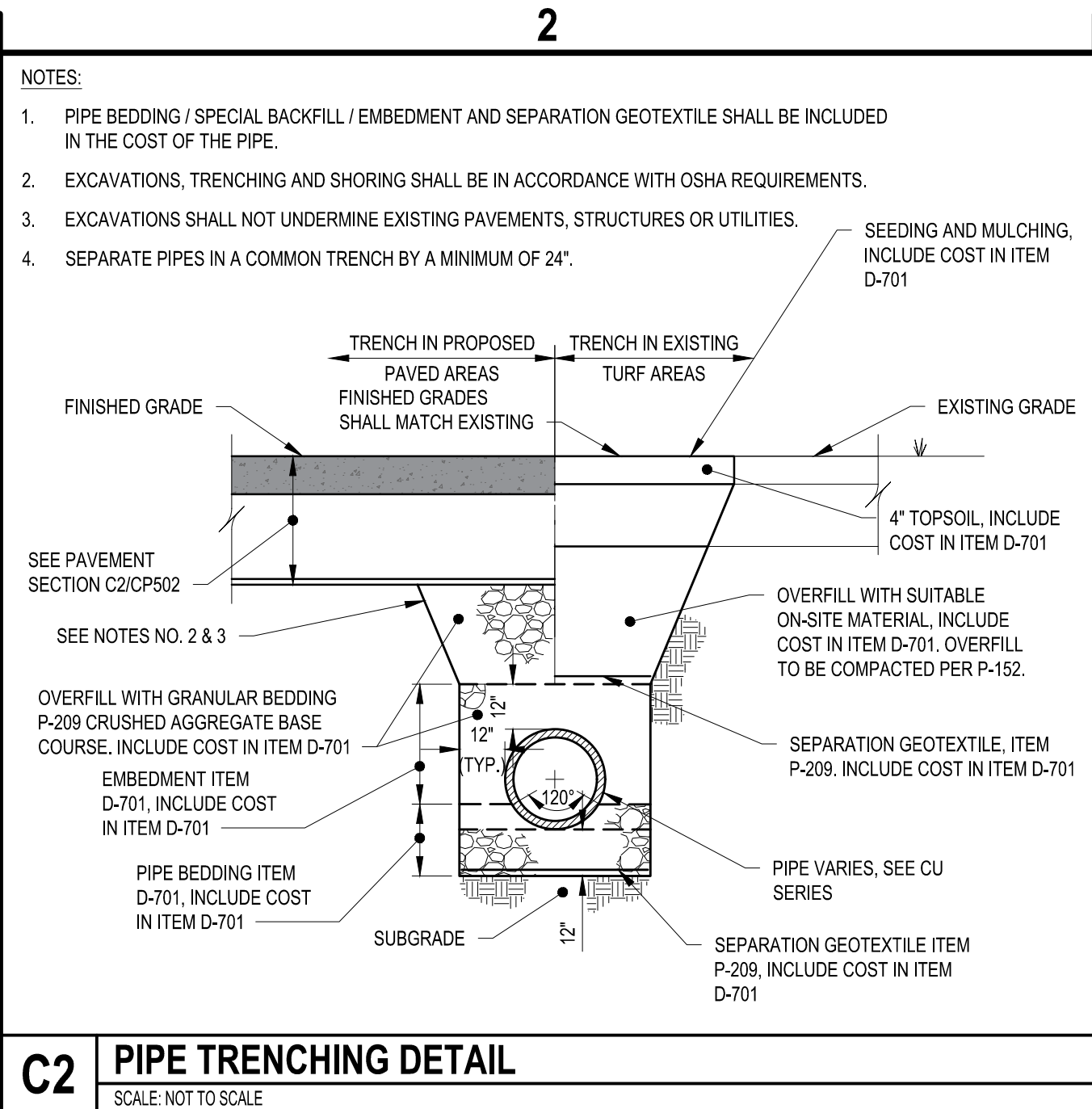
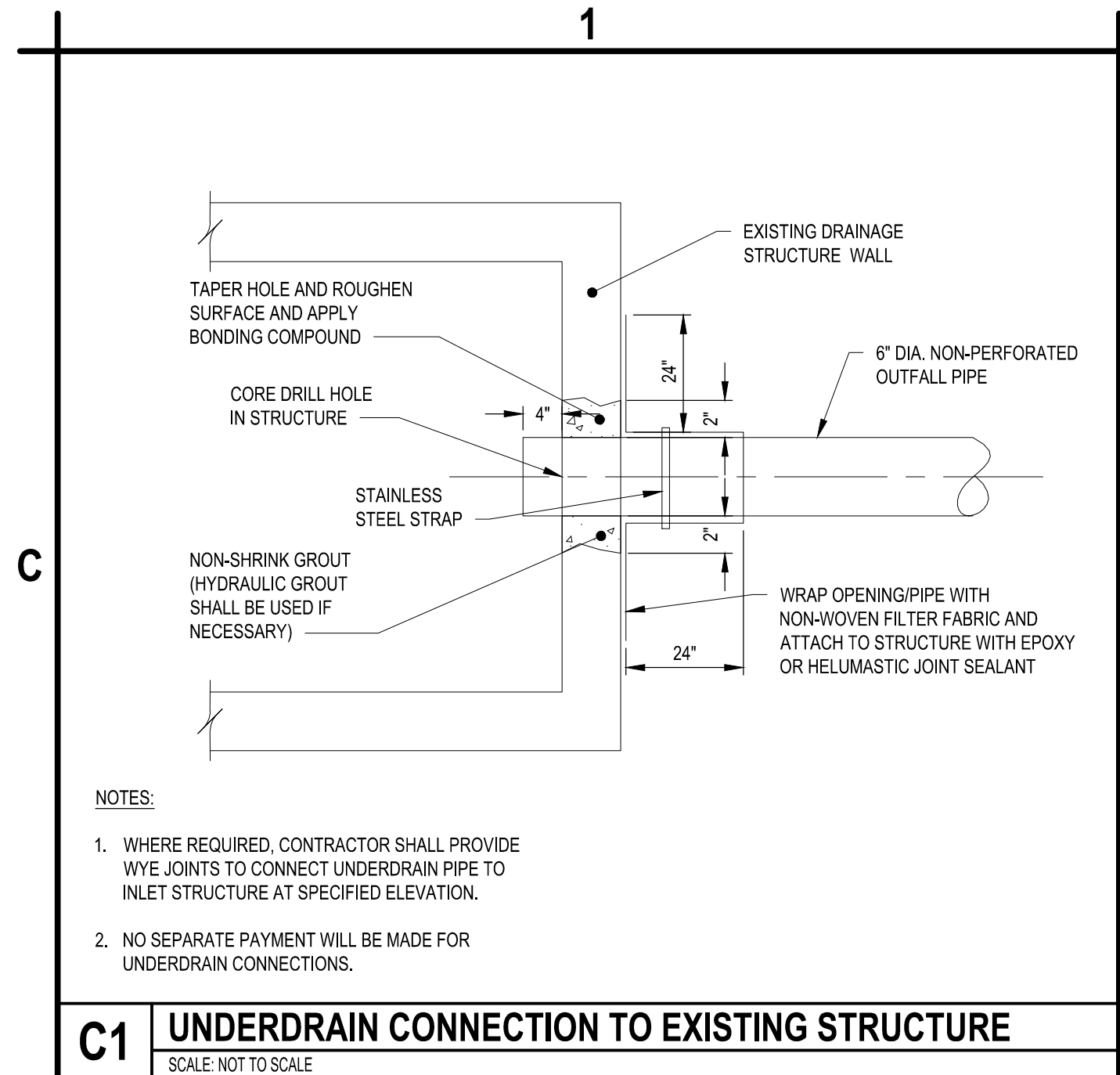
DRAINAGE AND UTILITIES PLAN

CU102

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A4 DRAINAGE STRUCTURE TABLE
SCALE: NOT TO SCALE

STRUCTURE TABLE			
STRUCTURE NUMBER	PIPE INVERTS	COORDINATES	STRUCTURE SIZE
CB 1	36" RCP S INV. = 768.63'	RIM = 778.00' NORTHING = 507620.37' EASTING = 12816475.70'	72" DIA.
CB 2	30" RCP W INV. = 767.87'	RIM = 779.37' NORTHING = 507472.28' EASTING = 12816931.09'	72" DIA.
DMH 1	30" RCP E INV. = 767.12' 30" RCP S INV. = 767.11'	RIM = 782.18' NORTHING = 507449.12' EASTING = 12816782.38'	84" DIA.
DMH 41012	36" RCP N INV. = 767.63' 48" RCP E INV. = 765.36' 48" RCP W INV. = 765.31'	RIM = 783.01' NORTHING = 507322.95' EASTING = 12816498.00'	SQ. 5' X 5'
DMH 41204	30" RCP N INV. = 766.69' 36" RCP E INV. = 767.64' 48" RCP S INV. = 766.44' 48" RCP W INV. = 766.39'	RIM = 782.84' NORTHING = 507365.97' EASTING = 12816793.32'	SQ. 5' X 5'

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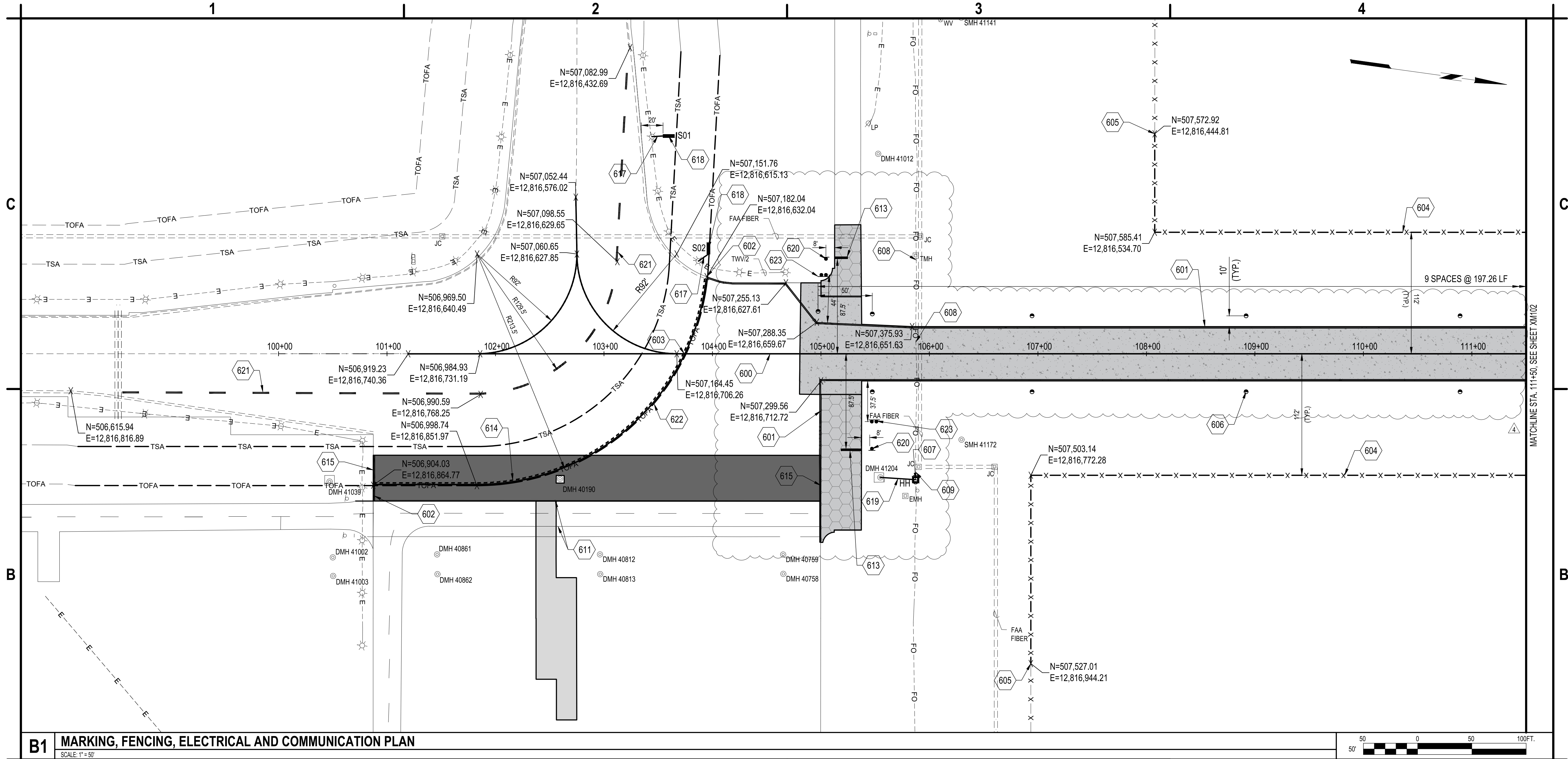
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DRAINAGE DETAILS		
CU501		
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B1 MARKING, FENCING, ELECTRICAL AND COMMUNICATION PLAN
SCALE: 1" = 50'



- | | |
|--|--|
| <p>600. TAXIWAY CENTERLINE MARKING, 12" WIDE, YELLOW WITH 6" WIDE BLACK BORDER ITEM P-620.</p> <p>601. CONTINUOUS TAXIWAY EDGE MARKING, YELLOW WITH 6" WIDE BLACK BORDER, ITEM P-620. SEE DETAIL A4/XM501.</p> <p>602. CONTINUOUS TAXIWAY EDGE MARKING INTERRUPTED BY NON-MOVEMENT AREA BOUNDARY MARKING, SEE DETAIL A1/XM501.</p> <p>603. CENTERLINE MARKING INTERRUPTED BY NON MOVEMENT AREA BOUNDARY MARKING, SEE DETAIL A1/XM501.</p> <p>604. 10-FOOT CHAIN LINK FENCE WITH BARBED WIRE, ITEM F-162. SEE DETAIL A2/XM501.</p> <p>605. PROPOSED FENCE TO CONNECT TO EXISTING FENCE, INCIDENTAL TO ITEM F-162.</p> <p>606. RETROREFLECTIVE MARKER, ITEM L-125. SEE DETAIL B3/XM501 (TYP.).</p> <p>607. ELECTRICAL HANDHOLE, ITEM L-115. SEE DETAIL B2/XM501.</p> <p>608. EXISTING FIBER OPTIC CONDUIT TO BE LOWERED TO A DEPTH OF 4 FEET BELOW PROPOSED GRADE. PROVIDE SPLIT CONDUIT AS NECESSARY TO CONNECT EXISTING CONDUIT TO PROPOSED OR EXISTING HAND HOLE. NO SPLICES SHALL BE INTRODUCED FOR THE LOWERING OF THE FIBER OPTIC CABLE, ITEM L-110. SEE FIBER OPTIC NOTES, A3 THIS SHEET</p> <p>609. CONNECT EXISTING CONDUIT TO PROPOSED HAND HOLE, INCIDENTAL TO ITEM L-115 (BASE BID).</p> <p>611. ALL DISTURBED PERIMETER ROAD MARKINGS SHALL BE REPLACED IN KIND. ALL PERIMETER ROAD MARKINGS SHALL BE 6 INCHES, WHITE WITH 6 INCH BLACK BORDER, INCIDENTAL TO OTHER ITEMS OF WORK.</p> <p>613. ROADWAY STOP BAR, 2' WIDE WHITE, ITEM P-620.</p> <p>614. NON-MOVEMENT AREA BOUNDARY MARKING TO BE REPLACED IN KIND, ITEM P-620. SEE DETAIL A1/XM501.</p> | <p>615. CONTINUOUS TAXIWAY EDGE MARKING, YELLOW WITH 6" WIDE BLACK BORDER, ITEM P-620. SEE DETAIL A4/XM501.</p> <p>617. INSTALL PVC CONDUIT, INCIDENTAL TO THE SIGN INSTALLATION. SEE DETAIL C3/XM501.</p> <p>618. TAXIWAY GUIDANCE SIGN, ITEM L-125. SEE DETAIL C1/XM501. CONTRACTOR SHALL PROVIDE NEW CABLE AND CONNECTORS FROM THE ADJACENT TAXIWAY EDGE LIGHT TO THE PROPOSED SIGN. CABLE AND CONNECTORS SHALL BE INCLUDED WITH THE SIGN INSTALLATION.</p> <p>619. 2-INCH DIA. PVC CONDUIT FOR DRAINAGE, INCIDENTAL TO HANDHOLE INSTALLATION, SEE DETAIL B2/XM501</p> <p>620. ACCESS ROAD STOP SIGN ASSEMBLY, 24" MUTCD R1-1 ON BREAKAWAY SIGN POST. MAX HEIGHT SHALL BE 48 INCHES AS MESURED FROM THE BOTTOM OF THE SIGN, ITEM L-125 STAKE MOUNTED GUIDIANCE SIGN.</p> <p>621. DASHED TAXIWAY EDGE MARKING, YELLOW WITH 6" WIDE BLACK BORDER, ITEM P-620. SEE DETAIL C4/XM501.</p> <p>622. NON-MOVEMENT AREA BOUNDARY MARKING, ITEM P-620. SEE DETAIL A1/XM501.</p> <p>623. ACCESS ROAD NO ENTRY SIGN ASSEMBLY, SEE DETAIL A3/XM501, ITEM L-125 STAKE MOUNTED GUIDIANCE SIGN.</p> |
|--|--|

A1 KEYED NOTES
SCALE: NOT TO SCALE

- NOTES:
1. THE CONTRACTOR SHALL LOWER THE EXISTING FIBER OPTIC CONDUIT TO A DEPTH OF 4 FEET BELOW THE PROPOSED GRADE. THE CONDUIT CONSISTS OF 3" HDPE WITH THREE 1" INNER DUCTS. THE FOLLOWING PROCEDURES MUST BE FOLLOWED IN EXECUTING THIS WORK.
 - 1.1. CAREFULLY EXPOSE THE EXISTING HDPE CONDUIT BETWEEN THE EXISTING FIBER OPTIC MANHOLES. CONDUIT IS LOCATED 12-24 INCHES BELOW GRADE, AS INDICATED BY RECORDS.
 - 1.2. EXCAVATE THE PROPOSED HANDHOLE AT THE DESIGNATED LOCATION.
 - 1.3. CAREFULLY CUT THE 3" CONDUIT WITHOUT DAMAGING THE FIBER OPTIC CABLES.
 - 1.4. TRENCH AT THE REQUIRED DEPTH BETWEEN HANDHOLES, RUNNING PARALLEL TO THE EXPOSED HDPE CONDUIT.
 - 1.5. RELOCATE THE EXISTING CONDUIT INTO THE NEWLY EXCAVATED TRENCH. THE TRENCHES SHALL BE BACKFILLED AND COMPACTED PER L-110.
 - 1.6. CONNECT THE EXISTING CONDUIT TO THE HANDHOLES USING SPLIT DUCT FOR THE 3-1" INNERDUCT AND THE 3 INCH HDPE CONDUIT AS NECESSARY.

A3 FIBER OPTIC MODIFICATION NOTES
SCALE: NOT TO SCALE



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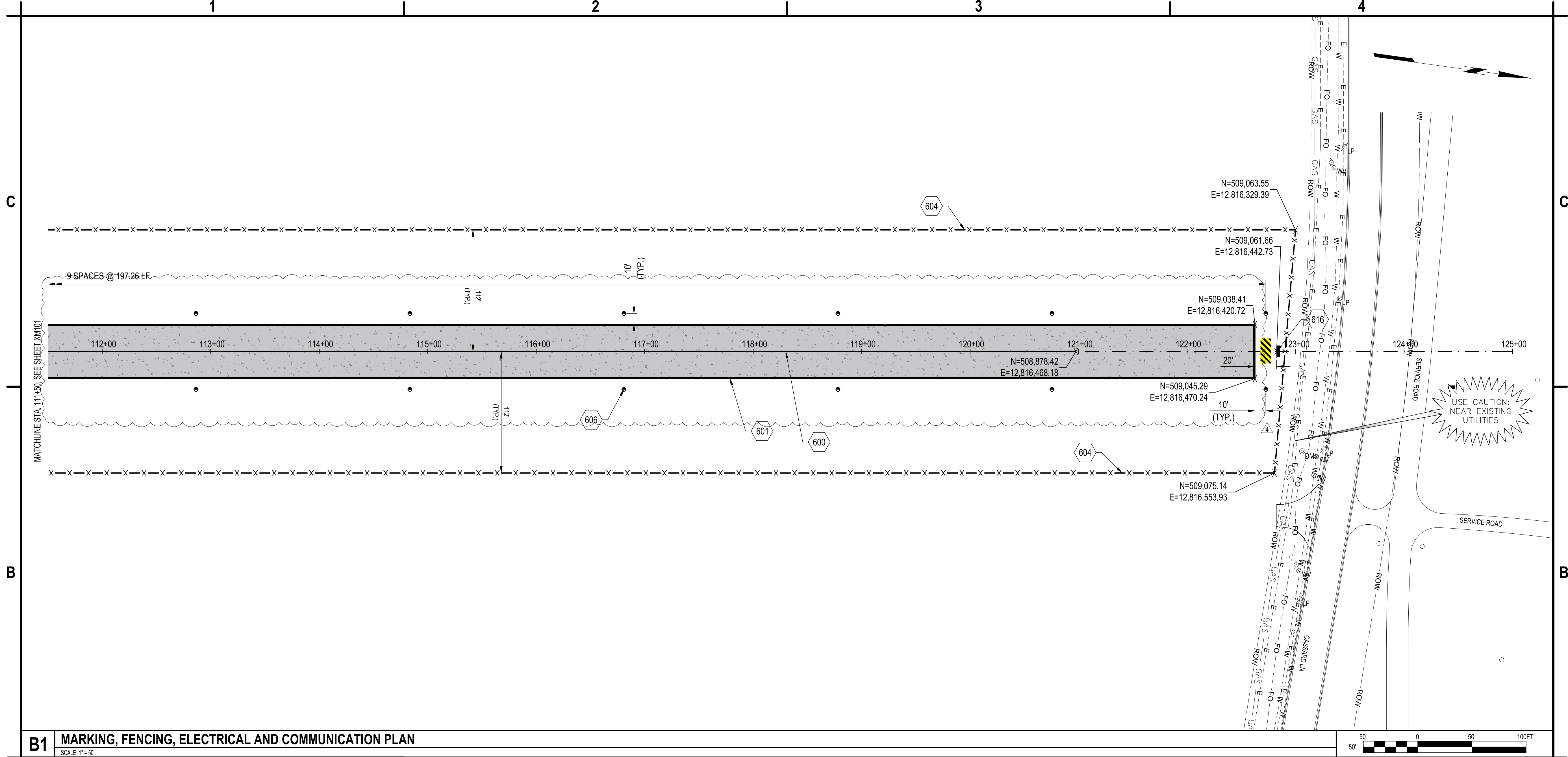
MARKING, FENCING,
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COMMUNICATION
PLAN

XM101

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B1 MARKING, FENCING, ELECTRICAL AND COMMUNICATION PLAN
SCALE: 1" = 50'

600. TAXIWAY CENTERLINE MARKING, 12" WIDE, YELLOW WITH 6" WIDE BLACK BORDER ITEM P-620.
601. CONTINUOUS TAXIWAY EDGE MARKING, YELLOW WITH 6" WIDE BLACK BORDER, ITEM P-620. SEE DETAIL A4/XM501.
604. 10-FOOT CHAIN LINK FENCE WITH BARBED WIRE, ITEM F-162. SEE DETAIL A2/XM501.
606. RETROREFLECTIVE MARKER, ITEM L-125. SEE DETAIL B3/XM501 (TYP.).
616. UNLIGHTED TAXIWAY ENDING MARKER, ITEM L-125, SEE DETAIL B1/XM501

A1 KEYED NOTES
SCALE: NOT TO SCALE



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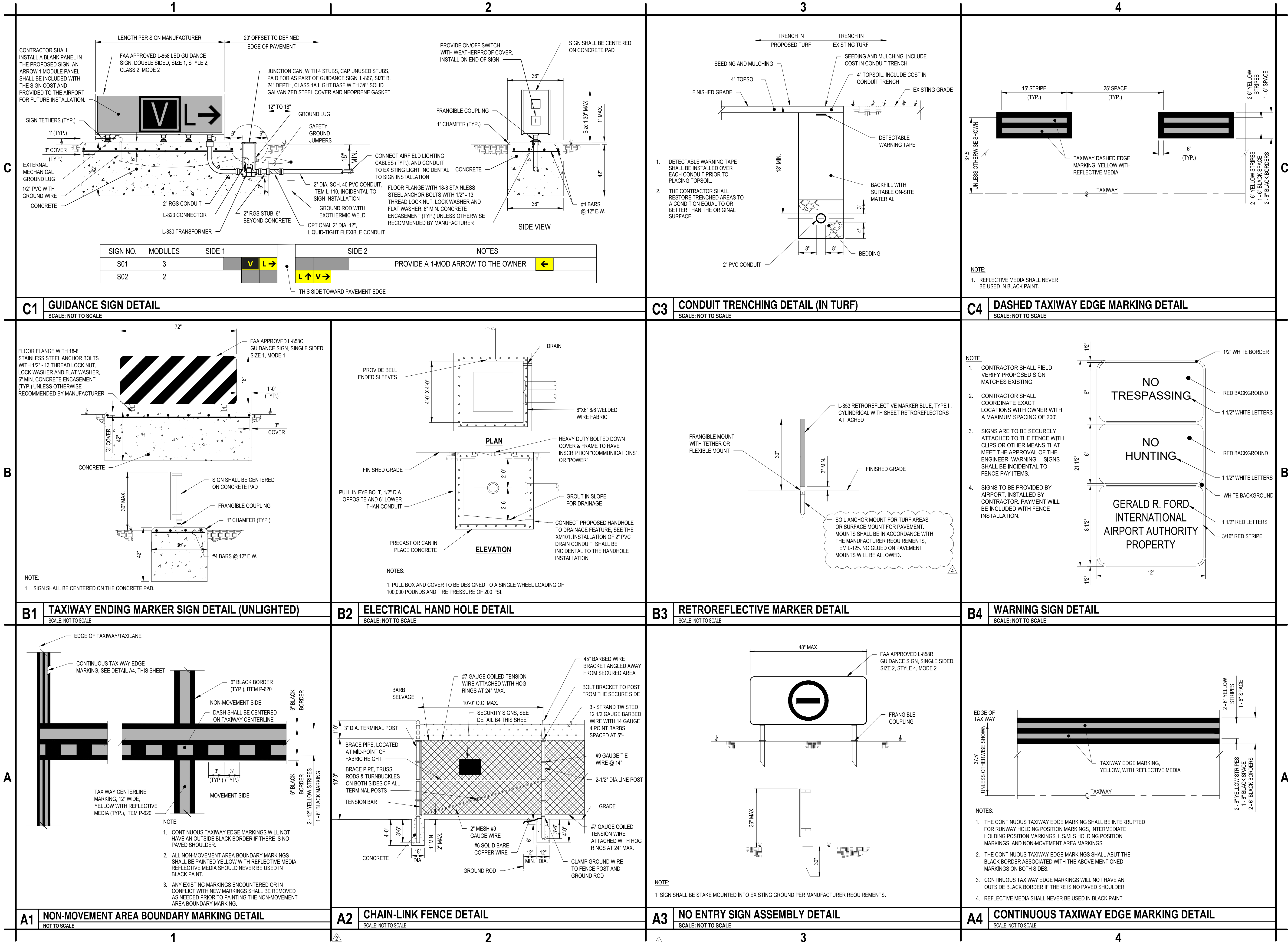
MARKING, FENCING,
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XM102

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MARKING, FENCING,
ELECTRICAL AND
COMMUNICATION
DETAILS

XM501

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